



Holcim (Australia) Pty Ltd
Teven Quarry
Independent Environmental Compliance Audit

September 2016

Executive summary

GHD Pty Ltd (GHD) was commissioned by Holcim (Australia) Pty Ltd (Holcim) to conduct an audit of Holcim's compliance with the requirements of its Development Consent (SSD-6422) and Environment Protection Licence (EPL # 3293) for the Teven Quarry (the site). The scope of this audit is set out by Condition 9 of Schedule 5 of the Development Consent. This report presents the audit findings.

Condition 9 of Schedule 5 of the Development Consent requires an Independent Environmental Audit (the audit) to be commissioned by 15 July 2016. Specifically, Condition 9 requires:

"Within a year of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:

- (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;*
- (b) include consultation with the relevant agencies;*
- (c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or necessary water licences for the development (including any assessment, strategy, plan or program required under these approvals);*
- (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and*
- (e) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy plan or program required under the abovementioned approvals.*

Detailed findings of compliance for the Development Consent (SSD-6422) and EPL 3293 are provided in Appendices A and B of this report. The findings are based on a review of available documentation, audit interviews and a site inspection on 11 August 2016.

The details of consultation undertaken with relevant agencies in accordance with Condition 9(b) is detailed in Section 3.5 of this report.

A review of the adequacy and implementation of the Environment Management Strategy (EMS) and associated sub-plans was undertaken during the audit, with a summary of their adequacy provided in Section 3.4 of this report.

The review of compliance with the Conditions of Consent identified seven (7) non-compliances and seven (7) administrative non-compliances. The review of compliance with the EPL identified three (3) non-compliances.

The environmental risk associated with most of the non-compliances was considered low as detailed in Section 3.2.1 and 3.3.1. However, the environmental risk associated with one non-compliance with EPL 3293 was considered medium, as detailed in Section 3.3.1.

A number of recommendations were made in relation to the non-compliances and other issues, which are detailed in Section 4 of this report.

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1. Introduction

1.1 Introduction and purpose of this report

Holcim (Australia) Pty Ltd (Holcim) is one of Australia's leading producers and suppliers of construction materials such as concrete and quarry products, with over 88 quarry operations supplying rail ballast, aggregates, gravels, road pavement materials, and manufactured and natural sands.

The Teven Quarry is a hard rock quarry located off Stokers Lane at Teven, approximately eight kilometres north-west of Ballina in the Ballina Local Government Area (LGA). Teven Quarry has been operating since the 1940's, with the current Development Consent (SSD-6422) for operations granted by the NSW Minister for Planning on 15 July 2015.

Holcim commissioned GHD to conduct an independent environmental audit of its Teven Quarry (the site). The audit was conducted in accordance with Condition 9 of Schedule 5 of the Development Consent. The audit assessed the compliance status of the Teven Quarry against the Development Consent and other relevant environmental approvals and licences, for operations since approval of SSD-6422 (15 July 2015).

The site component of the environmental audit was conducted on 11 August 2016. This report provides an outline of the audit methodology and findings, and provides recommended actions to address non-compliances and other issues identified during the audit.

The audit was led by Ben Luffman, Senior Environmental Scientist/Planner with the assistance of Elliot Holland, Environmental Scientist.

Condition 9 of Schedule 5 of the Development Consent for the project requires an Independent Environmental Audit (the audit) to be commissioned by 15 July 2016. Specifically, Condition 9 requires:

“Within a year of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:

- (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;*
- (b) include consultation with the relevant agencies;*
- (c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or necessary water licences for the development (including any assessment, strategy, plan or program required under these approvals);*
- (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and*
- (e) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy plan or program required under the abovementioned approvals.*

Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.”

The audit team was approved by the Department of Planning and Environment (DP&E) in a letter to Holcim dated 29 July 2016.

1.2 Scope of the audit

The audit took the following form:

- An initial start-up teleconference was held with relevant Holcim representatives to discuss the audit methodology, identify relevant personnel involved in the project, key activities and systems occurring on the site, documentation for review and to schedule a date for the site inspection.
- Relevant agencies, including the Office of Environment and Heritage (OEH), Department of Primary Industries (DPI) Water, Environment Protection Authority (EPA), Roads and Maritime Services (Roads and Maritime) and Ballina Council (Council) were requested to provide comment on the performance and/or compliance of the project with relevant requirements and/or approvals.
- A review of available key documentation was undertaken prior to interviews with Holcim representatives and the site inspection. Reviewed documents included the Teven Quarry Project Environmental Impact Statement (EIS), Development Consent (SSD-6422), Environment Protection Licence (EPL 3293) and other relevant site and environmental information (such as correspondence with relevant agencies, management plans and monitoring results). Additional documents were reviewed during and following the interviews with Holcim representatives and the site inspection.
- A one-day site inspection to assess the general environmental performance of Teven Quarry and discuss Development Consent and EPL compliance with key site-based personnel.
- Preparation of a draft audit report for Holcim review.
- Finalisation of the audit report and provision to Holcim for submission to DP&E.

1.3 Audit participants

The following personnel were involved over the course of the audit Table 1.

Table 1 Audit team members

Audit team members	Organisation	Role
Ashley Robinson	GHD	Technical review
Ben Luffman	GHD	Lead Auditor
Elliot Holland	GHD	Support Auditor
Daniel Lidbetter	Holcim	NSW/ACT Planning & Environment Coordinator
Scott Callander	Holcim	Production Supervisor – Teven Quarry

1.4 Limitations

This report has been prepared by GHD for Holcim and may only be used and relied on by Holcim for the purpose agreed between GHD and the Holcim as set out in Sections 1.1 and 1.2 of this report.

GHD otherwise disclaims responsibility to any person other than Holcim arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

GHD has prepared this report on the basis of information provided by Holcim, which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

2. Methodology

The audit process involved a review of available documentation, the interview of personnel and a site inspection of the quarry operations to determine the level of environmental performance and compliance of the development with the Development Consent and the EPL. The audit process is detailed in Sections 2.1 to —.

2.1 Audit inception

An initial start-up teleconference for the audit was held 28 July 2016 with relevant Holcim representatives to discuss the audit methodology, identify relevant personnel involved in the project, key activities and systems occurring on site, documentation for review and to schedule a date for the site inspection.

2.2 Document review

Environmental documentation associated with the Teven Quarry was reviewed by the auditors prior to the site visit. Holcim personnel provided a number of documents for review including:

- Blast Management Plan (BMP)
- Noise Management Plan (NMP)
- Transport Management Plan (TMP)
- Air Quality Management Plan (AQMP)
- Biodiversity and Rehabilitation Management Plan (BRMP)
- Water Management Plan (WMP)
- Environmental Management Strategy (EMS)
- Development Consent - SSD-6422
- EPL 3293
- Teven Quarry Project Environmental Impact Statement (EIS)
- Correspondence to/from agencies

Additional documents were provided during and following the audit as evidence of compliance with the Development Consent and EPL.

2.3 Agency consultation

As part of the audit process, the following agencies were invited to provide comment in regard to Development Consent conditions requiring specific consultation with the particular agencies.

- Department of Primary Industries (Water) (DPI Water)
- Environment Protection Authority (EPA)
- Ballina Shire Council (Council)
- Office of Environment and Heritage (OEH)
- Roads and Maritime Services (Roads and Maritime)

Letters requesting comment from the agencies were emailed on 25 July 2016.

Responses were received from DPI Water, EPA, Roads and Maritime and OEH. Copies of this correspondence is provided in Appendix C. The auditors response to matters raised by agencies is provided in Section 3.4.

2.4 Site inspection and interviews

2.4.1 Opening and closing meeting

GHD undertook a site visit of the Teven Quarry on 11 August 2016. The audit team used the site inspection to review compliance with various environmental requirements of the project.

The opening and closing meetings were held at the Teven Quarry main office. The list of participants is provided in Table 2.

Table 2 Opening meeting attendees

Audit team members	Organisation	Role
Ben Luffman	GHD	Lead Auditor
Elliot Holland	GHD	Support Auditor
Holcim Representatives	Organisation	Role
Daniel Lidbetter ¹	Holcim	NSW/ACT Planning & Environment Coordinator
Scott Callander	Holcim	Production Supervisor – Teven Quarry

Note 1: Attendance via teleconference.

Following the opening meeting, a site inspection was undertaken to familiarise the audit team with the site and operations.

The objectives of the closing meeting were to discuss any outstanding matters, present preliminary findings and outline the process for finalising the audit report.

2.4.2 Audit interviews

During the on-site component of the audit, interviews were conducted with the Holcim staff identified in Table 2.

2.4.3 Data collection and verification

Where possible, documents and data collected during the audit process were reviewed whilst on-site. A number of documents were provided to the audit team prior to the on-site component of the audit. Several documents that were not available during the on-site component were provided following the audit.

All information obtained during the audit process was verified by the audit team where possible. For example, statements made by site personnel were verified by viewing documentation and/or site inspections. Where suitable verification was unable to be obtained, this has been identified.

2.4.4 Site inspection

A detailed site inspection of Teven Quarry was undertaken on 11 August 2016. The following locations were inspected:

- Active quarry pit
- Overburden emplacement area
- Processing area and stockpiles
- Maintenance, fuel storage and refuelling facility
- Weighbridge, access road and wheel wash

- Main dam
- Haul road
- In-pit dam
- Accessible rehabilitation areas.

2.5 Reporting

This report presents the finding of the Teven Quarry independent environmental audit required by Condition 9 of Schedule 5 of the Development Consent (SSD-6422).

This report summarises the findings of Holcim's compliance of the requirements of the Development Consent and EPL in Section 3. The findings are supported by Appendices detailing:

- Compliance against the Development Consent (Appendix A)
- Compliance against the EPL (Appendix B).

2.6 Definitions

Reporting results from the Independent Environmental Audit was determined based on the following definitions.

Compliant

Where sufficient verifiable evidence has been gathered to demonstrate compliance with the explicit requirements of the condition.

Non-Compliant

Where sufficient verifiable evidence has been gathered to demonstrate non-compliance with the explicit requirements of the condition.

Administrative non-compliance

A technical non-compliance with a requirement that would not impact on performance and that is considered minor in nature (e.g. report submitted but not on the due date).

Not verified

The inability to obtain sufficient verifiable evidence to assess compliance or non-compliance with the explicit requirements of the condition.

Not triggered

A requirement has an activation or timing trigger that had not been met at the time of the audit inspection, therefore a determination of compliance could not be made.

Observation

A finding which is not likely to significant affect the operations, does not strictly relate to the scope of the audit of compliance and/or could lead to performance improvement.

Note

A statement or fact, where no assessment of compliance is required.

3. Audit findings

3.1 Summary of compliance

Table 3 presents a summary of compliance with the requirements of SSD-6422 and the EPL.

Table 3 Compliance with Development Consent and EPL

Compliance	Development Consent (number)	Percentage (%)	EPL (number)	Percentage (%)
Compliant	89	72	31	53
Non-compliant	7	6	3	5
Administrative Non-compliance	7	6	0	0
Not verified	1	<1	5	9
Not triggered	18	14	9	16
Observation	1	<1	0	0
Note	1	<1	10	17
Total number of requirements	124	100	58	100

3.1.1 General Environmental Performance and Compliance

Holcim demonstrated a high level of environmental performance during the audit, as demonstrated by the comments and photos below.

A site inspection was undertaken of Teven Quarry on 11 August 2016. While the approval of SSD-6422 was obtained on 15 July 2015, at the time of the audit, production had not increased to the production capacity approved by this development consent and Teven Quarry has not yet undertaken loading and dispatch operations to the approved time of 10.00 pm Monday to Friday.

Production for the 2015 reporting period was 245,845 tonnes. The approved limit is of 500,000 tonnes.

During the site inspection, rehabilitation and tree plantings was observed on the western boundary of the extraction limit (refer to photo below). The 2015 Annual Review notes that rehabilitation of approximately 0.4 hectares of quarry land occurred and 250 trees were planted during the 2015 reporting period.

During the site inspection, dust controls were observed in the form of:

- Automatic timed dust suppression sprinkler system on the haul road.
- Sprinklers and watering down of the crushing and screening plant.
- Watering of product stockpiles in the stockpiling area.

During the site interviews, site staff advised that clean water runoff is diverted around disturbed areas using diversion drains which drain to cane fields on the quarry's eastern border. While this water flow was observed to be filtered through gravel and concrete pillars in a number of locations, some of this water flows unfiltered into the cane field drain and is not subject to water quality monitoring.

3.1.2 Site inspection observations

A selection of photographs from the site inspection are provided below.



Sprinklers in operation on the haul road to manage dust generation.



Truck wash area between the Main Dam and Haul Road.



The Main Dam, with a total volume of approximately 11.5 ML.



Overburden emplacement area.



Active quarry pit facing north, showing the area remediated back to RL 4 metres AHD



Active quarry pit facing south, showing the area remediated back to RL 4 metres AHD Signage indicates the extraction level of RL 4 metres AHD.



Pump used to transfer water between the Main Dam and in-pit dam.



In-pit dam, used for water storage.



The Main Dam discharge point, out of dam.



Rehabilitation on the western boundary of the quarry extraction limit, facing north-east.



Rehabilitation on the western boundary of the quarry extraction limit, facing north-west.



Boundary marker on the western border of the Active Quarry Pit area.



Boundary marker in on the eastern border of the Active Quarry Pit area.



Tertiary crusher and screen, and wedge pits receiving operational runoff from the processing plant. Water is reused in the wet processing plant operation, with excess water pumped to the Main Dam.



Secondary crusher and screen, with water sprays occurring to minimise dust issues.



Liquid storage facilities, located within bunding.



General waste skip bins.



Spill kit and oil storage shed.



Oil storage, located within bunding.



Dangerous goods storage containers.



Wheel wash system at the site exit, with a truck wash area and product stockpiles in the background. Water is recycled back to the Main Dam?



Truck leaving site, with the driver observed to have covered the load prior to leaving the site.

3.2 Compliance with Development Consent SSD-6422

3.2.1 Context to Compliance Assessment

Holcim were granted development consent on 15 July 2015, permitting an increase in production from 265,000 tonnes per annum (tpa) to 500,000 tpa. Holcim advised that whilst the approved production limit has increased, site operations have not increased to reflect the new production limit. As such, there has not been an increase in the potential environmental impacts associated with an increase in production.

The quarry operations are located in an area which is heavily forested to the north-west, west, south and south east. Agricultural operations are located immediately north and east of the quarry. The site is reasonably isolated, with five (5) properties located within approximately 500 metres of the quarry operations and less than ten (10) residential receivers located within one kilometre of the operations. Of the five (5) closest properties, one is located on Holcim-owned land (leased). Due to the distance to sensitive receivers, the potential for adverse impacts associated with environmental issues including noise, water, vibration and air quality is considered to be low.

Further details relating to risks associated with non-conformances are provided in the detailed findings in Appendix A and Appendix B.

3.2.2 Summary of Non-Compliance

The review of compliance with the Development Consent (SSD-6422) identified seven (7) non-compliances and seven (7) administrative non-compliances.

All non-compliances were deemed to represent a low risk. Details of the reasons for the risks ratings are provided in the detailed tables presented in Appendix A.

A summary of non-compliances and administrative non-compliances is detailed in Table 4 and Table 5 below.

