



**Independent Environmental Audit:
Bass Point Quarry
MP08_143, NSW**



Audit Reference:	AQUAS Job No. 1291
Audit Organisation:	Hanson Constructions Materials
Auditors:	James Hart, AQUAS
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Distribution and Authorisation Record

Sydney

61 2 9963 9908

Level 7

116 Miller Street

North Sydney NSW 2060

Newcastle

61 2 4928 7600

Level 2

426 King Street

Newcastle NSW 2300

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This report has been prepared by: James Hart

Date 26 October 2020

This report has been distributed to:

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Independent Audit Certification Form

Development Name Bass Point Quarry
Development Consent No. **MP08_143**
Description of Development Bass Point Extension Project
Development Address Lot 22, DP1010797 Bass Point Quarry Road, Shell Cove
Operator Hanson Construction Materials
Operator Address Level 10, 35 Clarence Street Sydney, NSW 2000

Independent Audit

Title of Audit Independent Environmental Audit: Bass Point Quarry (MP 08_143), 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 26 October 2020

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Abbreviations

AQMP	Air Quality Management Plan
AS	Australian Standard
CHMP	Cultural Heritage Management Plan
DA	Development Approval
DDG	Deposition Dust Gauge
DPIE	Department of Planning Industry and Environment
DRG	Department of Resources and Geoscience
eBAM	Beta Attenuation Monitor
EMS	Environmental Management Strategy
EPA	Environment Protection Authority
EPL	Environment Protection Licence
GMP	Groundwater Management Plan
HVAS	High Volume Air Sampler
KLMP	Killalea Lagoon Management Plan
LRMP	Landscape and Rehabilitation Management Plan
NRAR	National Resources Access Regulator
NBMP	Noise and Blast Management Plan
SWMP	Surface Water Management Plan
TMP	Transport Management Plan and Driver Code of Conduct
TSP	Total Suspended Particulates

1 INTRODUCTION

1.1 Overview

Hanson Construction Material Pty Ltd (Hanson) operate the Bass Point Quarry, an existing basalt quarry located on Haul Road Shell Cove, NSW (Lot 22 DP1010797).

Hanson acquired the Bass Point Quarry commenced operations in 1966 and has continued to operate since. Hanson was granted approval for the expansion of the quarry on 28 January 2014, which was subsequently modified in June 2017 (Modification 1). A further modification was granted in January 2019 - (Modification 2).

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

Schedule 5, condition 9 of the approval requires an Independent Environmental Audit to be conducted by 30 June 2014, and every 3 years thereafter, unless the Secretary directs otherwise. The condition requires the proponent to commission and pay the full cost of the audit. The audit must:

- a) Be 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.

It is noted that the initial audit of the project was conducted in 2015, with the previous audit was conducted in 2018. Correspondence with DPIE confirmed that the current audit was required to be completed in 2020, to align with the timeframes as identified in the conditions of consent.

1.2 Audit Objectives

The objective of this Independent Environmental Audit was to assess the operations at the Bass Point Quarry and provide a report in accordance with the requirements of Schedule 5, condition 9 of the development approval.

1.3 Audit Scope and Criteria

The scope of this audit was limited to the site, being the quarry located on Lot 22 DP1010797 Bass Point Quarry Road, Shell Cove, and processes carried out by Hanson in operating the quarry. The audit is the third for the project and covered the period since the previous audit and the date of the site inspection, i.e. July 2018 to August 2020.

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 17 August 2020.

2.2 Approvals and Documents Audited

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

- Development Approval – 08_0143 January 2019 Modification.
- Air Quality Management Plan – Bass Point Quarry, Report No 620.03389.00300-R01, 14 December 2017;
- Noise and Blast Management Plan – Bass Point Quarry Project, Report Number 610.03389.00200-R9, Rev 09, 20 November 2017.
- Surface Water Management Plan – Bass Point Quarry, P1404183JR02V03, Rev 03 8 December 2014.
- Landscape and Rehabilitation Management Plan – Bass Point Quarry, Final, November 2017.
- Environmental Management Strategy – Bass Point Quarry, March 2017;
- Environmental Protection Licence No 2193, NSW EPA, 18 June 2020;

- Groundwater Management Plan – Bass Point Quarry Expansion, P1404183JR04V03, Ver 03, 8 December 2014.
- Killalea Lagoon Management Plan– Bass Point Quarry Expansion, P1404183JR03V03, Ver 02, 5 January 2015.
- Bass Point Quarry Annual Review 2018, March 2019;
- Bass Point Quarry Annual Review 2019, March 2020;
- Transport Management Plan and Driver Code of Conduct, Issue I, 28 June 2019;
- Bass Point Quarry Complaints Registers to July 2020;
- Independent environmental Audit Bass Point Quarry, AQUAS, 25 October 2018;
- Transport monitoring Data, 2018-2020;
- Bass Point Quarry Community Consultative Committee Meeting Minutes, 2018 to 2020;
- Pollution Incident Response Management Plan, Bass Point Quarry. Version No 05 March 2020.
- Bass Point Quarry Air Quality Monitoring Results, 2018-2020.
- Bass Point Blasting Schedule 2018, 2019, 2020.
- Hanson Bass Point Blast Plan, 656 West Pit August 2020.
- Bass Point Quarry Blast Report #656, 4/09/2020.
- Post Blast Shot Firer Inspection, Blast #656, 4/09/2020.
- Blast Event Reports #656, 4/09/2020.
- Bass Point Bank Guarantee Approval, 16 October 2018.
- Topsoil Management Procedure V1.0, 14 February 2019.
- Incident Report – Bass Point Quarry (MP 08_0143), Dust criteria exceedance 2019, 4 February 2020.
- Incident Report - Unintentional discharge of polluted waters – Hanson Bass Point Quarry (EPL-2193, Reference No. C01992-2020), 17 February 2020.
- Bass Point Quarry – Quarterly Visual Inspection Checklist, September 2019, March 2020.
- Illawarra District Weed Authority – Property Inspection Report 24 June 2020.
- Illawarra District Weed Authority – Letter re Presence of Priority Weeds Priority Weed Control Co-operation Requested, 1 July 2020.
- Toolbox Talk re Landscape Mound , 27 August 2019.
- Contractor Orientation Sheet, Version 2.2 April 2020.
- Employee and LOD Orientation Confirmation Form, Version 13, April 2017.
- Environmental Noise Compliance Assessment – Bass Point Quarry 2020 Quarter 2, Harwood Acoustics, 1 July 2020.
- Bass Point Quarry – Bass Point Quarry Road Noise Barrier Acoustical Performance, Visual Inspection, 30 April 2019.
- Bass Point Discharge Monitoring Data, EPL 2195, DP1, 4/04/2019 to 28/08/2020.

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
Georgia Dragicevic A/Principal Investigator Compliance	Department of Planning & Environment	To look into the recently implemented traffic system (i.e. counting trucks on weighbridge)

		and look into rehab/landscaping, and surface/groundwater monitoring.
Phil Thompson	Community Consultative Committee – Chairperson.	No response
James Crawford Operations Officer – Regulatory Operations	NSW Environment Protection Authority – North Branch	No response provided.
Mark Miller Manager Compliance & Regulation Shellharbour City Council	Shellharbour City Council	Input from the relevant staff in Council were sought to ascertain if any concerns of issues require mentioning. The following were provided: Ongoing dust issue for Malonies Bay and the boat ramp. Excessive ground vibrations occurring during blasting On-site lighting providing visual distractions to surrounding residents at night. As a representative on the Community Consultative Committee, I have previously raised these matters with Hanson’s who have contacted the complainants and negotiated a resolution.

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
Steve Butcher	Quarry Manager	Hanson Construction Materials Pty Ltd	8/09/2020
Chelsea Flood	Compliance Officer	Hanson Construction Materials Pty Ltd	8/09/2020
Belinda Pignone	Environmental Planning and Compliance Coordinator	Hanson Construction Materials Pty Ltd	8/09/2020

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 09.00am on 2 September 2020 via videoconference. A site inspection and follow up on records was conducted on the 8 September 2019 in the Bass Point 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 Hanson, with records generally available during the audit. Additional records were provided subsequent to the onsite audit.

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

A closing meeting was held at 2.30pm on 8 September 2020 where the preliminary audit findings were presented. Where aspects of the audit remained unresolved, Hanson was requested to provide additional information. This information was provided on 1 October 2020.

2.6 Audit Compliance Status Descriptors

Compliant	The auditor has collected sufficient verifiable evidence to demonstrate that all elements of the requirement have been complied with within the scope of the audit.
Not Compliant	The auditor has determined that one or more specific elements of the conditions or requirements have not been complied with within the scope of the audit.
Not triggered	A requirement has an activation or timing trigger that has not been met during the temporal scope of the audit being undertaken (may be a retrospective or future requirement), therefore an assessment of compliance is not relevant.
Observation	As part of the Audit evaluation, the auditor may make observations, including identifying any opportunities for improvement in relation to any compliance requirement or any other aspect of the project.

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 Bass Point Quarry.

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

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

3 AUDIT FINDINGS

3.1 Overview

Specific activities being undertaken at the time of audit were:

- Loading and haulage of material from the extraction area to the processing plant;

- Crushing and screening of material;
- Stockpiling of materials;
- Loading of trucks for dispatch;
- Dust control using on-site water cart; and
- Operation of excavator, quarry trucks and front end loader.

The attached checklists record the outcomes of the audit process. Fifteen 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 Hanson as appropriate.

3.2 Previous Audit Findings

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

3.3 Development Consent (08-0143)

Schedule 2 – Administrative Controls

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

Two non-compliances were identified in relation to administrative controls.

- Eleven non-compliances were identified in relation to the conditions of approval, which triggers a non-compliance with Condition 2 (a) (See Non-compliance NC-01).
- Transport data records show that the number of trucks permitted to leave the site between 5.00am and 6.00am had been exceeded on 3 occasions in 2019 (See Non-compliance NC-02).

Schedule 3 – Environmental Performance Conditions

All of the required management plans had been developed and provided to DPIE for review and approval.

Lighting complaints had been received due to lighting from the car park associated with new facilities on site. The Quarry had responded to complaints and had redirected lighting to minimise off-site impacts. No further complaints had been received.

Seven non-compliances were raised where environmental performance conditions were not met:

- Noise reports do not show that all the noise monitoring variables identified in the Noise Management Plan had been quantified and characterised (See Non-compliance NC-03).
- No monitoring records were available for the blast event which occurred on 14/02/2020 (See Non-compliance NC-04).
- Air quality monitoring records show that particulate matter emissions had exceeded site criteria. Dust deposition results recorded for DDG2 have consistently exceeded the Annual average criteria, and particulate (PM10) monitoring had exceeded 24 hour average criteria. (See Non-compliance NC-05).
- Monitoring had not been conducted in accordance with the AQMP. LVAS sampling PM10 monitoring data was not available for the periods 5 January 2019 to 9 August 2019 and 22 November 2019 to 18 April 2020 due to equipment malfunction (See Non-compliance NC-06).

- A breach in the capacity of two sediment basins due to exceptional rainfall from Friday 7th to Sunday 9th February 2020 resulted in discharge from DP2 and DP3 which did not comply with the discharge limits in the EPL (See Non-compliance NC-07).
- Weed inspections had not always been completed in accordance with the requirements of the Landscape Management Plan (See Non-compliance NC-08);
- The Conservation and Rehabilitation bond had not been lodged within the required timeframe (due before 16/09/18, lodgement confirmed 16/10/18) (See Non-compliance NC-09).

Schedule 4 – Additional Procedures

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

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.

Three non-compliances were raised in relation to Schedule 5 requirements.

- Particulate monitoring (TSP and PM10) had not been conducted during the period 4/02/2020 to 18/04/2020 due to equipment breakdown. A report had not been provided to DPIE within 14 days identifying courses of action to prevent re-occurrence (See Non-compliance NC-10).
- DPIE had not been notified of review and/ or changes to management plans following submission of the 2017-2018 annual review, or following submission of incident reports (See Non-compliance NC-11).
- DPIE had not been immediately notified of the exceedance of water quality criteria which was identified on 10/02/2020 (DPIE notified 14/02/2020) (Non-compliance NC-12).

3.4 Environmental Protection Licence (EPL 2193)

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.

Five non-compliances were raised in relation to incident reporting.

- No monitoring records were available for the blast event which occurred on 14/02/2020 (See Non-compliance NC-04).
- Deposited dust levels at DDG2 have consistently exceeded the annual average criterion (See Non-compliance NC-05).
- An uncontrolled discharge of water occurred on 7-9/02/2020. Monitoring records showed that water quality of the discharge exceeded the site criteria for total suspended solids (See Non-compliance NC-07).
- Records did not verify that monitoring of all pollutants had been conducted. Records of pH and total suspended solids were not always available for discharge from DP1 (See Non-compliance NC-13).

- The annual production for the 2017-2018 reporting period exceeded the maximum quantity permitted in the EPL. The EPL was subsequently varied to align with the project approval limits (See Non-compliance NC-14).

3.5 Air Quality Management Plan

An AQMP had been prepared for the project was prepared and approved in 2014. The AQMP was updated in 2017 (Rev 05) and approved by DP&E on 22 December 2017. The AQMP included requirements for air quality monitoring, and measures to minimise air quality impacts of the sites operations. The AQMP has subsequently been updated (Rev 06, 30/07/2019) and submitted to DPIE for review. It was reported that comments are yet to be received on this revision.

While general compliance with the requirements of the AQMP was found, three non-compliances were raised where requirements of the AQMP had not been met.

- The annual dust deposition monitoring result for DDG 2 continues to be in excess of the average annual criteria. Site investigations had determined that the results were influenced by the close proximity of the marina development to the monitoring site (See Non-compliance NC-05).
- Monitoring had not been conducted in accordance with the requirements of the AQMP. PM₁₀ monitoring data was not available for the periods 5 February 2019 to 9 August 2019 and 23 November 2019 to 18 December 2019, and 16 February 2020 to 18 April 2020 due to equipment malfunction (See Non-compliance NC-06).
- Particulate matter (PM₁₀) exceedances had been recorded for monitoring at location PM10-2. It was noted that site investigations attributed the exceedances to off-site impacts and the close proximity of the monitoring location to the site (See Non-compliance NC-05).

3.6 Surface Water Management Plan

A Surface Water Management Plan (SWMP) has been prepared for the Quarry (8/12/14), which had been submitted to and approved by DP&E. An updated SWMP was submitted to DP&E as part of the Water Management Plan for the site and approved in February 2017. The SWMP was subsequently updated (Rev 05, 6 August 2019) to include amendments due to Project Approval Modification (MOD 2) and the EPL variation and submitted to DPIE for review and approval.

Compliance with aspects of the SWMP verified, including management of water discharged from site, erosion and sediment controls and inspections requirements.

However, two non-compliances were raised where requirements of the SWMP had not been implemented.

- Discharge monitoring results for DP 1 do not always include all variables required to be monitored. Total suspended solids and pH were not recorded for all discharge events. The annual dust deposition monitoring result for DDG 2 continues to be in excess of the average annual criteria. Site investigations had determined that the results were influenced by the close proximity of the marina development to the monitoring site (See Non-compliance NC-13).
- Water discharged through DP 2 and DP 3 on 10/02/2020 exceeded the site criteria for total suspended solids (See Non-compliance NC-07).

3.7 Groundwater Management Plan

A Groundwater Management Plan (GMP) has been prepared for the Bass Point Quarry Expansion (8/12/14), which had been submitted to and approved by DPIE. An updated GMP was submitted to DPIE as part of the Water Management Plan for the site and approved in February 2017. The GMP was subsequently updated (August 2019) to include amendments due to Project Approval Modification (MOD 2) and EPL variation and submitted to DPIE for approval. Compliance with aspects of the GMP was verified, including management of water discharged from site, erosion and sediment controls and inspections requirements.

No non-compliances were against the requirements of the GMP.

3.8 Landscape Management Plan

The Quarry has been operating under a Landscape Management Plan (LMP) which had been submitted to DPIE and approved in December 2017. The LMP included requirements for clearing, threatened species, weeds and feral pests, erosion and sediment controls, and monitoring requirements. The LMP had subsequently been updated in August 2019 and August 2020 and submitted to DPIE for review and approval.

Two issues had been identified in relation to the landscape and rehabilitation management.

- Weed inspections had not always been conducted in accordance with the requirements of the LMP. A new contractor had been engaged to provide weed management services following departure of the previous contractor, with inspections recommencing in June 2020 (See Non-compliance NC-09).
- The Conservation and Rehabilitation bond had not been lodged within the required timeframe. The bond was lodged 16/10/18 (due 16/09/18) (See Non-compliance NC-09).

3.9 Noise and Blast 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.

One non-compliance was raised where the requirements for noise management were not met.

- While noise monitoring had been conducted, noise monitoring reports did not include all the statistical indices identified in the Noise Management Plan (See Non-compliance NC-03).

One non-compliance was raised where the requirements for blast management not met.

- Records were not available for monitoring of the blast which occurred on 14/02/2020. This issue was reported to DPIE and EPA on the day of the incident (See Non-compliance NC-04).

3.10 Killalea Lagoon Management Plan

The site had developed a Killalea Lagoon Management Plan (KLMP) to monitor and manage the impact of the quarry activities on the adjacent Killalea Lagoon. The plan had been prepared and approved in January 2015 and September 2016. The KLMP was further updated in August 2019 to include amendments due to Project Approval Modification (MOD 2) and EPL variation and submitted to DPIE for review and approval.

The KLMP included requirements for monitoring water in the lagoon, groundwater impacts near the lagoon and contingency responses where monitoring indicates an unacceptable impact.

Monitoring had been conducted on the Killalea Lagoon, with no adverse impacts due to quarry operations identified. It is noted that no impacts are expected until quarrying goes below 0m AHD. No non-compliances were identified in relation to implementation of the Killalea Lagoon Management Plan.

3.11 Transport Management Plan and Driver Code of Conduct

A Transport Management Plan and Driver Code of Conduct (TMP) had been developed and approved in 2014. The TMP was updated in 2016 and approved in October 2016. The TMP had been updated in April 2019 and submitted to DPIE for review (May 2019), amended and approved 11/07/2019.

The audit identified general compliance with the TMP. Records of truck movements were maintained from weighbridge information in the SAP system.

However, one non-compliance was raised where full compliance with the requirements of the traffic management plan was not found.

