

Lynwood Quarry Riparian Area Management Plan Lockyersleigh Creek Catchment

September 2021

Contents

1.	Introduction	2
1.1	Overview of the Project	3
1.2	Development Consent Conditions	3
1.3	Objectives of the Riparian Area Management Plan	5
2.	Stakeholder Consultation.....	7
2.1	Pre 2020 Consultation.....	7
2.2	2021 Consultation	7
4.	Lockyersleigh Creek Catchment.....	8
5.	Development within Lockyersleigh Creek Catchment	10
5.1	Operational Phase	10
5.2	Potential Surface Water Impacts	12
5.3	2020 Independent Environmental Audit.....	13
6.	Works within the Riparian Zone and Management Measures.....	13
6.1	Catchment Wide Management Measures.....	13
6.2	Identified Controlled Activity Locations	14
6.2.1	Site L3 – Sediment Dam F	16
6.3	Completion Criteria	16
7.	Riparian Management Controls	17
7.1	Riparian Management Controls	17
8.	Monitoring and Maintenance Requirements.....	18
9.	Reporting Requirements	18
9.1	Record Keeping	18
9.2	Annual Report	18
9.3	Independent Environmental Audit.....	18
10.	Adaptive Management	19
10.1	Contingency Plan	19
11.	Review and Improvement	21
12.	Definitions.....	22
13.	Roles and Responsibilities	23
14.	References	24
15.	Change Information.....	25
	Appendix 1 – Independent Environmental Audit + Action List	26
	Appendix 2 – Rehabilitation and Landscape Management Plan – Approval Letter 2018	27

1. Introduction

Holcim (Australia) Pty Limited (Holcim) was granted development consent in December 2005 by the Minister for Planning for the construction and operation of Lynwood Quarry west of Marulan in

the Southern Tablelands region of NSW (refer to Figure 1). The Lynwood Quarry was purchased in 2009 by Holcim (Australia) Pty Limited (Holcim).

The quarry has approval to operate over an initial 30 year period and will include operations in the catchments of Joarimin, Lockyersleigh and Marulan Creeks, all of which form part of the Sydney Drinking Water Catchment. Separate riparian area management plans have been prepared for each of these creeks within the project area to ensure that works associated with the construction and operation of Lynwood Quarry are undertaken in a way which reduces impacts on riparian zones.

This Riparian Area Management Plan for Lockyersleigh Creek provides a framework for the management of the Lockyersleigh Creek riparian zone that occurs within the Lynwood Quarry project area. The plan includes the management of works within 'waterfront land' as defined by the *Water Management Act 200* (WMA) that was approved as part of the Lynwood Quarry project (DA 128-5-2005). The plan satisfies Conditions 44 and 45 in Schedule 3 of the Lynwood Quarry development consent (refer to Section 1.2). Revision 1 of this plan was approved by the Department of Planning (DoP) on 31 August 2006 and was used as a supporting document to the application for Controlled Activity Approval under the WMA. This approval was subsequently issued by the then NSW Office of Water (NOW, Approval No. ERM 2011/0446) on 15 June 2011. The approval allows for construction works to be undertaken at specific locations within the Lockyersleigh Creek catchment (refer to **Section 6.2**).

This is the third revision of this plan and is being prepared following the 2020 Independent Environmental Audit (IEA). This plan forms part of the Rehabilitation and Landscape Management Plan required by Schedule 3 Condition 44 of the Lynwood Quarry consent.

1.1 Overview of the Project

Lynwood Quarry (the project) is located in the Goulburn Mulwaree Local Government Area approximately 160 kilometres south-west of Sydney and approximately 27 kilometres northeast of Goulburn (refer to Figure 1). The project area is bounded to the south by the Hume Highway and bisected in an east-west direction by the Main Southern Railway. It incorporates the headwaters of Joarimin, Lockyersleigh and Marulan Creeks and has historically been used primarily for agriculture, in particular grazing.

The project provides a long-term supply of high quality construction material into the Sydney, regional and local markets. The project area contains a substantial, high quality hard rock resource with ready transport access to the Main Southern Railway and Hume Highway. The quarry is approved to produce up to five million tonnes per annum (Mtpa) of saleable quarry product for an initial 30 year quarrying period (refer to Figure 2). The target resource has an expected life of in excess of 90 years.

1.2 Development Consent Conditions

The preparation of Riparian Area Management Plans is required by Schedule 3 Conditions 44 and 45 of the Lynwood Quarry development consent. These conditions are outlined in **Table 1** with an indication of where in the plan each requirement is addressed.



Figure 1
NSW Map showing location of Lynwood Quarry

Table 1 Development Consent Conditions

Schedule 3	Section
<p>Rehabilitation and Landscape Management Plan</p> <p>44. Within 6 months of this consent, the Applicant shall prepare (and following approval implement) a Rehabilitation and Landscape Management Plan for the development, in consultation with DEC, DNR, and Council, and to the satisfaction of the Director-General. This plan must:</p> <p>b) include Riparian Area Management Plan/s (see condition 45) for those riparian areas to be disturbed in the next 5 years, excluding areas within quarry pits or emplacement areas as agreed with the Director-General;</p>	Entire document. Consultation in Section 2.0
<p>45. The Riparian Area Management Plan/s must be prepared by a suitably qualified hydrologist; whose appointment has been approved by the Director-General, and include:</p>	Section 2.0
<p>a) baseline surveys of creeks, providing existing bed, bank and vegetation information (including representative cross and longitudinal sections), in the areas in which the development is located, excluding the quarry pits and emplacement areas;</p>	Sections 4.0, 6.2 and 6.3
<p>b) detailed designs of the proposed works, including any proposed stabilisation, scour protection, and/or enhancement works (including representative cross and longitudinal sections);</p>	Section 6.2
<p>c) a description of the measures that would be implemented in the event of flooding during construction/rehabilitation;</p>	Section 10.1
<p>d) details of proposed staging of the works;</p>	Sections 6.0
<p>e) completion criteria for the rehabilitation of the riparian area;</p>	Section 6.4
<p>f) a protocol for monitoring the performance of rehabilitation over time.</p>	Section 8.0 and 9.0

1.3 Objectives of the Riparian Area Management Plan

The objectives of this Riparian Area Management Plan are to:

- describe the current condition of riparian areas in Lockyersleigh Creek Catchment that fall within the project area, including the condition of sites that require a Controlled Activity Approval under the *Water Management Act 2000*;
- provide detailed designs of the proposed works and the proposed staging of works;
- outline the management measures to be implemented at the site level, including completion criteria for the rehabilitation of riparian areas disturbed by construction of the Lynwood Quarry Project;
- outline the management measures to be implemented for the Lockyersleigh Creek riparian zone for works undertaken within the project area: and
- define the monitoring and maintenance requirements for Lockyersleigh Creek, including a protocol for monitoring effectiveness of rehabilitation works over time.

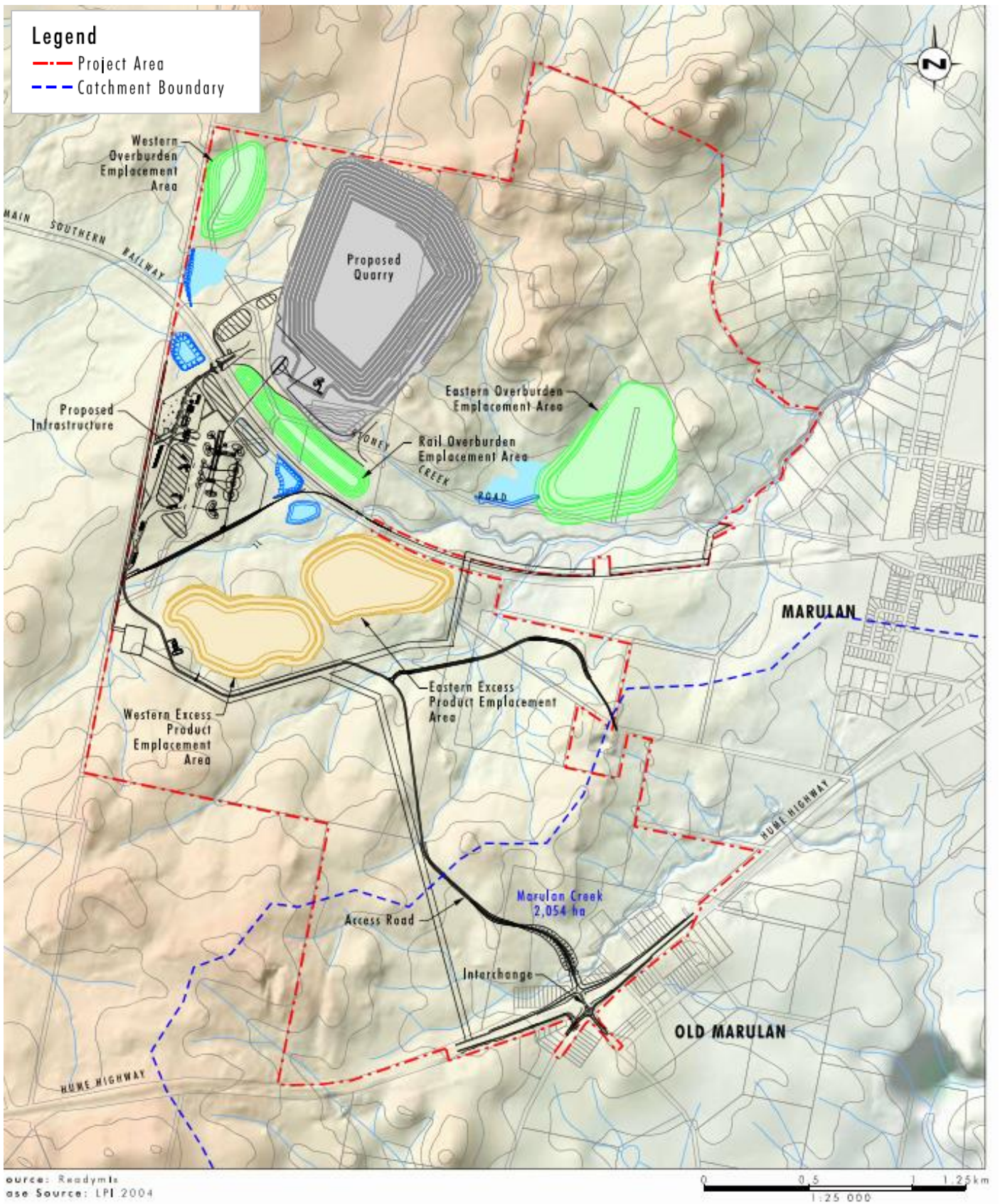


Figure 2
Project Area & Lockyersleigh Catchment Boundary

2. Stakeholder Consultation

2.1 Pre 2020 Consultation

Schedule 3 Condition 44 of the development consent requires that the Rehabilitation and Landscape Management Plan, of which this plan forms part, must be prepared in consultation with the Biodiversity Conservation Division (BCD) (formerly the Office of Environment and Heritage (OEH)) , Water in NSW (formerly the NSW Office of Water (NOW)) and Sydney Catchment Authority (SCA).

During the preparation of Revision 1 of this plan a draft copy was provided to each of these agencies for comment prior to submission of a final draft to the then Department of Planning (DoP) for approval. Further details of agency consultation are included in the main text of the Rehabilitation and Landscape Management Plan.

The consultation process for Revision 1 of the plan also built on the extensive consultation undertaken as part of the approval process for Lynwood Quarry. This included a site meeting with the then Department of Environment and Conservation and the Department of Natural Resources personnel that included specific discussions regarding site water management and management of riparian zones.

Revision 1 of this plan was approved by the then Department of Planning (DoP).

Revision (Revision 2) of the plan was undertaken following approval of the second modification to the Lynwood Quarry development consent in March 2011. Revision 2 of this plan was approved by DPIE.

2.2 2021 Consultation

A copy of the 2021 updated management plan was provided to DPIE in May 2021.

3. Statutory Requirements

3.1 Legislation

Legislation relevant to riparian management includes:

- *Environmental Planning and Assessment Act 1979*;
- *SEPP (Sydney Drinking Water Catchment) 2011*; and
- *Water Management Act 2000 (WMA)*.