Table 4 Summary of Non-Compliances – SSD-6422

Condition	Reason for Non-Compliance	Risk Rating
Condition 7 of Schedule 2	Teven Quarry was noted to have extracted materials below RL 4 metres AHD, generally prior to approval of SSD-6422. A penalty notice was issued to Holcim by DP&E in relation to this non-compliance, with remediation of the affected area having since been completed and the non-compliance closed out with DP&E.	Low
Condition 4 of Schedule 3	Noise monitoring is not undertaken at the quarry. Holcim advised they were awaiting final approval of the EMS following the audit prior to commencing monitoring.	Low
Condition 5 of Schedule 3	Noise monitoring is not undertaken at the quarry. Holcim advised they were awaiting final approval of the EMS following the audit prior to commencing monitoring.	Low
Condition 8 of Schedule 3	Holcim undertook three (3) blasts during November 2015, in excess of the maximum of two (2) blasts per calendar month allowed by SSD-6422.	Low
Condition 11 of Schedule 3	Particulate matter monitoring is not undertaken for the quarry operations. Holcim advised they were awaiting final approval of the EMS following the audit prior to commencing monitoring.	Low
Condition 13 of Schedule 3	Air quality monitoring data is currently limited to data from dust depositional gauges. PM10, TSP and meteorological monitoring were yet to commence at the time of the audit,	Low
Condition 15 of Schedule 3	Teven Quarry does not operate a meteorological station on site or have access to one in the nearby vicinity. A new meteorological station arrived on site for installation during the site inspection.	Low

Table 5 Summary of Administrative Non-Compliances – SSD-6422

Condition	Reason for Non-Compliance	Risk Rating
Condition 2 of Schedule 2	Holcim was generally carrying out operations in accordance with the Conditions of Approval and EPL, however non-compliances and administrative non-compliances were identified during the audit.	Low
Condition 18 of Schedule 2	Annual quarry production data is provided to DP&E but not the Department of Industry Division of Resources and Energy (DRE).	Low
Condition 10(d) of Schedule 3	The BMP does not include the community notification procedure for the blasting schedule.	Low
Condition 12 of Schedule 3	Formal correspondence has not been provided to the tenant on Lot 1 of DP 607332 (the former Murphy residence) in relation to potential health risks as required by Condition 12 of Schedule 3.	Low
Condition 7 of Schedule 5	An incident report for the non-compliance against Condition 7 of Schedule 3 in Table 4 was not submitted to DP&E within seven (7) days of the date of the incident. DP&E issued Holcim a penalty notice and an official caution in relation to non-compliance with Condition 7 of Schedule 2 and Condition 7 of Schedule 5 of SSD-6422. The non-compliance has been closed out with DP&E.	Low
Condition 9 of Schedule 5	The request for approval of the audit team occurred after 15 July 2016 (being within a year of the date of consent for SSD-6422). However, Holcim had progressed the engagement of a suitably qualified, experienced and independent team of experts well in advance of 15 July 2016, including having made a verbal request to DP&E for approval of audit team..	Low
Condition 11 of Schedule 5	A copy of the complaints register is not included on the Teven Quarry website, and a number of documents were uploaded outside the required timeframe. These documents include: AQMP BRMP NMP TMP WMP.	Low

3.3 Compliance with EPL 3293

3.3.1 Summary of Non-Compliance

The review of compliance with the EPL 3292 identified three (3) non-compliances.

Two of the non-compliances were identified as low risk. However, non-compliance with Condition P1.2 was given a medium risk as the water quality sample from the Main Dam may not be representative of water quality from the discharge point, as the discharge point is located at a different level to the main dam and may be subject to stratification. Details of the reasons for the risks ratings are provided in the detailed tables presented in Appendix B.

It is noted that Condition A1.2 of EPL 3293 currently restricts Teven Quarry to producing no more than 265,390 (at 2014, with a growth rate of 1.5 per cent per annum) tonnes of quarry products in a calendar year. The Development Consent permits annual production to 500,000 tonnes in a calendar year.

Holcim advised that they were still liaising with the EPA in relation to a variation of EPL 3293 to ensure consistency with the Development Consent. Following the audit, Holcim confirmed that a draft EPL variation had been prepared by the EPA which Holcim provided comment on 9 September 2016. The EPL variation had not been formalised at the time of writing this report.

A summary of non-compliances and administrative non-compliances is detailed in Table 6 below.

Table 6 Summary of Non-Compliances – EPL 3293

Condition	Reason for Non-Compliance	Risk Rating
P1.2	Water quality samples for discharge from the Main Dam are being taken from the Main Dam and not from the licenced discharge point. It is also noted that the discharge point shown to the auditors during the inspection differs from the location shown on Figure 3.1 of the Water Management Plan and referred to in Condition P1.2 of EPL 3293. The licensed discharge point in the EPL is located further downstream on the eastern border of the project boundary.	Medium
L3.1	Noise monitoring is not undertaken at the quarry. Holcim advised they were awaiting final approval of the EMS following the audit prior to commencing monitoring.	Low
L3.2	Noise monitoring is not undertaken at 144 Stokers Lane, Teven. As detailed in Condition L3.1, Holcim advised they were awaiting final approval of the EMS following the audit prior to commencing monitoring.	Low

3.4 Adequacy of any Strategies/Plan and Programs

The environmental management plans for the site were developed in consultation with relevant agencies. Holcim advised that comments from agencies were included where deemed relevant. The plans are currently with DP&E for approval.

Sub-plans include monitoring requirements to monitor environmental parameters such as water quality, noise and dust generation. Holcim has not implemented these requirements to date and advised that they are awaiting approval of the EMS and sub-plans prior to commencing the monitoring detailed in the plans.

The plans reflect current site operations and subject to approval by DP&E, are considered adequate for the current operations at the site.

Table 7 provides a summary of the key monitoring and management practices on site and improvement opportunities.

Table 7 Status of key monitoring and management

Environmental aspect	Relevant management plan	Implementation	Recommendations
Noise	NMP	<p>Noise monitoring was not undertaken at the quarry. During the site interviews Holcim advised that quarterly 15-minute attended monitoring would commence once final approval of the EMS is provided by DP&E.</p> <p>Without noise monitoring being undertaken there is no means of identifying exceedances and thereby ensuring effective management of operations if an exceedance has occurred.</p>	<p>Recommendation 02: Commence noise monitoring at the locations specified in the Development Consent and EPL as soon as practicable to confirm the quarry is operating in accordance with noise criteria.</p>
Blast overpressure and ground vibration	BMP	<p>Blast monitoring results are reported in the 2015 Annual Review and are publically available on the Holcim website. No exceedances were recorded during the 2015 reporting period.</p> <p>Blast monitoring data indicated three (3) blasts were undertaken in November 2015 (3/11/2015, 11/11/2015 and 30/11/2015). Condition 8 of Schedule 3 of the Development Consent only permits two blasts per month.</p> <p>Teven Quarry provides verbal notification to neighbouring properties prior to undertaking blasting, with a message left and a follow-up call made if the resident is unable to be reached.</p>	<p>Recommendation 03: Develop a blast tracking system/program to ensure that only a maximum of two blasts are undertaken each month.</p>

Environmental aspect	Relevant management plan	Implementation	Recommendations
		While Teven Quarry has indicated verbal notification is provided to neighbouring properties prior to undertaking blasting, the BMP does not provide detail in relation to community notification procedures for the blasting schedule in accordance with Condition 10(d) of Schedule 3 of SSD-6422.	Recommendation 04: Update the BMP to refer to the community notification procedures for the blasting schedule.
Air Quality	AQMP	<p>PM10 monitoring was not undertaken at the quarry. Holcim advised that a PM10 monitor has been obtained for the site and DP&E has approved the proposed location.</p> <p>During the site interviews it was noted that dust depositional monitoring was undertaken in accordance with the requirements of EPL 3293</p>	Recommendation 05: Install the PM10 monitor and commence monitoring as soon as practicable to confirm compliance with the air quality criteria.
Water	WMP	Review of historical monitoring data indicates discharge monitoring is undertaken. However, as detailed in Table 6, discharge water quality samples are taken from within the Main Dam, as opposed to downstream at the licensed discharge point shown on Figure 3.1 of the draft WMP.	Recommendation 13: Ensure discharge water quality samples are taken from the licensed discharge point, or alternatively, liaise with the EPA to change the licensed discharge point to reflect where sampling is undertaken.
		<p>The WMP includes management and mitigation measures to mitigate adverse surface water impact of the Project.</p> <p>Evidence of erosion and/or uncontrolled discharge was observed at some areas of the site including the processing and stockpile areas and the access roads</p>	Recommendation 14: Review sediment controls at the processing and stockpile areas and on access roads and where necessary provide additional controls to manage and reduce the potential for the generation of sediment-laden runoff leaving site.

Environmental aspect	Relevant management plan	Implementation	Recommendations
Rehabilitation	BRMP	The 2015 Annual Review indicated that approximately 0.4 hectares of quarry land had been rehabilitated and 250 trees planted during the 2015 reporting period. The 2015 Annual Review also indicates regular maintenance of rehabilitation areas was undertaken in the form of weeding and mulching activities.	Not applicable.

Note: the recommendation numbering is from the detailed findings provided in Appendix A and Appendix B.

3.5 Auditor's response to matters raised by government agencies

3.5.1 Office of Environment and Heritage

In their letter dated 8 August 2016, OEH noted SSD-6422 requires Holcim to consult with OEH on a range of approval conditions. OEH indicated that the quarry does not impact on sensitive ecological communities, Aboriginal cultural heritage or biodiversity values in the locality and accordingly OEH has no concerns with issues associated with these features. OEH also indicated that there have been no compliance issues or actions associated with the Teven Quarry site.

3.5.2 Ballina Shire Council

No comments were received from the Council for the audit.

3.5.3 Department of Primary Industries (Water)

In their letter dated 12 August 2016, DPI Water noted the following in relation to the completion of the audit:

1. *Do the relevant management plans adequately describe the water licensing requirements under the Water Management Act 2000/Water Act 1912, and compliance with these requirements?*

In relation to licencing requirements, the WMP states "*Holcim Australia does not hold a water licence to take groundwater or surface water*".

2. *Are adequate records kept to enable determination of the volume and source of surface water?*

A Holcim directive in 2015 required each site to understand the requirement for a site water balance, in regard to withdrawal, discharge and consumption as part of Water Management Plan (WMP) preparation. Water management on-site includes the capture of runoff within the quarry pit, which is managed in the pit dam (used for sump storage). Surplus water from the pit dam is pumped to the main silt retention dam (main dam). This water is then used for on-site dust suppression and processing in the infrastructure area, with recycled process water pumped back to the main dam where it can be pumped back to the infrastructure area for use as necessary. The site has also installed water meters on plant to measure water consumption, with on-site staff completing checks on a monthly basis. Groundwater and surface water extraction is not required for the site operations. All process water to date is sourced from site runoff and recycled through the on-site dams. Records of site runoff quantities are not kept for the quarry and are not deemed necessary.

3. *Is the operation capturing and/or harvesting any clean water?*

It was noted during the site interviews that Teven Quarry does not use town water, instead harvesting rainfall from the in-pit dam (23.5 ML capacity) and the main dam (11.5 ML capacity) with a network of connected hoses. This allows for 35 ML of available water.

4. *Has the proponent calculated its harvestable right under the Water Management Act 2000?*

The main dam and in-pit dam provide for a maximum storage capacity of approximately 35 ML, as detailed in the WMP. The quarry water management system is noted to capture approximately 84.7 ML/year of rainfall/runoff from disturbed areas (average year). However, the WMP does not provide an indication of the maximum harvestable storage right for the site operations. A review of harvestable rights was not part of the scope of this audit.

5. *Is the capture of water in excess of the harvestable right?*

A review of harvestable rights was not part of the scope of this audit.

6. *Do any exemptions under the Water Management (General) Regulation 2011 or Harvestable Rights Order (gazetted 31 March 2006) apply to the capture of water?*

A review of harvestable rights was not part of the scope of this audit.

7. *If necessary, does the proponent hold water access licenses in the correct water sources under the relevant water sharing plan (for the take of surface water or alluvial groundwater), or licenses under part 5 of the Water Act 1912 (for the take of groundwater from non-alluvial aquifers), and do they hold sufficient quantity of entitlement under these licenses?*

Refer to item 1 above.

3.5.4 Roads and Maritime Services

In their email dated 25 July 2016, Roads and Maritime referred to their comments on the Teven Quarry EIS, in relation to the preparation of the Drivers Code of Conduct. A Drivers Code of Conduct is provided in the Traffic Management Plan (TMP) for Teven Quarry. Roads and Maritime indicated in their submission on the EIS that the Drivers Code of Conduct should include:

1. *A map of primary haulage routes highlighting critical locations.*

Included on Figure 4.1 of the TMP.

2. *Safety initiatives for trucks travelling through residential areas and school zones.*

The Drivers Code of Conduct in the TMP includes operating controls in relation to travelling through school zone areas, managing interaction with school buses, and bus route schedules.

3. *An induction process for vehicle operators;*

The Drivers Code of Conduct requires all drivers of company-owned heavy vehicles to/from Teven Quarry to undertake an induction prior to the commencement of undertaking transport activities. The induction record was not sighted during the audit.

4. *Format of regular toolbox meetings;*

During the site interviews it was indicated that toolbox meetings are undertaken daily prior to the commencement of on-site operations, from 6.30 am to 7.00 am.

5. *A complaints resolution and disciplinary procedure*

Community consultation, including addressing community complaints, is detailed in Section 6.6 of the TMP.

6. *Any community consultation measures to address peak haulage periods.*

Section 6.6 of the TMP details the requirement to establish a community consultative committee in accordance with Condition 6 of Schedule 5 of SSD-6422 should complaints from the community be received regarding peak haulage periods. In addition, no community complaints have been received in relation to haulage periods.

Section 6.5 of the TMP details the requirement to complete an independent review should a landowner consider Teven Quarry is exceeding transport criteria at their property, with the independent review to be conducted in accordance with Condition 2 of Schedule 4 of SSD-6422. No such correspondence has been received from landowners.

7. *Any impacts on school bus routes.*

The Drivers Code of Conduct for Teven Quarry is contained in the TMP which includes operating controls in relation to travelling through school zone areas, managing interaction with school buses, and bus route schedules.

3.5.5 Environment Protection Authority

Consultation with EPA noted in email and phone correspondence that the EPL for Teven Quarry needs to be updated to ensure consistency with SSD-6422. Other items EPA requested the audit address included:

1. *Appropriate sediment basin management*

The Teven Quarry water management system includes two dams, the main dam and pit dam. Runoff from within the quarry pit is captured in the pit dam (primary siltation storage dam), from which surplus water is pumped to the main dam (silt retention storage dam). Water from the main dam is sampled prior to discharge from site.

Localised erosion was observed along some access tracks and local catchment areas (e.g. processing area, stockpile area, access roads). Measures to prevent this erosion and maintain access tracks could be improved to minimise the potential for erosion.

2. *Dust control*

Teven Quarry had not received any dust complaints during the audit period. Monitoring results indicate no exceedances of the dust deposition criteria. Dust control management and mitigation measures in the form of sprinklers on haul roads and stockpiles and sprays on conveyor belts were effective in minimising dust generation at the time of the inspection.

3. *Sprinklers causing runoff*

Clean water runoff is diverted around disturbed areas using diversion drains, which drain to the cane fields to the east. Operational water runoff was noted to discharge from the main dam via the licensed discharge point to the cane field drain to the east of the site.

Operational sprinklers observed during the inspection were not resulting in the generation of off-site runoff.

4. *Structural integrity of the dams*

Assessing the structural integrity of the dams was outside the scope of this audit.

4. Recommendations

The following recommendations are based on the findings of the audit.

Table 8 Recommendations

Recommendation No.	Approval / EPL condition	Recommendation
01	Condition 18, Schedule 2	Provide annual quarry production data to DRE using the standard form.
02	Conditions 4 and 5, Schedule 3 Condition L3.1 of EPL	Commence noise monitoring at the locations specified in the Development Consent and EPL as soon as practicable to confirm the quarry is operating in accordance with noise criteria.
03	Condition 8, Schedule 3	Develop a blast tracking system/program to ensure that only a maximum of two blasts are undertaken each month.
04	Condition 10, Schedule 3	Update the BMP to refer to the community notification procedures for the blasting schedule.
05	Conditions 11 and 13, Schedule 3	Install the PM10 monitor and commence monitoring as soon as practicable to confirm compliance with the air quality criteria.
06	Condition 12, Schedule 3	Notify the tenant of potential health risks associated with exceedances of particulate matter criteria and their ability to terminate the tenancy agreement, in accordance with Condition 12 of Schedule 3.
07	Condition 15, Schedule 3	Install and monitor from the meteorological station.
08	Condition 22, Schedule 3	Commence discussions with Council in relation to the works required by Condition 22 of Schedule 3 of SSD-6422.
09	Condition 7, Schedule 5	Ensure incidents are notified to the Secretary and any other relevant agencies, in accordance with Condition 7 of Schedule 5.
10	Condition 11, Schedule 5	Provide a copy of the Teven Quarry complaints register on the Holcim website.
11		Provide copies of the approved management plans on the Holcim website following DP&E approval.
12	Condition A1.2 of EPL	Formalise the EPL variation for EPL 3293 with the EPA to ensure consistency with the new Development Consent (SSD-6422).