- Records showed that the number of trucks despatched between 5.00am and 6.00am had exceeded the maximum number permitted on three occasions in 2019. On two occasions (22/03/2019 and 2/05/2019) the exceedance was due to issues with the truck logging system. The actual number of truck despatched did not exceed the maximum permitted (See Non-compliance NC-02).

3.12 Cultural Heritage Management Plan

A Cultural Heritage Management Plan (CHMP) had been prepared for the quarry. The plan was prepared and approved prior to the previous audit of the project. The CHMP has been updated (Version 4.0, 30 August 2019) but has yet to be approved by DPIE.

The site has one known area of cultural significance, a dry stone wall. The quarry was aware of the dry stone wall, and no works were planned for the area encompassing the wall. Works on site had not triggered any requirements of the CHMP.

3.13 Environmental Management Strategy

An Environmental Management Strategy (EMS) had been developed and implemented for the site. The EMS had been prepared in 2017 and approved by DP&E in April 2018. The EMS had been further updated (19/09/2019) following completion of the AEMR, project Approval Modification (MOD 2) and variation to the EPL. The updated EMS had been submitted and was awaiting approval by DPIE.

While compliance with aspects of the EMS was found, one non-compliance was identified where the implementation of the requirements of the EMS had not been adequately demonstrated.

- The EMS requires the incident register to be audited at 3 monthly intervals by Quarry management. No records of quarterly auditing of the incident register were available.

3.14 Areas of Non-compliance

Issue No.	Condition	Requirement	Issue sighted												
NC-01	Schedule 2, Condition 2	The Proponent must carry out the project: <ul style="list-style-type: none"> (a) generally in accordance with the EA, EA (MOD 1), EA (MOD 2) and the project layout; and (b) in accordance with the statement of commitments and the conditions of this approval. 	Eight non-compliance were raised where compliance with the conditions of consent was not demonstrated. Recommendation: Hanson should ensure that appropriate processes are developed and implemented to ensure compliance with the requirements of the conditions of consent.												
NC-02	Schedule 2, Condition 8	The Proponent must limit the dispatch of trucks carrying quarry products or concrete from the site to the levels shown in Table 1. <ul style="list-style-type: none"> • <i>Table 1: Laden Truck Dispatch Hours</i> <table border="1" data-bbox="400 875 863 1368"> <thead> <tr> <th>Period</th> <th>Maximum laden truck despatch</th> </tr> </thead> <tbody> <tr> <td>7 am – 10 pm</td> <td>40 in any hour</td> </tr> <tr> <td>10 pm – 7 am</td> <td>23 in any hour</td> </tr> <tr> <td>5 am – 6 am (Monday to Friday only and excluding Public Holidays)</td> <td>27</td> </tr> <tr> <td>6 am – 7am (Monday to Friday only and excluding Public Holidays)</td> <td>38</td> </tr> <tr> <td>24-hour period on any day</td> <td>500</td> </tr> </tbody> </table>	Period	Maximum laden truck despatch	7 am – 10 pm	40 in any hour	10 pm – 7 am	23 in any hour	5 am – 6 am (Monday to Friday only and excluding Public Holidays)	27	6 am – 7am (Monday to Friday only and excluding Public Holidays)	38	24-hour period on any day	500	Transport data from the 2019 annual review show 3 exceedances in 2019: <ul style="list-style-type: none"> • 9/02/2019 – 28 trucks despatched between 5.00am and 6.00am (23 permitted). • 22/03/2019 - 28 trucks despatched between 5.00am and 6.00am (27 permitted). • 2/05/2019 - 28 trucks despatched between 5.00am and 6.00am (27 permitted). Recommendation: Hanson should ensure that the maximum number of laden trucks despatched does not exceed that permitted by Schedule 2, Condition 8 in any period.
Period	Maximum laden truck despatch														
7 am – 10 pm	40 in any hour														
10 pm – 7 am	23 in any hour														
5 am – 6 am (Monday to Friday only and excluding Public Holidays)	27														
6 am – 7am (Monday to Friday only and excluding Public Holidays)	38														
24-hour period on any day	500														

<p>NC-03</p>	<p>Schedule 3, Condition 6</p>	<p>The Proponent must prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with the EPA, and submitted to the Secretary for approval by 31 May 2014;</p> <p>(b) describe the measures that would be implemented to ensure:</p> <ul style="list-style-type: none"> – best management practice is being employed to minimise the construction, operational and transport noise of the project; – the noise impacts of the project are minimised during any meteorological conditions when the noise limits in this approval do not apply; and – compliance with the relevant conditions of this approval; <p>(c) describe the proposed noise management system in detail; and</p> <p>(d) include a monitoring program that:</p> <ul style="list-style-type: none"> – is capable of regularly evaluating the performance of the project, including noisy individual items of plant, such as haulage trucks, crushers and bulldozers; – includes a protocol for determining any exceedances of the relevant conditions in this approval at locations listed in Table 2; and – evaluates and reports on the effectiveness of the noise management system on site. <p>The Proponent must implement the approved management plan as approved from time to time by the Secretary.</p>	<p>It was noted in the previous report that the Noise Management Plan stated that the operator shall quantify and characterise the overall levels of ambient noise (i.e. L_{Amax}, L_{A1}, L_{A10}, L_{A50}, L_{A90}, L_{A99}, L_{Amin}) over the 15 minute measurement interval. While the consultant had been requested to include the required information, noise reports do not show that the noise monitoring variables had been quantified and characterised.</p> <p>Recommendation: Hanson should ensure that records are maintained to verify that noise monitoring includes characterisation of the overall levels of ambient noise (i.e. L_{Amax}, L_{A1}, L_{A10}, L_{A50}, L_{A90}, L_{A99}, L_{Amin}) over the 15 minute measurement interval.</p>
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NC-04	Schedule 3, Condition 14	<p>The Proponent must prepare and implement a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> (a) be prepared in consultation with the EPA, and be submitted to the Secretary for approval by 31 May 2014; (b) describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> · best management practice is being employed; and · compliance with the relevant conditions of this approval; (c) include a specific blast fume management protocol to demonstrate how emissions will be minimised, including risk management strategies if blast fumes are generated; and (d) include a monitoring program for evaluating the performance of the project including: <ul style="list-style-type: none"> · compliance with the applicable criteria; and · minimising fume emissions from the site. <p>The Proponent must implement the approved management plan as approved from time to time by the Secretary.</p>	<p>No monitoring records were available for the blast event which occurred on 14/02/2020. Reported as a non-compliance to DPIE and EPA 14/02/2020.</p> <p>Recommendation: Hanson should ensure that monitoring of all blast events is conducted in accordance with Schedule 3, Condition 14.</p>
NC-05	Schedule 3, Condition 14	<p>The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria in Tables 4 to 6 at any residence on privately-owned land.</p>	<p>Deposited dust at DDG2 has consistently exceeded the Maximum total deposited dust level of 4g/m²/mth. Investigations by the Quarry have determined that deposited dust levels at DDG2 were impacted by the earthworks being conducted for the adjacent marina development.</p> <p>While particulate matter (PM₁₀) exceedances had been recorded for monitoring at location PM10-2, site investigations attributed the exceedances to off-site impacts and the close proximity of the monitoring location to the site.</p>

NC-06	Schedule 3, Condition 16	<p>The Proponent must prepare and implement an Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with the EPA, and submitted to the Secretary for approval by 31 May 2014;</p> <p>(b) describe the measures that would be implemented to ensure:</p> <ul style="list-style-type: none"> · best management practice is employed; · the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events; and · compliance with the relevant conditions of this approval; <p>(c) describe the proposed air quality management system based on the preparation of a site-specific best management practice determination and reactive dust management strategy; and</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 project; · includes a protocol for determining any exceedances of the relevant conditions of approval; · adequately supports the air quality management system; and · evaluates and reports on the adequacy of the air quality management system. <p>The Proponent must implement the approved management plan as approved from time to time by the Secretary.</p>	<p>Monitoring of PM₁₀ had not been conducted in accordance with Section 7.4 of the AQMP. LVAS sampling PM₁₀ monitoring data was not available for the periods 5 February 2019 to 9 August 2019, 23 November 2019 to 18 December 2019, and 16 February 2020 to 18 April 2020 due to equipment malfunction.</p> <p>Recommendation: Hanson should review controls for managing dust emissions from site to ensure that all feasible measures are implemented.</p>
NC-07	Schedule 3, Condition 19 EPL Condition L1 EPL Condition L2	<p>Unless an EPL or the EPA authorises otherwise, the Proponent must ensure that all surface water discharges from the site comply with section 120 of the POEO Act.</p>	<p>A breach in the capacity of two sediment basins due to exceptional rainfall from Friday 7th to Sunday 9th February 2020 resulted in discharge from DP2 and DP3 which did not comply with the discharge limits in the EPL (high Total Suspended Solids).</p> <p>Recommendation: Hanson should ensure that Surface water discharges comply with site licenced discharge requirements. Consider requesting a variation to the EPL to consider uncontrolled discharges during periods of exceptional rainfall.</p>

NC-08	Schedule 3, Condition 40	<p>The Proponent must prepare and implement a Landscape Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>e) include a detailed description of the measures that would be implemented, including the procedures to be implemented for:</p> <ul style="list-style-type: none"> • controlling weeds and feral pests; 	<p>Weed inspections had not been conducted in accordance with the Landscape Management Plan. No weed inspections had been conducted in 2019.</p> <p>Recommendation: Weed inspections should be conducted in accordance with the requirements of the Landscape Management Plan.</p>
NC-09	Schedule 3, Condition 41	<p>Within 6 months of the approval of the Landscape Management Plan, the Proponent must lodge a Conservation and Rehabilitation Bond with the Department to ensure that the rehabilitation of the site is implemented in accordance with the performance and completion criteria set out in the Landscape Management Plan. The sum of the bond must be determined by:</p> <p>(a) calculating the cost of rehabilitating the site; and</p> <p>(b) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary.</p>	<p>Landscape and Rehabilitation Management Plan approved 16/03/2018.</p> <p>Conservation and Rehabilitation Bond not lodged within 6 months of approval of the plan. Due before 16/09/18.</p> <p>Lodgement confirmed by DPIE 16/10/18.</p> <p>Recommendation: No further action required.</p>

<p>NC-10</p>	<p>Schedule 5, Condition 1</p>	<p>The Proponent must prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:</p> <p>(a) be submitted to the Secretary for approval by 31 July 2014;</p> <p>(b) provide the strategic framework for environmental management of the project;</p> <p>(c) identify the statutory approvals that apply to the project;</p> <p>(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;</p> <p>(e) describe the procedures that would be implemented to:</p> <ul style="list-style-type: none"> • keep the local community and relevant agencies informed about the operation and environmental performance of the project; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the course of the project; • respond to any non-compliance; and • respond to emergencies; and <p>(f) include:</p> <ul style="list-style-type: none"> • copies of any strategies, plans and programs approved under the conditions of this approval; and • a clear plan depicting all the monitoring required to be carried out under the conditions of this approval. <p>The Proponent must implement the approved strategy as approved from time to time by the Secretary.</p>	<p>No records were available to verify that the incident register had been audited at three monthly intervals.</p> <p>Recommendation: The incident register should be audited at three monthly intervals in accordance with the requirements of the Environmental Management Strategy.</p>
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NC-11	Schedule 5, Condition 2	<p>The Proponent must assess and manage project-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 approval 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 Proponent must, at the earliest opportunity:</p> <ul style="list-style-type: none"> (a) take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur; (b) consider all reasonable and feasible options for remediation (where relevant); (c) within 14 days of the exceedance occurring, submit a report to the Secretary describing these remediation options and any preferred remediation measures or other course of action; and (d) implement remediation measures as directed by the Secretary; <p>to the satisfaction of the Secretary.</p>	<p>No data was available from the LVAS for the period 4/02/2020 to 18/04/2020. Note that back up unit malfunctioned at same time, hence was not able to be used.</p> <p>Not reported as a non-compliance to DPIE.</p> <p>Recommendation: All non-compliances should be reported to DPIE in accordance with the requirements of Schedule 5, Condition 2.</p>
NC-12	Schedule 5, Condition 5	<p>Within 3 months of:</p> <ul style="list-style-type: none"> (a) the submission of an annual review under condition 4 above; (b) the submission of an incident report under condition 7 below; (c) the submission of an audit report under condition 9 below; or (d) any modification to this approval (unless the conditions require otherwise), <p>the Proponent must review the strategies, plans, and programs required under this approval, 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 to the Secretary for approval.</p> <p>The Proponent must notify the Department in writing of any such review being undertaken. Where this review leads to revisions in any such document, then within 6 weeks of the review the revised document must be submitted for the approval of the Secretary</p>	<p>Email to DPIE 3/07/18.</p> <p>No updates have occurred as a result of the annual review. No evidence provided to show the DPIE had been notified that a review of the management plans had been completed.</p> <p>No evidence of review of management plans following submission of the previous independent audit report.</p> <p>No evidence of review of the AQMP following air quality exceedances.</p> <p>Recommendation: Management plans should be reviewed, and updated where required, in accordance with the requirements of Schedule 5, Condition 5.</p>

NC-13	Schedule 5, Condition 7	The Proponent must immediately notify the Secretary (using the contact name, email address and phone number provided by the Department from time to time) and any other relevant agencies of any incident.	<p>Water quality incident 10/02/2020. EPA notified 10/02/2020. DPIE were not notified until 14/02/2020. The site had not notified DPIE immediately upon becoming aware of the water quality exceedance.</p> <p>Recommendation: Hanson should ensure that DPIE is notified immediately upon becoming aware of an environmental incident, including exceedances of site monitoring criteria.</p>						
NC-14	EPL Condition A1.1	<p>This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.</p> <p>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.</p> <table border="1" data-bbox="400 1010 906 1319"> <thead> <tr> <th>Fee Based Activity</th> <th>Scale</th> </tr> </thead> <tbody> <tr> <td>Crushing, Grinding or separating</td> <td>> 500000-2000000 T annual processing capacity</td> </tr> <tr> <td>Land-based extractive activity</td> <td>> 500000-2000000 T annual capacity to extract, process or store</td> </tr> </tbody> </table>	Fee Based Activity	Scale	Crushing, Grinding or separating	> 500000-2000000 T annual processing capacity	Land-based extractive activity	> 500000-2000000 T annual capacity to extract, process or store	<p>The annual production for the 2017-2018 reporting period exceeded the maximum quantity permitted in the EPL.</p> <p>Noted that the EPL was subsequently varied to align with the project approval limits.</p> <p>Recommendation: No further action required.</p>
Fee Based Activity	Scale								
Crushing, Grinding or separating	> 500000-2000000 T annual processing capacity								
Land-based extractive activity	> 500000-2000000 T annual capacity to extract, process or store								
NC-15	EPL Condition M2.1 EPL Condition M2.2	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:	<p>Records do not show that all required pollutants were monitored during the period covered by this report. Records of pH and total suspended solids were not always available for discharge from DP-1.</p> <p>Recommendation: Hanson should ensure that water quality monitoring is conducted for all discharge events in accordance with the requirements of EPL 2193.</p>						

3.15 Areas of compliance

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

4 CONCLUSIONS

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

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

CIRCULATION

- ✓ **Hanson Pty Ltd**
- ✓ **AQUAS Pty Ltd**

5 Substantive Changes.

No substantive changes were made as the result of a review of the draft audit report provided to Hanson.

Appendix A. - Previous Audit Findings

Issue No.	Condition	Requirement	Issue sighted	Hanson Response	Status
N-01	Schedule 2– Administrative Controls 8 Environmental Management Strategy 3.2.2 Training	The Proponent must ensure that all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.	While a site induction is provided, the site induction does not include specific requirements for environmental management of the site. Recommendation: Update the Site induction to include information on site environmental aspects, impacts and controls.	Please note that the following is currently included within the induction documentation. Environmental Management & Controls: <ul style="list-style-type: none"> • Show site license/EMP and explain meaning, any special conditions e.g. dust, noise, spillage, also any sensitive areas e.g. streams or rivers. • Requirement to immediately report any spill or breach. • Aspect and Impact register • How individuals can contribute to reducing environmental impact. • Show location of the site spill kits and overview on how to use them Hanson has updated the site induction to specifically discuss site requirements involving: <ul style="list-style-type: none"> • EECs • potential water quality impacts • weed management • dust and noise 	Closed
N-02	Schedule 3– Specific Environmental Conditions 14 Air Quality Criteria Air Quality Management Plan 8.1 Best Practice Measures	The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria in Tables 4 to 6 at any residence on privately-owned land.	All Controls identified to mitigate particulate matter emissions in Section 8 of the AQMP have not been implemented. No shaker grids had not been installed. Vacuuming / sweeping of dirt track-out onto public roads was not conducted. Recommendation: Implement all measures for managing dust emissions identified in the AQMP.	A street sweeper is once a week on the Council road connecting Bass Point Quarry Road from the quarry to the State highway. This was explained to the auditor at the time of the audit. Additionally there are spray bars prior to the weigh bridge that all heavy vehicle transport is required to go through before leaving the site. The spray jets wash the truck wheels which negates the need for shaker grids.	Closed
N-03	Schedule 3– Specific Environmental Conditions	The Proponent must ensure that all chemicals and/or petroleum products on site are held in	Noted that some oil drums, while stored on bunded pallets, were not	Site staff has been notified of the correct process regarding oil drum storage within bunded pallets (Auditor noted that one	During the site inspection,