3.2 Guidelines and Standards

The guidelines relevant to this Lockyersleigh Creek Riparian Plan are:

- *Managing Urban Stormwater: Soils and Construction Volumes 1 and 2* (Landcom, 2004 and DECC, 2008) (the Blue Book); and
- *Guidelines for Establishing Drainage Lines on Rehabilitated Minesites (Draft)* (DLWC, 1999).

4. Lockyersleigh Creek Catchment

Lockyersleigh Creek has a catchment area of approximately 2630 hectares, is a fourth order stream and drains in a northwesterly direction to the Wollondilly River (refer to Figure 3). Land use within the catchment is predominantly grazing with some forested areas.

Lockyersleigh Creek drains generally in a northerly direction from its headwaters near the Hume Highway approximately 9.2 kilometres north to the Wollondilly River. The confluence of Lockyersleigh Creek with the Wollondilly River is located approximately 9.2 kilometres upstream of the Marulan drinking water supply pumping station. There are several harvestable rights dams located within the catchment area.

Lockyersleigh Creek is an ephemeral creek system with flows only occurring in the creek during storm events or after prolonged periods of heavy rain. Generally, the creek system is predominantly dry; however, some pools of permanent or semi-permanent water are present in the downstream reaches. There is little or no riparian vegetation along the upper reaches of the creek within the project area, with established riparian vegetation in the downstream reaches. There is also evidence of erosion of the creek banks in the upper reaches where little or no riparian vegetation is present.

Soil landscape mapping of the Marulan region has been undertaken by DNR (2003), including coverage of the project area. A soil survey was also undertaken for the Lynwood Quarry Environmental Impact Statement (EIS) (Umwelt, 2005) to confirm mapping and determine site specific soil properties. Two of the soil landscapes identified within the project area occur in the Lockyersleigh Creek catchment. Bindook Road soils generally occur to the west of the quarrying area covering most of the Lockyersleigh Creek area, with Bindook Road Variant A soils occurring on the ridges to the east of the creek and in the upper drainage reaches to the north. Regional soil landscape mapping indicates that both soil landscapes have gully and sheet erosion hazards. Site specific laboratory testing has, however, indicated that the soils are not dispersive (Asset Geotechnical, 2005). Soil sampling has also indicated that the soils in the catchment area have the potential to contain a significant proportion of clay fines in the mid to lower horizons.

Approximately 68 hectares (3 per cent) of the catchment area of Lockyersleigh Creek lies upslope of the project area. Approximately 332 hectares (13 per cent) of the Lockyersleigh Creek catchment lies within the project area, with the remaining catchment downstream of the project area. The portions of the catchment within the project area are predominantly grazing pastures with some isolated pockets of woodland.

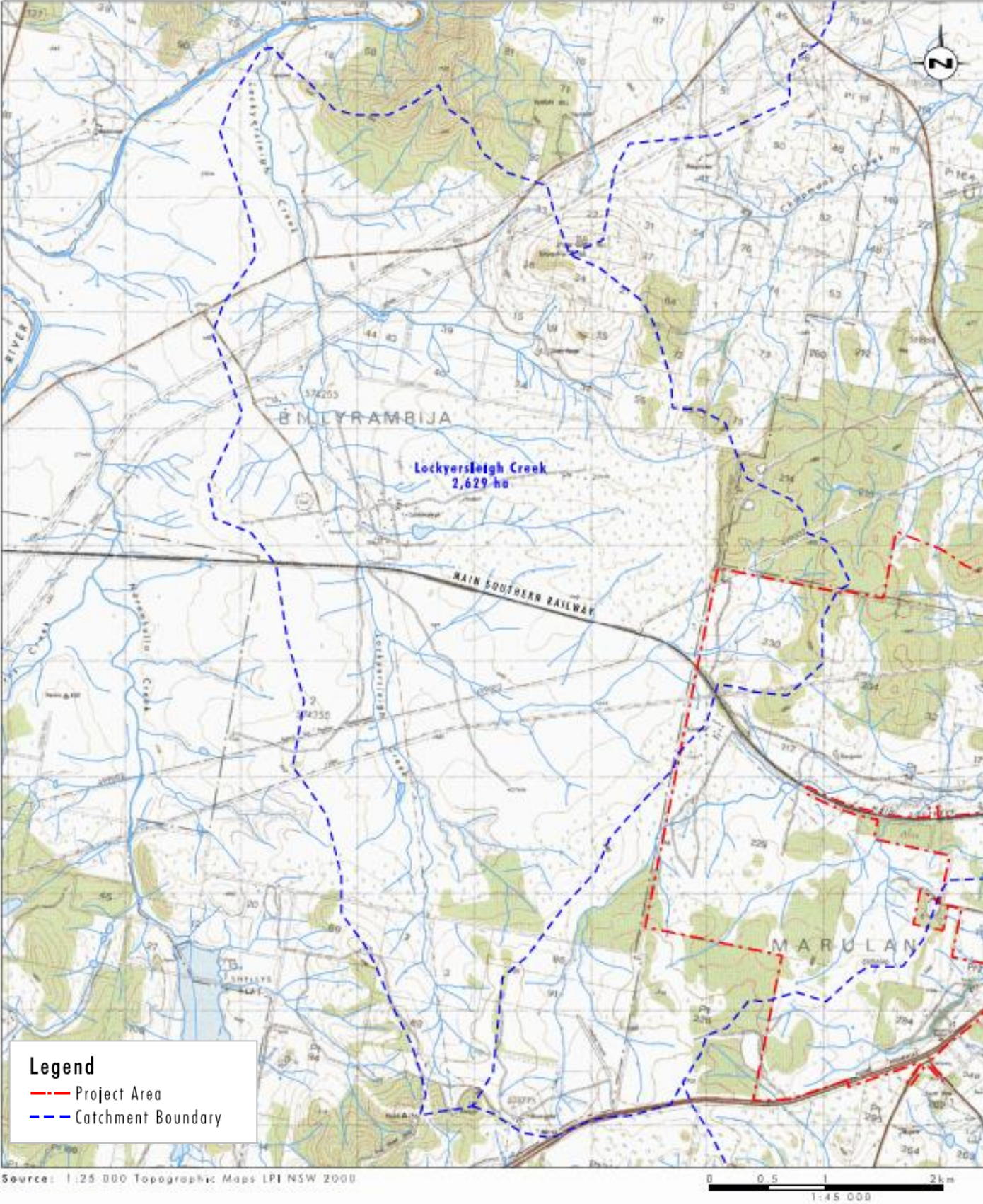


Figure 3
Lockyersleigh Catchment

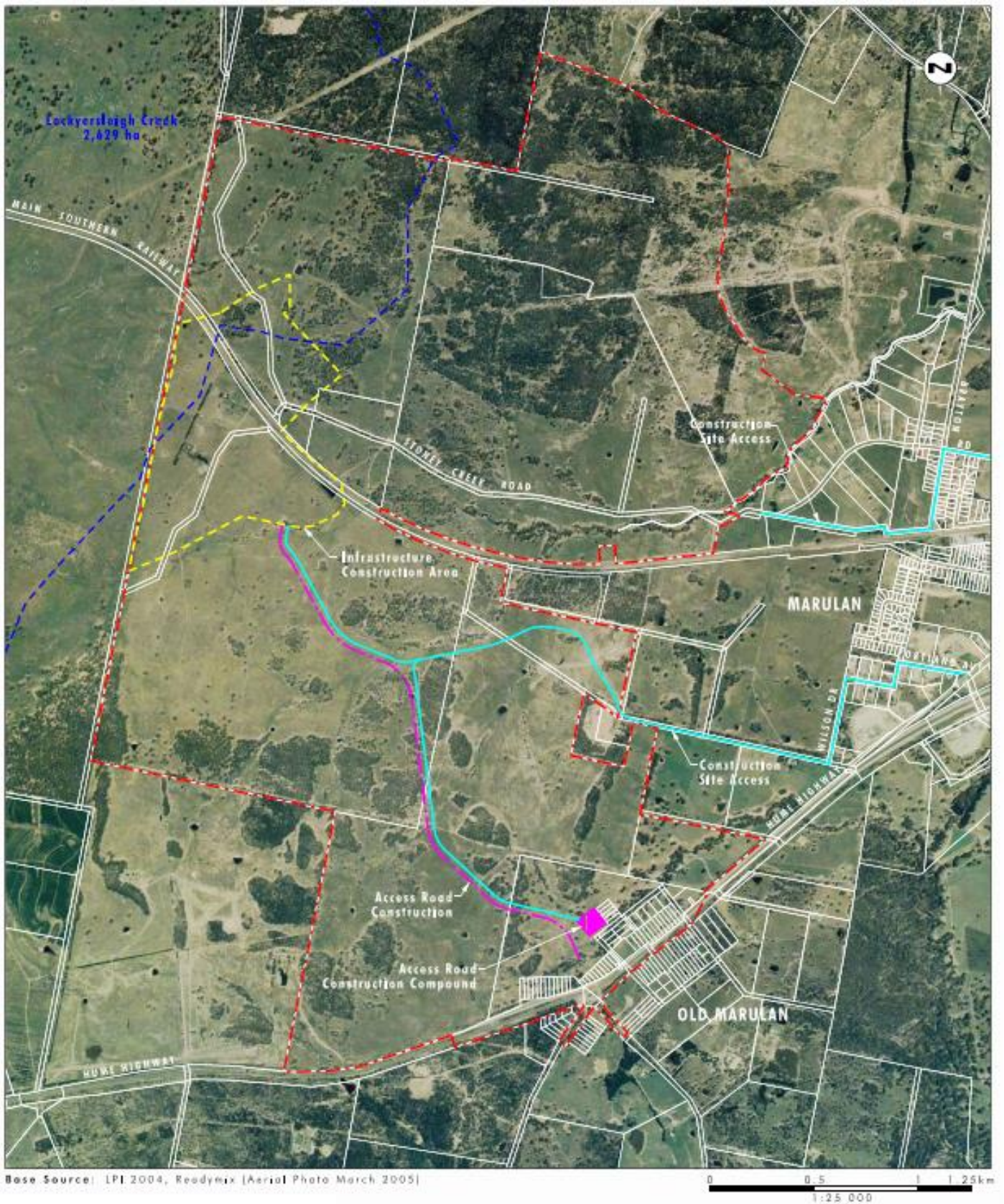
5. Development within Lockyersleigh Creek Catchment

5.1 Operational Phase

During the operational phase of the quarry ongoing works in the Lockyersleigh Creek catchment area include:

- quarrying;
- ongoing operation of quarry infrastructure including the crushing and screening plant and stockpiling; and
- other ongoing operations such as use of haul roads, rehabilitation activities, water management activities etc.

It is expected that operations will occur in the Lockyersleigh Creek catchment area for the duration of the project.



Legend

- - - Project Area
- Access Road Construction
- Construction Site Access
- - - Infrastructure Construction Area
- ▨ Construction Compounds and Plant Locations
- - - Catchment Boundary

Figure 4
Construction Areas, Infrastructure & Access within the Catchment Area

5.2 Potential Surface Water Impacts

The potential surface water impacts due to construction and operation of Lynwood Quarry in the Lockyersleigh Creek catchment area were assessed as part of the Lynwood Quarry EIS (Umwelt 2005), the Lynwood Quarry Minor Modification SEE (Umwelt, 2009), the Lynwood Quarry Modification EA (Umwelt, 2010) and the Lynwood Quarry Extraction Area Modification Environmental Assessment (Umwelt, 2015). A summary of these impacts is provided below.

The objectives of water management controls within the Lockyersleigh Creek catchment are to divert flows around the proposed emplacement areas, control runoff from a proportion of the site and catchment areas upslope for reuse and ensure dirty water is treated prior to potential release off site.

The peak flows, velocities and flood levels for the 20 year and 100 year Average Recurrence Interval (ARI) storm events in Lockyersleigh Creek were modelled using XP-Storm version 9.1, a one-dimensional hydrodynamic model which can be used to model stormwater flows in watercourses, culverts and street drainage systems.

Modelling indicated that peak flow rates, peak velocities and peak water levels in Lockyersleigh Creek for the 100 year ARI and 20 year ARI storm events with the proposed Year 30 quarry footprint are less than modelled flows in the existing Lockyersleigh Creek system.