Recommendation No.	Approval / EPL condition	Recommendation
13	Condition P1.2 of EPL	Ensure discharge water quality samples are taken from the licensed discharge point, or alternatively, liaise with the EPA to change the licensed discharge point to reflect where sampling is undertaken.
14	Condition L1.1 of EPL	Review sediment controls at the processing and stockpile areas and on access roads and where necessary provide additional controls to manage and reduce the potential for the generation of sediment-laden runoff leaving site.
15	Condition O1.1 of EPL	Holcim should investigate waste segregation and recycling opportunities for waste materials at site.

Appendices

Appendix A – Compliance with Conditions of Approval



Appendix A

Table A1 Compliance with the Development Approval requirements

Number	Condition	Compliance	Evidence	Comments
	SCHEDULE 2 - ADMINISTRATIVE CONTROLS			
	<i>OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT</i>			
1	In addition to meeting the specific performance criteria established under this consent, the Applicant shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the development.	Compliant	Site observations	Holcim has demonstrated a high degree of compliance against the conditions of this development consent, as described below. There was no evidence to suggest that Holcim has not implemented all reasonable and feasible measures to prevent and/or minimise material harm to the environment as a result of the project. The controls specified in the Environmental Management Strategy (EMS) and associated sub-plans were implemented and effective. At the time of the audit, production has not increased to the production capacity approved by SSD-6422.
	TERMS OF CONSENT			
2	The Applicant shall carry out the development generally in accordance with the: (a) EIS; (b) Statement of Commitments; and (c) conditions of this consent. <i>Note: The Applicant's Statement of Commitments is reproduced in Appendix 3.</i>	Administrative Non-Compliance	Conditions of Consent and EA sighted.	Holcim has demonstrated a high degree of compliance against the conditions of this development consent, as described below. Holcim was generally carrying out operations in accordance with previous approvals, the EIS and the Conditions of Consent, however a number of non-compliances and administrative non-compliances are detailed in the audit as detailed below. These non-compliances were considered minor in nature as described in this table. At the time of the audit, production had not increased to the production capacity approved by SSD-6422.
3	If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.	Not Triggered	N/A	Not applicable
4	The Applicant shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of: (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent; (b) any reviews, reports or audits undertaken or commissioned by the Department regarding compliance with this consent; or (c) the implementation of any actions or measures contained in these documents.	Compliant	Documentation – Letter of Submission to DP&E, DP&E review letter	Documentation provided by Holcim during the audit indicates the management plans were provided to DP&E within the required timeframe, with subsequent updates to the management plans undertaken reflective of DP&E's review comments. The management plans are with DP&E for approval.
	LAPSING OF CONSENT			
5	If the development has not been physically commenced within 5 years of the date of this consent, then this development consent shall lapse.	Not Triggered	N/A	Not applicable
	LIMITS ON CONSENT			

Number	Condition	Compliance	Evidence	Comments
	Quarrying Operations			
6	The Applicant may carry out quarrying operations on the site until 30 June 2045. <i>Note: Under this consent, the Applicant is required to rehabilitate the site and carry out additional undertakings to the satisfaction of the Secretary. Consequently this consent will continue to apply in all other respects other than the right to conduct quarrying operations until the rehabilitation of the site and those undertakings have been carried out to a satisfactory standard.</i>	Not Triggered	N/A	Not applicable
7	The Applicant shall not extract extractive materials below RL 4 metres AHD.	Non-compliant (Low Risk)	Documentation – Surveyors Report, DP&E Correspondence Site inspection Site interviews	Holcim extracted materials below RL 4 metres AHD, prior to and following approval of SSD-6422. DP&E issued a penalty notice for this non-compliance which has since been addressed and closed out by Holcim. The risk level associated with this non-compliance is considered low for the following reasons: <ul style="list-style-type: none"> The non-compliance has already been brought to the attention of DP&E and a penalty notice issued. No groundwater was intersected as a result of extraction below RL 4 metres AHD. Remediation/backfilling of all extraction areas below RL 4 metres AHD, with the exception of the in-pit dam, was completed in March 2016. An updated survey completed in 19 May 2016, indicating compliance with Condition 7 of Schedule 2 was sighted during the site interviews. As remediation has been undertaken, no recommendations are applicable to this non-compliance.
8	The Applicant shall not extract more than 6.6 million tonnes of quarry products from the site.	Compliant	Documentation – Annual Review	The 2015 Annual Review indicates total production for the 2015 reporting period was 245,845 tonnes. This was the first year of operation since SSD-6422 was approved, so 245,845 tonnes is the total volume of material extracted to date under the SSD-6422 approval.
	Extractive Material Transport			
9	The Applicant shall not:			
	(a) transport more than 500,000 tonnes of quarry products from the site in any calendar year;	Compliant	Documentation – Annual Review	The 2015 Annual Review indicates total production for the 2015 reporting period was 245,845 tonnes.
	(b) accept and recycle more than 10,000 tonnes of clean, surplus concrete in any calendar year; and	Compliant	Documentation – Annual Review	The 2015 Annual Review indicates no concrete waste was received on site during the 2015 reporting period.
	(c) dispatch more than 73 laden trucks from the site per day, averaged over the total number of dispatch days in any calendar month.	Compliant	Documentation – Truck transport data	Review of truck transport data for Teven Quarry from July 2015 to July 2016 indicates average daily truck movements did not exceed 73 laden trucks from the site.
	SURRENDER OF EXISTING DEVELOPMENT CONSENTS			
10	Within 6 months of the date of this consent, or as otherwise agreed by the Secretary, the Applicant shall surrender all existing development consents for the site in accordance with Section 104A of the EP&A Act.	Compliant	Documentation – Landowner's Letter Consenting to Surrender of DA 1995-263, Letter	A signed letter from the registered landowners was sighted dated 17 December 2015, with subsequent notification of the surrender of the existing development consent (DA 1995-263) provided to Council on 21 December 2015.

Number	Condition	Compliance	Evidence	Comments
	<p>Prior to the surrender of such development consents, the conditions of this consent shall prevail to the extent of any inconsistency with the conditions of these consents.</p> <p><i>Note: This requirement does not extend to the surrender of construction and occupation certificates for existing and proposed building works under Part 4A of the EP&A Act. Surrender of a consent should not be understood as implying that works legally constructed under a valid consent can no longer be legally maintained or used.</i></p>		of Surrender of DA 1995-263 to Ballina Shire Council (BSC)	
	STRUCTURAL ADEQUACY			
11	<p>The Applicant shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> • Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works; and • Part 8 of the EP&A Regulation sets out the requirements for the certification of the development or project. 	Not triggered	N/A	Not applicable. No new buildings since approval of SSD-6422.
	DEMOLITION			
12	<p>The Applicant shall ensure that all demolition work is carried out in accordance with <i>Australian Standard AS 2601-2001: The Demolition of Structures</i>, or its latest version.</p>	Not Triggered	N/A	Not applicable. No demolition since approval of SSD-6422.
	PROTECTION OF PUBLIC INFRASTRUCTURE			
14	<p>The Applicant shall:</p> <p>(a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and</p> <p>(b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.</p> <p><i>Note: This condition does not apply to any damage to roads caused as a result of general road usage.</i></p>	Compliant	<p>Site interviews</p> <p>Site inspection</p>	Holcim advised that there has not been any damage to public infrastructure or utilities to date associated with the quarry operations
	OPERATION OF PLANT AND EQUIPMENT			
15	<p>The Applicant shall ensure that all the plant and equipment used at the site is:</p> <p>(a) maintained in a proper and efficient condition; and</p> <p>(b) operated in a proper and efficient manner.</p>	Compliant	<p>Documentation – Daily Pre-Start Checklist, Service Inspection Checklists, Training Plans and Drivers Code of Conduct</p> <p>Site interviews</p> <p>Site inspection</p>	<p>During the site interviews, Holcim advised that each piece of equipment has a Service Inspection Checklist, with samples sighted while on site. In addition, completed daily pre-start checklists were sighted which detailed the start date, operating hours, what machine it was, and provided a checklist of requirements and a comments section from the operator. The Service Inspection Checklists are signed off by the Quarry Manager.</p> <p>Individual workers at the quarry have a Training Plan which is updated on an annual basis, with sign-off by the Quarry Manager and the worker following completion of training.</p> <p>The Drivers Code of Conduct of Teven Quarry details site requirements for managing potential impacts from traffic associated with the haulage of product from the site during operations.</p>
	UPDATING AND STAGING OF STRATEGIES, PLANS OR PROGRAMS			

Number	Condition	Compliance	Evidence	Comments
16	<p>To ensure that strategies, plans and programs required under this consent are updated on a regular basis, and that they incorporate any appropriate additional measures to improve the environmental performance of the development, the Applicant may at any time submit revised strategies, plans or programs for the approval of the Secretary. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis.</p> <p>With the agreement of the Secretary, the Applicant may prepare a revision of or a stage of a strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this consent.</p> <p>Notes:</p> <ul style="list-style-type: none"> While any strategy, plan or program may be submitted on a staged basis, the Applicant will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times. If the submission of any strategy, plan or program is to be staged; then the relevant strategy, plan or program must clearly describe the specific stage/s of the development to which the strategy, plan or program applies; the relationship of this stage/s to any future stages; and the trigger for updating the strategy, plan or program. 	Not Triggered	N/A	Not applicable.
17	Until they are replaced by an equivalent strategy, plan or program approved under this consent, the Applicant shall implement the existing strategies, plans or programs for the site that have been approved under previous consents.	Not verified	Site interviews	<p>Holcim advised that management plans required by SSD-6422 are still subject to final approval by DP&E. The existing site environmental management plan, required by the surrendered Council consent, is used as an interim measure to manage environmental impacts associated with operations.</p> <p>The existing site environmental management plan was not provided by Holcim and compliance with this condition was unable to be verified.</p>
PRODUCTION DATA				
18	The Applicant shall:			
	(a) provide annual quarry production data to DRE using the standard form for that purpose; and	Administrative Non-Compliance	Site interviews	<p>It was noted during the site interview that, while data is reported in the Annual Review, the production data has not been reported to Department of Industry Division of Resources and Energy (DRE) and that this would be followed-up.</p> <p>Recommendation 01: Provide annual quarry production data to DRE using the standard form.</p>
	(b) include a copy of this data in the Annual Review (see condition 4 of Schedule 5).	Compliant	Documentation – Annual Review	Production data for the 2015 reporting period is provided in Section 2.1.3 of the Annual Review.
IDENTIFICATION OF APPROVED EXTRACTION LIMITS				
19	<p>By 31 October 2015, unless otherwise agreed by the Secretary, the Applicant shall:</p> <p>(a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the development area; and</p> <p>(b) submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.</p>	Compliant	<p>Documentation – Submission of Plan to DP&E</p> <p>Survey Plan</p> <p>Site inspection observations</p> <p>Site interviews</p>	<p>The Survey Plan (dated 5 August 2010) prepared by the registered surveyors Newton, Denny and Chappelle was provided to DP&E on 26 October 2015. The updated Survey Plan completed in May 2016 was also sighted.</p> <p>Markers indicating the site boundary were observed during the site inspection.</p>

Number	Condition	Compliance	Evidence	Comments																
20	While quarrying operations are being carried out, the Applicant shall ensure that these boundaries are clearly marked at all times in a manner that allows operating staff to clearly identify the approved limits of extraction.	Compliant	Site inspection observations Site interviews	Markers indicating the site boundary were clearly observed during the site inspection.																
	CONTRIBUTIONS TO COUNCIL																			
21	The Applicant shall pay a contribution of \$0.3501 per tonne of quarry products transported and recycled concrete transported to the site from the site to Ballina Shire Council for the maintenance of the local road network. The contribution shall be paid and indexed in line with the provisions of <i>Ballina Shire Heavy Haulage Contributions Plan 2011</i> or any subsequent relevant contributions plan adopted by Council. <i>Note: If the parties are unable to agree on any aspect of the maintenance contributions, either party may refer the matter to the Secretary for resolution.</i>	Compliant	Documentation – Excel spreadsheet detailing royalty payments	Review of data provided by Holcim indicates Teven Quarry paid approximately \$141,296.00 to Ballina Shire Council during the reporting period at a rate of \$0.36 per tonne of quarry products transported from the site. No recycled concrete was transported to/from the site during the audit period.																
	SCHEDULE 3																			
	ENVIRONMENTAL PERFORMANCE CONDITIONS																			
	NOISE																			
	Hours of Operation																			
1	The Applicant shall comply with the operating hours set out in Table 1. Table 1: Operating Hours <table border="1" data-bbox="311 1060 1320 1543"> <thead> <tr> <th>Activity Permissible Hours</th> <th>Activity Permissible Hours</th> </tr> </thead> <tbody> <tr> <td>Extraction operations</td> <td>7 am to 6 pm Monday to Friday;</td> </tr> <tr> <td>Processing operations</td> <td>7 am to 4pm Saturday; and</td> </tr> <tr> <td>Overburden management</td> <td>At no time on Sundays or public holidays.</td> </tr> <tr> <td>Blasting</td> <td>10 am to 3 pm Monday to Friday; and At no time of Sundays or public holidays.</td> </tr> <tr> <td>Loading and dispatch</td> <td>7 am to 10 pm Monday to Friday;</td> </tr> <tr> <td>Stockpile management</td> <td>7 am to 4 pm Saturdays; and</td> </tr> <tr> <td>Maintenance of plant and equipment</td> <td>At no time on Sundays or public holidays.</td> </tr> </tbody> </table>	Activity Permissible Hours	Activity Permissible Hours	Extraction operations	7 am to 6 pm Monday to Friday;	Processing operations	7 am to 4pm Saturday; and	Overburden management	At no time on Sundays or public holidays.	Blasting	10 am to 3 pm Monday to Friday; and At no time of Sundays or public holidays.	Loading and dispatch	7 am to 10 pm Monday to Friday;	Stockpile management	7 am to 4 pm Saturdays; and	Maintenance of plant and equipment	At no time on Sundays or public holidays.	Compliant	Documentation – Annual Review, Timesheets, Blasting Records Site interviews	During the site inspection blasting records were reviewed, indicating compliance with the permissible hours for blasting. Timesheets were reviewed during the site inspection, indicating the latest workers are on site is 5.30 pm, indicating compliance with permissible hours detailed in Table 1. During the audit Holcim advised that the quarry conducts toolbox talks at a pre-start meeting from 6.30 am to 7.00 am, with boom gates not to be lifted until 7.00 am. In addition, trucks are not permitted to enter the site until after 7.00 am.
Activity Permissible Hours	Activity Permissible Hours																			
Extraction operations	7 am to 6 pm Monday to Friday;																			
Processing operations	7 am to 4pm Saturday; and																			
Overburden management	At no time on Sundays or public holidays.																			
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Loading and dispatch	7 am to 10 pm Monday to Friday;																			
Stockpile management	7 am to 4 pm Saturdays; and																			
Maintenance of plant and equipment	At no time on Sundays or public holidays.																			
2	The Applicant shall ensure that no more than 6 laden trucks per hour are dispatched from the site between 6 pm to 10 pm, Monday to Friday.	Compliant	Documentation – Complaints, Annual Review, Timesheets Site interviews	Holcim advised that the last worker on site finishes at 5.30 pm (verified through sighted timesheets), with no loading and dispatch undertaken between 6.00 to 10.00 pm. Documentation reviewed during the site inspection indicates no more than 6 laden trucks per hour are dispatched from the site between 6 pm to 10 pm, Monday to Friday.																