Issue No.	Condition	Requirement	Issue sighted	Hanson Response	Status
	22	<p>appropriately bunded areas with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund, and in accordance with Australian Standard AS1940-2004, The Storage and Handling of Flammable and Combustible Liquids. The flooring and bund(s) must be designed in accordance with:</p> <ul style="list-style-type: none"> · the requirements of relevant Australian Standards; and · DECC’s Storing and Handling Liquids: Environmental Protection – Participants Manual. 	<p>stored such that spills would be collected in the bund. Minor spillage of oils outside of bunded area sighted (spills within the building on concrete floor).</p> <p>Recommendation: Ensure all oils and chemicals are stored in accordance with AS1940-2004. Minor spills should be cleaned up to prevent migration of spilt material.</p>	<p>bunded pallet can only hold one oil drum. At the time of the audit he noted that one bunded pallet was holding four oil drums). Additionally site staff has been updated on oil spillage protocol, which is included in the site induction. Create new dedicated storage area for oil drums.</p>	<p>oil drums were noted to be stored correctly.</p> <p>Closed</p>
N-04	Schedule 5 Environmental Management, Reporting and Auditing 2	<p>The Proponent must assess and manage project-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 approval 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 Proponent must, at the earliest opportunity:</p> <p>(a) take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur;</p>	<p>For the 2017 period, the annual average dust deposition level for DDG 02 was reported as 3.4 g/m²/mth, although this was with the removal of the February 2017 result of 11.1 g/m²/mth, which was considered anomalous. No reason for exclusion of the result was provided. Inclusion of the February result elevates the annual average to 4.3 g/m²/mth. Results for the first 5 months of 2018 for DDG2 were all above 4.0 g/m²/mth. Records showed that exceedances had been discussed with the EPA, and were considered to be due to works on the adjacent marina development, not associated with the quarry activities. During the site inspection, it was noted that earthworks associated with the marina development were being conducted in close proximity to the dust gauge DDG2.</p>	<p>Incorporation of a review schedule by a dedicated person on a monthly basis. Documentation kept for every investigation carried out. Discuss with EPA and DPE regarding moving the DDG to a more suitable location. 2018 results have been investigated and a report has been submitted to DPE and EPA regarding the DDG2 exceedance. An amendment to EPL 2193 has been submitted to relocate DDG2 to a more representative location. Once approved the AQMP will be updated to reflect the change in location.</p>	<p>DDG2 moved to new agreed location. Incident report provided regarding continued exceedances of deposited dust criteria at DDG2.</p> <p>Closed</p>

Issue No.	Condition	Requirement	Issue sighted	Hanson Response	Status
		(b) consider all reasonable and feasible options for remediation (where relevant); (c) within 14 days of the exceedance occurring, submit a report to the Secretary describing these remediation options and any preferred remediation measures or other course of action; and (d) implement remediation measures as directed by the Secretary; to the satisfaction of the Secretary.	Results for DDG 01, have consistently been below the annual average criterion, with the annual average for 2017 being below 2mg/m ² /month. PM10 level 19/03/18 - 57.9µg/m ³ (24 hour average <50µg/m ³). No formal assessment has been undertaken to determine the cause and actions to reduce dust deposition levels, and a report provided to the Secretary describing remediation options and any preferred remediation measures or other course of action. Recommendation: Review process for management of dust exceedances. Ensure reports are provided to the Secretary as required by Schedule 5, condition 2.		
N-05	Schedule 5 Environmental Management, Reporting and Auditing 8	The Proponent must provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval	While water quality results were provided in the annual review on the company website, regular reporting of water quality results was not provided on the website. Recommendation: Upload water quality results to the website basis as results become available.	Provide water quality results to be uploaded onto the website on a monthly basis. Results for 2018 to be compiled into singular document. Monthly results to be provided 2019 onwards with results compiled at the end of the year to ease of navigation on the website	Water monitoring results were available on the website. Closed
N-06	EPL R2 Notification of environmental harm R3 Written Report	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred	Two environmental incidents had occurred where the EPA had requested written reports to be provided. No record that a report had been provided to the EPA. Recommendation: Provide written report to the EPA for incidents causing or threatening to cause environmental harm, or where requested by EPA.	Steve Butcher has indicated that he provided written correspondence with EPA at time of audit. Steve to provide written documentation/evidence of incidents. Develop a protocol when an environmental incident/potential environmental incident has occurred. Nominate personnel to take ownership of reporting incidents.	Reports were available for dust deposition exceedance (2019) and water discharge event on 10/02/2020.

Issue No.	Condition	Requirement	Issue sighted	Hanson Response	Status
					Closed
N-07	Landscape Management Plan 8.3 Salvage of topsoil and vegetation resources for use in rehabilitation	Operators will be instructed to place soil neatly and uniformly so the stockpile does not require further forming prior to establishment of vegetation cover. Driving of machinery on the soil stockpiles will be prohibited once the stockpiles are created to minimise compaction and further degradation of soil structure. Soil stockpiles will not exceed 2m in height.	No procedure was available for stockpiling to instruct drivers on how to construct stockpiles. Reported that verbal instructions were provided. Recommendation: Prepare procedure for salvage of topsoil and vegetation resources. Provide training and instruction to drivers in the procedure.	Steve Butcher to develop procedure for salvage of topsoil and vegetation resources. Provide training and instruction to drivers in the procedure before works begin.	Topsoil Management Procedure, V 1.0, 14/02/2019 available. Closed
N-08	Landscape Management Plan 12.1 Progressive Rehabilitation	Quarry personnel will conduct quarterly visual inspections of vegetation condition in revegetated areas. Any identified failure of seed development or tubestock dieback will be remediated in the next round of annual revegetation activities. As areas of the Quarry are revegetated they will progressively be added to the annual weed management program.	No records available to verify quarterly visual inspections had been undertaken. Recommendation: Maintain records of quarterly visual inspections. Consider preparing checklist to assist in undertaking and recording inspection outcomes.	Develop quarterly visual inspections, to be undertaken by Quarry Manager and Compliance Officer.	Visual inspection checklist sighted (e.g. 1/09/2020) Closed
N-09	Environmental Management Strategy 4.1 Water Management Monitoring Programs	Monitoring Plan (as required) <ul style="list-style-type: none"> • Check basin structural integrity. • Check outlet for signs of scour/failure. • Check sediment volume. • Check and record water level. 	Records of inspections not available. Recommendation: Undertake inspections as required by the EMS 4.1. Consider preparing checklist to assist in undertaking and recording inspection outcomes.	In accordance with 4.1 of BPQ EMS: Monitoring plan to include: Check basin structural integrity, check outlet for signs of scour/failure, check sediment volume, check and record water level. Quarterly inspection by Quarry personnel to visually establish the condition of vegetation, evidence of dieback and weed coverage. Develop an inspection checklist that covers off the required inspection from 4.1 of the BPQ EMS.	Visual inspection checklist sighted (e.g. 1/09/2020) Closed

A1	Schedule 2– Administrative Controls 8 Traffic Management Plan 1.3 Transport limitations	The Proponent must limit the dispatch of trucks carrying quarry products or concrete from the site to the levels shown in Table 1.	Transport data records show exceedances of hourly limits for maximum laden truck despatches. Reported to be due to either split loads, internal movements being recorded or loads being reallocated (time of reallocation recorded, not the time of transport from site). Recommendation: Review process for recording of truck movements to determine if the time of time of despatch from site can be recorded.	Limitations of the software due to compliance with chain of responsibility legislation and the requirements within the software for drivers to have mandatory breaks. If a truck is preloaded the night before, it will be in the system long enough to create issues regarding process. This is reason why the load is ticketed when a pre-loaded truck arrives at the destination plant/when reallocation occurred.	Closed
A2	Schedule 5 Environmental Management, Reporting and Auditing 1A	1A. Where consultation with any public authority is required by the conditions of this approval, the Proponent must: (a) consult with the relevant public authority prior to submitting the required document to the Secretary for approval; (b) submit evidence of this consultation as part of the relevant document; (c) describe how matters raised by the authority have been addressed and any matters not resolved; and (d) include details of any outstanding issues raised by the authority and an explanation of disagreement between any public authority and the Proponent.	Initial Environmental Management Strategy submitted and approved by DP&E. Verified previous audit. Updated March 2017 Approved by DP&E 9 April 2018. Evidence of consultation not included in the updated EMS approved 9 April 2018. Recommendation: Include evidence of consultation in the EMS.	Confirm what consultation documents are required within the EMS. Consultation has been provided as Appendix A in the draft Environmental Management Strategy which will be submitted to DPE within three month of the 2018 Annual Review submission.	Evidence of consultation where required included in specific management plans (e.g. CHMP. TMP). Closed
A3	Schedule 5 Environmental Management, Reporting and Auditing 5 and 5A	Within 3 months of: (a) the submission of an annual review under condition 4 above; (b) the submission of an incident report under condition 7 below; (c) the submission of an audit report under condition 9 below; or (d) any modification to this approval (unless the conditions require otherwise), the Proponent must review the strategies, plans, and programs required	Records did not show that reviews of documents were conducted following submission of the annual reviews or following completion of the previous audit report in 2015. Recommendation: Review strategies, plans and programs within 3 months of submission of the annual review, an incident or audit report. Provide notification of the	Notification will be given to DPE when an annual review, incident or audit report has been undertaken at the site. Melissa Anderson was contacted regarding the review of the BPQ management plants within 3 months of the submission of the audit report. Ongoing, the Grad. Environmental Compliance and Planning Coordinator will	Evidence of review of management plans following submission of annual reviews sighted for 2018 and 2019. Closed

		<p>under this approval, 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 to the Secretary for approval.</p> <p>The Proponent must notify the Department in writing of any such review being undertaken. Where this review leads to revisions in any such document, then within 6 weeks of the review the revised document must be submitted for the approval of the Secretary.</p>	<p>review to the Department, and revised documents within 6 weeks of the review.</p>	<p>be providing notification to DPE regarding management plan review after the submission of an annual review, an incident or audit report.</p>	
A4	Schedule 5 Environmental Management, Reporting and Auditing 7	<p>The Proponent must immediately notify the Secretary (using the contact name, email address and phone number provided by the Department from time to time) and any other relevant agencies of any incident.</p>	<p>9/02/18 – Blast exceedance 24/11/17 Precoat spill contained on site. Incidents reported to the EPA. Not reported to the Secretary. Recommendation: Ensure the Secretary is notified of all incidents which occur on site.</p>	<p>The blast exceedance noted by the auditor on the 9/02/2018 was a peak recorded before the blast. The monitoring records indicate this and can be provided to DPE. Pre-coat spill incident report has been submitted to DPE. Information regarding the reported blast exceedance has been provided to DPE.</p>	<p>Exceedance of air quality criteria (2019) and water discharge event on 10/02/20 were reported to the Secretary as soon as practicable following identification. Closed</p>
A5	Schedule 5 Environmental Management, Reporting and Auditing 7A	<p>Within 7 days of the date of the incident, the Proponent must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested. This report must include the time and date of the incident, details of the incident, measures implemented to prevent re-occurrence and must identify and non-compliance with this approval.</p>	<p>9/02/18 – Blast exceedance 24/11/17 Precoat spill contained on site. Incidents reported to the EPA. No reports provided to the Secretary. Recommendation: Ensure incident reports are provided to the Secretary within 7 days of the date of the incident.</p>		<p>Reports had been provided to the Secretary for Exceedance of air quality criteria (2019) and water discharge event on 10/02/20 Closed</p>
A6	Schedule 5 Environmental Management, Reporting and Auditing	<p>By 30 June 2014, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission and pay the full cost of an</p>	<p>Auditor commissioned prior to 30 June 2018 to conduct audit. Determination January 2014. Initial audit commissioned 2015.</p>	<p>Request clarification on when DPE would prefer the audits to be submitted - Continue on current three year cycle?</p>	<p>Timing of audits clarified. Audit planned and conducted in accordance</p>

	9	<p>Independent Environmental Audit of the project. This audit must:</p> <ul style="list-style-type: none"> (a) be conducted by 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 project and whether it is complying with the relevant requirements in this approval and any relevant EPL and/or Water Licence (including any assessment, plan or program required under these approvals); (d) review the adequacy of any approved strategy, plan or program required under these approvals; and (e) recommend measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under these approvals. 	<p>This audit conducted 3 years after initial audit. Audits had not conducted in 2014 and 3 yearly thereafter.</p> <p>Recommendation: Clarify timing of audits with the Secretary. Undertake audits in accordance with agreed requirements.</p>	<p>Clarification received from Georgia- DPE that the next audit is to occur 2020.</p>	<p>with required timing.</p> <p>Closed</p>
A7	<p>Schedule 5 Environmental Management, Reporting and Auditing 10</p>	<p>Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.</p>	<p>Audit commissioned 29/06/15. Draft submitted to Hanson 14/09/15. Email sent to DG 30/11/15 re delays.</p> <p>Audit report not submitted within 3 months of commissioning of the audit. Audit report submitted 14/12/15.</p> <p>Recommendation: Ensure audits are provided to the Secretary within 3 months of commissioning of the audit, or as agreed with the Secretary.</p>	<p>Noted</p>	<p>Audit conducted in 2018 was submitted within 3 months of commissioning of the audit.</p> <p>Closed</p>

A8	EPL 2193 M4.2 Recording of Pollution Complaints	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.	The Complaints Register does not include the personal details of the complainant or, if no such details were provided, a note to that effect. Recommendation: Update the complaints register to include all required information.	The complaints register has been updated to include a column for personal details (if complainant wants to provide personal information). If complainant refuses to provide details, note it within the complaints register.	Column four added for inclusion of complainant details. Closed
A09	EPL 2193 M6.2	To determine compliance with the blasting limits contained in this licence: (a) Airblast overpressure and ground vibration levels must be measured for all production blasts carried out in or on the premises; and (b) The written record must include: (i) the time and date of each blast (ii) the station(s) at which the noise was measured; (iii) the ground vibration for each blast; (iv) the airblast overpressure for each blast; (v) evidence that during the past 12 month period, a calibration check had been carried out on each blast monitor to ensure accuracy of the reported data; and (vi) the waveform for the ground vibration and overpressure for each blast that exceeds a ground vibration of 5mm/sec (peak particle velocity) or an airblast overpressure of 115dB(L). (c) Instrumentation used to measure the airblast overpressure and ground	Blast records did not include evidence that during the past 12 month period, a calibration check had been carried out on each blast monitor. Recommendation: Include blast monitor calibration records in blast records.	Noted. One calibration check on one monitor was missed when auditor was reviewing records. Calibration was performed in August for 2018.	Calibration data included in Event Report for each blast Closed

		vibration levels must meet the requirements of Australian Standard 2187.2 of 1993 or as updated			
A10	Air Quality Management Plan 7.3 Continuous PM ₁₀ Monitor	The monitoring locations are to conform to the requirements of AS 3580.1.1:2007 Methods for sampling and analysis of ambient air – Guide to siting air monitoring equipment, subject to local site constraints with any deviations from the standard noted in the siting documentation.	Current location of the eBAM does not conform to the requirements of AS 3580.1.1:2007. To be re-sited on completion of the redevelopment of the site. Located in accordance with the identified location in the AQMP. No siting documentation was maintained to record deviations from the standard. Recommendation: Ensure siting documentation is provided and retained for monitoring equipment.	An alternative location has been discussed with land managers of Killalea lagoon. Potential location to be approved by EPA and DPIE for approval. BAM has been moved to the new office following AS 3580.1.1:2007. No further action required.	Closed
A11	Surface Water Management Plan 4.4 Reporting and Auditing	Reporting is to include: <ul style="list-style-type: none"> • Rainfall and evaporation conditions for the calendar year. • Progress of quarrying operations. • Any changes to the surface water management system. • Any sediment and erosion ‘events’ experienced (e.g. major storm event, bank failure). • Record of discharge events during the year. • Records of sedimentation basin inspection, sampling, testing and maintenance. • Comparison of records with the previous year and any long term observations/trends. • Identification of events where trigger criteria were exceeded and management/remedial process. An audit of the stormwater management and monitoring system and any	The annual review included reporting on water management (Section 6.7). : <ul style="list-style-type: none"> • Rainfall and evaporation conditions for the calendar year. • Record of discharge events during the year. • Records of sedimentation basin inspection, sampling, testing and maintenance • Comparison of records with the previous year and any long term observations/trends. • No audit conducted. Recommendation: Review Annual review prior to release to ensure that all required information is included.	Noted. To be included in the 2018 annual review.	2018 AEMR included all information with the exception of Records of sedimentation basin inspection, sampling, testing and maintenance an audit of the stormwater management and monitoring system and any recommendations for continued operation. Remains open

		recommendations for continued operation.			
A12	Groundwater Management Plan 2.3.2 Baseline Monitoring Regime	<p>A 12 month baseline monitoring regime is recommended from wells BT 0703, BH1 and BT 0702 (Attachment B, Figure 3) to determine ambient groundwater quality and quantity conditions. The following parameters shall be monitored monthly:</p> <ul style="list-style-type: none"> – Water level – Electrical conductivity – Temperature <p>Monitoring results are to be collected and downloaded quarterly.</p>	<p>Loggers have been installed at 6 locations, including conductivity at one location. BH01, B1202, B1203, BT703, BH3, BH4. (BH01 – removed due to quarry activity) PP04 – Conductivity only (actually BT 0701). Water level and temperature are continuously monitored at B1202, B1203, BT703, BH3, BH4 Conductivity continuously monitored at PP04. Monitoring by ALS monthly, for EC, temperature and depth at 0702. 0703 and 1202.</p> <p>Monitoring has not been conducted at BT702.</p> <p>Recommendation: Implement monitoring of groundwater at well BT702 in accordance with the GMP.</p>	<p>Install a monitor within BT702. Logger to be installed at BT702 by the end of April 2019 – the monument that houses the borehole has rusted and will need to be repaired for access to the bore.</p>	<p>Water logger installed. Records available.</p> <p>Closed</p>
A13	Groundwater Management Plan 3.4 Reporting and Auditing	<p>Annual groundwater management reporting is to be completed, in accordance with Condition 4, Schedule 5 of the project approval, as part of the site's long term management. Reporting is to include:</p> <ul style="list-style-type: none"> • Rainfall and evaporation conditions for the calendar year. • Progress of quarrying operations (i.e. approximate extraction level and extraction pit). • Summary of annual monitoring results including: <ul style="list-style-type: none"> – Visual inspections. – Groundwater level, electrical conductivity and temperature from monitoring bores. 	<p>Annual Review report completed and provided to DP&E.</p> <p>Section 6.8 includes groundwater monitoring and reporting requirements.</p> <p>Includes:</p> <ul style="list-style-type: none"> – Operations summary; – Summary of groundwater monitoring; – Comparison of records with the previous year and any long term observations/trends; – Identification of any exceedances and discussion on significance of these. 	<p>To be included in the 2018 annual review.</p>	<p>2018 AEMR includes required information. Noted that monitoring program is still collecting baseline data, hence requirement for comparison with baseline data and audit of the groundwater management and monitoring</p>