Capture of runoff within the portion of the quarry pit occurring within the Lockyersleigh Creek catchment will reduce the annual volume of water that flows down the creek. Lockyersleigh Creek is an intermittent stream and its natural condition exhibits prolonged periods without flow. During these periods, aquatic habitat within Lockyersleigh Creek is restricted to small permanent and semi-permanent water holes. As the volume of stored water in each of these holes is small and the total volume of water stored in the system is small, the volume of stream flow required to fill the holes is small. As a result, diversion of a section of the upstream catchment is unlikely to have a significant impact on the volume and quality of water that is ponded along Lockyersleigh Creek, particularly due to the fact that stream flow is extremely intermittent and of short duration.

There are no surface water licences located in Lockyersleigh Creek catchment area. As such, downstream water users will be limited to those not requiring a licence for extraction and will therefore typically rely on the permanent and semi-permanent pools, which will not be significantly affected. The project is therefore not predicted to impact on downstream water users in the Lockyersleigh Creek catchment.

Water released from the project area during construction and operations is treated in accordance with the Lynwood Quarry Water Management Plan to achieve a maximum total suspended solids (TSS) concentration of 50 mg/L by use of sediment control measures, including a sediment dam and fences. The sediment dam has been constructed as a twin cell system allowing flocculation of sediment if required. Pollutant load modelling conducted as part of the EIS (Umwelt, 2005) has shown that this system will reduce nitrogen and phosphorus loads exported from the project area.

Application of fertilisers on rehabilitation areas is closely monitored and limited to the minimum possible required to ensure growth. It is also considered that the pH of waters in Lockyersleigh Creek will not be affected by the project. The water quality management measures implemented as part of the project are detailed in the Lynwood Quarry Water Management Plan and will ensure that oil/fuel spillages are contained on site with no impact on water quality in the downstream creek.

5.3 2020 Independent Environmental Audit + Action List

An Independent Environmental Audit (IEA) was completed for Lynwood Quarry by EMM, with the report dated December 2020. There were several recommendations from that report relevant to this management plan. A full copy of the recommendations and Holcim responses are provided in **Appendix 1**.

6. Works within the Riparian Zone and Management Measures

6.1 Catchment Wide Management Measures

Operational Phase

Water quality controls are implemented for the project during the operational phase to minimise surface water impacts. In Lockyersleigh Creek catchment, these measures include:

- clearly identifying and delineating areas required to be disturbed and ensuring that disturbance is limited to those areas, clearing as little vegetation as required and minimising machinery disturbance outside of these areas;
- limiting the number of roads and tracks established;
- construction of sediment dams to capture and treat runoff from disturbed catchment areas. These dams will be designed with a two cell system to enable flocculation of sediment if required to ensure that sediment concentrations of discharge water do not exceed 50mg/L;
- construction of drains upslope of areas to be disturbed to convey clean runoff away from disturbed areas;
- constructing road and earthworks cut and fill batters at slopes of 1V:3H or less, where possible, to maximise long term stability;
- reshaping, topsoiling and vegetating road and cut and fill batters as soon as practical;
- progressively stripping and stockpiling topsoil for later use in rehabilitation;
- regular maintenance of all erosion control works and rehabilitated areas;
- regular inspections of access tracks/roads to ensure that drainage is working effectively and that the tracks/roads are stable, particularly after rain;
- progressive rehabilitation of emplacement areas to reduce erosion;
- prompt revegetation of areas as soon as earthworks are complete; and
- placement of flotation curtains at the outlets of all dams.

6.2 Identified Controlled Activity Locations

On 4 February 2008 the *Rivers and Foreshores Improvement Act 1948* (RFI Act) was repealed and the controlled activity provisions in the *Water Management Act 2000* (WMA) commenced. A controlled activity approval (CAA) under the WMA is now required for controlled activities carried out in, on or under waterfront land. The following definitions under the WMA are provided in **Section 12**.

Under the WMA a creek or drainage line will generally fall within the definition of river if it is marked on a 1:25,000 topographical map sheet produced by the Land and Property Information Centre (LPIC) and has a defined channel bed and bank. A site inspection is typically required to determine if a defined bed and bank are present.

Work sites requiring a Controlled Activity Approval were identified from site inspections undertaken in May 2006 and assessments undertaken during preparation of the EIS (Umwelt, 2005), SEE (Umwelt, 2009) and EA (Umwelt, 2010).

Some work sites occur within the Lockyersleigh Creek catchment area, some of which require a Controlled Activity Approval under WMA. As discussed in **Section 1.0**, an approval has been obtained for these works, however, due to project changes a modification to this permit was required. Several former work sites are no longer required as a result of the modification approved in March 2011. These sites are discussed in **Sections 6.2**.

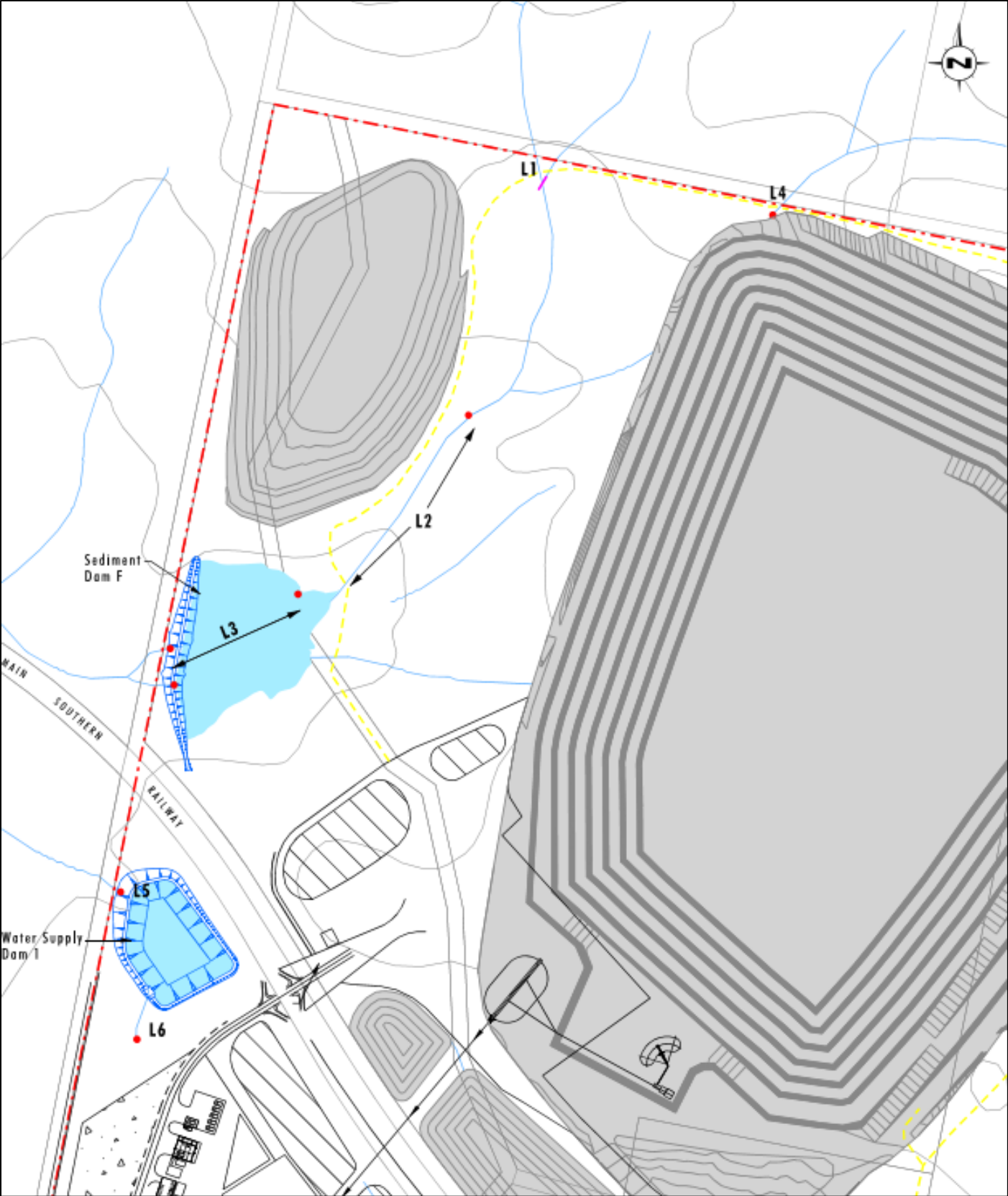


Figure 5
Work Sites with the Lockyersleigh Catchment

6.2.1 Site L3 – Sediment Dam F

Site L3 is Sediment Dam F (refer to Figure 5) which covers a section of approximately 160 metres of Lockyersleigh Creek.

Lockyersleigh Creek at this site has two main channels both with defined bed and bank. Isolated pockets of Riparian Gum – Box – Apple Woodland line the banks of the creek at this location with little understory vegetation present and sections of bare ground occurring along the creek bank.

Sediment Dam F is located immediately to the west of the proposed Year 30 quarry pit extent to capture and treat runoff from the Lockyersleigh Creek catchment within the project area (refer to Figure 2). The sediment has a storage capacity of 16 ML.

Overflows from Sediment Dam F will be via a constructed spillway and level spreader. Further details of the operation of Sediment Dam F are included in the Lynwood Quarry Water Management Plan.

The soils in the dam construction area were treated with gypsum to reduce dispersibility and improve soil structure after excavation. Rip rap has been placed along the length of the spillway to prevent scouring. The rip rap consists of well graded rock to a depth of 300 millimetres with d50 = 100 millimetres and extends 20 metres downstream of the end of the spillway. The disturbed areas outside of the creek channel including Protected Lands have been topsoiled and seeded with grass species to aid stability. This will assist in reducing erosion and sediment transport potential.

6.3 Completion Criteria

The completion criteria for each work site are:

- practical completion of the diversion drain, sediment dam and all drainage infrastructure;
- construction areas stable;
- established vegetation on all disturbed areas; and
- removal of any temporary sediment and erosion control measures when revegetation has established on formerly disturbed areas.

7. Riparian Management Controls

7.1 Riparian Management Controls

This Lockyersleigh Creek Riparian Plan has been designed in a manner that enables Lynwood Quarry to demonstrate compliance with Condition 45 of DA 128-5-2005. Holcim is committed to implementing all reasonable and feasible mitigation measures. In order to mitigate potential impacts to riparian areas, a number of management controls have been, are currently, or will be, implemented. Riparian controls are outlined in **Table 3**.

Table 3 Riparian Controls

Mitigation ID	Mitigation Measure	Reference Document	When Required/Status	Responsibility
Construction Controls				
LCk1	All works will be inspected on a daily basis to ensure that all required controls are in place and effective.	This document	During the construction phase. Complete.	Engineering Manager for maintenance
LCk2	The work area will be inspected weekly and after any runoff events until the completion criteria listed in Section 6.3 .	This document	Following the completion of construction works.	Engineering Manager for maintenance
LCk3	Construction and regular maintenance of silt fences to contain sediment downslope of disturbed areas.	Riparian Area Management Plan Marulan Creek Catchment Area	Complete.	Engineering Manager for maintenance
LCk4	Seeding (with specific grass mix) and controlled fertilising of all disturbed areas to provide for rapid grass cover.	Riparian Area Management Plan Marulan Creek Catchment Area	Complete.	Engineering Manager for maintenance
LCk5	Development of an inspection, maintenance and management system to ensure that the soil and erosion control measures for the construction phase are performing adequately.	Riparian Area Management Plan Marulan Creek Catchment Area	Complete.	Engineering Manager for maintenance
Operational Controls				
LCk6	Regular maintenance of all erosion control works and rehabilitated areas	Riparian Area Management Plan Marulan Creek Catchment Area	Ongoing.	Engineering Manager for maintenance
LCk7	Regular inspections of access tracks/roads to ensure that drainage is working effectively and the tracks/roads are stable particularly after rain.	Riparian Area Management Plan Marulan Creek Catchment Area	Ongoing.	Engineering Manager for maintenance

8. Monitoring and Maintenance Requirements

Lynwood Quarry's Support Services Supervisor will inspect Lockyersleigh Creek within the project area on a quarterly basis (and after severe storm events) to identify the condition of the riparian zone and any significant erosion or creek stability issues. Controls will be implemented where practical to address any new issues identified as part of these inspections.