Number	Condition	Compliance	Evidence	Comments									
3	<p>The following activities may be carried out on the site outside the hours specified in Table 1:</p> <p>(a) delivery or dispatch of materials as requested by Police or other authorities; and</p> <p>(b) emergency work to avoid the loss of lives, property and/or to prevent environmental harm.</p> <p>In such circumstances, the Applicant shall notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.</p>	Not Triggered	Site interviews	During the site interviews it was indicated that this condition has not been triggered.									
	Noise Impact Assessment Criteria												
4	<p>The Applicant shall ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned land.</p> <p>Table 2: Noise Criteria dB(A)</p> <table border="1"> <thead> <tr> <th>Receiver</th> <th>Day dB(A) (LAeq(15 min))</th> <th>Evening dB(A) (LAeq(15 min))</th> </tr> </thead> <tbody> <tr> <td>R3, R4, R13, R15, R16, R17, R18, R20</td> <td>38</td> <td>35</td> </tr> <tr> <td>All other residences</td> <td>37</td> <td>35</td> </tr> </tbody> </table> <p><i>Note: Receiver locations are shown on the figure in Appendix 4.</i></p> <p>Noise generated by the development is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the <i>NSW Industrial Noise Policy</i>. Appendix 5 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.</p> <p>However, the noise criteria in Table 2 do not apply if the Applicant has an agreement with the relevant landowner to exceed the noise criteria, and the Applicant has advised the Department in writing of the terms of this agreement.</p>	Receiver	Day dB(A) (LAeq(15 min))	Evening dB(A) (LAeq(15 min))	R3, R4, R13, R15, R16, R17, R18, R20	38	35	All other residences	37	35	Non-compliant (Low Risk)	Documentation – Annual Review	<p>Holcim have not complied with this condition as noise monitoring is not undertaken for the quarry operations. Holcim advised they were awaiting final approval of the EMS following this audit prior to commencing monitoring.</p> <p>The risk level associated with this non-compliance is considered low for the following reasons:</p> <ul style="list-style-type: none"> There are only two sensitive receivers located within close proximity to the quarry operations, with the closest receiver being a tenant on Holcim-owned land. Holcim advised that there have been no noise complaints associated with the operations. <p>Recommendation 02: Commence noise monitoring at the locations specified in the Development Consent and EPL as soon as practicable to confirm the quarry is operating in accordance with noise criteria.</p>
Receiver	Day dB(A) (LAeq(15 min))	Evening dB(A) (LAeq(15 min))											
R3, R4, R13, R15, R16, R17, R18, R20	38	35											
All other residences	37	35											
	<p>In the event that the studio outbuilding, certified as Complying Development under the provisions of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 by Techton Building Services on 16 April 2015, is constructed on Lot 3 DP 703181, the Applicant shall ensure that the noise generated by the development does not exceed a criterion of 55 dB(A) Leq (period) when measured external to the façade of the outbuilding, when it is in use.</p>	Not Triggered	Site inspection Site interviews	Not applicable. This development has not commenced as yet.									
	Operating Conditions												
5	<p>The Applicant shall:</p> <p>(a) implement best practice management to minimise the operational and road transportation noise of the development;</p> <p>(b) minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 5);</p> <p>(c) carry out noise monitoring (at least every 3 months) to determine whether the development is complying with the relevant conditions of this consent; and</p> <p>(d) regularly assess noise monitoring data and modify and/or stop operations on site to ensure compliance with the relevant conditions of this consent,</p>	Non-compliant (Low Risk)	Documentation – NMP Site interviews	<p>Holcim have not complied with this condition as noise monitoring is not undertaken for the quarry operations. Holcim advised they were awaiting final approval of the EMS following this audit prior to commencing monitoring.</p> <p>The risk level associated with this non-compliance is considered low for the following reasons:</p> <ul style="list-style-type: none"> There are only two sensitive receivers located within close proximity to the quarry operations, with the closest receiver being a tenant on Holcim-owned land. 									

Number	Condition	Compliance	Evidence	Comments											
	to the satisfaction of the Secretary. <i>Note: Required frequency of noise monitoring may be reduced if approved by the Secretary.</i>			<ul style="list-style-type: none"> Holcim advised that there have been no noise complaints associated with the operations. Refer to Recommendation 02 for Condition 4 of Schedule 3.											
	Noise Management Plan														
5	The Applicant shall prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:														
	(a) be prepared in consultation with EPA;	Compliant	Documentation – Letter requesting comment	Sighted letter dated 17 November 2015 requesting EPA comments on the draft NMP, this letter also indicates liaison with the EPA was undertaken 12 October 2015.											
	(b) be submitted to the Secretary within 6 months of the date of this consent, unless otherwise agreed by the Secretary;	Compliant	Documentation - Correspondence	Correspondence dated 24 March 2016 from the Department of Planning and Environment (DP&E) indicates the EMS and associated management plans were submitted on 15 January 2016, within 6 months of the date of consent. The letter submitted by Holcim on 15 January 2016 was also sighted during the audit.											
	(c) describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> compliance with the noise criteria in this consent; best practice management is being employed; and the noise impacts of the development are minimised during meteorological conditions under which the noise criteria in this consent do not apply (see Appendix 5); 	Compliant	Documentation - NMP	Noise control measures were detailed in Section 5.0 of the NMP.											
	(d) describe the proposed noise management system; and	Compliant	Documentation – NMP	Noise management controls were detailed in Section 5.0 of the NMP.											
	(e) include a monitoring program to be implemented to measure noise from the development against the noise criteria in Table 2, and which evaluates and reports on the effectiveness of the noise management system on site.	Compliant	Documentation – NMP	The noise monitoring program is detailed in Section 6.0 of the NMP.											
	BLASTING														
	Blasting Criteria														
7	The Applicant shall ensure that blasting on site does not cause any exceedance of the criteria in Table 3. Table 3: Blasting Criteria <table border="1" data-bbox="311 1480 1320 1816"> <thead> <tr> <th>Receiver</th> <th>Airblast overpressure (dB(Lin Peak))</th> <th>Ground vibration (mm/s)</th> <th>Allowable exceedances</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Any residence on privately-owned land</td> <td>120</td> <td>10</td> <td>0%</td> </tr> <tr> <td>115</td> <td>5</td> <td>5% of the total number of blasts over a period of 12 months</td> </tr> </tbody> </table> However, these criteria do not apply if the Applicant has a written agreement with the relevant owner to exceed the limits in Table 3, and the Applicant has advised the Department in writing of the terms of this agreement.	Receiver	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedances	Any residence on privately-owned land	120	10	0%	115	5	5% of the total number of blasts over a period of 12 months	Compliant	Documentation – Annual Review, Monitoring Data	Blast monitoring results were reported in the 2015 Annual Review and are publically available on the Holcim website (http://www.holcim.com.au/sustainability/environment/pollutionmonitoring-data.html). No exceedances were recorded during the 2015 reporting period.
Receiver	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedances												
Any residence on privately-owned land	120	10	0%												
	115	5	5% of the total number of blasts over a period of 12 months												

Number	Condition	Compliance	Evidence	Comments
	Blasting Frequency			
8	<p>The Applicant may carry out a maximum of 2 blasts per calendar month, unless an additional blast is required following a blast misfire. This condition does not apply to blasts required to ensure the safety of the quarry or workers on site.</p> <p><i>Note: For the purposes of this condition a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the quarry.</i></p>	Non-compliant (Low Risk)	Documentation – Annual Review	<p>Holcim have not complied with this condition as review of the 2015 Annual Review indicated three (3) blasts were undertaken in November 2015 (3/11/2015, 11/11/2015 and 30/11/2015).</p> <p>The risk level associated with this non-compliance is considered low for the following reasons:</p> <ul style="list-style-type: none"> • There are only two sensitive receivers located within close proximity to the quarry operations, one being on Holcim-owned land. • Blasting monitoring was undertaken and was within the assessment criteria. • All other blasting has been in compliance with this condition • Holcim advised that there have been no blasting complaints associated with the operations. <p>Recommendation 03: Develop a blast tracking system/program to ensure that only a maximum of two blasts are undertaken each month.</p>
	Operating Conditions			
9	<p>During blasting operations, the Applicant shall:</p> <p>(a) implement best practice management to:</p> <ul style="list-style-type: none"> • protect the safety of people and livestock in the areas surrounding blasting operations; • protect public or private infrastructure/property in the surrounding area from damage from blasting operations; • minimise the dust and fume emissions of blasting; <p>(b) operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule on site; and</p> <p>(c) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent,</p> <p>to the satisfaction of the Secretary.</p>	Compliant	<p>Documentation – BMP</p> <p>Site interviews</p> <p>Seven Blasting Checklist (dated 26 July 2016)</p>	<p>Holcim advised that nearby neighbours are notified of blasting prior to the completion of the blast, with a checklist sample sighted indicating that neighbour notification was undertaken.</p> <p>Monitoring was noted to have been undertaken, with no exceedances of the applicable criteria during the reporting period.</p> <p>Controls to minimise impacts of blasting were detailed in Section 5.0 of the BMP. Blasting monitoring is detailed in Section 6.0 of the BMP, including a blast fume management protocol in Section 6.2</p> <p>Holcim advised that there have been no complaints with regard to blasting.</p>
	Blast Management Plan			
10	<p>The Applicant shall prepare and implement a Blast Management Plan for the development to the satisfaction of the Secretary. This plan must:</p>			
	(a) be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary;	Compliant	Documentation - Correspondence	Correspondence dated 24 March 2016 from the Department of Planning and Environment (DP&E) indicates the EMS and associated management plans were submitted on 15 January 2016, within 6 months of the date of consent. The letter submitted by Holcim on 15 January 2016 was also sighted during the audit. Holcim are awaiting DP&E approval of the plan.
	(b) describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this consent;	Compliant	Documentation – BMP	Blast management controls are detailed in Section 5 of the BMP.
	(c) include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent;	Compliant	Documentation – BMP	Blast monitoring protocol is detailed in Section 6 of the BMP.

Number	Condition	Compliance	Evidence	Comments															
	(d) include community notification procedures for the blasting schedule; and	Administrative Non-Compliance	Documentation – BMP	While Section 7.1 details the requirement to publish blast monitoring results on the Holcim website, the BMP does not include reference to community notification procedures for the blasting schedule. The Environmental and Community Enquiries phone number (02 6687 8566) was sighted on the Holcim website and the signage at the quarry entrance indicates the applicable contact details. Recommendation 04: Update the BMP to refer to the community notification procedures for the blasting schedule.															
	(e) include a protocol for investigating and responding to complaints	Compliant	Documentation – BMP	Section 7.2 of the BMP indicates complaints will be handled in accordance with the procedure detailed in the EMS.															
	AIR QUALITY																		
	Air Quality Impact Assessment Criteria																		
11	<p>The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 4 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>Particulate matter < 10 µm (PM10)</td> <td>Annual</td> <td>^{a,d} 30 µg/m³</td> </tr> <tr> <td>Particulate matter < 10 µm (PM10)</td> <td>24 hour</td> <td>^b 50 µg/m³</td> </tr> <tr> <td>Total suspended particulates (TSP)</td> <td>Annual</td> <td>^{a,d} 90 µg/m³</td> </tr> <tr> <td>^c Deposited Dust</td> <td>Annual</td> <td>^b 2 g/m²/month ^{a,d} 4 g/m²/month</td> </tr> </tbody> </table> <p>Notes for Table 4:</p> <p>a. Cumulative impact (ie increase in concentrations due to the development plus background concentrations due to all other sources).</p> <p>b. Incremental impact (ie incremental increase in concentrations due to the development on its own, with zero allowable exceedances of the criteria over the life of the development).</p> <p>c. Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.</p> <p>d. Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, or any other activity agreed to by the Secretary.</p> <p>e. "Reasonable and feasible avoidance and mitigation measures" includes, but is not limited to, the operational requirements in conditions 12 and 13 to develop and implement a air quality management system that ensures operational responses to the risks of exceedance of the criteria.</p>	Pollutant	Averaging Period	Criterion	Particulate matter < 10 µm (PM10)	Annual	^{a,d} 30 µg/m ³	Particulate matter < 10 µm (PM10)	24 hour	^b 50 µg/m ³	Total suspended particulates (TSP)	Annual	^{a,d} 90 µg/m ³	^c Deposited Dust	Annual	^b 2 g/m ² /month ^{a,d} 4 g/m ² /month	Non-Compliant (Low Risk)	Documentation- AQMP and Annual Review Site interviews	<p>Holcim have not complied with this condition as particulate matter monitoring is not undertaken for the quarry operations. Holcim advised they were awaiting final approval of the EMS following this audit prior to commencing monitoring.</p> <p>The risk level associated with this non-compliance is considered low for the following reasons:</p> <ul style="list-style-type: none"> • There are only two sensitive receivers located within close proximity to the quarry operations, one being on Holcim-owned land. • Depositional dust monitoring is undertaken and is within the assessment criteria. • Holcim advised that a PM10 monitor has been purchased for installation on site, with DP&E having approved the location of the PM10 monitor, • Holcim advised that there have been no air quality complaints associated with the operations. <p>Recommendation 05: Install the PM10 monitor and commence monitoring as soon as practicable to confirm compliance with the air quality criteria.</p>
Pollutant	Averaging Period	Criterion																	
Particulate matter < 10 µm (PM10)	Annual	^{a,d} 30 µg/m ³																	
Particulate matter < 10 µm (PM10)	24 hour	^b 50 µg/m ³																	
Total suspended particulates (TSP)	Annual	^{a,d} 90 µg/m ³																	
^c Deposited Dust	Annual	^b 2 g/m ² /month ^{a,d} 4 g/m ² /month																	

Number	Condition	Compliance	Evidence	Comments
	Quarry-owned Land			
12	<p>The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 4 at any occupied residence on quarry-owned land unless:</p> <p>(a) the tenant has been notified of any health risks associated with such exceedances in accordance with the notification requirements under schedule 4 of this consent; and</p> <p>(b) the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice; to the satisfaction of the Secretary.</p>	Administrative non-compliance	Site interviews	<p>Holcim advised that there is one tenant occupying a property on Holcim-owned land. The land was purchased from the tenant by Holcim in 2015, with the former landowner staying on as a tenant following transfer of ownership. Holcim advised the tenant has not been advised of the health risks or their ability to terminate the tenancy agreement.</p> <p>Recommendation 06: Notify the tenant of potential health risks associated with exceedances of particulate matter criteria and their ability to terminate the tenancy agreement, in accordance with Condition 12 of Schedule 3.</p>
	Operating Conditions			
13	<p>The Applicant shall:</p> <p>(a) implement best practice management to minimise the dust emissions of the development;</p> <p>(b) regularly assess meteorological and air quality monitoring data and relocate, modify and/or stop operations on site to ensure compliance with the air quality criteria in this consent;</p> <p>(c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d under Table 4);</p> <p>(d) monitor and report on compliance with the relevant air quality conditions in this consent; and</p> <p>(e) minimise the area of surface disturbance and undertake progressive rehabilitation of the site, to the satisfaction of the Secretary.</p>	Non-compliant (Low Risk)	<p>Site inspection</p> <p>Site interviews</p> <p>Documentation – AQMP</p>	<p>Refer to Condition 11 for explanation of non-compliance</p> <p>Air quality monitoring data is currently limited to data from dust depositional gauges. Holcim advised that there have been no exceedances of the air quality criteria for dust to date, which was verified by review of monitoring results.</p> <p>During the site interviews, Holcim advised that the project operates a number of controls to management air quality impacts resulting from the project, including:</p> <ul style="list-style-type: none"> Automatic timed dust suppression sprinkler system along the haul road Water truck operated on-site. Area of exposed surface is kept at a minimal to what is necessary for operation at the time, to avoid potential for off-site dust impacts. Dust sprays installed on the plant to mitigate dust impacts. <p>A meteorological station has been purchased and will be installed as soon as practicable (the new station arrived on the day of the site inspection). Refer to Condition 15 below.</p> <p>Section 6.1 of the AQMP details the controls during unsuitable meteorological conditions (e.g. high winds).</p> <p>Holcim advised that they have also investigated the purchase of a misting spray system for installation on-site.</p>
	Air Quality Management Plan			
14	<p>The Applicant shall prepare and implement an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must:</p> <p>(a) be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agree by the Secretary;</p> <p>(b) describe the measures that would be implemented to ensure:</p>	Compliant	Documentation - Correspondence	<p>Correspondence dated 24 March 2016 from the Department of Planning and Environment (DP&E) indicates the EMS and associated management plans were submitted on 15 January 2016, within 6 months of the date of consent. The letter submitted by Holcim on 15 January 2016 was also sighted during the audit. Holcim are awaiting DP&E approval of the plan.</p>
		Compliant	Documentation – AQMP	Air quality management measures are detailed in Section 6 of the AQMP.