		<ul style="list-style-type: none"> • Comparison of results with baseline data set and trigger values. • Comparison of records with the previous year and any long term observations/trends. • Identification of any exceedances and discussion on significance of these. • An audit of the groundwater management and monitoring system in light of comparison with baseline and previous monitoring records. <p>Any recommendations for modification of the monitoring regime as required.</p>	<ul style="list-style-type: none"> – Any recommendations for modification of the monitoring regime as required. <p>Does not include:</p> <ul style="list-style-type: none"> – Rainfall and evaporation conditions for the calendar year – Comparison of results with baseline data set and trigger values. – An audit of the groundwater management and monitoring system in light of comparison with baseline and previous monitoring records. <p>Recommendation: Review Annual review prior to release to ensure that all required information is included.</p>		<p>system not triggered.</p> <p>Closed</p>
A-14	Landscape Management Plan 11.3.4 Vegetation Clearing	A pre-clearance survey will be undertaken for all vegetation clearance on site.	<p>Preclearance survey (15/05/18) from Biosis for western boundary works. Not commenced at time of audit.</p> <p>Preclearance survey (1/03/18) from Biosis for western boundary works. Clearance being undertaken at the time of audit.</p> <p>The preclearance survey had recommended a pre-clearance survey by a qualified ecologist prior to works being undertaken for frogs and mammals, and an ecologist be on site while clearing was being undertaken. Neither of these recommendations had been implemented.</p> <p>Recommendation: Implement recommendations as provided in preclearance surveys. Where recommendations are not implemented, maintain records of</p>	<p>Noted.</p> <p>Frog and mammal surveys were conducted when deemed necessary, for example when in close proximity to Killalea lagoon.</p> <p>Ongoing, when recommendations are not implemented – records will be maintained for review and reasoning for rejection of recommendations. This will be included within the Annual Review.</p>	<p>Preclearance survey conducted for clearance works associated with construction of a water drainage channel.</p> <p>Closed</p>

			review and reason for rejection of recommendations.		
A-15	Landscape Management Plan 12.1 Progressive Rehabilitation	<p>The following targets will apply for progressive revegetation.</p> <ul style="list-style-type: none"> Vegetation density of 70% groundcover and shrub species 75% of species consistent with flora species in Appendix B. Native shrub and tree coverage generally consistent with the native vegetation lots displayed in Figure 3 and on terminal extraction benches. <p>Weed coverage of less than 5% of foliage cover.</p>	<p>Tubestock purchased was not consistent with the requirements of the LMP (i.e. 75% of species from the list in Appendix B.</p> <p>Tubestock purchased from local supplier – Jambaroo.</p> <p>Recommendation: Ensure tubestock provided to site is consistent with the requirements of the LMP.</p>	<p>The reiteration of the importance of following the tubestock listing in Appendix B of the LMP has been communicated to quarry management.</p>	<p>Compliance Officer engaged who manages the purchase of tubestock.</p> <p>Closed</p>
A-16	Noise and Blast Management Plan 4.2 Operator Attended Noise Surveys	<p>Operator attended noise measurements and recordings will be conducted quarterly (and in the event of a complaint) to quantify the intrusive noise emissions from quarrying and processing operations as well as the overall level of ambient noise.</p> <p>The operator will quantify and characterise the maximum (L_{Amax}) and the average ($L_{Aeq(15minute)}$) intrusive noise level from quarrying and processing operations over a 15 minute measurement period.</p> <p>In addition, the operator shall quantify and characterise the overall levels of ambient noise (ie L_{Amax}, L_{A1}, L_{A10}, L_{A50}, L_{A90}, L_{A99}, L_{Amin}) over the 15 minute measurement interval.</p>	<p>Noise monitoring results had been conducted monthly by an external consultant in January and February 2018.</p> <p>Recommendation: Ensure noise monitoring and reporting includes all required noise monitoring variables.</p>	<p>Harwood Acoustics have been notified of the requirements to include L_{Amax}, L_{A10}, L_{A50}, L_{A90}, L_{A99}, L_{Amin} within future noise monitoring reports (November 2018).</p>	<p>Review of Noise monitoring reports for 2020 found that all required monitoring data was not included in Noise Reports.</p> <p>Remains Open See Non-compliance N-03.</p>
A-17	Killalea Lagoon Management Plan 3.1.2 Surface Water Monitoring Regime	<p>A visual inspection of lagoon conditions including water quality conditions (e.g. clarity, presence of algae, olfactory observations), vegetation conditions (e.g. weed occurrence, health and extent observations) and bank conditions shall also be completed.</p>	<p>Chain of Custody form does not include reporting on visual assessment of water quality conditions.</p> <p>Sampling register not maintained.</p> <p>Photographs of the lagoon condition were not taken at time of monitoring.</p>	<p>ALS has been notified of the requirements to maintain records of visual inspection of lagoon conditions, including photographs (November 2018).</p>	<p>Record of visual inspection included in Certificates of Analysis.</p> <p>Photographs of lagoon conditions taken.</p>

		Records of lagoon condition are to include photographs	Recommendation: Maintain records of visual inspection of lagoon conditions, including photographs.		Closed
A-18	Killalea Lagoon Management Plan 3.1.2 Groundwater Monitoring Regime	A standpipe shall be installed within the lagoon (Figure 1, Attachment C) to securely house a pressure transducer and water quality probe to measure the water level and basic water chemistry in the lagoon.	Monthly results from ALS available. While a logger had been installed, the standpipe for housing the logger was not in water, hence there was no data to collect. Recommendation: Install standpipe and logger in water to enable water level and temperature to be monitored and recorded.	Discuss with land managers of Killalea lagoon the installation of a new standpipe. Install logger as soon as practically possible. Logger has been installed.	Standpipe monitoring records available. Closed
A-19	Killalea Lagoon Management Plan 4.4 Reporting and Auditing	In accordance with Condition 4, Schedule 5 of the Project Approval annual review and reporting is to be completed as part of the long term management solution. Reporting is to include: <ul style="list-style-type: none"> • Rainfall and evaporation conditions for the calendar year. • Progress of extraction operations (i.e. approximate extraction level and extraction pit). • Summary of annual monitoring results including: <ul style="list-style-type: none"> – Visual inspections. – Daily water level and lagoon chemistry. – Quarterly water quality results. – Daily groundwater level and water quality. • Comparison of results with ambient lagoon conditions (i.e. trigger values). • Comparison of records with the previous year and any long term observations/trends. 	Annual review includes monitoring data from ALS sampling. Does not include: <ul style="list-style-type: none"> • Rainfall and evaporation conditions for the calendar year. • An audit of the lagoon management and monitoring system in light of comparison with baseline and previous monitoring records. Recommendation: Review Annual review prior to release to ensure that all required information is included.	Make sure the annual review has all the required information included. To be included within the 2018 Annual Review.	AEMR includes rainfall and evaporation conditions. Noted that monitoring program is still collecting baseline data, hence requirement for comparison with baseline data not triggered. Closed

		<ul style="list-style-type: none"> • Identification of results outside baseline ranges and discussion of significance of these. • Summary of any remedial actions taken. • An audit of the lagoon management and monitoring system in light of comparison with baseline and previous monitoring records. <p>Any recommendations for modification of the monitoring regime as required.</p>			
A20	Transport Management Plan 1.5 Monitoring of Transport Products	<p>In compliance with the conditions of consent Hanson Construction Materials Pty Ltd shall:</p> <p>(a) keep accurate records of:</p> <ul style="list-style-type: none"> – the amount of quarry products transported from the site (monthly and annually); – the regional destination of quarry products transported from the site; and – all laden truck movements (i.e. dispatch of trucks carrying quarry products or concrete) from the site (hourly, daily, weekly, monthly and annually); and <p>(b) publish these records on its website on a quarterly basis.</p>	<p>Regional destination included in summary for 2016 but not included in 2017 or 2018 data provided on website.</p> <p>Recommendation: Ensure the regional destination of quarry products is uploaded with transport records onto the company website.</p>	<p>Update 2017 and 2018 transport data to include regional destination data for the year. To be included within the 2018 Annual Review.</p>	<p>Regional destination included in Product Transport Monitoring Report prepared on a quarterly basis.</p> <p>Closed</p>
A21	Transport Management Plan 3.2 Compliance Measures	<p>The incident register is to include (where possible):</p> <ol style="list-style-type: none"> Date; Location(s); The driver / heavy vehicle details; Contact details of the person lodging the complaint; What / when actions were taken to resolve the issue; and The reply to the person / organisation that made the complaint. 	<p>Complaints register includes Data, Time, Mode of complaint, Nature of Complaint, Complaint Comments and Action Taken.</p> <p>Does not include driver, heavy vehicle details, and contact details of the person lodging the complaint.</p> <p>Recommendation: Update the incident register to include all information as required by the TMP Section 3.2.</p>	<p>Create a transport incident register to address specifics in direct relation to transport incidents.</p>	<p>Complaints register updated to include complainant details. Transport complaints recorded as events in SAP. Event 700330207 reviewed. Included Details of vehicle.</p>

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O-01	Environmental Management Strategy 4.1 Monitoring Programs Landscape Management Plan	Pre clearance survey for heritage artefacts	Preclearance survey by ecologist only. No record of preclearance survey for aboriginal artefacts. Reported that the requirement for a preclearance survey for aboriginal artefacts was inadvertently included (carry over from another project). Recommendation: Update the EMS to reflect site requirements for preclearance surveys.	Update the EMS to reflect site requirements for preclearance surveys. EMS has been updated with the draft to be submitted to DPIE within three months of the 2018 annual review submission.	EMS updated to require survey on discovery of Aboriginal objects, skeletal remains, and historic objects. Closed
O-02	Groundwater Management Plan 2.3.5 Groundwater Performance Criteria and Trigger Values	Should variation in water quality in GWMW3 vary from the baseline dataset by 10% or more, further investigation of the change and assessment of potential for impacts on the Bass Point Reserve should be completed.	Loggers have been installed at 6 locations, including conductivity at one location. Quarry operations have not progressed below 0m AHD, hence no impacts on groundwater levels due to quarrying operations. Unable to identify the location of GWMW3. Recommendation: Clarify the location of GWMW3 with the consultant who prepared the Groundwater Management Plan to ensure appropriate monitoring is conducted at this location.	Contact Martens to clarify the location of GWMW3. Martens have been contacted regarding location of GWMW3.	GWMW3 confirmed as not present on site. Closed
O-03	Noise and Blast Management plans 7.4 Blast Design Records and Predicted Emission Levels	Blast emissions data from every blast will be used (via Blast Emissions Site Laws) to refine subsequent blast designs in order to control blast emission levels, particularly for later blasting when operating closer to residences.	Reported that the Blast Emissions Site Laws were not updated following each blast as the site has a long history of blasting and was well aware of blast design requirements for the site. All blast emission data was reviewed, although a link between the review and refinement of site laws could not be established. Recommendation: Update the Noise and Blast Management Plan to reflect the current status of blast management.	Update the NBMP to reflect the current status of blast management. Draft to be sent to DPE within three months of the 2018 annual review submission.	Draft (Rev 11 8 April 2020) provided to DPIE. Requirement to update the BMP following each blast removed. Closed

O-04	Environmental Management Strategy – Landscape Management Plan	Pre-clearance survey for heritage artefacts.	Pre-clearance survey by ecologist only. Reported that the requirement for a Pre clearance survey for heritage artefacts was not applicable to the site. Recommendation: Update the Environmental Management Strategy to remove reference to Pre-clearance survey for heritage artefacts.	Update the EMS to reflect site requirements for preclearance surveys. EMS Draft to be sent to DPE within three months of the 2018 annual review submission.	EMS updated to reflect a pre-clearance survey was required upon discovery of Aboriginal objects, skeletal remains, and historic objects. Closed
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Appendix B. – Auditor Approval



Ms Belinda Pignone
Graduate Environmental Planning Coordinator
Hanson Construction Materials Pty Ltd
Level 18
2-12 Macquarie Street
Parramatta NSW 2150

17/08/2020

Dear Ms Pignone

**Bass Point Quarry (MP 08_0143)
Independent Environmental Audit 2020**

I refer to your letter of 14 August 2020 seeking approval of Mr James Hart of AQUAS as the lead auditor for the upcoming Independent Environmental Audit of Bass Point Quarry (the project), in accordance with Schedule 5, Condition 9 of project approval MP 08_0143, as modified (the approval).

Having considered the qualifications and experience of Mr Hart, the Secretary endorses the appointment of Mr Hart to undertake the audit in accordance with Schedule 5, Condition 9 of the approval. This approval is conditional on Mr Hart being independent of the project.

The audit is to be conducted in accordance with AS/NZS ISO 19011 Australian/New Zealand Standard: Guidelines for quality and/or environmental management systems auditing and you may wish to consider the Independent Audit Guideline dated October 2015. A copy of this guideline can be located at <http://planning.nsw.gov.au/Policy-and-Legislation/Mining-and-Resources/Integrated-Mining-Policy>.

The audit report is to include the following:

1. consultation with the relevant agencies;
2. a compliance table indicating the compliance status of each condition of approval and any relevant EPL;
3. not use the term "partial compliance";
4. recommend actions in response to non-compliances;
5. review the adequacy of plans and programs required under this consent; and
6. identify opportunities for improved environmental management and performance.

Within three months of the commissioning of this audit, Hanson is to submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report and a timetable to implement the recommendations. Prior to submitting the audit report to the Secretary, it is recommended that Hanson review the report to ensure it complies with the relevant consent condition.

Should you have any enquiries in relation to this matter, please contact Georgia Dragicevic, Senior Compliance Officer, on (02) 4247 1852 or by email to Georgia.Dragicevic@planning.nsw.gov.au.

Yours sincerely

Appendix C. – Audit Tables

Audit Checklist – Conditions of Approval 08_0143 MOD_2

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Schedule 2– Administrative Controls					
Obligation to Minimise Harm to the Environment					
1.	1	In addition to meeting the specific performance criteria established under this approval, the Proponent must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the project.		Compliant	
Terms of Approval					
2.	2	The Proponent must carry out the project: (a) generally in accordance with the EA, EA (MOD 1), EA (MOD 2) and the project layout; and (b) in accordance with the statement of commitments and the conditions of this approval. <i>Notes:</i> • The project layout is shown in Appendix 1. • The statement of commitments is reproduced in Appendix 3.		Not compliant	NC-01
3.	3	If there is any inconsistency between the documents in condition 2(a), the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.	No inconsistencies had been identified.	Not Triggered	
4.	4	The Proponent must comply with any reasonable requirement/s of the Secretary arising from the Department’s assessment of: (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this approval; and (b) the implementation of any actions or measures contained in these documents.	The audit results show that the applicant had generally complied with all the requirements of the Secretary.	Compliant	
Limits on Approval					
Quarrying Operations					
5.	5	The Proponent may carry out quarrying operations on the site until 31 January 2044. <i>Note: Under this approval, the Proponent is required to rehabilitate the site and carry out additional undertakings to the satisfaction of the Secretary. Consequently, this approval will continue to apply in all other respects other than the right to conduct quarrying operations until the rehabilitation of the site and those undertakings have been carried out to a satisfactory standard.</i>	Current year 2020	Compliant	
Staged Extraction					
6.	6	The Proponent must not carry out quarrying operations: (a) below 0 m AHD without prior written approval from the Secretary under	Currently lowest level at 1-3m AHD in east and west pits.	Compliant	

AUDIT CHECKLIST Conditions of Approval 08_0143 MOD_2

Project: AQ1291

Company: Hanson Construction Materials

Date: 9/08/2020



AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #												
		condition 23 of Schedule 3: and (b) below - 40 m AHD at any stage of the project.															
Extractive Material Transport																	
7.	7	7. The Proponent must not permit to be transported from the site: (a) more than 4 million tonnes of quarry products in any calendar year; or (b) more than 3 million tonnes of quarry products by road in any calendar year.	Production data: 2018 – 2,214,938 tonnes 2019 – 2,363,000 tonnes 2020 - Current data 1,025,587 (production))	Compliant													
Transport of Products																	
8.	8	The Proponent must limit the dispatch of trucks carrying quarry products or concrete from the site to the levels shown in Table 1. <ul style="list-style-type: none"> <i>Table 1: Laden Truck Dispatch Hours</i> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Period</th> <th>Maximum laden truck despatch</th> </tr> </thead> <tbody> <tr> <td>7 am – 10 pm</td> <td>40 in any hour</td> </tr> <tr> <td>10 pm – 7 am</td> <td>23 in any hour</td> </tr> <tr> <td>5 am – 6 am (Monday to Friday only and excluding Public Holidays)</td> <td>27</td> </tr> <tr> <td>6 am – 7am (Monday to Friday only and excluding Public Holidays)</td> <td>38</td> </tr> <tr> <td>24-hour period on any day</td> <td>500</td> </tr> </tbody> </table>	Period	Maximum laden truck despatch	7 am – 10 pm	40 in any hour	10 pm – 7 am	23 in any hour	5 am – 6 am (Monday to Friday only and excluding Public Holidays)	27	6 am – 7am (Monday to Friday only and excluding Public Holidays)	38	24-hour period on any day	500	Transport data from the 2018 annual review show: No exceedances during the period covered by this audit (1 In April 2018, which was included in the previous audit report). Transport data from the 2019 annual review show: 3 exceedances in 2019 9/02/2019 – 28 trucks despatched between 5.00am and 6.00am (23 permitted). 22/03/2019 - 28 trucks despatched between 5.00am and 6.00am (27 permitted). 2/05/2019 - 28 trucks despatched between 5.00am and 6.00am (27 permitted). Exceedance recorded on 22/03/2019 was reported to be due to an internal delivery being recorded. Exceedance on 2/05/2019 was reported to be due to a split load (same truck ticketed twice). Transport data for 2020 to date show: No exceedances for Q1 and Q2 2020.	Not Compliant	NC-02
Period	Maximum laden truck despatch																
7 am – 10 pm	40 in any hour																
10 pm – 7 am	23 in any hour																
5 am – 6 am (Monday to Friday only and excluding Public Holidays)	27																
6 am – 7am (Monday to Friday only and excluding Public Holidays)	38																
24-hour period on any day	500																
SURRENDER OF CONSENTS																	
9.	9	By the end of June 2014, or as otherwise agreed by the Secretary, the Proponent must surrender all development consents for existing operations on the site in accordance with Section 104A of the EP&A Act.	Previous development consent surrendered 6 July 2016.	Compliant													
Structural Adequacy																	
10.	10	The Applicant must ensure that any 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. <i>Notes:</i> <ul style="list-style-type: none"> <i>Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for any building works.</i> <i>Part 8 of the EP&A Regulation sets out the detailed requirements for the certification of development.</i> 	New Office, crushing plant and facilities constructed. Final compliance certificates not provided at this stage. Private certifier engaged to provide occupancy certificates for buildings. Original private certifier was deregistered and a new certifier has been engaged to provide occupancy certificates. . The site was in the process of obtaining the final occupancy certificates after addressing issues identified by the new certifier, e.g. no construction certificate provide for lab and amenities.	Compliant													