Currently, monitoring of the management measures implemented will be undertaken in accordance with the Landscape and Revegetation Management Plan. Monitoring will also be undertaken after major storm events for sediment and erosion control structures that may be affected by such an event.

The Lynwood Quarry Water Management Plan outlines the water quality monitoring which is being undertaken at site.

9. Reporting Requirements

9.1 Record Keeping

As per Schedule 5 Condition 10 of DA 128-5-2005, Holcim Australia will maintain accurate records substantiating all activities associated with or relevant to the conditions of approval.

These records may be subject to audit by DPIE or an independent auditor, as described in **Section 9.3**.

9.2 Annual Report

As per Schedule 5 Condition 10 of DA 128-5-2005 by the end of September each year, Holcim Australia will publish an annual report on its website and provide copies to the Council and Community Consultative Committee.

The annual report will contain all information described in Schedule 5 Condition 10 of DA 128-5-2005.

9.3 Independent Environmental Audit

As per Schedule 5 Condition 11 of DA 128-5-2005, by 30 September 2017, and every 3 years thereafter, unless the Planning Secretary directs otherwise, Holcim Australia must ensure that an independent environmental audit of compliance with the conditions of approval is conducted, and a report submitted to the Planning Secretary.

The auditor/s must be suitably qualified, experienced and independent experts approved by the Planning Secretary.

10. Adaptive Management

10.1 Contingency Plan

Holcim will assess and manage potential risks related to the Lockyersleigh Creek Riparian Area to ensure compliance with Schedule 3 Condition 45 of DA 128-5-2005.

In order to ensure delivery of the stated outcomes, and compliance with the approval conditions, a range of further actions are to be undertaken in the event it becomes apparent that performance indicators are not being met.

The results of monitoring will feed into the adaptive management process. The Quarry Manager will utilise the results of the monitoring activities to identify any corrective actions required to meet the objectives and targets specified in **Section 6.3**.

Table 4 outlines the Trigger Action Response Plan (TARP) for this management plan with this prepared to meet Schedule 3 Condition 45 of DA 128-5-2005.

Table 4 – Trigger Action Response Plan

Key Element	Trigger Response /	Condition Green	Condition Amber	Condition Red
Soil disturbance	Trigger	No soil disturbance from animals	Some soil disturbance from animals	Significant soil disturbance from animals
	Response	Continue Lockyersleigh Creek Riparian Plan implementation	Control feral species	<ul style="list-style-type: none"> Control feral species Review and update approach to controlling feral species
Sediment fences	Trigger	Sediment fences within the creek are in good condition	Sediment fences within the creek are filled with material or appear to be approaching collapse	Significant damage to sediment fences within the creek
	Response	Continue Lockyersleigh Creek Riparian Plan implementation	<ul style="list-style-type: none"> Remove sediment, maintain fence to avoid collapse 	<ul style="list-style-type: none"> Repair and or replace where needed
Remnant vegetation failure	Trigger	Good growth of remnant vegetation	Minimal reduction of remnant vegetation	Significant reduction of remnant vegetation
	Response	Continue Lockyersleigh Creek Riparian Plan implementation	<ul style="list-style-type: none"> Monitor for changes and implement mitigation measures in condition red if remnant vegetation deteriorates 	<ul style="list-style-type: none"> Fence site and exclude grazing Use fire or smoke-water to stimulate germination Control exotic weeds to reduce competition with remnant vegetation Install sediment fences if erosion is impacting remanet vegetation

11. Review and Improvement

This Lockyersleigh Creek Riparian Plan will be reviewed, and revised as necessary, in accordance with the requirements of Schedule 5 Condition 5 of the Development Consent which states “*within 3 months of the submission of an:*

- (a) incident report under condition 8 below;*
 - (b) Annual Review under condition 10 below;*
 - (c) audit report under condition 11 below; and*
 - (d) any modifications to this consent,*
- the Applicant must review, and if necessary revise, the strategies, plans, and programs required under this consent, to the satisfaction of the Secretary.”*

A summary of Lockyersleigh Creek Riparian monitoring results will be outlined in the Annual Review.

In terms of sub clause b), the requirement to review and update management plans will be assessed during the preparation of each Annual Review. The Annual Review will state which management plans require updating and which management plans do not require updating. Details on the requirements to prepare Annual Reviews are outlined in the Environmental Management Strategy.

Updated versions of management plans will be published on the website.

12. Definitions

The terminology utilised within this Lockyersleigh Creek Riparian Plan is defined in **Table 5** below.

Table 5 - Definitions

Term	Definition
BCD	Biodiversity Conservation Division (formerly the Office of Environment and Heritage (OEH))
DAWE	Department of Agriculture Water and Environment (DAWE) formerly the Department of the Environment and Energy (DoEE)
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)
Holcim Australia	Holcim (Australia) Pty Ltd
Mtpa	Million tonnes per annum
NSW	New South Wales
NPW Act	National Parks and Wildlife Act 1974 (NSW)
WMA	Water Management Act (2000)
Waterfront Land	Includes the bed and bank of any river, lake or estuary and all land within 40 metres of the highest bank of the river, lake or estuary (WMA, 2000).
River	Any watercourse, whether perennial or intermittent and whether comprising a natural channel or a natural channel artificially improved, and any tributary, branch or other watercourse into or from which a watercourse referred to in paragraph (a) flows, and anything declared by the regulations to be a river, whether or not it also forms part of a lake or estuary, but does not include anything declared by the regulations not to be a river (WMA, 2000).
Controlled Activity	The erection of a building or the carrying out of a work (within the meaning of the Environmental Planning and Assessment Act 1979), or the removal of material (whether or not extractive material) or vegetation from land, whether by way of excavation or otherwise, or the deposition of material (whether or not extractive material) on land, whether by way of landfill operations or otherwise, or the carrying out of any other activity that affects the quantity or flow of water in a water source (WMA, 2000).

13. Roles and Responsibilities

Environmental roles and responsibilities for Lynwood Quarry personnel are outlined below.

Table 6 Roles and Responsibilities

Title	Roles and Responsibilities
Quarry Manager	<ul style="list-style-type: none"> ● ensure that sufficient resources are allocated for the implementation of the Lockyersleigh Creek Riparian Plan ● authorising internal and external reporting requirements as well as subsequent revisions of the Lockyersleigh Creek Riparian Plan ● implementation of the Lockyersleigh Creek Riparian Plan to ensure compliance
Support Services Supervisor	<ul style="list-style-type: none"> ● coordinate the day to day implementation of the Lockyersleigh Creek Riparian Plan, including the design and implementation of all ecological management activities ● inspect Lockyersleigh Creek within the project area on a quarterly basis (and after severe storm events) to identify the condition of the riparian zone and any significant erosion or creek stability issues ● ensure that sufficient resources and time are allocated to implement the Lockyersleigh Creek Riparian Plan monitoring program ● periodically review progress against condition improvement targets ● ensure all internal and external reporting requirements are met ● facilitate that all relevant records are effectively maintained on site ● ensure that personnel involved in carrying out and monitoring the Lockyersleigh Creek Riparian Plan activities are appropriately qualified, licensed and experienced to undertake the task ● ensure staff and contractors are informed and trained where relevant in relation to controls on activities within the Lockyersleigh Creek Riparian areas
Holcim Staff and Contractors	<ul style="list-style-type: none"> ● receive training regarding controls on activities within the Lockyersleigh Creek Riparian area ● observe boundaries of Lockyersleigh Creek Riparian area when undertaking work on site ● undertake activities in Lockyersleigh Creek Riparian area in line with directions from Operations Manager and Environmental Officer

14. References

Asset Geotechnical 2005. Proposed Hard Rock Quarry Marulan –Report on Geotechnical Investigation. Prepared for Umwelt (Australia) Pty Limited.

Department of Natural Resources, 2003. Soil Landscapes of the Goulburn Region 1:100 000 Sheet. Soil Conservation Service of NSW, Sydney.

Umwelt (Australia) Pty Limited 2005. Environmental Impact Statement. Readymix Holdings Pty Ltd. Proposed Lynwood Quarry, Marulan.

Umwelt (Australia) Pty Limited, 2009. Statement of Environmental Effects Proposed Minor Modifications to Lynwood Quarry, Marulan. Prepared for CEMEX.

Umwelt (Australia) Pty Limited, 2010. Environmental Assessment - Proposed Modifications to Lynwood Quarry, Marulan. Prepared for Holcim (Australia) Pty Limited.

Umwelt (Australia) Pty Limited, 2015. Environmental Assessment – Extraction Area Modification. Prepared for Holcim (Australia) Pty Limited.

Appendix 1 – Independent Environmental Audit + Action List

Kleinfelder 2020

15. Change Information

Table 7 summarises the main changes in the management plan updates.

Table 7 Summary of Document Changes

Version	Date	Change Summary
1	<i>Unknown</i>	Original Plan
2	March 2011	<i>Unknown</i>
3	November 2020	<p>Review of the template for all Lynwood management plans;</p> <ul style="list-style-type: none"> ● General structure updates throughout the document; ● Section 2 – Consultation (new section added); ● Section 3 – Statutory requirements – separate section; ● Section 4 – update to baseline information; ● Section 10 – addition of TARP; and ● Section 15 – inclusion of change information. <p>The following did not change:</p> <ul style="list-style-type: none"> ● No change to monitoring or reporting requirements; and ● No change to figures.
4	September 2021	<ul style="list-style-type: none"> ● Updated IEA reference to 2020 ● Updated Section 5.4 for IEA audit ● Added Appendix A and Appendix B

Holcim - Lynwood Quarry

Independent Environmental Audit 2020

17 December 2020





Holcim - Lynwood Quarry

Independent Environmental Audit 2020

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Prepared for:

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Document Control:

Version	Description	Date	Author	Technical Reviewer	Peer Reviewer
1.0	Draft	24/11/2020	A.Walsh	R.Townsend	B.Deane
2.0	Final	17/12/2020	A.Walsh	R.Townsend	B.Deane

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TABLE OF CONTENTS

DOCUMENT CONTROL:	2
INDEPENDENT AUDIT DECLARATION FORM	5
1 INTRODUCTION.....	7
1.1 SITE DESCRIPTION	7
1.2 ACTIVITIES DURING THE AUDIT PERIOD	8
1.3 AUDIT OF APPROVED QUARRY OPERATIONS.....	8
1.4 AUDIT OBJECTIVES.....	11
1.5 AUDIT SCOPE	11
1.6 AUDIT SCHEDULE AND PERIOD	13
1.7 APPROVAL AND DOCUMENT LIST	13
2 AUDIT CONTEXT	15
2.1 HOLCIM ENVIRONMENTAL SYSTEMS.....	15
2.2 ENVIRONMENTAL MANAGEMENT PLANS.....	15
3 AUDIT PROCESS AND METHODOLOGY	16
3.1 SELECTION AND AGREEMENT TO THE AUDITOR	16
3.2 PRELIMINARY AUDIT ACTIVITIES.....	16
3.3 OPENING MEETING.....	16
3.4 SITE INSPECTION.....	16
3.5 AGENCY CONSULTATION.....	16
3.6 CLOSING MEETING	17
3.7 ASSESSMENT CRITERIA AND METHOD OF REPORTING	18
4 PREVIOUS AUDIT FINDINGS.....	19
4.1 PREVIOUS AUDIT FINDINGS	19
5 AUDIT FINDINGS 2020	34
5.1 OVERVIEW.....	34
5.2 SUMMARY OF COMPLIANCE	34
5.3 NON-COMPLIANCES AND ADDITIONAL RECOMMENDATIONS.....	34
5.4 SUMMARY OF ANY AGENCY NOTICES, ORDERS, PENALTY NOTICES OR PROSECUTIONS	50
5.5 AGENCY CONSULTATION AND COMMENTS	50
5.6 ASSESSMENT OF ACTUAL IMPACTS AGAINST PREDICTED IMPACTS.....	58
5.7 SITE PHOTOGRAPHS.....	59
APPENDIX A – DEVELOPMENT CONSENT COMPLIANCE REGISTER.....	67
APPENDIX B – STATEMENT OF COMMITMENTS COMPLIANCE REGISTER.....	69
APPENDIX C – ENVIRONMENTAL PROTECTION LICENCE COMPLIANCE REGISTER	71
APPENDIX D – AGENCY CONSULTATION LETTER	73
APPENDIX E – AGENCY CONSULTATION RESPONSES.....	74
APPENDIX F - AUDIT TEAM APPROVAL	75