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> compliance with the relevant conditions of this consent; best practice management is being employed; and the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events; 			
	(c) describe the proposed air quality management system;	Compliant	Documentation – AQMP	Air quality management measures are detailed in Section 6 of the AQMP.
	(d) include an air quality monitoring program that: <ul style="list-style-type: none"> is capable of evaluating the performance of the development; includes a protocol for determining any exceedances of the relevant conditions of consent; effectively supports the air quality management system; and evaluates and reports on the adequacy of the air quality management system. 	Compliant	Documentation – AQMP	The air quality monitoring program is detailed in Section 5 of the AQMP.
	Meteorological Monitoring			
15	For the life of the development, the Applicant shall ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline.	Non-compliant (Low Risk)	Site interviews Site inspection	<p>Holcim have not complied with this Condition as the Teven Quarry does not operate a meteorological station on site or have access to one in the nearby vicinity. A meteorological station has been purchased and arrived on-site during the site inspection; however, the meteorological station had not been installed at the time of the site inspection.</p> <p>The non-compliance is considered low risk as:</p> <ul style="list-style-type: none"> There are few sensitive receivers within close proximity to the quarry. Air and noise impacts were being managed. <p>Recommendation 07: Install and monitor from the meteorological station.</p>
	Greenhouse Gas Emissions			
16	The Applicant shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.	Compliant	Documentation – NGERs, NPI Site interviews	<p>Measures to minimise the release of greenhouse gas emissions from the site were noted during the site inspection to include minimising truck movements on-site, and the installation of turbo-timers in on-site equipment to ensure vehicles are not left idling.</p> <p>During the site interviews it was indicated that NPI data is reported annually and completion of NGERs, with samples of these documents provided following the site inspection.</p>
	SOIL AND WATER			
	<i>Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development, including in respect of the extraction and/or interception of groundwater.</i>	Compliant	Site interviews	During the site interviews it was noted that extraction and/or interception of groundwater is not undertaken on site, with no groundwater wells installed on-site.
	Water Supply			
17	The Applicant shall ensure that it has sufficient water for all stages of the development and, if necessary, adjust the scale of operations under the consent to match its available water supply, to the satisfaction of the Secretary.	Compliant	Site interviews	During the site interviews it was indicated that water is pumped to the pit sump from the main dam, which collects surface runoff. It was indicated that the quarry does not import water, with the site not having run out of water during the audit period.

Number	Condition	Compliance	Evidence	Comments
	Water Discharges			
18	The Applicant shall comply with the discharge limits in any EPL, or with section 120 of the POEO Act.	Compliant	Site interviews Documentation – Annual Review	Review of the 2015 Annual Review indicates discharge was undertaken throughout the reporting period, in accordance with the EPL requirements. No exceedance was recorded.
	Groundwater			
19	In the event that groundwater in excess of negligible quantities is intersected during extraction activities, the Applicant shall undertake a hydrogeological investigation, in consultation with NOW, to the satisfaction of the Secretary. The investigation must report on groundwater sources, levels, yield and quality; identify any risks to groundwater users or groundwater dependent ecosystems and propose recommended management measures. The Applicant must implement reasonable and feasible management measures to the satisfaction of the Secretary.	Not Triggered	N/A	Not applicable. Groundwater has not been encountered on-site during the audit period.
	Water Management Plan			
20	The Applicant shall prepare and implement a Water Management Plan for the development to the satisfaction of the Secretary. This plan must:			
	(a) be prepared by suitably qualified and experienced person/s approved by the Secretary;			
	(b) be prepared in consultation with the EPA and NOW;	Compliant	Documentation – Letter requesting comment	Correspondence from DPI Water dated 15 December 2015 indicates consultation with DPI Water was undertaken during the preparation of the WMP, with comment noted to have been requested 17 November 2015 from DPI Water and the EPA. In addition, correspondence dated 12 October 2015 was sighted requesting DPI Water's and the EPA's input in relation to requirements for the structure and content of the WMP.
	(c) be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary;	Compliant	Documentation - Correspondence	Correspondence dated 24 March 2016 from the Department of Planning and Environment (DP&E) indicates the EMS and associated management plans were submitted on 15 January 2016, within 6 months of the date of consent. The letter submitted by Holcim on 15 January 2016 was also sighted during the audit. Holcim are awaiting DP&E approval of the plan.
	(d) include a:			
	(i) Site Water Balance that includes: <ul style="list-style-type: none"> details of: <ul style="list-style-type: none"> sources and security of water supply; water use and management on site; any off-site water transfers; reporting procedures; and measures that would be implemented to minimise clean water use on site; and 	Compliant	Documentation – WMP	A site water balance is included in Section 5 of the WMP.
	(ii) Surface Water Management Plan, that includes: <ul style="list-style-type: none"> detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the development; 	Compliant	Documentation – WMP	This information is provided in Section 3.1 of the WMP.

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> a detailed description of the surface water management system on site including the: <ul style="list-style-type: none"> clean water diversion system; erosion and sediment controls; dirty water management system; and water storages; and 	Compliant	Documentation – WMP	This information is provided in Sections 3.2 and 4 of the WMP.
	<ul style="list-style-type: none"> a program to monitor and report on: <ul style="list-style-type: none"> any surface water discharges; the effectiveness of the water management system; and surface water flows and quality in local watercourses; 	Compliant	Documentation – WMP	<p>The surface water monitoring program is detailed in Section 6 of the WMP.</p> <p>Water balance monitoring detailed in Section 5.4 of the WMP.</p> <p>The trigger, action, response plan (TARP) for identification of potential impacts on surface water and the unforeseen impacts protocol are detailed in Sections 7.1 and 7.2 of the WMP respectively.</p> <p>The reporting requirements are detailed in Section 8 of the WMP.</p>
	TRANSPORT			
	Transport Routes			
21	<p>All heavy vehicles leaving and entering the site shall travel via Teven Road between Stokers Lane and the Bruxner Highway, except:</p> <p>(a) when making local deliveries;</p> <p>(b) when transport via the Bruxner Highway is affected due to road closures; or</p> <p>(c) in an emergency to avoid the loss of lives, property and/or to prevent environmental harm.</p>	Compliant	<p>Documentation – TMP</p> <p>Site interviews</p>	<p>During the site interviews it was noted that trucks only turn left onto Teven Road if accessing local areas like Alstonville, with all other vehicles turning right.</p> <p>Figure 4.1 of the TMP for the site includes a figure detailing the applicable primary transport route and the local delivery route.</p>
22	<p>The Applicant shall provide and/or maintain:</p> <p>(a) centre-line markings on Teven Road between Stokers Lane and Bruxner Highway;</p> <p>(b) a guard-rail on Teven Road at its intersection with Stokers Lane;</p> <p>(c) reflectors on the guard-rail fencing at the intersections of Stokers Lane and Wellers Road with Teven Road; and</p> <p>(d) intersection and truck warning signage on Teven Road near its intersection with Stokers Lane,</p> <p>to the satisfaction of Council.</p> <p>Works on Teven Road or Stokers Lane must not take place unless the Applicant has the prior approval of Council.</p>	Observation	<p>Site interviews</p> <p>Site inspection</p>	<p>Holcim advised that this condition has not been progressed. As the condition does not detail an applicable date for which these works need to be undertaken, an observation has been assigned to this condition with the recommendation provided below.</p> <p>Recommendation 08: Commence discussions with Council in relation to the works required by Condition 22 of Schedule 3 of SSD-6422.</p>
	Monitoring of Product Transport			
23	<p>The Applicant shall keep accurate records of all laden truck movements to and from the site (hourly, daily, weekly, monthly and annually) and publish a summary of records on its website every 6 months.</p>	Compliant	<p>Site interviews</p> <p>Site inspection</p> <p>Documentation – Product transport records</p>	<p>Product transport records were provided and reviewed prior to the site inspection, with these results shown to the auditors on-site during the site interviews.</p> <p>Truck movement data for July 2015 to April 2016 was sighted on the Holcim website during the the audit.</p>

Number	Condition	Compliance	Evidence	Comments
	Operating Conditions			
24	The Applicant shall ensure that:			
	(a) all company owned trucks associated with the quarry have appropriate signage, so they be easily identified by road users;	Compliant	Site interviews Site inspection	Holcim trucks have appropriate signage to indicate they are company owned
	(b) all laden trucks entering or exiting the site have their loads covered;	Compliant	Site inspection	During the site inspection, trucks entering and exiting the site had their loads covered.
	(c) all laden trucks existing the site are cleaned of materials that may fall on the road, before leaving the site; and	Compliant	Site interviews Site inspection	Trucks were observed using the wash bay prior to accessing the wheel wash and weighbridge.
	(d) no trucks queue at the entrance to the quarry before 6.45 am.	Compliant	Site interviews	During the audit interviews, Holcim advised while trucks arrive on occasion prior to 7.00 am, they are unlikely to arrive prior to 6.45 am. No complaints have been received in relation to trucks arriving at the quarry prior to 6.45 am. Regardless of this condition being compliant, the recommendation below has been provided to ensure ongoing compliance.
	Transport Management Plan			
25	The Applicant shall prepare and implement a Transport Management Plan for the development to the satisfaction of the Secretary. This plan must:			
	(a) be prepared in consultation with RMS and Council and submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary;	Compliant	Documentation – Letter requesting comment, Letter of satisfaction, DP&E correspondence	Correspondence from Roads and Maritime Services (Roads and Maritime) dated 10 December 2015 indicates they were satisfied with the TMP. Correspondence to Ballina Shire Council (BSC) dated 13 October 2015 was sighted requesting BSC's input in relation to requirements for the structure and content of the TMP. Correspondence dated 24 March 2016 from the Department of Planning and Environment (DP&E) indicates the EMS and associated management plans were submitted on 15 January 2016, within 6 months of the date of consent. The letter submitted by Holcim on 15 January 2016 was also sighted during the audit. Holcim are awaiting DP&E approval of the plan.
	(b) provide a clear description of the primary and secondary transport routes and the circumstances during which the secondary transport route is to be utilised;	Compliant	Documentation – TMP	Primary and secondary transport routes, and the circumstances in which the secondary transport route is to be utilised is discussed in Section 5.1 of the TMP.
	(c) include a Drivers' Code of Conduct that details the safe and quiet driving practices that must be used by drivers transporting products to and from the quarry, particular having regard to school bus routes and the location of residential properties; and	Compliant	Documentation – TMP	A Driver's Code of Conduct, compliant with this requirement, is provided in Section 5.4 of the TMP.
	(d) describe the measures that would be put in place to ensure compliance with the Drivers' Code of Conduct.	Compliant	Documentation – TMP	Compliance with the Driver's Code of Conduct is detailed in Sections 5.2 and 5.4, assessed regularly by supervisory/senior management personnel.
	ABORIGINAL HERITAGE			

Number	Condition	Compliance	Evidence	Comments										
26	<p>If any item or object of Aboriginal heritage significance is identified on site, the Applicant shall ensure that:</p> <p>(a) all work in the immediate vicinity of the suspected Aboriginal item or object ceases immediately;</p> <p>(b) a 10 m buffer area around the suspected item or object is cordoned off with high visibility flagging tape, or the like; and</p> <p>(c) the OEH is contacted immediately.</p> <p>Work in the vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the <i>National Parks and Wildlife Act 1974</i>.</p>	Not Triggered	N/A	Not applicable. No items or objects of potential Aboriginal heritage significance have been identified on-site.										
	BIODIVERSITY AND REHABILITATION													
	Biodiversity and Rehabilitation Objectives													
27	<p>The Applicant shall rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the rehabilitation strategy in the EIS and the conceptual final landform in Appendix 2, and must comply with the objectives in Table 5.</p> <p>Table 5: Biodiversity and Rehabilitation Objectives</p> <table border="1"> <thead> <tr> <th>Feature Objective</th> <th>Feature Objective</th> </tr> </thead> <tbody> <tr> <td>Site (as a whole)</td> <td> <ul style="list-style-type: none"> Safe, stable and non-polluting Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land Restored with native, endemic vegetation </td> </tr> <tr> <td>Surface infrastructure</td> <td> <ul style="list-style-type: none"> Decommissioned and removed, unless the Secretary agrees otherwise </td> </tr> <tr> <td>Quarry benches</td> <td> <ul style="list-style-type: none"> Landscaped and vegetated using native tree and understorey species </td> </tr> <tr> <td>Quarry pit floor</td> <td> <ul style="list-style-type: none"> Landscaped and revegetated using native tree and understorey species, above the final anticipated void water level </td> </tr> </tbody> </table>	Feature Objective	Feature Objective	Site (as a whole)	<ul style="list-style-type: none"> Safe, stable and non-polluting Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land Restored with native, endemic vegetation 	Surface infrastructure	<ul style="list-style-type: none"> Decommissioned and removed, unless the Secretary agrees otherwise 	Quarry benches	<ul style="list-style-type: none"> Landscaped and vegetated using native tree and understorey species 	Quarry pit floor	<ul style="list-style-type: none"> Landscaped and revegetated using native tree and understorey species, above the final anticipated void water level 	Not Triggered	<p>Documentation – BRMP</p> <p>Site interviews</p>	<p>Progressive rehabilitation has commenced on site, however this Condition relates to end of life rehabilitation. A Biodiversity and Rehabilitation Management Plan (BRMP) has been developed for the quarry.</p> <p>It is noted that:</p> <ul style="list-style-type: none"> Chapter 4 of the BRMP identifies the features and objectives identified in Table 5 of the Project Approval. Section 7.1 includes a range of short, medium and long term measures to meet these objectives. <p>It is noted that areas below 4m AHD were rehabilitated following receipt of the DP&E penalty notice.</p>
Feature Objective	Feature Objective													
Site (as a whole)	<ul style="list-style-type: none"> Safe, stable and non-polluting Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land Restored with native, endemic vegetation 													
Surface infrastructure	<ul style="list-style-type: none"> Decommissioned and removed, unless the Secretary agrees otherwise 													
Quarry benches	<ul style="list-style-type: none"> Landscaped and vegetated using native tree and understorey species 													
Quarry pit floor	<ul style="list-style-type: none"> Landscaped and revegetated using native tree and understorey species, above the final anticipated void water level 													
	Progressive Rehabilitation													
28	<p>The Applicant shall rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active and which are not ready for final rehabilitation.</p> <p><i>Note: It is accepted that parts of the site that are progressively rehabilitated may be subject to further disturbance in future.</i></p>	Compliant	<p>Documentation – Annual Review</p> <p>Site inspection</p>	<p>The 2015 Annual Review notes progressive rehabilitation of 0.4 hectares of quarry land and planting of 250 trees during the reporting period, with regular maintenance undertaken (including weeding and mulching activities).</p> <p>Evidence of progressive rehabilitation was sighted during the site inspection.</p>										
	Biodiversity and Rehabilitation Management Plan													

Number	Condition	Compliance	Evidence	Comments
29	The Applicant shall prepare and implement a Biodiversity and Rehabilitation Management Plan for the site to the satisfaction of the Secretary. This plan must:			
	(a) be prepared in consultation with OEH, and be submitted to the Secretary for approval within 6 months of the date of this consent, unless the Secretary agrees otherwise;	Compliant	Documentation – Correspondence	Correspondence with the Office of Environment and Heritage (OEH) dated 16 October 2015 was sighted requesting OEH's input in relation to requirements for the structure and content of the BRMP. It is noted Section 2.3 of the BRMP notes the OEH is yet to provide a response to the request for input. Correspondence dated 24 March 2016 from the Department of Planning and Environment (DP&E) indicates the EMS and associated management plans were submitted on 15 January 2016, within 6 months of the date of consent. The letter submitted by Holcim on 15 January 2016 was also sighted during the audit. Holcim are awaiting DP&E approval of the plan.
	(b) provide details of the conceptual final landform and associated land uses for the site;	Compliant	Documentation – BRMP	The proposed final land use for the site is detailed in Section 4.3 of the BRMP. The conceptual final landform for the site is detailed in Section 6.6 of the BRMP.
	(c) describe how the management of biodiversity would be integrated with the overall rehabilitation of the site;	Compliant	Documentation – BRMP	The integration of rehabilitation and management of biodiversity on site is detailed in Section 4.4 of the BRMP.
	(d) include detailed performance and completion criteria for evaluating the performance of the biodiversity management measures and rehabilitation of the site, including triggers for any necessary remedial action;	Compliant	Documentation – BRMP	Performance and completion criteria for evaluating the performance of biodiversity management measures and rehabilitation on site is detailed in Section 8.2 of the BRMP.
	(e) describe the short, medium and long-term measures that would be implemented to: <ul style="list-style-type: none"> protect and enhance the remnant vegetation and habitat on the site; ensure compliance with the biodiversity and rehabilitation objectives, and the progressive rehabilitation obligations in this consent; 	Compliant	Documentation – BRMP	The short, medium and long-term measures that would be implemented are detailed in Section 7.1 of the BRMP.
	(f) include a detailed description of the measures that would be implemented over the next 3 years (to be updated for each 3 year period following initial approval of the plan) including the procedures to be implemented for: <ul style="list-style-type: none"> maximising the salvage of environmental resources within the approved disturbance area, including tree hollows, vegetative and soil resources, for beneficial reuse in site; restoring and enhancing the quality of native vegetation and fauna habitat on site through assisted natural regeneration, targeted vegetation establishment and the introduction of fauna habitat features; protecting vegetation and fauna habitat outside the approved disturbance area on-site; minimising the impacts on native fauna, including undertaking pre-clearance surveys; establishing vegetation screening to minimise the visual impacts of the site on surrounding receivers; ensuring minimal environmental consequences for threatened species, populations and habitats; collecting and propagating seed; controlling weeds and feral pests; 	Compliant	Documentation – BRMP	The description of measures to be implemented over the next 3 years is detailed in Section 7.2 of the BRMP, with reference to further information being contained in Sections 5.2 to 5.5, 5.9, 6.0 and 8.0 of the BRMP.