AUDIT CHECKLIST Conditions of Approval 08_0143 MOD_2

Project: AQ1291

Company: Hanson Construction Materials

Date: 9/08/2020



AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
			Final occupancy certificates have been obtained for some of the buildings (office). Final occupancy certificates are still being prepared for the weighbridge, new workshop and buildings in the new processing plant. Laboratory and amenities requires a building information certificate. PC re-engaged and in the process of obtaining relevant certification for buildings.		
Demolition					
11.	11	The Proponent must ensure that all demolition work is carried out in accordance with AS 2601-2001: The Demolition of Structures, or its latest version.	No demolition work at this stage of the works	Not Triggered	
Protection of Public Infrastructure					
12.	12	The Applicant must: a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and b) relocate, or pay the full costs associated with relocating any public infrastructure that needs to be relocated as a result of the development.	Reported that no public infrastructure has been damaged or relocated as a result of the works.	Not Triggered	
Road Maintenance					
13.	13	During the life of the project, for each calendar year, the Proponent must pay Council a monetary contribution for each tonne of quarry product transported from the site on roads for which Council is liable for road maintenance funding. Each payment must be: (a) based on the approved rate as calculated under condition 14 below; (b) based on weighbridge records of the quantity of quarry products transported from the site; (c) paid by the date required by the invoice issued by Council; and (d) increased over the life of the project in accordance with the CPI.	Agreement reached with Shellharbour City Council Sighted – Letter of Approval for DP&E in July 2016 for the contribution rate.	Compliant	
14.	14	By 31 May 2014, the Proponent must submit in writing to Council a proposed road maintenance contributions rate for the project, based on the: (a) sections of Buckleys Road and Dunmore Road and associated intersections to be used by trucks transporting quarry products from the site; (b) proportion of project-related trucks in the total trucks using these roads and intersections; (c) projected maintenance requirements for these roads and intersections for the life of the project; and (d) value of other works-in-kind proposed to be undertaken by the Proponent, such as the donation of road base material to be used in maintenance of these roads and intersections. Within 28 days of receiving Council’s submission on the proposed contributions rate, the Proponent must submit to the Secretary for	Verified previous audit. Contribution rate agreed with Council and approved by DPI&E (8/07/16).	Compliant	

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		consideration its proposed contributions rate, which includes justification for the proposed rate taking into consideration Council's submission. Following receipt of the Proponent's proposed contributions rate, the Secretary must, in consultation with the Proponent and Council, determine the contributions rate to be applied for the project.			
Operation of Plant And Equipment					
15.	15	The Proponent must ensure that all the plant and equipment used at the site is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Maintenance agreements with OEM Full time diesel mechanic and electrician on site. Maintenance planned through SAP. Maintenance crew on site, including maintenance supervisor, fitters and diesel mechanic. Records maintained in SAP. Plant daily prestart inspections completed. Scanned and retained electronically. Sighted for Cat 980H FEL.	Compliant	
Compliance					
16.	16	The Proponent must ensure that all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.	Site induction process implemented with records of inductions available. Site induction includes environmental management and controls <ul style="list-style-type: none"> Show Site License/EMP (Environmental Management Plan) / PIRMP (Pollution Incident Response Management Plan) and explain meaning, any special conditions; dust, noise, spillage, sensitive areas including resident locations, site boundaries and monitoring locations Requirement to immediately report any spill or breach Aspect and Impact register Asbestos Register How individuals can contribute to reducing environmental impact 	Compliant	
Production Data					
17.	17	The Proponent must: (a) provide annual quarry production data to DRG using the standard form for that purpose; and (b) include a copy of this data in the Annual Review (see condition 4 of Schedule 5).	Return for Extractive Materials – Sighted for year ending 30 June 2019. 2018 – 1,621,199T 2019 – 2,250,103T 2020 – 1,436,379T (Up to 31/08/2020)	Compliant	
Applicability of Guidelines					
18.	18	References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.		Compliant	

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19.	19	However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.		Not Triggered	

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Schedule 3– SPECIFIC ENVIRONMENTAL CONDITIONS					
GENERAL EXTRACTION AND PROCESSING PROVISIONS					
Identification of Boundaries					
20.	1	Prior to carrying out quarrying operations under this approval, the Proponent must: (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the Extraction Areas; and (b) submit a survey plan of these boundaries to the Secretary.	Verified previous audit Survey Plan, KFW Registered Surveyors, 18 Aug 2014	Compliant	
21.	2	While ever quarrying operations are being carried out, the Proponent must ensure that these boundaries are clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify the limits of extraction within the Extraction Areas.	Survey Plan, C N Johnson Registered Surveyor, 18 Aug 2014 Email to DP&E re Survey Plan, 14 Aug 2015	Compliant	
Noise					
Impact Assessment Criteria					
22.	3	The Proponent must ensure that the noise generated by the project (not including transport of quarry products or concrete along the Bass Point Quarry Haul Road) does not exceed the criteria in Table 2 at any residence on privately-owned land. <i>Notes:</i> <ul style="list-style-type: none"> Receiver locations are shown in Figure 2 in Appendix 2. After the first review on any EPL granted for this development under Section 78 of the POEO Act, nothing in this approval prevents the EPA from imposing stricter noise limits on the quarrying operations on site under the EPL. Noise generated by the project is to be measured in accordance with the relevant requirements of the <i>NSW Industrial Noise Policy</i> . Appendix 6 sets out the meteorological conditions under which these criteria apply, and the requirements for evaluating compliance with these criteria. However, these criteria do not apply if the Proponent has a written agreement with the relevant landowner to exceed the criteria, and the Proponent has advised the Department in writing of the terms of this agreement.	Noise monitoring undertaken on a quarterly basis by external consultant. Noise monitoring results show the site is complying with noise criteria. No exceedances of noise criteria have been recorded.	Compliant	

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Construction Hours					
23.	4	The Proponent must only carry out construction activities on site between 7 am and 6 pm Monday to Friday and 8 am and 1 pm Saturday. No construction activities are allowed on Sundays or public holidays, or at any other time without the written approval of the Secretary.	Construction activities completed. Previous construction at the Bass Point Quarry occurred on site between 7 am and 6 pm Monday to Friday and 8 am and 1 pm Saturday.	Compliant	
Operating Conditions					
24.	5	The Proponent must: (a) implement best management practice to minimise the construction, operational and transport noise of the project; (b) minimise the noise impacts of the project during meteorological conditions when the noise limits in this approval do not apply; (c) maintain the effectiveness of any noise suppression equipment on plant at all times and ensure defective plant is not used operationally until fully repaired; and (d) regularly assess noise monitoring data and relocate, modify, and/or stop operations on site to ensure compliance with the relevant conditions of this approval, to the satisfaction of the Secretary.	Noise management practices identified in Section 3.2 of the NBMP. Noise monitoring has been conducted. No exceedance of site noise criteria had been identified.	Compliant	
Noise Management Plan					
25.	6	The Proponent must prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with the EPA, and submitted to the Secretary for approval by 31 May 2014; (b) describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> – best management practice is being employed to minimise the construction, operational and transport noise of the project; – the noise impacts of the project are minimised during any meteorological conditions when the noise limits in this approval do not apply; and – compliance with the relevant conditions of this approval; (c) describe the proposed noise management system in detail; and (d) include a monitoring program that: <ul style="list-style-type: none"> – is capable of regularly evaluating the performance of the project, including noisy individual items of plant, such as haulage trucks, crushers and bulldozers; – includes a protocol for determining any exceedances of the relevant conditions in this approval at locations listed in Table 2; and – evaluates and reports on the effectiveness of the noise management system on site. The Proponent must implement the approved management plan as approved from time to time by the Secretary.	Development and submission of the Noise Management Plan was verified during the previous audit. Letter from DP&E 23/11/17 showing approval of the current Noise and Blast Management Plan (Rev 09, 20/11/17). DPIE notified of intention to update Noise and Blast Management Plan 30/06/2020. Updated Noise Management Plan provided to DPIE. Awaiting approval. It was noted in the previous report that the Noise Management Plan required the operator shall quantify and characterise the overall levels of ambient noise (i.e. L_{Amax}, L_{A1}, L_{A10}, L_{A50}, L_{A90}, L_{A99}, L_{Amin}) over the 15 minute measurement interval. While the consultant had been requested to include the required information, noise reports do not show that the noise monitoring variables had been quantified and characterised.	Not Compliant	NC-03

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Blasting													
Blasting Criteria													
26.	7	<p>The Proponent must ensure that blasting on the site does not cause exceedances of the criteria in Table 3.</p> <p><i>Table 3: Blasting criteria</i></p> <table border="1"> <thead> <tr> <th>Location</th> <th>Airblast overpressure (dB(Lin Peak)) (mm/s)</th> <th>Ground vibration</th> <th>Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td>Any residence on privately owned land</td> <td>120 115</td> <td>10 5</td> <td>0% 5% of the total number of blasts over a period of 12 months</td> </tr> </tbody> </table> <p>However, these criteria do not apply if the Proponent has a written agreement with the relevant residential owner or infrastructure provider/owner, and the Proponent has advised the Department in writing of the terms of this agreement.</p>	Location	Airblast overpressure (dB(Lin Peak)) (mm/s)	Ground vibration	Allowable exceedance	Any residence on privately owned land	120 115	10 5	0% 5% of the total number of blasts over a period of 12 months	<p>July 2018 to December 2018 8 blast where the measured maximum airblast overpressure exceeded 115dB(Lin Peak). Review of monitoring records by Quarry staff identified that all readings above 115dB were attributed to peaks caused by strong winds and not blast events.</p> <p>2019 No blast over 120 dBL 1 blast over 115 dBL (1.64% >115dB). Noted that 7 blasts where the air blast overpressure was reported as between 88dB and 115dB, where the maximum blast overpressure was attributed to strong winds.</p> <p>2020 1 blast to date exceeding 115dBL - 21/02/2020 – 117.4dBL.</p> <p>No exceedance of ground vibration recorded.</p>	Compliant	
Location	Airblast overpressure (dB(Lin Peak)) (mm/s)	Ground vibration	Allowable exceedance										
Any residence on privately owned land	120 115	10 5	0% 5% of the total number of blasts over a period of 12 months										
Blasting Hours													
27.	8	<p>The Proponent must carry out blasting on site only between 8 am and 5 pm, Monday to Friday. No blasting is allowed on weekends or public holidays, or at any other time without the written approval of the Secretary.</p>	<p>Blasting in 2018 conducted between 12.51 am and 4.14pm. Blasting in 2019 conducted between 10.01am and 3.07pm. Blasting in 2020 conducted between 10.00am and 11.13am. All blasting has been undertaken on weekdays.</p>	Compliant									
Blasting Frequency													
28.	9	<p>The Proponent must not carry out more than 1 blast a day on site, unless an additional blast is required following a blast misfire.</p> <p><i>Note: A blast may involve a number of explosions within a short period, typically less than two minutes.</i></p>	<p>Records show maximum of one blast per day had occurred.</p>	Compliant									
Property Inspections													
29.	10	<p>If the Proponent receives a written request from the owner of any privately-owned land within 500 m of proposed blasting for a property inspection to establish the baseline condition of any buildings and/or structures on his/her land, then within 2 months of receiving this request the Proponent must:</p> <p>(a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:</p> <ul style="list-style-type: none"> establish the baseline condition of any buildings and/or structures on the land, or update the previous property inspection report; and 	<p>No request received for a baseline inspection to be conducted</p>	Not Triggered									

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		<ul style="list-style-type: none"> · identify any measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures; and (b) give the landowner a copy of the new or updated property inspection report. 			
Property Investigations					
30.	11	<p>If the owner of any privately-owned land claims that the buildings and/or structures on his/her land have been damaged as a result of blasting on site, then within 2 months of receiving this claim in writing from the landowner the Proponent must:</p> <ul style="list-style-type: none"> (a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties, to investigate the claim; (b) give the landowner a copy of the property investigation report. <p>If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent must repair the damage to the satisfaction of the Secretary.</p> <p>If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Secretary for resolution.</p>	<p>No requests in 2019. Three completed in 2020, February, May and July 2020. e.g. 28/07/2020 – Property inspection conducted with owner. Email sighted from inspector stating damage was the result of faulty construction. 27/03/2020 – Complaint following blast event. Offer of inspection provided to owner which was declined.</p> <p>Complaint received 16/04/2020 re cracking appearing after 2 blasting events. Information and an offer of property inspection provide to owner. Property inspection completed – observed that damage was attributable to poor building practices and the material on which the property is built, rather than blasting activities at the Bass Point Quarry. Complaint received 29/06/2020 (19.03 hrs). Information and an offer of property inspection provide to owner. Property inspection completed – observed that damage was attributable to poor building practices and the material on which the property is built, rather than blasting activities at the Bass Point Quarry.</p>	Compliant	
Operating Conditions					
31.	12	<p>During blasting operations, the Proponent must:</p> <ul style="list-style-type: none"> (a) implement best management practice to: <ul style="list-style-type: none"> · protect the safety of people in the surrounding area; · protect public or private infrastructure/property in the surrounding area from any damage; and · minimise the dust and fume emissions of any blasting; and (b) operate a suitable system to enable the public to get up-to-date information on the proposed blasting Schedule on site, to the satisfaction of the Secretary. 	<p>Blast management plan identifies management practices to minimise impacts of blasts. Blast plan provided including risk assessment completed for each blast (Sighted Blast Plan 656 West Pit August 2020). Reviewed records for blast conducted 4/09/2020. Blast monitoring conducted and records maintained. Used to inform for future blasts. Blasting conducted by Maxim – provide full technical services. Website include blasting schedule. Explosives Control Plan developed for blasting operations- identifies controls for transport and handling of explosives.</p>	Compliant	



AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #															
Blast Management Plan																				
32.	13	<p>The Proponent must prepare and implement a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with the EPA, and be submitted to the Secretary for approval by 31 May 2014;</p> <p>(b) describe the measures that would be implemented to ensure:</p> <ul style="list-style-type: none"> · best management practice is being employed; and · compliance with the relevant conditions of this approval; <p>(c) include a specific blast fume management protocol to demonstrate how emissions will be minimised, including risk management strategies if blast fumes are generated; and</p> <p>(d) include a monitoring program for evaluating the performance of the project including:</p> <ul style="list-style-type: none"> · compliance with the applicable criteria; and · minimising fume emissions from the site. <p>The Proponent must implement the approved management plan as approved from time to time by the Secretary.</p>	<p>Verified previous audit. Letter from DP&E 23/11/17 showing approval of the current Noise and Blast Management Plan Rev 9, 25/10/17). DPIE notified of intention to update Noise and Blast Management Plan 30/06/2020.</p> <p>Monitoring program implemented. Records provided on project website. Noted that no monitoring records were available for the blast event which occurred on 14/02/2020. Reported as a non-compliance to DPIE and EPA 14/02/2020.</p>	Not Compliant	NC-04															
AIR QUALITY																				
Air Quality Criteria																				
33.	14	<p>The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria in Tables 4 to 6 at any residence on privately-owned land.</p> <p>Table 4: Air Quality Criteria</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td>Total suspended particulates (TSP)</td> <td>Annual</td> <td>90 µg/m³</td> </tr> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>24 hour</td> <td>30 µg/m³</td> </tr> </tbody> </table> <p>Table 5: Short Term Impact Assessment Criteria for Particulate Matter</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>24 hour</td> <td>50 µg/m³</td> </tr> </tbody> </table> <p>Table 6: Long-Term Impact Assessment Criteria for Deposited Dust</p>	Pollutant	Averaging Period	Criterion	Total suspended particulates (TSP)	Annual	90 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	24 hour	30 µg/m ³	Pollutant	Averaging Period	Criterion	Particulate matter < 10 µm (PM ₁₀)	24 hour	50 µg/m ³	<p>Controls to mitigate particulate matter emissions have been identified in Section 8 of the AQMP. Controls implemented include:</p> <ul style="list-style-type: none"> • Dust extraction provided on new crushing and processing plant; • 50,000l Water cart for internal roads; • Fine mist sprays on plant; • Regular maintenance of plant; • Wetting down of rock before crushing. • Aggregate conditioned with water on loading to stockpile • Stockpiles wet down by water cart • Spray bars at weighbridge. • Finished product wet down prior to loading. • Street sweeper used 1/week for asphalt roads. <p>Updated AQMP (Draft Rev 06, 30/06/19). submitted to DPIE 9/08/2019. Deposited dust at DDG2 has consistently exceeded the Maximum total deposited dust level of 4g/m²/mth. Investigations by the Quarry have determined that deposited dust levels at DDG2 were impacted by the earthworks being conducted for the adjacent marina development.</p>	Not Compliant	NC-05
Pollutant	Averaging Period	Criterion																		
Total suspended particulates (TSP)	Annual	90 µg/m ³																		
Particulate matter < 10 µm (PM ₁₀)	24 hour	30 µg/m ³																		
Pollutant	Averaging Period	Criterion																		
Particulate matter < 10 µm (PM ₁₀)	24 hour	50 µg/m ³																		

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		Pollutant	Averaging Period	Maximum increase in deposited dust level	Maximum total deposited dust level			
		c Deposited dust	Annual	2 g/m2/month	4 g/m2/month	<p>While particulate matter (PM₁₀) exceedances had been recorded for monitoring at location PM10-2, site investigations attributed the exceedances to off-site impacts and the close proximity of the monitoring location to the site.</p> <p>The sampler was relocated to PM10-2i in February to undertake a detailed investigation in accordance with Section 7.4 of the AQMP.</p> <p>It is noted that location PM10-2i was more representative of the particulate matter levels at the nearest affected residences. No exceedance of the PM10 criteria has been recorded since relocation of the monitor from location PM10-2 PM10-2i.</p>		
Operating Conditions								
34.	15	<p>The Proponent must:</p> <ul style="list-style-type: none"> (a) implement best management practice to minimise the dust and fume emissions of the project; (b) regularly assess meteorological and air quality monitoring data and relocate, modify, and/or stop operations on site as may be required to ensure compliance with the relevant conditions of this approval; (c) minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see Note d to Tables 4-6 above); (d) minimise any visible off-site air pollution; and (e) minimise surface disturbance of the site, other than as permitted under this approval, to the satisfaction of the Secretary. 				<p>Controls implemented include:</p> <ul style="list-style-type: none"> Water cart being used for dust suppression on internal roads. Regular maintenance of plant Plant – Fine mist sprays and dust suppressing foam used. Blasted rock is wet down with water cannon prior to crushing. No visible dust being generated during audit. Roads sealed. Updated AQMP (Draft Rev 06, 30/06/19) submitted to DPIE 9/08/2019. It was reported by Quarry management that shaker grids and wheel wash facilities were considered unnecessary due to the length of the private haul road to the quarry and no issues with tracking of material onto the haul road have been identified. 	Compliant	
Air Quality Management Plan								
35.	16	<p>The Proponent must prepare and implement an Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> (a) be prepared in consultation with the EPA, and submitted to the Secretary for approval by 31 May 2014; (b) describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> · best management practice is employed; · the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events; and · compliance with the relevant conditions of this approval; 				<p>An Air Quality Management Plan was prepared for the Bass Point Quarry project by SLR Consulting was submitted to the Secretary of DP&E for approval on 30 May 2014 - Verified previous audit.</p> <p>Current version V3.0 14 December 2017.</p> <p>Updated AQMP submitted to DPIE 9/08/2019 following submission of the AEMR.</p> <p>Sighted Email sent to DPIE 30/06/2020 informing of review of management plans including the AQMP.</p>	Not Compliant	NC-06