LIST OF TABLES

Table 1-1:	Legal Property Description of the Site.....	7
Table 1-2:	Approved Quarry Operations vs Site Inspection Findings (29 September 2020).....	9
Table 1-3:	Audit Scope	12
Table 3-1:	Compliance Status Descriptors.....	18
Table 4-1:	Previous Audit Non-compliance Summary and Status Update as per 2020 Audit	20
Table 5-1:	Summary of Compliance	34
Table 5-2:	Non-compliance summary	35
Table 5-3:	Additional Recommendations	40
Table 5-4:	Summary of Agency Consultation.....	51
Table 5-5:	Actual Impacts of the Project Compared to Predicted Impacts	58

LIST OF FIGURES

Figure 1:	Quarry Entrance Sign.....	59
Figure 2:	Driving Safety Sign at Quarry Entrance	60
Figure 3:	Covered loaded truck leaving site	60
Figure 4:	Signage for protected areas.....	61
Figure 5:	Fenced protected area	61
Figure 6:	Protected tree with cultural heritage significance.....	62
Figure 7:	Cleared vegetation stockpiled for rehabilitation and providing temporary habitat	62
Figure 8:	Dust suppression occurring via water cart on sand/sediment road	63
Figure 9:	Dust suppression occurring via water cart on aggregate road	63
Figure 10:	Light screen for visual amenity.....	64
Figure 11:	Water spray applied to product stockpiles for dust suppression.....	64
Figure 12:	Dust suppression (polymer) applied to product stockpiles	65
Figure 13:	View south over quarry with visual amenity bund visible in the background	65
Figure 14:	Storage of oils within bunded containers	66



INDEPENDENT AUDIT DECLARATION FORM

Project name	Lynwood Quarry
Consent number	DA 128-5-2005
Description of project	Lynwood hard rock quarry and associated infrastructure
Project address	Unnamed Road, Marulan NSW 2579
Proponent	Holcim (Australia) Pty Ltd
Title of audit	Lynwood Quarry Independent Environmental Audit
Date	20/11/2020

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge:

- the audit has been undertaken in accordance with relevant approval condition(s) of consent and in accordance with the *Independent Audit Post Approval Requirements* (Department 2018);
- the findings of the audit are reported truthfully, accurately and completely;
- I have exercised due diligence and professional judgement in conducting the audit;
- I have acted professionally, objectively and in an unbiased manner;
- I am not related to any proponent, owner or operator of the project neither as employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent or child;
- I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent or child;
- neither I nor my employer have provided consultancy services for the audited development that were subject to this audit except as otherwise declared to the Department prior to the audit; and
- I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from fair payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Note:

- a) Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000; and
- b) The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both).

Name of auditor	Andrew Walsh
Signature	
Qualification	Bachelor of Applied Science (Ecology) Environmental Management Systems Auditor (including regulatory compliance) – Exemplar Global, Certificate # 208536, expiry 14 Jul 2021



Company	Kleinfelder Australia Pty Ltd
Company address	95 Mitchell Road, Cardiff, NSW, 2285



1 INTRODUCTION

Kleinfelder Australia Pty Ltd (KLF) has been commissioned to organise an Independent Environmental Audit (audit) of the Holcim Australia Pty Limited (Holcim) Lynwood Quarry (the quarry), located near Marulan in the Southern Tablelands region of New South Wales (NSW).

1.1 SITE DESCRIPTION

The quarry was approved by the Minister for Planning on 21 December 2005. DA 128-5-2005 which includes the construction and operation of a 5 million tonne per annum (mtpa) hard rock quarry. Since the original development approval, five modifications have been made to the DA 128-5-2005, the most significant of which included reconfiguration of the rail load out and site facilities to optimise site infrastructure and layout, and a transition from the originally approved extraction area to a granite extraction area (Modification 4, approved 18 May 2016) (MOD 4).

The legal property description for the site under audit is provided in [Table 1-1](#).

Table 1-1: Legal Property Description of the Site

Deposited Plan (DP)	Lot Number	Owner
750029	112	Holcim
750029	230	Holcim
750029	294	Holcim
700579	10	Holcim
1025603	7001	Crown land
1025604	7002	Crown land
1036993	3-4	Holcim
1074107	1 and 3	Holcim
1074819	1	Holcim
1107232	2	Holcim
1116876	1	Essential Energy
1116876	2	Holcim
1117910	1	Holcim
196132	2-15	Holcim
758653	2-4/Section 5	Holcim
758653	1/Section 5	Crown land
758653	Part 7 and Section 1	Holcim
758653	10/Section 10	Privately owned
111641	10-11	Holcim
214304	2	Holcim
797340	1-14	Holcim
1140546	1-6	Holcim
1112296	8	Holcim
111640	3	Holcim
1111583	1-2	Holcim
1167866	103	Roads and Maritime Service
1167866	101	Crown
1140546	6	Privately owned
1117910	2	Goulburn Mulwaree Council
1155889	1-3	Crown
1160864	7308	Crown



Deposited Plan (DP)	Lot Number	Owner
		Part Joarimin Creek
		Part Main Southern Railway
		Part Hume Highway
		Part Marual South Road
		Part Stoney Creek Road
		Part Jerrara Road
		Crown Land and Crown Road
		Reserves within the DA area

1.2 Activities During the Audit Period

At the time of KLF's site inspection on 29 September 2020, the quarry was in the operational phase with activity occurring at the Granite Pit. Significant rehabilitation has not yet commenced due to the early stage in the life of the quarry.

The 2019 Annual Environmental Review (AER) for the quarry states current operations are as follows:

"On 18 May 2016, Lynwood Quarry was granted modification [Mod 4] to commence quarrying and associated activities in an alternative resource known as the Granite Pit located to the west of the Approved Pit area. The approval also allowed for the reduction in the extent of the approved pit to reflect limitations within the ignimbrite resource. In 2019 operations continued in the Granite Pit. Full scale quarrying operations were completed within the Lynwood Ignimbrite Pit in March 2018. The small scale of ongoing campaign quarrying in this area reflects the limitations of the quarry resource. Quarrying operations commenced in the Granite Pit in 2017 and continued in 2019.

The quarrying process on site consists of the following four stages:

- *Clearing and topsoil stripping – typically undertaken using a dozer and/or excavator in accordance with Lynwood Quarry's clearing procedure, with selected material stockpiled for later use in rehabilitation;*
- *Overburden removal and emplacement – overlain material is typically removed via blasting and hauled to emplacement areas;*
- *Blasting, loading and haulage of primary raw feed (PRF) material – target resource removed via drill and blast then loaded by front-end loaders into haul trucks for transportation to the primary crusher; and*
- *Crushing and screening – resources are processed by the primary crusher are then transported via conveyor to the infrastructure area for tertiary processing and screening. Products are stockpiled awaiting transport to local, regional and Sydney markets via road and rail transportation methods. The construction of the earthen visual amenity bund also continued in 2019."*

1.3 Audit of Approved Quarry Operations

Table 1.2 provides an overview of audited quarry operations, as approved under Modification Application DA 128-5-2005 MOD 4 and the accompanying letter, *Proposed Modification to Development Consent – Lynwood Quarry*.



Table 1-2: Approved Quarry Operations vs Site Inspection Findings (29 September 2020)

Component	Approved development (Consolidated Mod 5 2017)	Site inspection findings
Quarry lifespan	To 2038	No change -compliance
Quarry production	5 mtpa	No change -compliance
Estimated resource	145 mt of quarry products	No change -compliance
Quarrying and extraction method	Excavation, drill and blast, load and haul	No change -compliance
Processing method	Crushing and screening	No change -compliance
Product transport	transportation of up to 5 mtpa via Rail (5mtpa max) and road transport (1.5 mtpa max),	No change -compliance
Site and related infrastructure	<p><u>Site Infrastructure:</u> Processing and handling plant, pre-coat plant, site workshop, laboratory, office and administration, and staff amenity buildings, rail infrastructure, truck loading infrastructure, dams, weighbridge, and other minor infrastructure. Additional haul road to service new Granite Pit, amenity bund, water management structures and other minor ancillary additions.</p> <p><u>Transport Infrastructure:</u> Construction of a grade separated interchange with the Hume Highway, Marulan South Road and Jerrara Road, quarry access road off the Hume Highway, rail loop off the Main Southern Rail Line, and truck and train loading facilities.</p>	<p>No change -compliance</p> <p>Construction is now largely complete. Construction of the amenity bund is ongoing with expected completion in early 2021.</p>
Hours of operation	<ul style="list-style-type: none"> Quarrying/extraction - 7 am to 10 pm Monday to Sunday; Topsoil/overburden removal/emplacement/drilling - 7 am to 6 pm; Processing/loading/delivery/maintenance - 24 hours, 7 days a week; and Product transport - 24 hours, 7 days a week. 	No change -compliance
Blasting hours	9am to 5pm Monday to Saturday (no blasting on Sundays or Public Holidays)	No change -compliance



		No blasting during site visit but Declan Close (Quarry Manager) confirmed compliance, as do Annual Reviews from the audit period)
Operational workforce	Approximately 115 full time employees	No change - compliance
Final landform/ rehabilitation	Rehabilitation of emplacement areas and quarry benches. Final use of the quarry pit could include water storage or recreational facility, or in-pit dumping of overburden and excess product storage should the life of the quarry be extended beyond Year 30.	No Change – Compliance. The quarry has a Rehabilitation and Landscape Management Plan (RLMP) in place, (Current revision May 2018). The RLMP is used to inform ongoing rehabilitation and land management practices during the life of the quarry, as well as a conceptual decommissioning plan. Significant rehabilitation has not yet commenced due to the early stage in the life of the pit and continued expansion of the disturbance footprint at present.



1.4 Audit Objectives

This Independent Environmental Audit is required under Schedule 5, Condition 11 of DA 128-5-2005. The current version of the DA 128-5-2005 is from May 2017 and referred to as Modification 5 (MOD-5).

The objectives of the audit are to meet the requirements of Schedule 5, Condition 11 of DA 128-5-2005 which states:

“By 30 September 2017, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:

- (a) be conducted by a suitably qualified, experienced, and independent team of expert whose appointment has been endorsed by the Secretary;*
- (b) include consultation with relevant agencies and the CCC;*
- (c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL and/or Water Licence (including any assessment, plan or program required under these approvals);*
- (d) review the adequacy of any approved strategy, plan or program required under these approvals;*
- (e) recommend measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under these approvals’ and*
- (f) be conducted and reported to the satisfaction of the Secretary.*

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

This audit has been prepared in accordance with:

- The NSW Government’s (June 2018) *Independent Audit: Post-Approval Requirements* (Independent Audit PAR); and
- AS/NZS ISO 19011:2014 Guidelines for Auditing Management Systems.

1.5 Audit Scope

As noted in the Independent Audit PAR 2018, the minimum requirements of the audit are:

- An independent audit program, including an audit schedule (refer to Section 1.6 and audit tables in Appendices A, B and C);
- an independent audit methodology (refer to Section 2), including selection of the auditor and any technical specialists that may be required, scope development, interviews, inspections, consultation and an evaluation of compliance; and
- an independent audit report.

The audit scope was determined in accordance with Section 3.3 of the Independent Audit PAR 2018. It has been summarised in Table 1.3, which also references each section where the particular aspect has been addressed.