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> controlling erosion; controlling access; and managing bushfire risk; 			
	(g) include a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria;	Compliant	Documentation – BRMP	A program to monitor the effectiveness of the measures in Condition 29(f) are detailed in Sections 8.1 and 8.2 of the BRMP.
	(h) identify the potential risks to the successful implementation of the plan and include a description of the contingency measures that would be implemented to mitigate these risks; and	Compliant	Documentation – BRMP	Risks to the successful implementation of the BRMP and contingency measures to be implemented to mitigate these risks are detailed in Section 8.3 of the BRMP.
	(i) include details of who would be responsible for monitoring, reviewing, and implementing the plan.	Compliant	Documentation – BRMP	Roles and responsibilities for the implementation of the BRMP are detailed in Section 12 of the BRMP.
	Conservation and Rehabilitation Bond			
30	<p>Within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan, the Applicant shall lodge a Conservation and Rehabilitation Bond with the Department to ensure that the management of biodiversity and the rehabilitation of the site are implemented in accordance with the performance and completion criteria set out in the Biodiversity and Rehabilitation Management Plan. The sum of the bond shall be determined by:</p> <p>(a) calculating the cost of rehabilitating the site taking into account the likely surface disturbance over the next 3 years of quarrying operations; and</p> <p>(b) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs,</p> <p>to the satisfaction of the Secretary.</p> <p><i>Note: If the rehabilitation of the site is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site is not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works.</i></p>	Not Triggered	N/A	Not applicable – The BRMP is still subject to DP&E approval and as such 6 months has not been reached.
31	<p>Within 3 months of each Independent Environmental Audit (see condition 8 of Schedule 5), the Applicant shall review, and if necessary revise, the sum of the Conservation and Rehabilitation Bond to the satisfaction of the Secretary. This review must consider the:</p> <p>(a) effects of inflation;</p> <p>(b) likely cost of rehabilitating the site (taking into account the likely surface disturbance over the next 3 years of the development); and</p> <p>(c) performance of the implementation of the rehabilitation of the site to date.</p>	Not Triggered	N/A	Not Applicable to this audit
	VISUAL IMPACTS			
32	The Applicant shall implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development to the satisfaction of the Secretary.	Compliant	Site interviews Site inspection	During the site interviews, it was indicated that no external lighting is on site with the exception of emergency lights on the plant. In addition, tree plantings were undertaken on the western boundary to provide a visual buffer for the quarry for surrounding receivers.
	WASTE			
33	The Applicant shall:	Compliant	Site interviews	During the site interviews it was indicated that the site has an on-site septic tank, while general waste and waste oil are collected by Richmond

Number	Condition	Compliance	Evidence	Comments
	<p>(a) manage on-site sewage treatment and disposal in accordance with the requirements of its EPL, and to the satisfaction of the EPA and Council;</p> <p>(b) minimise the waste generated by the development;</p> <p>(c) ensure that the waste generated by the development is appropriately stored, handled and disposed of; and</p> <p>(d) report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.</p>		Documentation – Waste collection docket, Annual Review	<p>Waste and Summerland Environmental respectively; with waste collection docket sighted verifying this.</p> <p>Waste quantities are reported in Section 3.8 of the 2015 Annual Review.</p>
	LIQUID STORAGE			
34	The Applicant shall ensure that all liquid tanks and similar storage facilities (other than for water) are protected by appropriate bunding, which must exceed 110% of the stored volume of the liquid.	Compliant	Site inspection Site interviews	During the site inspection liquid storage facilities were sighted and located within appropriately bunded areas.
	DANGEROUS GOODS			
35	The Applicant shall ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant <i>Australian Standards</i> , particularly AS1940 and AS1596, and the <i>Dangerous Goods Code</i> .	Compliant	Site inspection Site interviews	During the site inspection containers containing dangerous goods were noted to be on-site and appropriately stored.
	BUSHFIRE			
36	<p>The Applicant shall:</p> <p>(a) ensure that the development is suitably equipped to respond to any fires on site; and</p> <p>(b) assist the NSW Rural Fire Service and emergency services as much as possible if there is a fire in the vicinity of the site.</p>	Compliant	Site interviews Site inspection	During the site interviews it was indicated that water trucks are on site and there is an on-site water source available to respond to fires on site and in the vicinity of the site.
	SCHEDULE 4			
	ADDITIONAL PROCEDURES			
	NOTIFICATION OF LANDOWNERS			
1	<p>As soon as practicable after obtaining monitoring results showing:</p> <p>(a) an exceedance of any relevant criteria in Schedule 3, the Applicant shall notify the affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and</p> <p>(b) an exceedance of any relevant air quality criteria in Schedule 3, the Applicant shall send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned).</p>	Not Triggered	N/A	Not applicable. No exceedances occurred during the audit period.
	INDEPENDENT REVIEW			
2	If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.	Not Triggered	N/A	Not applicable. No requests for an independent review have been made in relation to Teven Quarry.
3	If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision the Applicant shall:	Not Triggered	N/A	Not applicable. No requests for an independent review have been made in relation to Teven Quarry.

Number	Condition	Compliance	Evidence	Comments
	<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"> consult with the landowner to determine his/her concerns; conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and if the development is not complying with these criteria then identify measures that could be implemented to ensure compliance with the relevant criteria; and <p>give the Secretary and landowner a copy of the independent review.</p>			
	SCHEDULE 5			
	ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING			
	ENVIRONMENTAL MANAGEMENT			
	Environmental Management Strategy			
1	The Applicant shall prepare and implement an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:			
	(a) be submitted to the Secretary for approval within 6 months of the date of this consent;	Compliant	Documentation - Correspondence	Correspondence dated 24 March 2016 from the Department of Planning and Environment (DP&E) indicates the EMS and associated management plans were submitted on 15 January 2016, within 6 months of the date of consent. Holcim are awaiting DP&E approval of the plan.
	(b) provide the strategic framework for the environmental management of the development;	Compliant	Documentation – EMS	The strategic framework for environmental management on site is detailed in Section 2 of the EMS.
	(c) identify the statutory approvals that apply to the development;	Compliant	Documentation – EMS	Statutory requirements, including approvals, are detailed in Section 3.2 of the EMS.
	(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;	Compliant	Documentation – EMS	Roles and responsibilities are detailed in Section 4.1 of the EMS.
	<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 development; receive, record, handle and respond to complaints; resolve any disputes that may arise during the course of the development; respond to any non-compliance; respond to emergencies; and 	Compliant	Documentation – EMS	<p>Section 4.3.2 of the EMS.</p> <p>Section 4.4 of the EMS.</p> <p>Section 4.4.2 of the EMS.</p> <p>Section 5.2 of the EMS.</p> <p>Section 4.8 of the EMS.</p>
	<p>(f) include:</p> <ul style="list-style-type: none"> copies of any strategies, plans and programs approved under the conditions of this consent; and a clear plan depicting all the monitoring to be carried out under the conditions of this consent. 	Compliant	Documentation – EMS	<p>Appendix A of the EMS.</p> <p>Section 5.1 of the</p>

Number	Condition	Compliance	Evidence	Comments
	Management Plan Requirements			
2	The Applicant shall ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:.			
	(a) detailed baseline data;	Compliant	Documentation – Management Plans	NMP – Section 3.0 BMP – Section 3.0 AQMP – Section 3.0 WMP – Section 3.1 TMP – Section 3.0 BRMP – Section 3.0
	(b) a description of: <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 development or any management measures; 	Compliant	Documentation – Management Plans	Regulatory requirements are detailed in Section 2.0 of all plans. Section 6.0 of the WMP; Section 4.0 of the BMP, NMP, AQMP and TMP; and Sections 4.0 and 8.4 of the BRMP.
	(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	Compliant	Documentation – Management Plans	Section 5.0 of the BMP and NMP; Sections 4 and 5 of the TMP; Section 6.0 of the AQMP; Sections 5.0 and 6.0 of the BRMP; and Sections 3.2, 4.0 and 7.1 of the WMP.
	(d) a program to monitor and report on the: <ul style="list-style-type: none"> impacts and environmental performance of the development; and effectiveness of any management measures (see (c) above); 	Compliant	Documentation – Management Plans	Sections 6.0, 8.1 and 8.2 of the WMP. Sections 8.0, 9.1 and 9.2 of the BRMP. Sections 6.0, 7.1 and 7.2 of the NMP and BMP. Sections 5.0, 7.1 and 7.2 of the AQMP. Sections 5.2, 5.4 and 6.1 of the TMP.
	(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	Compliant	Documentation – Management Plans	Sections 7.2 and 7.3 of the BMP, AQMP and NMP Section 5.4 of the TMP. Section 8.1 of the BRMP. Section 7.0 of the WMP.
	(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	Compliant	Documentation – Management Plans	Section 7.6 of the NMP. Section 7.5 of the BMP and AQMP. Section 6.4 of the TMP. Section 10.0 of the BRMP. Section 8.6 of the WMP.
	(g) a protocol for managing and reporting any: <ul style="list-style-type: none"> incidents; complaints; non-compliances with statutory requirements; and 	Compliant	Documentation – Management Plans	Sections 8.1 and 8.2 of the WMP. Sections 9.2 and 9.3 of the BRMP. Section 7.2 of the NMP, AQMP, and BMP. Sections 6.1 and 6.6 of the TMP.

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> • exceedances of the impact assessment criteria and/or performance criteria; and 			
	(h) a protocol for periodic review of the plan.	Compliant	Documentation – Management Plans	Section 7.6 of the NMP. Section 7.5 of the BMP and AQMP. Section 6.4 of the TMP. Section 10.0 of the BRMP. Section 8.6 of the WMP.
	<i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans</i>	Noted		
	Adaptive Management			
3	<p>The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.</p> <p>Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity:</p> <p>(a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not reoccur;</p> <p>(b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and</p> <p>(c) implement remediation measures as directed by the Secretary;</p> <p>to the satisfaction of the Secretary.</p>	Compliant	Documentation – Annual Review, Blast Monitoring, Depositional Dust Monitoring Site interviews	With the exception of blast, discharge and depositional dust monitoring, no other environmental monitoring has been completed on site to date. Of the monitoring data recorded there have been no exceedances of the relevant criteria and therefore landowners have not required notification.
	Annual Review			
4	By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must:	Compliant	Documentation – Annual Review	The final Annual Review is dated 31 March 2016, with an email sighted verifying its submission on 31 March 2016 to DP&E .
	(a) describe the development (including any 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;	Compliant	Documentation – Annual Review	Section 2.0 of the Annual Review.
	<p>(b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against the:</p> <ul style="list-style-type: none"> • relevant statutory requirements, limits or performance measures/criteria; • requirements of any plan or program required under this consent; • the monitoring results of previous years; and • the relevant predictions in the EIS; 	Compliant	Documentation – Annual Review	Sections 3.0 and 5.0 of the Annual Review.
	(c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	Compliant	Documentation – Annual Review	Section 4.0 of the Annual Review.

Number	Condition	Compliance	Evidence	Comments
	(d) identify any trends in the monitoring data over the life of the development;	Compliant	Documentation – Annual Review	Section 6.0 of the Annual Review.
	(e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and	Compliant	Documentation – Annual Review	Section 7.0 of the Annual Review
	(f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.	Compliant	Documentation – Annual Review	Section 8.0 of the Annual Review
	Revision of Strategies, Plans & Programs			
5	<p>Within 3 months of the submission of an:</p> <p>(a) annual review under condition 4 above;</p> <p>(b) incident report under condition 7 below;</p> <p>(c) audit report under condition 9 below; and</p> <p>(d) any modifications to this consent,</p> <p>the Applicant shall review the strategies, plans and programs required under this consent, to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted for the approval of the Secretary.</p> <p><i>Note: The purpose of this condition is to ensure that strategies, plans and programs are regularly updated to incorporate any measures recommended to improve environmental performance of the development.</i></p>	Compliant	Documentation – Management Plans	<p>Dates on finalised management plans are 4, 5 and 18 May 2016, which is within three (3) months of the submission of the 2015 Annual Review.</p> <p>One incident occurred during the audit period in relation to extraction below RL 4 metres AHD. This was first raised in February 2016, with DP&E subsequently requesting the submission of an incident report by 20 May 2016. This incident report was sighted and is dated 20 May 2016. Management plans have been submitted to DP&E for approval.</p> <p>An audit report (Condition 5c) and modifications (Condition 5d) are not applicable at this stage.</p>
	Community Consultative Committee			
6	<p>If directed by the Secretary, the Applicant shall establish and operate a Community Consultative Committee (CCC) for the development to the satisfaction of the Secretary. Any such CCC must be operated in general accordance with the <i>Guidelines for Establishing and Operating Community Consultative Committees for Mining Developments</i> (Department of Planning, 2007, or its latest version).</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 Applicant complies with this consent.</i> <i>In accordance with the guidelines, the Committee should comprise an independent chair and appropriate representation from the Applicant, Council and the local community.</i> 	Not Triggered	N/A	Not applicable. Teven Quarry does not operate a CCC and has not been directed to do so by the Secretary of DP&E.
	REPORTING			
	Incident Reporting			
7	The Applicant shall immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	Administrative non-compliance	<p>Documentation – Incident Report, correspondence to/from DP&E</p> <p>Site interviews</p>	One incident occurred during the audit period in relation to extraction below RL 4 metres AHD (refer to Condition 7 of Schedule 2 for details). This incident occurred at the start of the approval period for SSD-6422 and was not reported to DP&E until a site visit in February 2016, as such an incident report was not submitted within 7 days of the date of the incident. However, it is noted that an incident report has since been submitted to DP&E within their requested timeframe and remediation has been undertaken.