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		(c) describe the proposed air quality management system based on the preparation of a site specific best management practice determination and reactive dust management strategy; and (d) include an air quality monitoring program that: <ul style="list-style-type: none"> · is capable of evaluating the performance of the project; · includes a protocol for determining any exceedances of the relevant conditions of approval; · adequately supports the air quality management system; and · evaluates and reports on the adequacy of the air quality management system. The Proponent must implement the approved management plan as approved from time to time by the Secretary.	Monitoring had not been conducted in accordance with the AQMP. LVAS sampling PM10 monitoring data was not available for the periods 5 February 2019 to 9 August 2019, 23 November 2019 to 18 December 2019, and 16 February 2020 to 18 April 2020 due to equipment malfunction.		
METEOROLOGICAL MONITORING					
36.	17	For the life of the project, the Proponent must ensure that there is a suitable meteorological station operating in the vicinity of the site that: <ul style="list-style-type: none"> (a) complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and (b) is capable of continuous real-time measurement of temperature lapse rate, in accordance with the NSW Industrial Noise Policy, or as otherwise approved by EPA. 	Meteorological data obtained from the BOM station at Kiama (Bombo Headland)	Compliant	
SOIL AND WATER					
Water Supply					
37.	18	The Proponent must ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of quarrying operations on site to match its available supply. <i>Note: The Proponent is required to obtain the necessary water licences for the project under the Water Act 1912 and/or the Water Management Act 2000.</i>	Potable water from town supply. Brackish water collected in catchment dams used for dust suppression. Water tanks provided at new amenities for rainwater harvesting, although not commissioned at this stage. Water licence required when quarrying operations go below 0 AHD. Not required at this stage of the works.	Compliant	
Water Pollution					
38.	19	Unless an EPL or the EPA authorises otherwise, the Proponent must ensure that all surface water discharges from the site comply with section 120 of the POEO Act.	A breach in the capacity of two sediment basins due to exceptional rainfall from Friday 7th to Sunday 9th February 2020 resulted in discharge from DP2 and DP3 which did not comply with the discharge limits in the EPL (high Total Suspended Solids).	Not Compliant	NC-07
Operating Conditions					
39.	20	The Proponent must: <ul style="list-style-type: none"> (a) not undertake or permit any drilling or underboring to create a hydraulic connection between any quarry extraction void and the ocean; and (b) maximise reuse of water captured on the site and minimise the use of town water for the project. 	No drilling or underboring to create a hydraulic connection between any quarry extraction void and the ocean had occurred.	Compliant	

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On-Site Sewage Management					
40.	21	The Proponent must manage on-site sewage to the satisfaction of Council and the EPA.	On-site sewage collected in sewerage tanks and pumped out for disposal for old amenities. New buildings have onsite irrigation systems for treatment and disposal of treated water. Approval to install provided by Shellharbour Council 12/06/2018. Council Inspection conducted for approval to operate.	Compliant	
Storage of Chemicals & Petroleum Products					
41.	22	The Proponent must ensure that all chemicals and/or petroleum products on site are held in appropriately bunded areas with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund, and in accordance with Australian Standard AS1940-2004, <i>The Storage and Handling of Flammable and Combustible Liquids</i> . The flooring and bund(s) must be designed in accordance with: <ul style="list-style-type: none"> the requirements of relevant Australian Standards; and DECC's <i>Storing and Handling Liquids: Environmental Protection – Participants Manual</i>. 	Bunding provided for chemicals and petroleum products. Flammable liquids cabinets provided for storage of flammable goods.	Compliant	
Approval to Conduct Quarrying Operations Below 0 m AHD					
42.	23	The Proponent may only undertake quarrying operations below 0 m AHD in the Extraction Areas with the prior written approval of the Secretary, subject to the following: <p>(a) before undertaking quarrying operations between each of:</p> <ul style="list-style-type: none"> 0 m and -10 m AHD; 10 m and -25 m AHD; and 25 m and -40 m AHD; the Proponent must submit to the Secretary a revised groundwater assessment; <p>(b) each such groundwater assessment must:</p> <ul style="list-style-type: none"> be prepared by suitably qualified and experienced person/s whose appointment has been approved by the Secretary; be prepared in consultation with DPI Water; include a review of the groundwater monitoring results from the previous stage/s against the predictions in the EA, Supplementary Groundwater Assessment and any later groundwater assessment; describe any proposed alternating extraction stages between the Extraction Areas; provide revised modelling of the site and vicinity and predictions of groundwater inflows to the Extraction Areas at the proposed incremental depth of extraction; reconsider net inflows to, and potential impacts on, Killalea Lagoon; propose an appropriate monitoring program, including borehole investigations and up to 3 test pits (of a permitted size of up to 15 m x 20 m and no greater than 10 m in depth) for each of the Extraction Areas; 	Quarrying above 0m AHD. Noted that Martens had been engaged to conduct the groundwater assessment.	Not Triggered	

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		<ul style="list-style-type: none"> demonstrate sufficient water access entitlements or exemptions can be obtained for predicted groundwater inflows; and <p>include a review of the Water Management Plan which proposes any amendments, including groundwater assessment criteria and groundwater monitoring, necessary to manage predicted groundwater inflows.</p>			
Water Management Plan					
43.	24	<p>The Proponent must prepare and implement a Water Management Plan for the project to the satisfaction of the Secretary. This plan must be prepared in consultation with Council, EPA and DPI Water by suitably qualified and experienced person/s whose appointment has been approved by the Secretary, and be submitted to the Secretary for approval by 31 May 2014.</p> <p>(a) Site Water Balance that:</p> <ul style="list-style-type: none"> includes details of: <ul style="list-style-type: none"> sources and security of water supply, including contingency planning; water use on site; water management on site, including groundwater inflows to the quarry voids and site discharges; and audit and reporting procedures, including comparisons of the site water balance each calendar year; and describes the measures that would be implemented to minimise clean water use on site and maximise recycling opportunities; Surface Water Management Plan, that includes: <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 systems; erosion and sediment controls; effluent irrigation system; water transfers from the Extraction Areas; water storages; and discharge points; design objectives and performance criteria for proposed: erosion and sediment control structures; water storages, including quarry voids; site discharges; and control of water pollution from rehabilitated areas of the site; performance criteria, including trigger levels for investigating any potentially adverse impacts for surface water quality in Killalea Lagoon and Bushrangers Bay; a program to monitor: <ul style="list-style-type: none"> the effectiveness of the water management system; site discharge water quality; and surface water level and quality in Killalea Lagoon, including the quantification of rainfall inflow, groundwater inflow and evaporation; 	<p>Verified previous audit.</p> <p>Water management plans (Surface Water Management Plan, Groundwater Management Plans, and Water Balance Assessment) were prepared by Martens Consulting Engineers for the Bass Point Quarry.</p> <p>Surface Water Management Plan, Groundwater Management Plan and Killalea Lagoon Management Plan updated and submitted to DPIE 9/08/2019 (Following submission of the 2018-2019 AEMR).</p> <p>Email to DPIE 30/06/2020 identifying management plans requiring revision did not identify that a review of the Water Management Plan was required.</p> <p>A breach in the capacity of two sediment basins due to exceptional rainfall from Friday 7th to Sunday 9th February 2020 resulted in discharge from DP2 and DP3 which did not comply with the discharge limits in the EPL (high Total Suspended Solids).</p> <p>Records do not show that all required pollutants were monitored during the period covered by this report. Records of pH and total suspended solids were not always available for discharge from DP-1.</p>	<p>Not Compliant</p> <p>Not Compliant</p>	<p>NC-07</p> <p>NC-08</p>

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		<ul style="list-style-type: none"> - a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the project; - long term water quality management objectives and the measures to achieve these objectives; and - audit and reporting procedures, including comparisons of the monitoring results each calendar year and quarterly reporting of Killalea Lagoon monitoring results; <p>(c) Groundwater Management Plan, that includes:</p> <ul style="list-style-type: none"> - detailed baseline data on groundwater yield and quality in groundwater bores on privately-owned land and Killalea Lagoon, that could be affected by the project; - groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts; - a program to monitor: <ul style="list-style-type: none"> o the impacts of the project on: - groundwater inflows to Killalea Lagoon; - any groundwater bores on privately-owned land that could be affected by the project; and o seepage from water storages or backfilled voids on site; - a plan to respond to any exceedances of the groundwater assessment criteria; and - audit and reporting procedures, including comparisons of the monitoring results each calendar year and quarterly reporting of Killalea Lagoon monitoring results. <p>The Proponent must implement the approved management plan as approved from time to time by the Secretary.</p>			
Visual					
Operating Conditions					
44.	25	<p>The Proponent must</p> <ul style="list-style-type: none"> (a) implement all reasonable and feasible measures to minimise the visual impacts and any offsite lighting impacts of the project; and (b) maintain and improve effectiveness of the vegetated plantings on the quarry benches and bunds, over the life of the project, to the satisfaction of the Secretary. 	<p>New processing plant installed within pit which minimises visual and offsite lighting.</p> <p>Complaint received 25/07/2019 re noise and excessive lighting from site. Site was considered in compliance with condition of approval. Attempted to contact complainant with no response.</p> <p>Excessive lighting raised as an item for general discussion in November 2019. Additional lighting turned on in amenities carpark in January 2020.</p> <p>Complaints received 26/02/2020 re lighting in carpark. Lighting turned off 27/02/2020 until all lights were redirected. No further complaints received.</p>	Compliant	

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Advertising Signage					
45.	26	The Proponent must not erect or display any advertising structure(s) or signs on the site without the written approval of the Secretary. <i>Note: This condition does not require approval for any business identification, traffic management, and/or safety or environmental signs</i>	No advertising structures displayed.	Compliant	
TRANSPORT					
Operating Conditions					
46.	27	The Proponent must ensure that quarry products transported by road are only transported from the site on Bass Point Quarry Road to Dunmore Road (see Appendix 4).	Records of induction of drivers and sign on to code of conduct available. Code of Conduct includes transport haulage route.	Compliant	
47.	28	The Proponent must, so far as reasonable and feasible, prioritise the transport of quarry products by ship.	No transport by shipping was being conducted. Reported that the company was still in the process of obtaining approval for a new terminal in Sydney. When approval is obtained, shipping will recommence.	Not triggered	
48.	29	The Proponent must ensure that all heavy vehicles: (a) do not exceed an on-site speed limit of 30 km per hour; (b) do not exceed a speed limit of 50 km per hour on Bass Point Quarry Road;; (c) are dispatched from the site in a controlled manner to minimise queuing and potential delays at the roundabout and Dunmore Road intersections; (d) have their loads covered when entering or leaving the site; and (e) ensure that all laden trucks are cleaned of material that may fall from them, before leaving the site.	Bass Point Quarry Haul Road signposted at 50kph. On site speed limit set at 20kph Radar activated speed sign installed. Speed monitoring camera installed (6/02/2020) on Bass Point Quarry Road to monitor speed of vehicles. Photos of all speeding vehicles taken. Noted that a process for managing compliance has not been fully developed. Weighbridge has cameras for monitoring covering of loads.	Compliant	
Maintenance					
49.	30	The Proponent must maintain the pavement of Bass Point Quarry Road to minimise noise generation and potholes, to the satisfaction of the Secretary.	Road was noted to be in good condition	Compliant	
Monitoring of Product Transport					
50.	31	The Proponent must: (a) keep accurate records of: · the amount of quarry products transported from the site (monthly and annually); · the regional destination of quarry products transported from the site; and · all laden truck movements (i.e. dispatch of trucks carrying quarry products or concrete) from the site (hourly, daily, weekly, monthly and annually); and (b) publish these records on its website on a quarterly basis.	Truck movement records are recorded in SAP through the weighbridge. Records were available on the Company website.	Compliant	
Parking					
51.	32	The Proponent must provide sufficient parking on-site for all project-related traffic in accordance with Council's parking codes.	Parking facilities had been provided for office and quarry operations personnel. Noted that the site was constructing new office facilities and hardstand area for parking.	Compliant	

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Transport Management Plan					
52.	33	<p>The Proponent must prepare a Transport Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> (a) be prepared by suitably qualified experienced person(s), whose appointment has been approved by the Secretary; (b) be prepared in consultation with Council and RMS, and be submitted to the Secretary within three months of the determination of Modification 2, or as otherwise agreed by the Secretary; (c) include details of all transport routes and traffic types to be used for project-related traffic; (d) describe the processes in place for the control of truck movements entering and exiting the site; (e) include details of the measures to be implemented to minimise traffic safety issues and disruption to local road users, including minimising potential for conflict with school buses; (f) include a Driver's Code of Conduct that includes procedures to ensure that drivers: <ul style="list-style-type: none"> (i) adhere to posted speed limits or other required travelling speeds; (ii) adhere to designated transport routes; (iii) implement safe and quiet driving practices; (iv) are aware of potential safety issues along the haulage route, particularly near schools and intersections; (g) describe the measures to be put in place to ensure compliance with the Driver's Code of Conduct; and (h) propose measures to minimise the transmission of dust and tracking of material onto the surface of public roads from vehicles exiting the site. <p>The Proponent must implement the Transport Management Plan as approved by the Secretary.</p>	<p>Transport Management Plan updated April 2019. Extension of time requested from DPIE on 30/04/2019 for submission of the TMP. Submitted to DPIE 3/05/2019, comments received 28/05/2019. Required to be resubmitted by 28/06/2019.</p> <p>Resubmitted 28/06/19 and approved 11/07/2019.</p> <p>Noted that no revision was required following completion of the 2019-2020 AEMR.</p>	Compliant	
53.	33A	<p>Within three months of the determination of Modification 2, or as otherwise agreed by the Secretary, the Proponent must:</p> <ul style="list-style-type: none"> (a) undertake a visual inspection of the noise barriers along Bass Point Quarry Road in consultation with Council; (b) submit a report to Council detailing: <ul style="list-style-type: none"> (i) the outcomes of this inspection regarding the condition and functionality of the existing noise barriers; and (ii) any works required to be undertaken to ensure the noise barriers provide effective noise attenuation for residents along Bass Point Quarry Road; and (c) provide a copy of this report to the Secretary. 	<p>Visual inspection conducted in consultation with Council 12/03/2019 (MOD2 approval January 2019). Submitted to Council 1/05/2019 – Response provided 2/05/2019. Submitted to DPIE 3/05/2019</p>	Compliant	
Cumulative Traffic Impact Study					
54.	34	<p>The Proponent must, in conjunction with the operators of the Dunmore Quarry and the Albion Park Quarry, cause to be prepared an independent Cumulative Traffic Impact Study. The study must:</p>	Verified previous audit.	Compliant	

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		(a) be undertaken by a suitably qualified traffic consultant, whose appointment has been approved by the Secretary; (b) be commissioned by 30 June 2014, and completed by 31 October 2014, or as otherwise agreed in writing by the Secretary; (c) be co-funded by the operators of the Dunmore, Bass Point and Albion Park quarries, proportionate to the quarries' respective quarry product road transport limits, as approved at 30 June 2014; (d) include a comprehensive assessment of current and future projected cumulative traffic impacts of the three quarries on the classified road network, undertaken in consultation with the RMS; and (e) identify any reasonable and feasible measures that can be implemented to minimise the traffic and road safety impacts of quarry trucks on Mount Ousley Road, and the likely cost of implementing these measures.			
55.	35	The Proponent must, in conjunction with the operators of the Dunmore Quarry and the Albion Park Quarry, prepare and implement a program to implement any reasonable and feasible measures identified in the Cumulative Traffic Impact Study not already undertaken by the Applicant, in an equitable manner with the two other quarry operators to the satisfaction of the Secretary. The program must be submitted to the Secretary for approval by 28 February 2015, or as otherwise agreed in writing by the Secretary.	Verified previous audit. One specific recommendation identified for Quarries to develop and maintain a Traffic Management Plan and Driver Code of Conduct. Bass Point Quarry have a Traffic Management Plan and Driver Code of Conduct in place.	Compliant	
Waste					
56.	36	The Proponent must: (a) minimise the waste generated by the project; and (b) ensure that the waste generated by the project is appropriately stored, handled, and disposed of, to the satisfaction of the Secretary.	Processes implemented to minimise waste generation and recycling of waste. Recycling of waste cardboard, metal and oils verified.	Compliant	
HERITAGE					
Heritage Management Plan					
57.	37	The Proponent must prepare and implement a Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with Aboriginal stakeholders for matters relating to Aboriginal heritage values and with Council for matters relating to non-Aboriginal heritage; (b) be submitted to the Secretary for approval by 31 May 2014; (c) describe the measures that would be implemented for: <ul style="list-style-type: none"> • managing the discovery of any human remains or previously unidentified heritage objects on site; • ensuring ongoing consultation with Aboriginal stakeholders in the conservation and management of any Aboriginal cultural heritage values on site; • protecting heritage sites identified adjacent to the project. 	Heritage Management Plan (30/05/2014) prepared and approved by DP&E. Verified previous audit	Compliant	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #										
		The Proponent must implement the approved management plan as approved from time to time by the Secretary.													
LANDSCAPE															
Rehabilitation Objectives															
58.	38	<p>The Proponent must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the proposed rehabilitation strategy in the EA and Appendix 5, and comply with the objectives in Table 7.</p> <p>Feature Objective</p> <table border="1"> <tr> <td>Site (as a whole)</td> <td>Safe, stable & non-polluting.</td> </tr> <tr> <td>Surface Infrastructure</td> <td>To be decommissioned and removed, unless the Secretary agrees otherwise.</td> </tr> <tr> <td>Quarry Benches</td> <td>Landscaped and revegetated utilising native tree and understorey species</td> </tr> <tr> <td>Public Access</td> <td>Establish safe pedestrian access between Killalea State Park and Bass Point Reserve</td> </tr> <tr> <td>Other land affected by the project</td> <td> Maintain or establish self-sustaining eco-systems comprised of: <ul style="list-style-type: none"> • native endemic species: and • a landform consistent with Figure 5 (Appendix 5) and the surrounding environment. </td> </tr> </table>	Site (as a whole)	Safe, stable & non-polluting.	Surface Infrastructure	To be decommissioned and removed, unless the Secretary agrees otherwise.	Quarry Benches	Landscaped and revegetated utilising native tree and understorey species	Public Access	Establish safe pedestrian access between Killalea State Park and Bass Point Reserve	Other land affected by the project	Maintain or establish self-sustaining eco-systems comprised of: <ul style="list-style-type: none"> • native endemic species: and • a landform consistent with Figure 5 (Appendix 5) and the surrounding environment. 	<p>Rehabilitation has occurred on landscape mounds (NW), near the site office and facing the Shell Cove residential development. Conducted May 2019 (Near office) and September 2019 (NW landscape mounds). Southwestern mound overlooking Killalea and farm – Tree plantings November/ December 2020.</p> <p>Rehabilitation managed by Quarry staff. Tube stock from Jamberoo Native Nursery.</p>	Compliant	
Site (as a whole)	Safe, stable & non-polluting.														
Surface Infrastructure	To be decommissioned and removed, unless the Secretary agrees otherwise.														
Quarry Benches	Landscaped and revegetated utilising native tree and understorey species														
Public Access	Establish safe pedestrian access between Killalea State Park and Bass Point Reserve														
Other land affected by the project	Maintain or establish self-sustaining eco-systems comprised of: <ul style="list-style-type: none"> • native endemic species: and • a landform consistent with Figure 5 (Appendix 5) and the surrounding environment. 														
Progressive Rehabilitation															
59.	39	The Proponent must 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 rehabilitation strategies must be employed when areas prone to dust generation cannot yet be permanently rehabilitated.	Progressive rehabilitation has been undertaken	Compliant											
Landscape Management Plan															
60.	40	<p>The Proponent must prepare and implement a Landscape Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with DRG and Council;</p> <p>(b) be submitted to the Secretary for approval within 12 months of the date of this approval;</p> <p>(c) 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; and • ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval; 	<p>Submission and approval of the Landscape Management Plan within the required timeframe was verified previous audit.</p> <p>Updated Landscape Management Plan submitted and 8 November 2017 and approved 16 March 2018.</p> <p>Verified previous audit.</p> <p>Weed inspections – Annual weeding activities had not been conducted in 2019. New vendor required for</p>	Not Compliant	NC-09										