Table 1-3: Audit Scope

Independent Audit PAR 2018 Scope Requirement	Addressed
1. Assessment of compliance with:	
a) Conditions of consent applicable to the phase of the development that is being audited:	Section 1.5 Appendix A, B and C
b) All post approval documents prepared to satisfy the conditions of consent, including an assessment of the implementation of Environmental Management Plans and Sub-plan;	Section 2.2 Appendix A, B and C
c) All environmental licences and approvals applicable to the development excluding Environment Protection Licences issued under the <i>Protection of the Environment Operations Act 1997</i>	Section 1.5 Section 2.2 Appendix A
2. An assessment of the environmental performance of the development, including but not necessarily limited to, an assessment of:	
a) actual impacts compared to predicted impacts documented in the environmental impact assessment;	Section 5.6 Appendix A, B and C
b) the physical extent of the development in comparison with the approved boundary, and any potential off-site impacts;	Table 1.1 Appendix A, B and C
c) incidents, non-compliances and complaints that occurred or were made during the audit period;	Section 5 Appendix A, B and C
d) the performance of the development having regard to agency policy and any particular environmental issues identified through consultation carried out when developing the scope of the audit;	Section 5.5
e) feedback received from the Department, and other agencies and stakeholders, including the community or Community Consultative Committee, on the environmental performance of the project during the audit period;	Section 5.5
3. the status of implementation of previous Independent Audit findings, recommendations and actions (if any);	Section 4.1
4. a high-level review of the project's environmental management systems (if any), including assessment of any third party certification of them, the type, nature and scope of the systems having regards to the nature and scale of the development, and the implementation of the systems. It is not expected that an Independent Audit compromises a management system audit, however any key deficiencies identified in the system should be discussed;	Section 2.1
5. a high-level assessment of whether Environmental Management Plans and Sub-plans are adequate; and	Section 2.2 Section 3.3 Appendix A



Independent Audit PAR 2018 Scope Requirement	Addressed
6. any other matters considered relevant by the auditor or the Department taking into account relevant regulatory requirements and legislation and knowledge of the development's past performance.	There were no other matters that required consideration.

This audit covers the activities undertaken by Holcim and its contractors, relating to the quarries that are referred to in the regulatory approvals listed above.

1.6 Audit Schedule and Period

This is the fourth Independent Environmental Audit for the quarry and considers the period since the last audit from September 30 2017 to September 30 2020. The site visit for the audit was performed on 29 September 2020 in compliance with the requirements of Schedule 5, Condition 11 of DA 128-5-2005. Schedule 5, Condition 12 of DA 128-5-2005 requires this report to be submitted within 12 weeks of September 30 2020.

This audit has identified that the reports for the previous four audits are available on Holcim's website. The previous audit was required by 30 September 2017 as per Schedule 5, Condition 11 of DA 128-5-2005 but was only finalised in March 2019 due to both personal circumstance of the previous audit team, and the departure of key personnel from Holcim during the previous audit period. As such, only eighteen months has passed since finalisation of the previous audit. Due to these delays the previous audit considered evidence made available during 2018 and so there is some overlap in evidence from the current and previous audit periods.

1.7 Approval and Document List

The 2020 audit has considered the conditions, commitments and requirements listed in the following documents:

- Environmental Impact Statement (EIS) for the Proposed Lynwood Quarry Marulan, Volumes 1 to 4, May 2005 (Umwelt 2005);
- Modification Application DA-128-5-2005 MOD 1 and the accompanying Statement of Environmental Effects: Proposed Minor Modifications to Lynwood Quarry, Marulan, January 2009 (Umwelt 2009);
- Modification Application DA 128-5-2005 MOD 2 and the accompanying Environmental Assessment for Proposed Modifications to Lynwood Quarry, Marulan, October 2010, (Umwelt 2010) and the response to submissions January 2011 (Umwelt 2011)
- Modification Application DA 128-5-2005 MOD 3 and the accompanying letter, Holcim Lynwood DA128-5-2005; DA128-5-2005 Modification 1 and DA128-5-2005 Modification 2, 17 June 2011 (Holcim 2011);
- Modification Application DA 128-5-2005 MOD 4 and the accompanying letter, Proposed Modification to Development Consent – Lynwood Quarry;
- Modification Application DA 128-5-2005 MOD 5 and the accompanying Department of Planning and Environment (DPE) Assessment Report (29 May 2017). MOD 5 is a consolidated consent that incorporates MOD1 – Mod 5 listed above;
- Environment Protection Licence (EPL) 12939, latest variation dated 28 August 2020;
- Water Works Approval 10WA102709 (WWA), Water Access Licence 25575 10AL102708 (WAL) and Water Use Approval 10UA119159 (WUA); and



- Environmental management plans and programs that are required under the approvals listed above and consider the commitments made in the EIS including:
 - Environmental Management Strategy (February 2020);
 - Air Quality Management Plan (October 2016);
 - Rehabilitation and Landscape Management Plan (May 2018);
 - Blast Management Plan (February 2020);
 - Noise Management Plan (February 2020);
 - Marulan Aboriginal Heritage Management Plan (July 2018);
 - Waste Management and Minimisation Strategy (2017);
 - Construction Traffic Management Plan (June 2011); and
 - Water Management Plan (June 2011 / revised draft version 2020 pending approval);
 - Joarimin Creek Riparian Area Management Plan (June 2011);
 - Lockyersleigh Creek Riparian Area Management Plan (June 2011);
 - Marulan Creek Riparian Area Management Plan (June 2011);
 - Pollution Incident Response Management Plan (September 2018)
 - Groundwater Monitoring Program (June 2011)
 - Surface Water Monitoring Program (June 2011)
- Quarterly Noise Monitoring Reports
- Environmental Monitoring Data for the audit period;
- Incident reports for the audit period;
- Documentation relevant to bonds;
- Agency Consultation for the audit period



2 AUDIT CONTEXT

2.1 Holcim Environmental Systems

An existing Environmental Management Strategy (EMS) for Lynwood Quarry was updated in February 2020. The EMS details how the Lynwood Quarry will operate in accordance with Holcim Environmental Policy, and provides an overview of the key operational methods utilised to manage environmental and community issues at Lynwood Quarry. The auditor has sighted the EMS and considers it fit for purpose.

Holcim operates an Incident Reporting system called InControl. This system records Status, Event Type, Responsible Manager, and a description of the incident. A summarised 'Event Report Listing' for the audit period was supplied to the auditor.

2.2 Environmental Management Plans

The conditions of approval required the following environmental management plans for the site which have been approved by the Secretary of DPIE (the Secretary):

- Environmental Management Strategy (Latest Revision: February 2020);
- Air Quality Management Plan (October 2016);
- Rehabilitation and Landscape Management Plan (May 2018);
- Blast Management Plan (February 2020);
- Noise Management Plan (February 2020);
- Marulan Aboriginal Heritage Management Plan (July 2018);
- Waste Management and Minimisation Strategy (2017);
- Construction Traffic Management Plan (June 2011); and
- Water Management Plan (June 2011);
- Joarimin Creek Riparian Area Management Plan (June 2011);
- Lockyersleigh Creek Riparian Area Management Plan (June 2011);
- Marulan Creek Riparian Area Management Plan (June 2011);
- Groundwater Monitoring Program (June 2011)
- Surface Water Monitoring Program (June 2011)

The following environmental management plans and programs have been revised and at the time of audit are currently in draft and awaiting review and approval by the Secretary:

- Water Management Plan (June 2020); and
- Air Quality Management Plan (September 2020);

The individual management plans manage specific environmental aspects at Lynwood Quarry as required by the conditions of approval. These have generally been considered by the auditor to be adequate, with further detail regarding implementation provided in the audit compliance register available in Appendix A, B and C .



3 AUDIT PROCESS AND METHODOLOGY

3.1 Selection and Agreement to the Auditor

Holcim sought the Secretary's endorsement for the audit team to undertake this Independent Environmental Audit.

The Secretary approved the following team on 24 August 2020 (Appendix F):

- Lead Auditor, Andrew Walsh – Certified Auditor (Exemplar Global)
- Audit Support, Rob Townsend – Senior Environmental Advisor

3.2 Preliminary Audit Activities

The auditor requested documentation from Holcim in order to plan the audit and to populate a Request for Information (RFI) that was issued to Holcim. Following the issue of the RFI, Holcim provided links to much of the information which was available on 'Google Docs', Holcim's preferred method of storing and accessing data, or directed to the Lynwood dedicated pages on the Holcim website. Any information in the RFI that was not provided at this stage was requested via emails, and any outstanding items were further requested in the Opening Meeting on the day of the Site Audit. Compliance related documents that were not available prior to or during the site visit were requested to be provided following the audit.

3.3 Opening Meeting

The opening meeting was held at the start of the site visit on 29 September 2020. In attendance from Holcim were:

- Declan Close – Lynwood Quarry Manager
- Rebecca Maclean – Lynwood Quarry Support Services Supervisor.

3.4 Site Inspection

A full day site inspection was undertaken by Andrew Walsh and Robert Townsend on 29 September 2020.

The following site personnel were interviewed during the audit:

- Declan Close – Lynwood Quarry Manager
- Rebecca Maclean – Lynwood Quarry Support Services Supervisor.

It should be noted that due to COVID-19, face to face interviews were limited to only the above personnel for safety reasons. It is considered that all the necessary information was conveyed through these personnel.

The site was operational on the day of the site inspection, although active blasting and extraction was not occurring, nor were train load out operations.

3.5 Agency Consultation

Schedule 5, Clause 11(b) of DA-128-5-2005 requires that the audit include consultation with the relevant agencies and the Community Consultative Committee (CCC).

Section 3.2 of the Independent Audit PAR 2018 requires the auditor to consult with DPIE and other agencies and stakeholders, including the CCC, to obtain their input into the scope of the audit.

Consultation letters were sent to the agencies listed below on 23 September 2020 requesting comment on:

- the involvement that the agency has had with the quarry since the last audit;
- the compliance of the quarry with conditions relevant to the agency; and
- any general comments the agency has on the quarry's general environmental performance.



Letters were sent to the following agencies/stakeholders:

- DPIE (Compliance);
- DPIE Crown Lands;
- WaterNSW;
- NSW Environment Protection Authority (EPA);
- NSW Natural Resources Access Regulator (NRAR);
- Heritage Council of NSW (Heritage Council);
- NSW Roads and Maritime Services (RMS);
- NSW Department of Primary Industries (DPI);
- DPI – Fisheries;
- Goulburn Mulwaree Council (Council); and
- Brendan Blakeley, Director, Elton Consulting – the quarry’s CCC Chair.

Five agencies responded to agency consultation letters, with their comments and audit responses reported in Section 5.5 and Table 5-5 with full copies of responses provided in Appendix E. These agencies were:

- DPIE (Compliance);
- NSW Environment Protection Authority (EPA);
- Heritage Council of NSW (Heritage Council);
- Goulburn Mulwaree Council (Council); and
- Brendan Blakeley, Director, Elton Consulting – Lynwood quarry’s CCC Chair.

No comments were received from:

- WaterNSW
- NRAR
- DPI-Fisheries
- RMS
- DPIE Crown Lands
- NSW Roads and Maritime Services (RMS);

3.6 Closing Meeting

A closing meeting was held via teleconference on 17 December 2020. In attendance were:

- Andrew Walsh (Auditor)
- Rob Townsend (Audit Support)
- Shilpa Shashi (Holcim Planning and Environment Coordinator NSW / ACT)

The audit team presented the audit findings and discussed non-compliances and recommendations. Holcim’s Planning and Environment Coordinator presented comment given by the Lynwood Quarry Manager and Lynwood Quarry Support Services Supervisor.



3.7 Assessment Criteria and Method of Reporting

The content of this audit report and the method of reporting is consistent with the Independent Audit PAR 2018.

The compliance assessment criteria adopted for this audit is in accordance with the compliance status descriptors provided within the Independent Audit PAR 2018. The compliance status descriptors are summarised in **Table 3-1**.

Table 3-1: Compliance Status Descriptors

Assessment	Criteria
Compliant	The auditor has collected sufficient verifiable evidence to demonstrate that all elements of the requirement have been complied with within the scope of the audit.
Non-compliant	The auditor has determined that one or more specific elements of the condition's or requirements have not been complied with within the scope of the audit.
Not triggered	A requirement has an activation or timing trigger that has not been met during the temporal scope of the audit being undertaken (may be a retrospective or future requirement), therefore an assessment of compliance is not relevant.
Note	A statement or fact, where no assessment of compliance is required.



4 PREVIOUS AUDIT FINDINGS

4.1 Previous Audit Findings

As per the Independent Audit PAR 2018, an update of the status of implementation of previous IEA findings, recommendations and actions are provided in **Table 4.1** below.