Number	Condition	Compliance	Evidence	Comments
				Recommendation 09: Ensure incidents are notified to the Secretary and any other relevant agencies, in accordance with Condition 7 of Schedule 5.
	Regular Reporting			
8	The Applicant shall provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	Compliant		While EPL blast and discharge monitoring data is available via the public website (http://www.holcim.com.au/sustainability/environment/pollution-monitoring-data.html), publication of other monitoring data is not publically available on the Holcim website.
	INDEPENDENT ENVIRONMENTAL AUDIT			
9	<p>Within a year of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:</p> <p>(a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;</p> <p>(b) include consultation with the relevant agencies;</p> <p>(c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or necessary water licences for the development (including any assessment, strategy, plan or program required under these approvals);</p> <p>(d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and</p> <p>(e) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy plan or program required under the abovementioned approvals.</p> <p><i>Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.</i></p>	Administrative non-compliance	Documentation – Letter to DP&E DP&E approval letter.	<p>This audit represents the first audit within a year of the date of consent (15 July 2015), with Holcim requesting approval of the audit team on 18 July 2016 and subsequent approval provided 29 July 2016.</p> <p>An administrative non-compliance has been given against this condition as the request for approval of the audit team occurred after 15 July 2016 (being within a year of the date of consent for SSD-6422). However, it is noted that Holcim had progressed the engagement of a suitably qualified, experienced and independent team of experts well in advance of 15 July 2016.</p>
10	Within 6 weeks of the completion of this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report, including a timetable for the implementation of any measures proposed to address the recommendations in the report.	Not Triggered	N/A	Not applicable at this time.
	ACCESS TO INFORMATION			
11	<p>Within 6 months of the date of this consent, the Applicant shall:</p> <p>(a) make the following information publicly available on its website:</p> <ul style="list-style-type: none"> the documents listed in condition 2 of Schedule 2; current statutory approvals for the development; all approved strategies, plans and programs required under the conditions of this consent; a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; a complaints register, updated monthly; 	Administrative non-compliance	Documentation – Holcim website	<p>With the exception of a complaints register, all relevant documentation required by this condition is noted to have been sighted on the Holcim website (http://www.holcim.com.au/about-us/community-link/teven-quarry-teven-ballina-nsw.html).</p> <p>However, it is noted that some of this data was uploaded outside of six (6) months of the date of consent and that the management plans available on the website are still subject to DP&E approval.</p> <p>Recommendation 10: Provide a copy of the Teven Quarry complaints register on the Holcim website.</p> <p>Recommendation 11: Provide copies of the approved management plans on the Holcim website following DP&E approval.</p>

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> • the annual reviews of the development; • any independent environmental audit, and the Applicant's response to the recommendations in any audit; • minutes of CCC meetings; • any other matter required by the Secretary; and (b) keep this information up-to-date, to the satisfaction of the Secretary.			

Appendix B – Compliance with EPL requirements



Appendix B

Table B1 Compliance with the EPL requirements

Number	Condition	Compliance	Evidence	Comments						
1	ADMINISTRATIVE CONDITIONS									
A1	What the licence authorises and regulates									
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"> <thead> <tr> <th>Scheduled Activity</th> <th>Fee Based Activity</th> <th>Scale</th> </tr> </thead> <tbody> <tr> <td>Extractive Activities</td> <td>Land-based extractive activity</td> <td>> 100000 - 500000 T extracted, processed or stored</td> </tr> </tbody> </table>	Scheduled Activity	Fee Based Activity	Scale	Extractive Activities	Land-based extractive activity	> 100000 - 500000 T extracted, processed or stored	Compliant	Site interviews Site inspection	It was verified during site interviews and the site inspection that these activities are being undertaken.
Scheduled Activity	Fee Based Activity	Scale								
Extractive Activities	Land-based extractive activity	> 100000 - 500000 T extracted, processed or stored								
A1.2	Notwithstanding A1.1, the scale of the land-based extractive activity authorised under this licence must not exceed 265,390 (at 2014 with a growth rate of 1.5% pa) tonnes per annum, being the amount equivalent to the extraction limit approved by the development consent granted under the <i>Environmental Planning and Assessment Act 1979</i> for the premises specified in A2.	Compliant	Documentation – Annual Review	The 2015 Annual Review indicates total production for the 2015 reporting period was 245,845 tonnes. However, it is noted that this condition is in contradiction to the new Development Consent (SSD-6422). Recommendation 12: Formalise the EPL variation for EPL 3293 with the EPA to ensure consistency with the new Development Consent (SSD-6422).						
A2	Premises or plant to which this licence applies									
A2.1	The licence applies to the following premises: Readymix Teven Quarry – Stokers Lane, Teven, NSW, 2478 Lot 1 DP 732288, Lot 2 DP 732288, Lot 732288	Compliant	SIX Maps	Review of aerial photography with cadastral overlay indicates activities are within the area described.						
A3	Information supplied to the EPA									
A3.1	<p>Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.</p> <p>In this condition the reference to "the licence application" includes a reference to:</p> <p>a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and</p> <p>b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.</p>	Noted								
2	Discharges to Air and Water and Applications to Land									
P1	Location of monitoring/discharge points and areas									
P1.1	The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.	Compliant	Site inspection	Water Management Plan (WMP) – Figure 3.1 and Section 6.0						

Number	Condition	Compliance	Evidence	Comments								
P1.2	<p>The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.</p> <p>Water and Land</p> <table border="1"> <thead> <tr> <th>EPA identification No.</th> <th>Type of Monitoring Point</th> <th>Type of Discharge Point</th> <th>Location Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Wet weather discharge water quality monitoring</td> <td>Wet weather discharge water quality monitoring</td> <td>Overflow from stormwater settling dam to cane drain on eastern boundary of premises shown as discharge point on drawing titled "Figure 6 Borehole location map" dated 2 September 1997.</td> </tr> </tbody> </table>	EPA identification No.	Type of Monitoring Point	Type of Discharge Point	Location Description	1	Wet weather discharge water quality monitoring	Wet weather discharge water quality monitoring	Overflow from stormwater settling dam to cane drain on eastern boundary of premises shown as discharge point on drawing titled "Figure 6 Borehole location map" dated 2 September 1997.	Non-compliance (Medium Risk)	Site inspection Documentation – WMP	<p>Holcim have not complied with this requirement as Holcim indicated that water quality samples for the Main Dam are taken from the Main Dam itself rather than the licenced discharge point.</p> <p>Holcim identified the licenced discharge point during the site inspection. It was noted that this location differed from the location of the licenced discharge point nominated in the Water Management Plan (WMP) – Figure 3.1 and Section 6.0 and referred to in Condition P1.2 of the EPL.</p> <p>The risk level associated with this non-compliance is considered Medium for the following reasons:</p> <ul style="list-style-type: none"> The water quality sample from the Main Dam may not be representative of water quality from the discharge point because there is the potential for additional stormwater runoff to alter the water quality between the two locations. <p>Recommendation 13: Ensure discharge water quality samples are taken from the licensed discharge point, or alternatively, liaise with the EPA to change the licensed discharge point to reflect where sampling is undertaken.</p>
EPA identification No.	Type of Monitoring Point	Type of Discharge Point	Location Description									
1	Wet weather discharge water quality monitoring	Wet weather discharge water quality monitoring	Overflow from stormwater settling dam to cane drain on eastern boundary of premises shown as discharge point on drawing titled "Figure 6 Borehole location map" dated 2 September 1997.									
3	Limit Conditions											
L1	Pollution of waters											
L1.1	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.	Compliant	Site interviews Site inspection Documentation – Annual Review	<p>The 2015 Annual Review indicates all discharges for the reporting period complied with the limits detailed in Condition L2.4.</p> <p>The site visit indicated there was no obvious evidence of pollution of waters occurring as a result of the operations.</p> <p>It was noted during the inspection that in some areas of the site water is directed to gravel bunds which transport water around the site and into the cane field drain. There is a potential that during heavy rainfall sediment-laden flow may runoff via the gravel bunds directly into the cane drain without running through sediment controls. As Holcim currently monitor water quality from the dam, the results may not, in the event of a rainfall event, provide a true reflection of the water quality exiting the cane field drain.</p> <p>Recommendation 14: Review sediment controls at the processing and stockpile areas and on access roads and where necessary provide additional controls to manage and reduce the potential for the generation of sediment-laden runoff leaving site.</p>								
L2	Concentration limits											
L2.1	For each monitoring/discharge point or utilisation area specified in the table/s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.	Noted										
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.	Noted										
L2.3	To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table/s.	Noted										
L2.4	Water and/or Land Concentration Limits Point 1	Compliant	Documentation – Annual Review	Review of monitoring results in the 2015 Annual Review indicated discharge water quality did not exceed the 100 percentile concentration limit. It is noted that the water quality samples were not collected at the licensed discharge location – refer to Condition P1.2.								

Number	Condition						Compliance	Evidence	Comments
	Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit			
	Oil and grease	Milligrams per litre				10			
	pH	pH				6.5-8.5			
	Total suspended solids	Milligrams per litre				50			
L3	Noise limits								
L3.1	Noise from the premises must not exceed an LAeq(15 minute) noise emission criterion of 46 dB(A), except as expressly provided by this licence.						Non-compliant (Low Risk)	Documentation – NMP Site interviews	Holcim have not complied with this condition as noise monitoring is not undertaken for the quarry operations. Holcim advised they were awaiting final approval of the EMS following this audit prior to commencing monitoring. The risk level associated with this non-compliance is considered low for the following reasons: <ul style="list-style-type: none"> There are only two sensitive receiver located within close proximity to the quarry operations, with the closest receiver being a tenant on Holcim-owned land. Holcim advised that there have been no noise complaints associated with the operations. Refer to Recommendation 02 in Appendix A for Condition 4 of Schedule 3 of SSD-6422.
L3.2	Noise from the premises is to be measured at the residence located at 144 Stokers Lane, Teven, to determine compliance with this condition.						Non-compliant (Low Risk)	Documentation – NMP Site interviews	Refer to Condition L3.1.
L3.3	The noise emission limits identified in this licence apply under all meteorological conditions except: a) during rain and wind speeds (at 10m height) greater than 3m/s; and b) under "non-significant weather conditions".						Noted		
	<i>Note: Field meteorological indicators for non-significant weather conditions are described in the NSW Industrial Noise Policy, Chapter 5 and Appendix E in relation to wind and temperature inversions.</i>						Noted		
L4	Blasting								
L4.1	Blasting operations at the premises may only take place between 09:00 to 15:00 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).						Compliant	Documentation – Monitoring Data	Review of blast monitoring results indicates compliance with this condition.
L4.2	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						Compliant	Documentation – Annual Review, Monitoring Data	Blast monitoring results were reported in the 2015 Annual Review and are publically available on the Holcim website (http://www.holcim.com.au/sustainability/environment/pollutionmonitoring-data.html).

Number	Condition	Compliance	Evidence	Comments
				No exceedances were recorded during the 2015 reporting period.
	b) 120 dB (Lin Peak) at any time.	Compliant	Documentation – Annual Review, Monitoring Data	Blast monitoring results were reported in the 2015 Annual Review and are publically available on the Holcim website (http://www.holcim.com.au/sustainability/environment/pollutionmonitoring-data.html). No exceedances were recorded during the 2015 reporting period.
	At any point within 1 metre of any affected residential property or other sensitive noise location.	Compliant	Documentation – Annual Review, Monitoring Data	Blast monitoring results were reported in the 2015 Annual Review and are publically available on the Holcim website (http://www.holcim.com.au/sustainability/environment/pollutionmonitoring-data.html). No exceedances were recorded during the 2015 reporting period.
L4.3	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	Compliant	Documentation – Annual Review, Monitoring Data	Blast monitoring results were reported in the 2015 Annual Review and are publically available on the Holcim website (http://www.holcim.com.au/sustainability/environment/pollutionmonitoring-data.html). No exceedances were recorded during the 2015 reporting period.
	b) 10 mm/s at any time.	Compliant	Documentation – Annual Review, Monitoring Data	Blast monitoring results were reported in the 2015 Annual Review and are publically available on the Holcim website (http://www.holcim.com.au/sustainability/environment/pollutionmonitoring-data.html). No exceedances were recorded during the 2015 reporting period.
	At any point within 1 metre of any affected residential property or other sensitive noise location.	Compliant	Documentation – Annual Review, Monitoring Data	Blast monitoring results were reported in the 2015 Annual Review and are publically available on the Holcim website (http://www.holcim.com.au/sustainability/environment/pollutionmonitoring-data.html). No exceedances were recorded during the 2015 reporting period.
L4.4	All sensitive receivers are to be given at least 24 hours notice when blasting is to be undertaken.	Compliant		During the site interviews Holcim advised that the nearest resident (Murphy's – who lives on Holcim-owned land) is provided with notice prior to undertaking blasts.
L5	Hours of operation			
L5.1	Activities covered by this licence must only be carried out between the hours of 0700 hrs and 1700 hrs Monday to Friday, and 0700 hrs and 1600 hrs Saturday, and at no time on Sundays and Public Holidays.	Compliant	Documentation – Annual Review and Timesheets Site interviews	Timesheets were reviewed during the site inspection, indicating the latest workers are on site is 5.30 pm, which indicates compliance with permissible hours detailed in Table 1. During the audit it was indicated that the quarry conducts toolbox talks at a pre-start meeting from 6.30 am to 7.00 am, with boom gates not to be lifted until 7.00 am. In addition, trucks are not permitted to enter the site until after 7.00 am. It is noted that this condition is inconsistent to the new Development Consent (SSD-6422). Refer to Recommendation 12 at Condition A1.2

Number	Condition	Compliance	Evidence	Comments
4	Operating Conditions			
O1	Activities must be carried out in a competent manner			
O1.1	<p>Licensed activities must be carried out in a competent manner.</p> <p>This includes:</p> <p>a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and</p> <p>b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.</p>	Compliant	<p>Documentation – Daily Pre-Start Checklist, Service Inspection Checklists, Training Plans and Drivers Code of Conduct</p> <p>Site interviews</p> <p>Site inspection</p> <p>Waste collection dockets</p>	<p>Individual workers have a Training Plan which is updated on an annual basis, with sign-off by the Quarry Manager and worker following completion of training.</p> <p>The Drivers Code of Conduct of Teven Quarry details site requirements in relation to managing potential impacts from traffic associated with the haulage of product from the site during operations.</p> <p>During the site inspection, the site was observed to be tidy with waste stored appropriately. Waste is collected and disposed by Richmond Waste and Summerland Environmental; with waste collection dockets observed verifying this.</p> <p>Waste separation and recycling was not observed to occur on site.</p> <p>Recommendation 15: Holcim should investigate waste segregation and recycling opportunities for waste materials at site.</p>
O2	Maintenance of plant and equipment			
O2.1	<p>All plant and equipment installed at the premises or used in connection with the licensed activity:</p> <p>a) must be maintained in a proper and efficient condition; and</p> <p>b) must be operated in a proper and efficient manner.</p>	Compliant	<p>Documentation – Daily Pre-Start Checklist, Service Inspection Checklists, Training Plans and Drivers Code of Conduct</p> <p>Site interviews</p> <p>Site inspection</p>	<p>During the site interviews, Holcim advised that each piece of equipment has an applicable Service Inspection Checklist, with samples sighted while on site. In addition, completed daily pre-start checklists were sighted during the site inspection which detailed the start date, operating hours, what machine it was, a checklist of requirements and a comments section from the operator. The Service Inspection Checklists are signed off by the Quarry Manager.</p> <p>Refer to Condition O1.1.</p>
O3	Dust			
O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	Compliant	Site inspection	<p>During the site interviews, Holcim advised that the project operates a number of controls to manage air quality impacts resulting from the project, including:</p> <ul style="list-style-type: none"> • Automatic timed dust suppression sprinkler system along the haul road • Water truck operated on-site • Area of exposed surface is kept at a minimal to what is necessary for operation at the time, to avoid potential for off-site dust impacts • Dust sprays installed on the plant to mitigate dust impacts <p>A meteorological station has been purchased, and will be installed as soon as practicable (it arrived the day of the site inspection). Refer to Condition 15 below.</p> <p>Section 6.1 of the AQMP details the controls during unsuitable meteorological conditions (e.g. high winds).</p> <p>In addition, it was noted during the audit that Holcim have investigated the purchase of a misting spray system for installation on-site.</p>