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		<p>(d) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, including triggering remedial action (if necessary);</p> <p>(e) include a detailed description of the measures that would be implemented, including the procedures to be implemented for:</p> <ul style="list-style-type: none"> • ensuring compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval; • enhancing the quality of remnant vegetation and fauna habitat; • restoring native endemic vegetation and fauna habitat within the rehabilitation area; • maximising the salvage of environmental resources within the approved disturbance area – including vegetative and soil resources – for beneficial reuse in the enhancement of the rehabilitation areas ; • collecting and propagating seed; • avoiding impacts to threatened species (including <i>Pimelia spicata</i>); EECs (including Littoral Rainforest EEC and Themeda Grassland EEC); and the <i>Melaleuca armilaris</i> Tall Shrubland and Littoral Thicket vegetation communities, including the identification and marking of areas in which these species and/or communities may occur; • minimising the impacts on native fauna on site, including undertaking appropriate preclearance surveys; • controlling weeds and feral pests; • controlling erosion; • controlling access; and • bushfire management; <p>(f) include a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria;</p> <p>(g) provide details of water management measures to be implemented to minimise the risk of blue green algae proliferation in water bodies, particularly in final voids;</p> <p>(h) identify the potential risks to successful rehabilitation of the site, and include a description of the contingency measures that would be implemented to mitigate against these risks; and</p> <p>(i) include details of who would be responsible for monitoring, reviewing, and implementing the plan.</p> <p>The Proponent must implement the approved management plan as approved from time to time by the Secretary.</p>	<p>weed management. Reported as a non-compliance in 2019 annual review.</p> <p>Illawarra District Weeds Authority engaged and inspection completed June 2020.</p> <p>A Vegetation Preclearance survey had been conducted - 12 December 2018 – Northwest corner of site. Potential habitat and weeds identified. Recommended qualified ecologist be present during clearing and weed control be undertaken. Clearing had not been undertaken at this stage.</p> <p>August 2019 (2 surveys, vegetation and Green and Golden Bell frog – Both by Biosis – 15/08/2019 and 26/08/2019). Vegetation Survey Report (final version) provided 5/03/2020 (construction of a water drainage channel). Recommended Green and Golden Bell frog assessment</p> <p>Information provided to contractor re recommendations from the Ecologist. Green and Golden Bell frogs. Sighted correspondence to contractors with report recommendations from Ecologist report including fact sheet on Green and Golden Bell frogs .</p>		
Conservation & Rehabilitation Bond					
61.	41	<p>Within 6 months of the approval of the Landscape Management Plan, the Proponent must lodge a Conservation and Rehabilitation Bond with the Department to ensure that the rehabilitation of the site is implemented in accordance with the performance and completion criteria set out in the Landscape Management Plan. The sum of the bond must be determined by:</p>	<p>Landscape and Rehabilitation Management Plan approved 16/03/2018.</p>	Not Compliant	

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		<p>(a) calculating the cost of rehabilitating the site; and (b) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary. <i>Notes:</i></p> <ul style="list-style-type: none"> <i>If capital and other expenditure required by the Landscape Management Plan is largely complete, the Secretary may waive the requirement for lodgement of a bond in respect of the remaining expenditure.</i> <p><i>If the rehabilitation of the site area is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site is not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works.</i></p>	<p>Conservation and Rehabilitation Bond not lodged. Due before 16/09/18.</p> <p>Lodgement confirmed by DPIE 16/10/18.</p>		
62.	42	<p>Within 3 months of each Independent Environmental Audit (see condition 9 of Schedule 5), the Proponent must review, and if necessary revise, the sum of the Conservation and Rehabilitation Bond to the satisfaction of the Secretary. This review must consider the:</p> <p>(a) effects of inflation; (b) performance of the rehabilitation of the site to date; and (c) likely cost of rehabilitating the site.</p>	<p>Required to be revised and updated following the current audit.</p>	<p>Not Triggered</p>	

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Schedule 4– ADDITIONAL PROCEDURES					
NOTIFICATION OF LANDOWNERS					
63.	1	<p>As soon as practicable, and no longer than 7 days, after obtaining monitoring results showing an exceedance of:</p> <p>(a) any relevant criteria in Schedule 3, the Proponent must notify affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the project is again complying with the relevant criteria; and</p> <p>(b) the relevant air quality criteria in Schedule 3, the proponent must send a copy of the NSW Health fact sheet entitled “<i>Mine Dust and You</i>” (as may be updated from time to time) to the affected landowners and/or existing tenants of the land.</p>	<p>No notifications had been issued.</p> <p>No noise exceedances.</p> <p>Dust deposition exceedances were for the gauge situated on site. Dust monitoring results for adjacent development reviewed and it was determined that residents had not been affected (based on results of dust deposition monitoring conducted nearer the residents by the adjacent developer).</p>	Compliant	
INDEPENDENT REVIEW					
64.	2	<p>If an owner of privately-owned land considers the project 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 project on his/her land.</p> <p>If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary’s decision the Proponent must:</p> <p>(a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Secretary, to:</p> <ul style="list-style-type: none"> – consult with the landowner to determine his/her concerns; – conduct monitoring to determine whether the project is complying with the relevant criteria in Schedule 3; and – if the project is not complying with these criteria, then identify the measures that could be implemented to ensure compliance with the relevant criteria; and <p>(b) give the Secretary and landowner a copy of the independent review, and</p> <p>(c) comply with any written requests made by the Secretary to implement any findings of the review.</p>	<p>No request had been received.</p>	Not Triggered	

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Schedule 5– ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING					
ENVIRONMENTAL MANAGEMENT					
Environmental Management Strategy					
65.	1	<p>The Proponent must prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:</p> <p>(a) be submitted to the Secretary for approval by 31 July 2014;</p> <p>(b) provide the strategic framework for environmental management of the project;</p> <p>(c) identify the statutory approvals that apply to the project;</p> <p>(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;</p> <p>(e) describe the procedures that would be implemented to:</p> <ul style="list-style-type: none"> • keep the local community and relevant agencies informed about the operation and environmental performance of the project; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the course of the project; • respond to any non-compliance; and • respond to emergencies; and <p>(f) include:</p> <ul style="list-style-type: none"> • copies of any strategies, plans and programs approved under the conditions of this approval; and • a clear plan depicting all the monitoring required to be carried out under the conditions of this approval. <p>The Proponent must implement the approved strategy as approved from time to time by the Secretary.</p>	<p>Initial Environmental Management Strategy submitted and approved by DP&E. Verified previous audit.</p> <p>Updated March 2017</p> <p>Approved by DP&E 9 April 2018.</p> <p>Update submitted 19 September 2019 following completion of the Annual Environmental Management Review. Comments received 24 September 2019.</p> <p>Further information required.</p> <p>EMS requires the incident register is to be audited at three monthly intervals, by Quarry management, and made available, upon request, to an authorised Council officer. No record of auditing of the incident register were available.</p>	Not Compliant	NC-10
Evidence of Consultation					
66.	1A	<p>1A. Where consultation with any public authority is required by the conditions of this approval, the Proponent must:</p> <p>(a) consult with the relevant public authority prior to submitting the required document to the Secretary for approval;</p> <p>(b) submit evidence of this consultation as part of the relevant document;</p> <p>(c) describe how matters raised by the authority have been addressed and any matters not resolved; and</p> <p>(d) include details of any outstanding issues raised by the authority and an explanation of disagreement between any public authority and the Proponent.</p>	<p>Consultation on Transport Management Plan required.</p> <p>Evidence of consultation with Shellharbour Council and RMS included as attachment to the Transport Management Plan.</p>	Compliant	

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Adaptive Management					
67.	2	<p>The Proponent must assess and manage project-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 approval 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 Proponent must, at the earliest opportunity:</p> <p>(a) take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur;</p> <p>(b) consider all reasonable and feasible options for remediation (where relevant);</p> <p>(c) within 14 days of the exceedance occurring, submit a report to the Secretary describing these remediation options and any preferred remediation measures or other course of action; and</p> <p>(d) implement remediation measures as directed by the Secretary; to the satisfaction of the Secretary.</p>	<p>One Water Quality exceedance on 10 February 2020 (heavy rainfall event). Report submitted to DPIE 17/02/2020.</p> <p>Air Quality Lack of data for PM₁₀ monitoring, and elevated results and elevated results – identified during preparation of AEMR). Incident report submitted to DPIE 4/02/2020. Notified to DPIE 29/01/2020 PM₁₀ and DDG2.</p> <p>Several exceedances in January 2020 (comments indicated ash from bushfires). Monthly AQ monitoring reports on website – shows response. Relocated February 2020. No data 4-10/02/2020. Offsite 10/02/20 to 18/04/2020. Note that back up unit malfunctioned at same time, hence was not able to be used.</p> <p>Not reported as a non-compliance LVAS relocated close to resident properties to provide data for locally affected properties. No exceedances since relocation in April 2020.</p>	Not compliant	NC-11
Management Plan Requirements					
68.	3	<p>The Proponent must ensure that the Management Plans required under this approval are prepared in accordance with any relevant guidelines, and include:</p> <p>(a) detailed baseline data;</p> <p>(b) a description of:</p> <ul style="list-style-type: none"> – the relevant statutory requirements (including any relevant approval, licence or lease conditions); – any relevant limits or performance measures/criteria; and – the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures; <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>Verified previous audit.</p> <p>Management plans have been prepared and submitted to DP&E for review. Management plans have been reviewed and approved by the Secretary.</p>	Compliant	

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		<p>(d) a program to monitor and report on the:</p> <ul style="list-style-type: none"> - impacts and environmental performance of the project; and - effectiveness of any management measures (see (c) above); <p>(e) a contingency plan to manage any unpredicted impacts and their consequences;</p> <p>(f) a program to investigate and implement ways to improve the environmental performance of the project 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; and <p>(h) a protocol 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>			
Annual Review					
69.	4	<p>By the end of March each year, the Proponent must review the environmental performance of the project to the satisfaction of the Secretary. This review must:</p> <p>(a) describe the development (including rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;</p> <p>(b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against:</p> <ul style="list-style-type: none"> - the relevant statutory requirements, limits or performance measures/criteria; - the monitoring results of previous years; and - the relevant predictions in the EA; <p>(c) identify any non-compliance over the last 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 project;</p> <p>(e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and</p> <p>(f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the project.</p>	<p>Annual review for 2018 submitted 31/03/2019</p> <p>Annual review for 2019 submitted 31/03/2020</p>	Compliant	



AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Revision of Strategies, Plans & Programs					
70.	5	<p>Within 3 months of:</p> <ul style="list-style-type: none"> (a) the submission of an annual review under condition 4 above; (b) the submission of an incident report under condition 7 below; (c) the submission of an audit report under condition 9 below; or (d) any modification to this approval (unless the conditions require otherwise), <p>the Proponent must review the strategies, plans, and programs required under this approval, 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 to the Secretary for approval.</p> <p>The Proponent must notify the Department in writing of any such review being undertaken. Where this review leads to revisions in any such document, then within 6 weeks of the review the revised document must be submitted for the approval of the Secretary.</p>	<p>Email to DPIE 3/07/18.</p> <p>No updates have occurred as a result of the annual review. No evidence provide to show the DPIE had been notified that a review of the management plans had been completed.</p> <p>28/06/19 – Email from BP to DPIE notified of changes to management plans.</p> <p>30/06/2020 notification of review following the 2020 review. See Email</p> <p>Previous audit report – no record of review following completion of report. Reviews were reported to be encompassed in Mod 2 application.</p> <p>No evidence of review following incident (water quality).</p> <p>No evidence of review of Air Quality Management Plan following air quality exceedances.</p>	Not compliant	NC-12
Updating and Staging of Strategies, Plans or Programs					
71.	5A	<p>To ensure that strategies, plans or programs required under this approval are updated on a regular basis, and that they incorporate any appropriate additional measures to improve the environmental performance of the development, the Proponent may at any time submit revised strategies, plans or programs for the approval of the Secretary. With the agreement of the Secretary, the Proponent may also submit any strategy, plan or program required by this approval on a staged basis.</p> <p>The Secretary may approve a revised strategy, plan or program required under this approval, or the staged submission of any of these documents, at any time. With the agreement of the Secretary, the Proponent may prepare the revised or staged strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this approval.</p> <p>While any strategy, plan or program may be submitted on a staged basis, the Proponent will need to ensure that the operations associated with the development are covered by suitable strategies, plans or programs at all times.</p> <p>If the submission of any strategy, plan or program is to be staged; then the relevant strategy, plan or program must clearly describe the specific stage/s of the development to which the strategy, plan program applies; the relationship of this</p>	<p>Management plans include requirements for reviews and updates, with plans generally required to be reviewed on at least an annual basis. Records show that plans had been reviewed following submission of AEMRs.</p>	Compliant	

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		stage/s to any future stages; and the trigger for updating the strategy, plan or program.			
72.	5B	The Proponent must continue to apply existing approved management strategies, plans or monitoring programs approved prior to the approval of a modification to this approval, until the approval of a similar plan, strategy or program following the approval of that modification.	Existing plans continued to be used until updated plans had been approved.	Compliant	
Community Consultative Committee					
73.	6	<p>The Proponent must establish and operate a Community Consultative Committee (CCC) for the project to the satisfaction of the Secretary. This CCC must be operated in general accordance with the Department's <i>Community Consultative Committee Guidelines, November 2016</i> (or later version), and be operating within four months of the date of this approval.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> - <i>The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval.</i> - <i>In accordance with the guideline, the Committee should comprise an independent chair and appropriate representation from the Proponent, Council, recognised environmental groups and the local community.</i> 	Community Consultative Committee established. Minutes were provided on the Quarry website. Records show that meetings were held on a quarterly basis.	Compliant	
REPORTING					
Incident Reporting					
74.	7	The Proponent must immediately notify the Secretary (using the contact name, email address and phone number provided by the Department from time to time) and any other relevant agencies of any incident.	<p>Water quality incident 10/02/2020. EPA notified 10/02/2020.</p> <p>DPIE notified 14/02/2020. Not notified immediately.</p> <p>Non-compliance with blast monitoring requirements 14/02/2020. Reported to DPIE and EPA 14/02/2020.</p> <p>Diesel spill 21/07/2020. Reported 23/07/2020 when it was determined that the incident was a reportable incident in accordance with s. 147(a)(ii) of the POEO Act.</p> <p>Report lodged with EPA, DPIE 28/07/2020.</p>	Not compliant	NC-13

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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
75.	7A	Within 7 days of the date of the incident, the Proponent must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested. This report must include the time and date of the incident, details of the incident, measures implemented to prevent re-occurrence and must identify any non-compliance with this approval.	Water quality incident Report provided 17/02/2020. Report on blast monitoring non-compliance provided 21/02/2020.	Compliant	
Regular Reporting					
	8	The Proponent must provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval	Environmental monitoring records were available on the Bass Point Quarry website.	Compliant	
INDEPENDENT ENVIRONMENTAL AUDIT					
76.	9	By 30 June 2014, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the project. This audit must: (a) be conducted by 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 project and whether it is complying with the relevant requirements in this approval and any relevant EPL and/or Water Licence (including any assessment, plan or program required under these approvals); (d) review the adequacy of any approved strategy, plan or program required under these approvals; and (e) recommend measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under these 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>	Auditor commissioned prior to 30 June 2018 to conduct audit. Audit conducted by DPIE approved auditor James Hart – AQUAS. Consultation included in Appendix Audit conducted 26-27 July 2018. Audit Report submitted to DPIE 26/10/2020. Extension provided for submission of report Extension of time provided due to Covid-19 restrictions for undertaking current audit prior to the end of September 2020. Audit conducted 8/09/2020.	Compliant	
77.	10	Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.	Audit commissioned by 30/06/2018. Email sighted showing extension of time for submission approved 14/09/2020 – required by 26/10/2018. Report submitted 26/10/2018.	Compliant	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
ACCESS TO INFORMATION					
78.	11	<p>By 31 May 2014, the Proponent must:</p> <p>(a) make the following information publicly available on its website:</p> <ul style="list-style-type: none"> the EA; all current statutory approvals for the project; all approved strategies, plans or programs; a summary of the monitoring results of the project, which have been reported in accordance with the various plans and programs approved under the conditions of this approval; a complaints register, updated on a quarterly basis; minutes of all CCC meetings; copies of any annual reviews, or similar (for the last 5 years); any independent environmental audit, and the Proponent's response to the recommendations in any audit; and any other matter required by the Secretary; and <p>(b) keep this information up-to-date, to the satisfaction of the Secretary.</p>	<p>Required information is available on the company website.</p>	Compliant	