Table 4-1: Previous Audit Non-compliance Summary and Status Update as per 2020 Audit

Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
Schedule 2, Condition 9	<p>The Applicant must ensure that any new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.</p> <p>Notes:</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 any building works. • Part 8 of the EP&A Regulation sets out the detailed requirements for the certification of development 	Non-Compliant	<p>Construction and occupation certificates are not available for the pre-coat plant constructed within the audit period (22 October to 9 January 2018).</p> <p>Recommendation (REC1): the construction and occupation certificates for the precoat plant are obtained.</p>	<p>Compliant</p> <p>Official caution issued by DPIE on 30/03/2020.</p> <p>From DPIE website: <i>On 30 March 2020, the Department issued an Official Caution to Holcim (Australia) Pty Ltd (Holcim) for constructing a pre-coat plant at its Lynwood Quarry prior to obtaining the construction certificate, in contravention of the Environmental Planning and Assessment Act 1979. Holcim self-reported the breach and have since lodged an application for obtaining a building certificate for the pre-coat plant with the local Council.</i></p> <p>Considered closed following issuing of construction certificate.</p>
Schedule 3, Condition 3	<p>The Applicant must ensure that the noise generated by the operation of the development does not exceed the criteria in Table 1 at any residence on privately-owned land.</p> <p>Table</p> <p>1 Noise Assess Location -- Day(Laeq-15 minutes)/Evening(LAeq(15 minutes)/Night(Laeq-15 minutes)/Night(LA1-1 minute):</p> <p>1 - 35/35/35/45</p> <p>2 - 35/35/35/45</p>	Non-Compliant	<p>Noise is monitored quarterly at four representative locations which are representative of the receivers listed. Annual Environmental Review (September 2015): section 3.0 states that four quarterly monitoring events took place within the reporting period and found that review of all documents confirmed that construction and operation noise complied with legislative noise emission requirements.</p>	<p>Compliant</p> <p>Noise is monitored quarterly at four locations which are representative of the receivers listed in Appendix 3.</p> <p>2018 and 2019 AERs states that four quarterly monitoring events took place within each reporting period and found that review of all documents confirmed that construction and operation noise</p>



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
	3 - 35/35/35/45 4 - 35/37/35/46 5 - 35/35/35/46 6 - 35/37/36/46 7 - 38/38/35/55 8 - 39/38/36/55 9 - 39/39/37/56 10 - 42/42/40/53 11 - 35/35/35/47 12 - 37/37/36/47 13 - 40/38/37/47 14 - 35/35/35/47 15 - 35/35/35/47 16 - 35/35/35/45 Notes: Receiver locations are shown on the plan in Appendix 3.		<p>There was one noise exceedance during the audit period - on 15 June 2016 (Annual Environmental Review (September 2016)). Holcim has undertaken corrective action including notifying the DPE Secretary of the exceedance and actions taken to address the above (sighted letter addressed to Katrina O'Reilly and Margaret Kirton, August 2016).</p> <p>Holcim received noise complaints from the same Marulan resident on two separate occasions. These incidents were reported and managed via the internal INX system. A. White has spoken to concerned residents, and the issue has been closed by Holcim.</p> <p>No further actions are recommended.</p>	<p>complied with legislative noise emission requirements.</p>
Schedule 3, Condition 12	Partial criteria; not the entire condition: Particulate matter <10 µm (PM10) Averaging period: 24 hour Criterion 50 µg/m3	Non-Compliant	<p>Average and maximum 24-hour PM10 concentrations are reported in the Annual Environmental Reviews for the audit period. The annual average was below the 50 µg/m3 criterion in all recorded instances except for one sample (50.9 µg/m3) reported in the Annual Environmental Review (September 2015). This is a marginal exceedance and was attributed to road works adjacent to the high</p>	<p>Non-Compliant</p> <p>The 2018 and 2019 AERs both report that equipment failure resulted in samples not being collected as required due to power supply issues.</p> <p>Equipment has since been upgraded to provide for a more stable power supply. Equipment performance should continue to be monitored to ensure compliance with the averaging periods. While</p>



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
			<p>volume air sampler. This conclusion appears reasonable and there have been no subsequent exceedances</p> <p>Annual Environmental Review (September 2015) reports that 19 scheduled samples were not collected. Annual Environmental Review (September 2016) reports that 2 scheduled samples were not collected. Annual Environmental Review (September 2016) does not report any samples that were not collected. Given this trend, no additional actions are recommended</p> <p>The fortnightly monitoring reports for the last three months of the audit period were examined as a sample of these reports. No exceedances were reported.</p> <p>Annual Environmental Review (March 2017) (Figure 2) presents the air quality trend. The average daily PM10 concentration has generally increased as the quarry is developed and the disturbance area is increasing. The average concentrations are well below the criteria. However, the trend highlights that Holcim will need to</p>	<p>non-compliant during the audit period, no further actions are recommended following the upgrade.</p>



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
			<p>continue to minimise dust generation.</p> <p>No further actions are recommended</p>	
<p>Schedule 3, Condition 16</p>	<p>Except as may be expressly provided by a License, the Applicant must comply with section 120 of the Protection of the Environment Operations Act 1997 during the carrying out of the development.</p>	<p>Non-Compliant</p>	<p>Annual Environmental Review (September 2015) section 7.0 (Water Management) notes that the Type C dam described in the EIS and water management plan would be insufficient to treat the fine sediments expected to run off the catchment area. An alternative dam construction was completed to meet compliance. In this reporting period, there were two overflow events. Investigation led to multiple corrective actions which were accepted by the EPA.</p> <p>Annual Environmental Review (September 2016) section 7.0 (Water Management) provides the surface water and groundwater data results for the 2015–2016 period. There was one dam spill resulting from above the 90th percentile rain event. Full compliance was met for freeboard requirements before the event occurred.</p>	<p>Compliant</p> <p>No uncontrolled discharges or spillages are reported. The Water Management Plan was revised in 2020 and is pending approval at the time of audit.</p>



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
			<p>Annual Environmental Review (March 2017) section 7.0 (Water Management) provides surface water and groundwater data results for the reporting period. Section 12.0 (Incidents and non-compliance) summarises a 1,500–2,000 L diesel spill caused by train fuelling on site. All contamination was contained on site without any harm caused to the receiving environment. Due diligence reporting continued for 6 months.</p> <p>No further actions are recommended.</p>	
<p>Schedule Condition 17</p> <p>3,</p>	<p>Except as may be expressly provided by a License, the Applicant must ensure that any controlled discharge from the controlled discharge points at Sediment Dams A to F comply with the limits in Table 10.</p> <p>Table 10: Surface Water Discharge Limits Pollutant: Unit of measure: 100 Percentile concentration limit Total Suspended Solids: 50 mg/L pH: 6.5-8.5 Oil & Grease: 10 mg/L or none visible.</p>	<p>Non-Compliant</p>	<p>In NSW Department of Primary Industry - Fisheries response to the auditor's request for comments they raised concern related to degradation of downstream water quality and aquatic habitats resulting from sediment and pollutants leaving the quarry working and passing into downstream waterways including "Lockeysleigh Creek, Joarimin Creek and the Wollondilly River."</p> <p>Annual Environmental Review reports for the audit period show that while most TSS and pH values are within the criteria,</p>	<p>Compliant</p> <p>No uncontrolled discharges or spillages are reported. The Water Management Plan was revised in 2020 and is pending approval at the time of audit. Monitoring results regarding surface and groundwater were within established trigger levels in both 2018 and 2019 reporting periods.</p>



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
			<p>there have been some minor exceedances.</p> <p>2005 EIS: Appendix 8, section 4.4.2.2: "Flocculation will be used to ensure that sediment loads from the site are not increased from the existing situation and that overflows have suspended sediments at concentrations of less than 50 mg/L."</p> <p>The Annual Environmental Review (September 2016) report states that Holcim has planted tubestock in riparian area of Joaramin Creek. The plantings are intended to stabilise the riparian areas in the Joaramin Creek through extensive tree planting. It is expected this will in time reduce the level of sediments entering the waterways</p> <p>Surface water data in AER reports for the audit period states oil and grease were tested and were within parameters of the site's water management plan. Appendix 8, section 4.4.2.2: "Oil separators will be placed downstream from high traffic areas". "Flotation curtains will be placed at the outlets of all dams in order to</p>	



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
			<p>protect downstream water quality in the event of oil spillage."</p> <p>Recommendation (REC4): water quality monitoring should continue in accordance with the Water Management Plan (July 2018) and the EPL.</p>	
Schedule 3, Condition 19(c)	(c) construct impervious bunds around all fuel, oil, chemical storage areas that are large enough to contain 110% of the volume held in the largest container in accordance with the requirements in the OEH Bunding and Spill Management manual; and	Non-Compliant	<p>Site observations indicated that all oil, chemical storage areas are large enough and comply with requirements in this condition. During the audit, one blue storage drum was observed close to the stormwater drain (see photograph provided in report). Although stored on concrete, it was not in a bunded area and was easy to knock over.</p> <p>Recommendation (REC7): all that drums (and any other chemical storage containers) are stored in appropriately bunded areas at all times.</p>	<p>Compliant</p> <p>Site observations demonstrated appropriate storage of chemicals. Bunded containers are in use. Spill response kits were sighted.</p>
Schedule 3, Condition 25	The vehicular crossing of Lockyersleigh Creek as detailed in EA (Mod 4) must be designed and constructed in accordance with the Policy and Guidelines for Fish Friendly Water Crossings (DPI Fisheries, 2004) and Why Do Fish Need to Cross the Road? Fish Passage Requirements for	Non-Compliant	<p>There is no evidence that design plans were submitted to DPI Fisheries for approval prior to the construction of the vehicular crossing of Lockyersleigh Creek.</p> <p>Recommendation (REC8): DPI Fisheries is consulted regarding the suitability of the</p>	<p>Compliant</p> <p>A site interview with R. Mclean identified that discussions have been held regarding the design plans with DPI fisheries to close this out and correspondence was witnessed with DPI Water having no objections to the design plans provided.</p>



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
	Waterway Crossings (2004) to the satisfaction of DPI Fisheries. Design plans should be submitted to DPI Fisheries for approval prior to the construction.		vehicular crossing of Lockyersleigh Creek.	
Schedule 3, Condition 46	Within 3 months of the Independent Environmental Audit (see Condition 11 in Schedule 5), the Applicant shall update the Rehabilitation and Landscape Management Plan to the satisfaction of the Secretary.	Non-Compliant	The second Independent Environmental Audit was finalised on 25 February 2015. The plan was not updated by 25 May 2015. However, project MOD4 was underway that resulted in the site being reconfigured. This plan has subsequently been updated and approved. No further actions are recommended.	Compliant The current plan is dated May 2018. The previous audit was scheduled for 2017 but was not finalised until 2019 due to delays. As this current plan was updated during this timeframe and following commencement of the audit process, it is considered adequate, although technically non-compliant. This has resulted in the following recommendation: Recommendation 8: Ensure that the Rehabilitation and Landscape Management Plan is updated to the satisfaction of the secretary within 3 months of this audit.
Schedule 3, Condition 48	Within 3 months of each Independent Environmental Audit (see Condition 11 in Schedule 5) after the lodgement of the rehabilitation bond, the Applicant must review, and if necessary revise the sum of the bond to the satisfaction of the Secretary. This review must consider:	Non-Compliant	The second Independent Environmental Audit was finalised on 25 February 2015 so the bond review should have been completed by 25 May 2015. We understand that a bond of \$6,664,000 was approved in February 2017, and the DPE notified as per email provided as evidence.	Non-Compliant The auditor has not been provided any evidence of a bond review occurring following the previous audit. This has resulted in the following recommendation:



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
			<p>This was not within the required timeframe.</p> <p>No further actions are recommended.</p>	<p>Recommendation 9: Review and if necessary revise the bond to the satisfaction of the Secretary.</p>
Schedule Condition 48(a) 3,	(a) the effects of inflation;	Non-Compliant	<p>No evidence was sighted that the bond amount considered the effects of inflation.</p> <p>Recommendation (REC9): bond calculations are filed to allow future review.</p>	<p>Non-Compliant</p> <p>The auditor has not been provided any evidence of a bond review occurring following the previous audit.</p> <p>This has resulted in the following recommendation: Recommendation 9: Review and if necessary revise the bond to the satisfaction of the Secretary.</p>
Schedule Condition 48(b) 3,	(b) any changes to the total area of disturbance; and	Non-Compliant	<p>No evidence was sighted that the bond amount considered the any changes to the total area of disturbance.</p> <p>Recommendation: bond calculations are filed to allow future review.</p>	<p>Non-Compliant</p> <p>The auditor has not been provided any evidence of a bond review occurring following the previous audit.</p> <p>This has resulted in the following recommendation: Recommendation 9: Review and if necessary revise the bond to the satisfaction of the Secretary.</p>
Schedule Condition 48(c) 3,	(c) the performance of the rehabilitation against the completion criteria of the Rehabilitation and Landscape Management Plan.	Non-Compliant	<p>No evidence was sighted that the bond amount considered performance criteria.</p> <p>Recommendation: refer to REC9.</p>	<p>Non-Compliant</p> <p>The auditor has not been provided any evidence of a bond review occurring following the previous audit.</p>