Number	Condition	Compliance	Evidence	Comments																
5	Monitoring and Recording Conditions																			
M1	Monitoring records																			
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	Noted																		
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.	Not Verified	Site inspection Site interviews Documentation – Monitoring results	A review of monitoring report samples indicates monitoring records are legible. However, the aspects detailed in M1.2(a)&(b) were unable to be verified during the audit.																
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.	Compliant	Site inspection Site interviews Documentation – Monitoring results	Review of monitoring report samples indicated the date, time, monitoring location and name of the person collecting the sample was recorded in monitoring records.																
M2	Requirement to monitor concentration of pollutants discharged																			
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:																			
M2.2	Water and/ or Land Monitoring Requirements Point 1 <table border="1" data-bbox="311 1180 1403 1444"> <thead> <tr> <th>Pollutant</th> <th>Units of Measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Oil and grease</td> <td>Milligrams per litre</td> <td>Yearly during discharge</td> <td>Grab sample</td> </tr> <tr> <td>pH</td> <td>-</td> <td>Weekly</td> <td>No method specified</td> </tr> <tr> <td>Total suspended solids</td> <td>Milligrams per litre</td> <td>Yearly during discharge</td> <td>Grab sample</td> </tr> </tbody> </table>	Pollutant	Units of Measure	Frequency	Sampling Method	Oil and grease	Milligrams per litre	Yearly during discharge	Grab sample	pH	-	Weekly	No method specified	Total suspended solids	Milligrams per litre	Yearly during discharge	Grab sample	Compliant	Documentation – Monitoring results	Review of monitoring results for on-site discharges undertaken during the 2015 reporting period indicates compliance.
Pollutant	Units of Measure	Frequency	Sampling Method																	
Oil and grease	Milligrams per litre	Yearly during discharge	Grab sample																	
pH	-	Weekly	No method specified																	
Total suspended solids	Milligrams per litre	Yearly during discharge	Grab sample																	
M3	Testing methods - concentration limits																			
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.	Not verified	Documentation – WMP	The monitoring method for water quality monitoring was not reviewed as part of the audit.																
M4	Recording of pollution complaints																			
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.	Compliant	Documentation – Complaints records	Records of complaints received during the audit period were sighted during the site inspection.																
M4.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made;	Compliant	Documentation – Complaints records	Records of complaints received during the audit period were sighted during the site inspection in compliance with Condition M4.2																

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> 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. 			
M4.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Not Triggered		
M4.4	The record must be produced to any authorised officer of the EPA who asks to see them.	Not Triggered		While an EPA officer undertook an inspection during the audit period, no request was made in relation to producing a record of pollution complaints.
M5	Telephone complaints line			
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.	Compliant	Documentation – EMS, Holcim website	<p>Section 4.4.1 of the EMS: <i>'Community complaints can be provided in person at Teven Quarry or can be submitted via the Teven Quarry telephone line ((02) 6687 8566).'</i></p> <p>This line is provided on the Holcim website (http://www.holcim.com.au/about-us/community-link/teven-quarry-teven-ballina-nsw.html), noted to be the Environmental or Community Enquiries line.</p>
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.	Compliant	Documentation – EMS, Holcim website	Refer to comments against Condition M5.1.
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) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation. 	Not Verified	N/A	While conditions M5.1 and M5.2 have been found to be compliant, the auditor was unable to verify when the telephone complaints line was setup and notified to the public.
6	Reporting Conditions			
R1	Annual return documents			
R1.1	<p>The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:</p> <ul style="list-style-type: none"> a) a Statement of Compliance; and b) a Monitoring and Complaints Summary. <p>At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.</p>	Compliant	Documentation – Annual Return	<p>Annual Returns held centrally by the environment team for NSW. Anniversary date being the end of April.</p> <p>Annual Return for 1 May 2014 to 30 April 2016 sighted. This contained the information required by Condition R1.1.</p>
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.			
R1.3	<p>Where this licence is transferred from the licensee to a new licensee:</p> <ul style="list-style-type: none"> 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. 	Not Triggered	N/A	Not applicable.

Number	Condition	Compliance	Evidence	Comments
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	N/A	Not applicable.
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').	Compliant	Documentation – Annual Return	Annual Return for 1 May 2014 to 30 April 2015 sighted, with the Annual Return submitted 23 June 2015; within the 60 day period required.
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.	Not verified	Documentation – Annual Return	Annual Return for 1 May 2014 to 30 April 2015 sighted; however, copies for the last 4 years have not been sighted.
R1.7	Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	Compliant	Documentation – Annual Return	Annual Return for 1 May 2014 to 30 April 2015 sighted, signed by the Director and Company Secretary.
R1.8	A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.	Compliant	Documentation – Annual Return	Annual Return for 1 May 2014 to 30 April 2015 sighted, signed by the Director and Company Secretary.
	Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.	Noted		
	Note: An application to transfer a licence must be made in the approved form for this purpose.	Noted		
R2	Notification of environmental harm			
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	Compliant	Site interviews	There have been no environmental harm incidents at the quarry that require notification to the EPA
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.	Compliant		
	<i>Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.</i>	Noted		
R3	Written report			
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.	Not triggered	N/A	Not applicable, no request for a written report received.
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.	Not triggered	N/A	Not applicable, no request for a written report received.
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;	Not triggered	N/A	Not applicable, no request for a written report received.

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> 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. 			
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	N/A	Not applicable, no request for a written report received.
7	General Conditions			
G1	Copy of licence kept at the premises or plant			
G1.1	A copy of this licence must be kept at the premises to which the licence applies.	Compliant		Copy of the EPL was sighted during the site inspection.
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	Not triggered		
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises	Compliant		Copy of the EPL was sighted during the site inspection.

Appendix C – Agency correspondence for the audit

Contact Christie Jackson

Phone (02) 6763 1426

Email christie.jackson@dpi.nsw.gov.au

Our ref OUT16/29570

GHD
PO Box 5403
Hunter Region Mail Centre NSW 2310

Email: ben.luffman@ghd.com

Attention: Ben Luffman

Dear Mr Luffman,

Teven Quarry Independent Environmental Compliance Audit

Thank you for the opportunity to comment on the planned independent environmental audit of Teven Quarry.

In addition to the state scope of the audit, the Department of Primary Industries – Water (DPI Water) requests that the audit considers the water requirements for the operation, specifically:

- Assessment as to whether the project holds the required water entitlements, approvals and licenses under the *Water Management Act 2000* or *Water Act 1912* (as applicable) and if any further licences are required for the continued operations of the quarry;
- Assessment as to whether any water captured is in accordance with the Maximum Harvestable Rights for the property or under an exclusion/ exemption under the *Water Management (General) Regulation 2011*.

The following questions may aid in assessing the water licensing requirements of the operation:

- Do the relevant management plans adequately describe the water licensing requirements under the *Water Management Act 2000/Water Act 1912*, and compliance with these requirements?
- Are adequate records kept to enable determination of the volume and source of surface and groundwater taken?
- Has groundwater been intercepted as part of the operations?
- Is the operation capturing and/or harvesting any clean water?
- Has the proponent calculated its maximum harvestable right under the *Water Management Act 2000*?
- Is the capture of water in excess of the harvestable right?
- Do any exemptions under the *Water Management (General) Regulation 2011* or Harvestable Rights Order (gazetted 31 March 2006) apply to the capture of water?
- If necessary, does the proponent hold water access licences in the correct water sources under the relevant water sharing plan or licences under part 5 of the *Water Act 1912* as applicable, and do they hold sufficient quantity of entitlement under these licenses?

If you require clarification on any of the above please don't hesitate to contact Christie Jackson on (02) 6763 1426.

Yours sincerely

A handwritten signature in black ink that reads "Rebekah Gomez-Fort". The signature is written in a cursive style with a small mark above the first letter 'R'.

Rebekah Gomez-Fort
A/Director Policy Planning and Assessment Advice
12 August 2016



JOB No.			
ENTERED TO DATABASE			
5LM		12/8	
INITIAL		DATE	
12/8/16		REF. No.	
NAME	INIT	DATE	ACTION
PL		12/8	

Our Ref: DOC16/373141
Your Ref: 2125691

GHD
PO Box 1340
Coffs Harbour NSW 2450

Attention; Mr Ben Luffman

Dear ^{Ben} Mr Luffman

Re: Teven Quarry Independent Environmental Compliance Audit

Thank you for your letter dated 25 July 2016 about the Teven Quarry Environmental Audit requesting comments from the Office of Environment and Heritage (OEH). I appreciate the opportunity to provide input.

The OEH has statutory responsibilities relating to biodiversity (including threatened species, populations, ecological communities, or their habitats), Aboriginal and historic heritage, National Parks and Wildlife Service estate, flooding and estuary management.

We have reviewed the documents supplied with reference to the consent issued for the quarry and acknowledge that the OEH has an interest in the Teven Quarry. The consent has a specific requirement that the proponent consult with the OEH on a range of approval conditions as part of its environmental audit process.

It appears from our research that the quarry does not impact on sensitive ecological communities, including threatened species and their habitats, nor on vegetation of high conservation value, Aboriginal cultural heritage, or biodiversity values of the locality. Accordingly we have no concerns about NPWS estate or historic heritage, estuaries and flooding, biodiversity and Aboriginal cultural heritage.

We have also reviewed the OEH records for compliance history on the Teven Quarry. This research showed no compliance issues or actions are apparent on our records for the Teven Quarry site.

If you have any further questions about this issue, Mr Clyde Treadwell, Conservation Planning Officer, Regional Operations, OEH, can be contacted on 6659 8288 or at clyde.treadwell@environment.nsw.gov.au. Please note Clyde works Tuesday to Friday.

Yours sincerely

Dimitri Young 8 August 2016

DIMITRI YOUNG
Senior Team Leader Planning, North East Region
Regional Operations

Samantha Miller

From: Ben Luffman
Sent: Thursday, 28 July 2016 2:28 PM
To: Elliot Holland
Subject: FW: Teven Quarry environmental audit

Hey Elliot,

EPA called to mention the EPL needs to be updated so it is consistent with the approval. Some standard conditions are below

Other items they want us to check are:

- Appropriate sediment basin management
- Dust control
- Sprinklers causing runoff
- Structural integrity of the dams

I'm not sure if we will get a formal response

Regards

Ben Luffman
Senior Environmental Scientist/Planner

GHD

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1 ream of paper = 6% of a tree / 5.4kg CO2 in the atmosphere | 3 sheets of A4 paper = 1 litre of water

From: Peter Lynch [mailto:Peter.Lynch@epa.nsw.gov.au]
Sent: Thursday, 28 July 2016 2:23 PM
To: Ben Luffman <Ben.Luffman@ghd.com>
Subject: RE: Teven Quarry environmental audit

Hi Ben,
FYI.

A standard licence for a quarry has the following conditions

Unreviewed 36156

L1.2 Rainfall runoff from all disturbed areas of the premises arising from up to mm (up to five day event duration) must, prior to discharge from the premises, be captured and treated to the standard set out in condition L2 below.

L3 Waste

Reviewed 318

L3.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.

Unreviewed 36163

O4.1 Sediment Basins shall be treated, if required, to reduce the Total Suspended Solids level to the licenced concentration limit before being discharged to the environment. Treatment can be with gypsum or any other material that has been approved by the EPA.

Reviewed 213

O4.3 Each sedimentation basin must have a marker (the "sedimentation basin marker") that identifies the upper level of the sediment storage zone.

Reviewed 214

O4.4 Whenever the level of liquid and other material in any sedimentation basin exceeds the level indicated by the sedimentation basin marker, the licensee must take all practical measures as soon as possible to reduce the level of liquid and other material in the sedimentation basin.

Reviewed 819

O4.8 The licensee must ensure the design storage capacity of the sediment basins installed on the premises is reinstated within 5 days of the cessation of a rainfall event that causes runoff to occur on or from the premises

Reviewed 813

O4.6 The licensee must maximise the diversion of stormwater runoff containing suspended solids to sediment basins installed on the premises.

O4.9 The licensee must ensure that sampling point(s) for water discharged from the sediment basin(s) are provided and maintained in an appropriate condition to permit:

- a) the clear identification of each sediment basin and discharge point;
- b) the collection of representative samples of the water discharged from the sediment basin(s); and
- c) access to the sampling point(s) at all times by an authorised officer of the EPA.

Reviewed 327

M4.2 Rainfall at the premises must be measured and recorded in millimetres per 24 hour period, at the same time each day.

Regards

Peter Lynch

Operations Officer

North Coast Environment Protection Authority

peter.lynch@epa.nsw.gov.au

PO Box 498
Grafton NSW 2460
Phone: 02 66402502

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From: Ben Luffman [<mailto:Ben.Luffman@ghd.com>]
Sent: Monday, 25 July 2016 12:29 PM
To: Peter Lynch <Peter.Lynch@epa.nsw.gov.au>
Cc: Elliot Holland <Elliot.Holland@ghd.com>
Subject: Teven Quarry environmental audit

Hi Peter,

GHD has been engaged by Holcim (Australia) Pty Ltd to undertake an independent audit of the Teven Quarry operations. The audit requires consultation with relevant agencies and as such we are requesting comment with regard to the relevant conditions detailed in the attached letter.

I have attached a letter requesting comment by 5 August 2016. If I don't hear from EPA prior to this date, we will assume that you have no comments.

If you have any queries, please give me a call.

Regards

Ben Luffman
Senior Environmental Scientist/Planner

GHD

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Samantha Miller

From: Ben Luffman
Sent: Monday, 25 July 2016 2:58 PM
To: Elliot Holland
Subject: FW: Teven Quarry environmental audit

Categories: Transferred to SharePoint

Hi Elliot,

See below. Was this reflected in the conditions?

Regards

Ben Luffman
Senior Environmental Scientist/Planner

GHD

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From: Development Northern [mailto:development.northern@rms.nsw.gov.au]
Sent: Monday, 25 July 2016 2:52 PM
To: Ben Luffman <Ben.Luffman@ghd.com>
Subject: RE: Teven Quarry environmental audit

Ben

These are the comments to Planning at the time of referral:

"It is noted the proposal includes night time haulage to cater for the increased extraction rates. It is recommended that community consultation be carried out to gauge any concerns the adjacent local community may have because of increased night time haulage.

A Drivers Code of Conduct could be prepared to address, but not be limited to, the following:

- A map of primary haulage routes highlighting critical locations;*
- Safety initiatives for trucks travelling through residential areas and school zones;*
- An induction process for vehicle operators;*
- Format of regular toolbox meetings;*
- A complaints resolution and disciplinary procedure; and*
- Any community consultation measures to address peak haulage periods.*
- Any impacts on school bus routes."*

I would like to think the audit looks at the code of conduct for haulage drivers and community consultation and dispute resolution.

Give me a call if you need to discuss, 6686 1832.

Thanks Mike

From: Ben Luffman [<mailto:Ben.Luffman@ghd.com>]
Sent: Monday, 25 July 2016 12:29 PM
To: Development Northern; BALDWIN Michael J
Cc: Elliot Holland
Subject: Teven Quarry environmental audit

Hi Michael,

GHD has been engaged by Holcim (Australia) Pty Ltd to undertake an independent audit of the Teven Quarry operations. The audit requires consultation with relevant agencies and as such we are requesting comment with regard to the relevant conditions detailed in the attached letter.

I have attached a letter requesting comment by 5 August 2016. If I don't hear from RMS prior to this date, we will assume that you have no comments.

If you have any queries, please give me a call.

Regards

Ben Luffman
Senior Environmental Scientist/Planner

GHD

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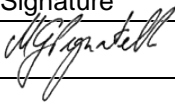
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https://projects.ghd.com/oc/Sydney/tevenquarryindepende/Delivery/Documents/2125691-REP-0_Teven%20Quarry_Audit%20Report_FINAL.docx

Document Status

Rev No.	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
0	E Holland, B Luffman	A Robinson	*AR	M Pignatelli		20/09/2016

*Wet Signature on file

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