Audit Checklist – Environmental Protection Licence 2193

AQUAS Ref No	Cond No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #												
A3 Information supplied to the EPA																	
3 Limit Conditions																	
A3 Information supplied to the EPA																	
1 Administrative Conditions																	
1.		This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation. Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.	During the 2017 – 2018 reporting period, 2,311,170 tonnes were produced, which complied with the Project Approval but not EPL (for which the scale was >500,000-2,000,000 T annual processing capacity & >500,000-2,000,000 T annual capacity to extract, process or store). An EPL variation was lodged by Hanson on 15 February 2019 to increase the EPL scale so that it aligned with the production limits in the Project Approval, to rectify the reported non-compliance for the 2017-2018 reporting period and prevent another non-compliance for the 2018-2019 reporting period.	Not Compliant	NC-14												
L1 Pollution of waters																	
2.		Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.	One incident occurred 10/02/2020 where an unintentional discharge of water occurred which did not comply with the discharge limits of this EPL.	Not Compliant	NC-06												
L2 Concentration Limits																	
3.		For each monitoring/discharge point or utilisation area specified in the table\ s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table. POINT 1,2,3	10/02/2020 – Discharge Point 2 (DP2) and Discharge Point 3 (DP3) exceeded the 100 percentile concentration limit of 50mg/L as the result of a breach in the capacity of two sediment basins due to exceptional rainfall from Friday 7th to Sunday 9th February 2020.	Not Compliant	NC-06												
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Pollutant</th> <th>Unit of Measure</th> <th>100 Percentile Concentration Limit</th> </tr> </thead> <tbody> <tr> <td>Oil and Grease</td> <td>Visible</td> <td>Not visible</td> </tr> <tr> <td>pH</td> <td>pH</td> <td>6.5-8.5</td> </tr> <tr> <td>Total suspended Solids</td> <td>Mg/L</td> <td>50</td> </tr> </tbody> </table>	Pollutant	Unit of Measure	100 Percentile Concentration Limit	Oil and Grease	Visible	Not visible	pH	pH	6.5-8.5	Total suspended Solids	Mg/L	50			
Pollutant	Unit of Measure	100 Percentile Concentration Limit															
Oil and Grease	Visible	Not visible															
pH	pH	6.5-8.5															
Total suspended Solids	Mg/L	50															
L3 Blasting																	
4.	L3.3	The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed: a) 5 mm/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 "Monitoring Point A" or "Monitoring Point B" as labelled on the aerial photo titled 'Bass Point Quarry EPA Monitoring Locations' dated 19 October 2015.	Blast monitoring had been undertaken at All results have been <5mm/sec.	Compliant													

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AQUAS Ref No	Cond No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
5.	L3.2	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 "Monitoring Point A" or "Monitoring Point B" as labelled on the aerial photo titled 'Bass Point Quarry EPA Monitoring Locations' dated 19 October 2015.	July 2018 to December 2018 8 blast where the measured maximum airblast overpressure exceeded 115dB(Lin Peak). Review of monitoring records by Quarry staff identified that all readings above 115dB were attributed to peaks caused by strong winds and not blast events. 2019 No blast over 120 dBL 1 blast over 115 dBL (1.64% >115dB). Noted that 7 blasts where the air blast overpressure was reported as between 88dB and 115dB, where the maximum blast overpressure was attributed to strong winds. 2020 1 blast to date exceeding 115dBL - 21/02/2020 – 117.4dBL.	Compliant	
6.	L3.3	Each production blast must be monitored and recorded.	Monitoring program implemented. Records provided on project website. Noted that no monitoring records were available for the blast event which occurred on 14/02/2020. Reported as a non-compliance to DPIE and EPA 14/02/2020.	Not Compliant	NC-03
7.	L3.4	The written report must include: a) the time and date of each blast; b) the station(s) at which the noise was measured; c) the ground vibration for each blast; d) the airblast pressure for each blast; e) evidence that during each twelve (12) month period, a calibration check had been carried out on each blast monitor to ensure accuracy of the reported data; and f) the waveform for the ground vibration and overpressure for each blast that exceeds a ground vibration of 5 mm/sec (peak particle velocity) or an airblast overpressure of 115 dB (L). The written results of the monitoring must be provided to an authorised officer of the EPA on request and included in the annual return for this licence.	Blast Plan prepared for each blast. Bass Point Quarry Blast Report, Post Blast Shot Firer Inspection and event reports completed for each blast.	Compliant	

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AQUAS Ref No	Cond No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
8.	L3.5	Blasting operations at the premises may only take place between the hours of 8:30am to 5:00pm, Monday to Friday. (Where compelling safety reasons exist, the Authority may permit a blast to occur outside the abovementioned hours. Prior written (or facsimile) notification of any such blast must be made to the Authority).	Blasting in 2018 conducted between 12.51 am and 4.14pm. Blasting in 2019 conducted between 10.01am and 3.07pm. Blasting in 2020 conducted between 10.00am and 11.13am. All blasting has been undertaken on weekdays.	Compliant	
4 Operating Conditions					
9.	O1.1	Activities must be carried out in a competent manner Licensed activities must be carried out in a competent manner. This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.		Compliant	
10.	O2.1	Maintenance of plant and equipment 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	Maintenance agreements with OEM Full time diesel mechanic and electrician on site. Maintenance planned through SAP. Maintenance crew on site, including maintenance supervisor, fitters and diesel mechanic. Records maintained in SAP.	Compliant	
11.	O3.1	Dust The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	Controls for the minimisation of dust emissions from the site have been identified and implemented. Deposited dust levels measures at DDG2 have consistently exceeded the annual average criterion. Review of results by Quarry management had determined that the elevated dust deposition results were the result of adjacent activities on the adjacent marina development, not associated with the quarry activities	Not Compliant	NC-04
5 Monitoring and Recording Conditions					
M1 Monitoring records					
12.	M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	Monitoring records were available.	Compliant	
13.	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	Records were available for >4 years electronically and provided on the company website.	Compliant	

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		c) produced in a legible form to any authorised officer of the EPA who asks to see them.																			
14.	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	Information required was included in sampling and monitoring reports. e.g. Certificate of Analysis for Water samples collected 15 July 2020, Work Order EW2003193	Compliant																	
M2 Requirement to monitor concentration of pollutants discharged																					
15.	M2.1	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:	Water monitoring conducted during uncontrolled discharge from DP2 and DP3 on 10/02/2020 and discharge from DP1. Records do not show that all required pollutants were monitored during the period covered by this report. Records of pH and total suspended solids were not always available for discharge from DP-1.	Not compliant	NC-15																
16.	M2.2	Water and/or Land Monitoring requirements POINT 1,2,3 <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Unit of Measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Oil and Grease</td> <td>Visible</td> <td>Daily during any discharge</td> <td>Inspection</td> </tr> <tr> <td>pH</td> <td>pH</td> <td>Daily during any discharge</td> <td>Grab Sample</td> </tr> <tr> <td>Total suspended Solids</td> <td>Mg/L</td> <td>Daily during any discharge</td> <td>Grab Sample</td> </tr> </tbody> </table>	Pollutant	Unit of Measure	Frequency	Sampling Method	Oil and Grease	Visible	Daily during any discharge	Inspection	pH	pH	Daily during any discharge	Grab Sample	Total suspended Solids	Mg/L	Daily during any discharge	Grab Sample	Water monitoring conducted during uncontrolled discharge from DP2 and DP3 on 10/02/2020 and discharge from DP1. Records do not show that all required pollutants were monitored during the period covered by this report. Records of pH and total suspended solids were not always available for discharge from DP-1.	Not compliant	NC-15
Pollutant	Unit of Measure	Frequency	Sampling Method																		
Oil and Grease	Visible	Daily during any discharge	Inspection																		
pH	pH	Daily during any discharge	Grab Sample																		
Total suspended Solids	Mg/L	Daily during any discharge	Grab Sample																		
17.	M2.3	M2.2 Air Monitoring Requirements POINT 4,5 <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Unit of Measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Insoluble Solids</td> <td>g/m²/month</td> <td>Monthly</td> <td>AS3580.10.1-2003</td> </tr> </tbody> </table>	Pollutant	Unit of Measure	Frequency	Sampling Method	Insoluble Solids	g/m ² /month	Monthly	AS3580.10.1-2003	Dust deposition gauges were installed at points 4 and 5. Monitoring conducted monthly by ALS Laboratories.	Compliant									
Pollutant	Unit of Measure	Frequency	Sampling Method																		
Insoluble Solids	g/m ² /month	Monthly	AS3580.10.1-2003																		
M3 Testing methods - concentration limits																					
18.	M3.1	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.	Monthly sampling and analysis conducted by ALS Laboratories. Discharge sampling conducted by Hanson, with analysis by ALS Laboratories.	Compliant																	

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AQUAS Ref No	Cond No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
19.	M3.2	<p>M3 Testing methods - concentration limits Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:</p> <ul style="list-style-type: none"> a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place. 	<p>Dust deposition conducted in accordance with AS3580.10.1-2003.</p> <p>Particulate monitoring using eBAM.</p>	Compliant	
M4 Recording of pollution complaints					
20.	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 maintained and published on the company website on a quarterly basis.	Compliant	
21.	M4.2	<p>The record must include details of the following:</p> <ul style="list-style-type: none"> 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 	Records of complaints were maintained. Includes date, time, mode, nature of complaint. Complaint comments and actions taken.	Compliant	
22.	M4.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Records maintained and made available on the company website.	Compliant	
23.	M4.4	The record must be produced to any authorised officer of the EPA who asks to see them.	Records were readily available on site and available on the company website.	Compliant	
M5 Telephone complaints line					
24.	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.	<p>24 hr Telephone complaints line maintained - 1800 882 478.</p> <p>Provided on complaints register on website. Also include Bass Point Quarry Ph. 02 4247 3955</p>	Compliant	
25.	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.	Complaints line number included on complaints register on the company website.	Compliant	
26.	M5.3	<p>The preceding two conditions do not apply until 3 months after:</p> <ul style="list-style-type: none"> a) the date of the issue of this licence or b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) 		Compliant	

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AQUAS Ref No	Cond No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.			
M6 Blasting					
27.	M6.1	Each production blast must be monitored and recorded at 'Monitoring Point A' and 'Monitoring Point B' as shown on the aerial photo titled 'Bass Point Quarry EPA Monitoring Locations' dated 19 October 2015.	Blast monitoring conducted. Records of blast monitoring available.	Compliant	
28.	M6.2	To determine compliance with the blasting limits contained in this licence: (a) Airblast overpressure and ground vibration levels must be measured for all production blasts carried out in or on the premises; and (b) The written record must include: (i) the time and date of each blast (ii) the station(s) at which the noise was measured; (iii) the ground vibration for each blast; (iv) the airblast overpressure for each blast; (v) evidence that during the past 12 month period, a calibration check had been carried out on each blast monitor to ensure accuracy of the reported data; and (vi) the waveform for the ground vibration and overpressure for each blast that exceeds a ground vibration of 5mm/sec (peak particle velocity) or an airblast overpressure of 115dB(L). (c) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard 2187.2 of 1993 or as updated	Record of calibration maintained on site Verified for 16371 – calibrated 14/04/2020	Compliant	
6 Reporting Conditions					
R1 Annual return documents					
29.	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 for 2018 submitted 14/08/2018 Annual return for 2019 submitted 14/08/2019 Annual return for 2020 submitted 11/08/2020	Compliant	
30.	R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.	Annual Returns provided for 2018, 2019 and 2020.	Compliant	
31.	R1.3	Where this licence is transferred from the licensee to a new licensee:		Not triggered	

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AQUAS Ref No	Cond No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		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.			
32.	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.		Not triggered	
33.	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').	Annual return required to be submitted within 60 days after 15 June. (by 14 August).	Compliant	
34.	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.	Annual returns maintained	Compliant	
R2 Notification of environmental harm					
35.		R2.1 Notifications must be made by telephoning the Environment Line service on 131 555	10/02/2020 - Uncontrolled release of water from DP2 and DP3. Reported on day of event via telephone and Email.	Compliant	
36.		R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred	Written report issued to EPA on 17/02/2020.	Compliant	
R3 Written report					
37.	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.	Written report provided to EPA for uncontrolled release of water from DP2 and DP3. No other requests for written report has been received.	Compliant	
38.	R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request	Written report provided to EPA for uncontrolled release of water from DP2 and DP3. No other requests for written report has been received.	Compliant	

AQUAS Ref No	Cond No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
39.	R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.	Written report provided 17/02/2020 to EPA for uncontrolled release of water from DP2 and DP3.	Compliant	
40.	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.		Not Triggered	
7 General Conditions					
G1 Copy of licence kept at the premises or plant					
41.	G1.1	A copy of this licence must be kept at the premises to which the licence applies.	Copy of licence available on site.	Compliant	
42.	G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	Copy of licence available on site.	Compliant	
43.	G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Copy of licence available on site.	Compliant	

Appendix D. – Consultation Records

Hart, James

From: Georgia Dragicevic <Georgia.Dragicevic@planning.nsw.gov.au>
Sent: Tuesday, 8 September 2020 4:29 PM
To: Hart, James
Subject: RE: Bass Point Quarry - Independent Environmental Audit

Hi James,

Can you please look into the recently implemented traffic system (ie counting trucks on weighbridge). Also, please look into rehab/landscaping, and surface/groundwater monitoring.

Kind regards,
Georgia

From: Hart, James <james.hart@aquas.com.au>
Sent: Monday, 31 August 2020 8:13 AM
To: Georgia Dragicevic <Georgia.Dragicevic@planning.nsw.gov.au>
Subject: Bass Point Quarry - Independent Environmental Audit

Hi,

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

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

If you have any questions or prefer to talk to someone about issues regarding the development, you can contact me on 0408238682.

Please note that the on-site component of the audit will be conducted on 9 September 2020.

Regards

James Hart | Management Consultant

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

Please note part time: Monday to Thursday
AQUAS | Level 2, 426 King Street, Newcastle NSW 2300 | PO Box 2195, Dangar NSW 2309 |
phone: +61 2 4928 7600 | fax: +61 2 4927 0930 | Mobile: +61 408 238 682
email: james.hart@aquas.com.au | ABN 40050539010 |
www.aquas.com.au
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Please consider the environment before printing this email.

Hart, James

From: James Crawford <James.Crawford@epa.nsw.gov.au>
Sent: Tuesday, 1 September 2020 3:41 PM
To: Hart, James
Subject: RE: Bass Point Quarry - Independent Environmental Audit

Hi James,

Sorry for the delay in replying.

I also received an email from you saying you would like to recall the message?

Can I confirm if the below email you sent is still correct and that AQUAS will be undertaking the audit?

Thank you,

James Crawford

Operations Officer – Regulatory Operations
NSW Environment Protection Authority

(02) 4224 4100

james.crawford@epa.nsw.gov.au www.epa.nsw.gov.au [@NSW_EPA](#) [EPA YouTube](#)

Report pollution and environmental incidents on 131 555 (NSW only) or +61 2 9995 5555



From: Hart, James <james.hart@aquas.com.au>
Sent: Monday, 31 August 2020 8:10 AM
To: James Crawford <James.Crawford@epa.nsw.gov.au>
Subject: Bass Point Quarry - Independent Environmental Audit

Hi James,

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

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Hart, James

From: Mark Miller <Mark.Miller@shellharbour.nsw.gov.au>
Sent: Wednesday, 2 September 2020 8:58 AM
To: Hart, James
Subject: RE: Bass Point Quarry - Independent Environmental Audit

Hi James,

Thanks you for providing the opportunity to make comment. I have sought input from the relevant staff in Council to ascertain if any concerns of issues require mentioning.

The following was provided:

- Ongoing dust issue for Malonies Bay and the boat ramp.
- Excessive ground vibrations occurring during blasting
- On-site lighting providing visual distractions to surrounding residents at night.

As a representative on the Community Consultative Committee, I have previously raised these matters with Hanson's who have contacted the complainants and negotiated a resolution.

Thank you again for providing this opportunity and please feel free to contact me if I can assist further.



Mark Miller | Manager Compliance & Regulation

76 Cygnet Avenue, Shellharbour City Centre
Locked Bag 155, Shellharbour City Centre, NSW 2529
p. (02) 4221 6293
www.shellharbour.nsw.gov.au



COLLABORATION

ACCOUNTABILITY

INTEGRITY

RESPECT

SUSTAINABILITY

COVID-19
(Coronavirus)

The health and safety of our staff, customers and community is our key priority. [Click here](#) for Council updates on COVID-19.

From: Hart, James <james.hart@aquas.com.au>
Sent: Monday, 31 August 2020 8:11 AM
To: Mark Miller <Mark.Miller@shellharbour.nsw.gov.au>
Cc: Information Management <council@shellharbour.nsw.gov.au>
Subject: Bass Point Quarry - Independent Environmental Audit

Hi Mark,

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

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

Hart, James

From: Hart, James
Sent: Monday, 31 August 2020 8:10 AM
To: philthommo1@hotmail.com
Subject: Bass Point Quarry - Independent Environmental Audit

Hi Phil,

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

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Please note that the on-site component of the audit will be conducted on 9 September 2020.

Regards

James Hart | Management Consultant

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

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

From: Hart, James
Sent: Monday, 31 August 2020 8:12 AM
To: dan.bolton@planning.nsw.gov.au
Subject: Bass Point Quarry - Independent Environmental Audit

Hi Dan,

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

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

If you have any questions or prefer to talk to someone about issues regarding the development, you can contact me on 0408238682.

Please note that the on-site component of the audit will be conducted on 9 September 2020.

Regards

James Hart | Management Consultant

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