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
				<p>This has resulted in the following recommendation: Recommendation 9: Review and if necessary revise the bond to the satisfaction of the Secretary.</p>
<p>Schedule 4, Condition 1(a)</p>	<p>(a) an exceedance of any relevant criteria in Schedule 3, the Applicant must notify the affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and</p>	<p>Non-Compliant</p>	<p>A noise exceedance is noted in the Annual Environmental Review (September 2016) report at assessment location 11. DPE is notified of any exceedance in writing, which is attached as an attachment to the Annual Environmental Review reports. This location appears to be representative of three residences (11, 14 and 14). As described in the Annual Environmental Review Attachment 1, actions were taken to ensure that the situation was rectified. We understand that Bruce Dugan was notified about an exceedance in noise, which did not affect their property. However, evidence was not provided that landowners at all potentially affected residences were notified. Recommendation (REC10): the procedure for responding to/notifying exceedances to all landowners that are potentially impacted by any noise exceedance is reviewed.</p>	<p>Compliant</p> <p>No exceedances requiring ongoing reporting to landowners are detailed in the AERs within the audit period (i.e. since the previous audit). Short term PM10 exceedances are attributed to bushfire activity not related to site, or nearby agricultural activities.</p>



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
Schedule 5, Condition 5	<p>Within 3 months of the submission of an:</p> <p>(a) incident report under condition 8 below;</p> <p>(b) Annual Review under condition 10 below;</p> <p>(c) audit report under condition 11 below; and</p> <p>(d) any modifications to this consent, the Applicant must review, and if necessary revise, the strategies, plans, and programs required under this consent, to the satisfaction of the Secretary.</p> <p>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development.</p>	Non-Compliant	<p>This condition requires that all strategies, plans, and programs are reviewed annually and more frequently if there is an incident, audit, or modification during the year. While a number of plans were reviewed within the required timeframe, some plans remain not updated.</p> <p>Recommendation (REC16): all strategies, plans, and programs should be reviewed as soon as possible.</p> <p>Recommendation (REC17): a register is established that shows when each strategy, plan, and program was reviewed in accordance with this condition; stating whether updates were required.</p>	<p>Compliant</p> <p>Sighted signed 'Evidence of Internal Review' forms indicating review process of all management plans was underway, or complete with a required action.</p> <p>2018 AER states: During the 2018 report period, management plans were not updated three months after the submission of the Annual Review. It is noted this was corrected in the following reporting period (2019) so assumed to be closed out and now compliant.</p> <p>However this resulted in the following recommendation: Recommendation 16: Establish a register to ensure accurate tracking of strategy, plan and program updates against required timeframes.</p>
Schedule 5, Condition 10	<p>Relevant part of condition: The Applicant must ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee (see condition</p>	Non-Compliant	<p>While the Annual Environmental Review reports are available on the Holcim website, there is no evidence that that the Annual Environmental Reviews in the reporting period were submitted directly to Council.</p>	<p>Non-Compliant</p> <p>While the AERs are publicly available on the Holcim website, there is no evidence that that the AERs in the reporting period were submitted directly to Council.</p>



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
	7 of Schedule 5) and any interested person upon request.		Recommendation (REC20): all Annual Environmental Reviews are submitted to the Council	This has resulted in the following recommendation: Recommendation 19: a list of agencies that receive the AERs is included in the AERs.
Schedule 5, Condition 12	Within 12 weeks of commencing this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, Council, EPA and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report.	Non-Compliant	The audit was finalised in March 2019. See Section 1.7. No further actions are recommended.	Compliance to be confirmed following close out of this audit.
Schedule 5, Condition 13(a)	Relevant part of condition: • a complaints register, which is to be updated on a quarterly basis;	Non-Compliant	<p>Quarterly complaints registers are listed on the website. for Quarter 3 2016 to Quarter 4 2017. However, with the exception of Quarter 4 2017, the listings are not linked to any files. For example there was a dust complaint on 21 September 2017 that is not provided.</p> <p>Complaints are summarised in Annual Environmental Reviews which are available on the Holcim website. This is updated annually</p> <p>Recommendation (REC21): the</p>	Compliant Up to date complaints register available on website.



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
			<p>quarterly complaints register on the Holcim website is updated so that all complaints are available.</p>	
Schedule 5, Condition 13(a)	<ul style="list-style-type: none"> keep this information up-to-date, 	Non-Compliant	<p>Some of the management plans and monitoring programs need to be updated. Recommendation (REC22): the currency of all management plans and programs on the website is reviewed</p>	<p>Compliant Webpage up to date when accessed on 19/10/2020.</p>
Appendix 7, Condition 9(e)	The progress on the archaeological works on site is systematically video recorded	Non-Compliant	<p>Interviews with Holcim personnel indicate that the works were videoed. However, all attempts to obtain copies of the footage have been unsuccessful and current personnel believe that it is unlikely this material will ever be found. Recommendation (REC23): video recordings of the archaeological works are located if possible.</p>	<p>Non-Compliant Videos are not able to be located and it is understood that photographs were taken instead. This resulted in the following recommendation: Recommendation 20: Close this issue out with DPIE to avoid ongoing non-compliance issues at each audit. Ensure videos are taken during any future archeological works on site.</p>
Appendix 7, Condition 12	<p>The Applicant must ensure that an archaeological publication for the general public of Old Marulan Township incorporating the results of the archaeological programme at the site is prepared. Final design details of this publication are to be</p>	Non-Compliant	<p>Section 6.0 of the final report is about 'Results of the Archaeological Survey and Excavation'. Section 5.0 is about 'Research Design'. The reporting requirements were not completed within the specified timeframes.</p>	<p>Compliant Considered closed following previous audit finding.</p>



Condition Number	Condition description	Compliance Status (as per 2018 audit)	Comments and Recommendations (as per previous 2018 audit)	Status update (2020 Audit)
	<p>submitted to the Director of the NSW Heritage Office for approval within six months of the completion of the excavation programme. The publication is to be completed within one (1) year of the conclusion of the project unless an extension of time is approved by the Heritage Council of NSW</p>		<p>The report has now been placed in the Holcim website.</p> <p>No further actions are recommended</p>	
Appendix Condition 18	7, The Applicant must ensure that a final excavation report is prepared by the nominated Excavation Director, to publication standard, within one (1) year of the completion of the field based archaeological activity unless an extension of time or other variation is approved by the Heritage Council of NSW	Non-Compliant	The report was not submitted within the specified timeframe. No further actions are recommended.	<p>Compliant</p> <p>Previous audit found: The report was not submitted within the specified timeframe.</p> <p>No further actions are recommended.</p> <p>As the report has now been submitted the matter is considered closed, with compliance during the audit period.</p>
Appendix Condition 20(i)	7, Relevant part of condition: (i) Details of how this information about this excavation has been publicly disseminated.	Non-Compliant	Recommendation (REC24): The Old Marulan Township interpretation report is placed on the Holcim website.	<p>Compliant</p> <p>Final report is publicly available on the Holcim website.</p>



5 AUDIT FINDINGS 2020

5.1 Overview

Compliance of the quarry with the conditions listed in DA-128-5-200, the associated Statement of Commitments and EPL 12939 is detailed in the compliance registers in Appendix A, B and C . As per the Independent Audit PAR 2018 requirement, the audit table provides:

- the approval or licence name;
- a unique identification number;
- the schedule and condition number for each item;
- the exact wording of the compliance requirement;
- the evidence used to assess and determine whether each requirement has been complied with;
- commentary on findings and recommendations; and the compliance status based on the criteria provided in Table 3-1.

5.2 Summary of Compliance

A summary of the conditions where a non-compliance was recorded is provided in Table 5.1. A summary of recommendations that are not associated with a non-compliance but identify an opportunity for improvement is provided in Table 5.2.

A summary of the compliance with the conditions is presented in Table 5-1.

Table 5-1: Summary of Compliance

Approval	No. of Conditions	Compliant	Non-compliant	Noted	Not Triggered
DA	367	294	11	39	23
SOC	75	61	1	9	4
EPL	58	34	1	21	2

5.3 Non-Compliances and Additional Recommendations

This section provides a summary of non-compliances and associated recommendations, and additional recommendations where the auditor sees an opportunity for improvement. Non-compliances are summarised in Table 5-2. Additional recommendations where, while the auditee is compliant, the auditor sees an opportunity for improvement are summarised in Table 5-3. Further detail regarding non-compliances and additional recommendations is available in the compliance register provided in Appendix A, B and C .



Table 5-2: Non-compliance summary

Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Non-Compliance ID	Recommendation
DA18	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Production data	13 (a)	(a) provide annual quarry production data to DRG using the standard form for that purpose; and	The only evidence of reporting production data provided to the auditor is via the Annual Report to DPIE as per Condition 13(a) below.	Non-compliant	NC1	Recommendation 1: Provide annual production data to DRG using the standard form for that purpose.
DA62	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Impact Assessment Criteria	12	Particulate matter < 10 µm (PM10) Averaging period: 24 hour Criterion 50 ug/m3	The 2018 and 2019 AERs both report that equipment failure resulted in samples not being collected as required due to power supply issues. Equipment has since been upgraded to provide for a more stable power supply. Equipment performance should continue to be monitored to ensure compliance with the averaging periods. While non-compliant, no further actions are recommended following the upgrade.	Non-compliant	NC2	No further Recommendation.
DA196	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	48	Within 3 months of each Independent Environmental Audit (see Condition 11 in Schedule 5) after the lodgement of the rehabilitation bond, the Applicant must review, and if necessary revise the sum of the bond to the satisfaction of the	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	NC3	Recommendation 9: Review and if necessary revise the bond to the satisfaction of the Secretary.



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Non-Compliance ID	Recommendation
				Secretary. This review must consider:				
DA197	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	48 (a)	(a) the effects of inflation;	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	NC4	Recommendation 9: Review and if necessary revise the bond to the satisfaction of the Secretary.
DA198	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	48 (b)	(b) any changes to the total area of disturbance; and	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	NC5	Recommendation 9: Review and if necessary, revise the bond to the satisfaction of the Secretary.
DA199	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	48 (c)	(c) the performance of the rehabilitation against the completion criteria of the Rehabilitation and Landscape Management Plan.	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	NC6	Recommendation 9: Review and if necessary revise the bond to the satisfaction of the Secretary.
DA204	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credit type: Ecosystem credits: HN614 Yellow Box – Blakely's Red Gum grassy woodland on the tablelands, South Eastern Highlands Bioregion Credits to be retired: 2124	The 2019 AER states: " <i>DPIE noted that Holcim was granted an extension to the retirement of biodiversity credits and that the credits were to be retired in June 2018, no biodiversity credits have been retired in 2019. Obligations around biodiversity credits will continue to be addressed in the 2020 annual review period.</i> " No evidence has been seen of how this	Non-compliant	NC7	Recommendation 10: Consult with DPIE for how to close out the issue of non-retirement of credits.



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Non-Compliance ID	Recommendation
					may have been addressed throughout the 2020 annual review period.			
DA206	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credit type: Ecosystem credits: HN515 Broad-leaved Peppermint – Ribbon Gum grassy open forest in the north-east of the South Eastern Highlands Bioregion Credits to be Retired 33	The 2019 AER states: "DPIE noted that Holcim was granted an extension to the retirement of biodiversity credits and that the credits were to be retired in June 2018, no biodiversity credits have been retired in 2019. Obligations around biodiversity credits will continue to be addressed in the 2020 annual review period". No evidence has been seen of how this may have been addressed throughout the 2020 annual review period.	Non-compliant	NC8	Recommendation 10: Consult with DPIE for how to close out the issue of non-retirement of credits.
DA207	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credit type: Ecosystem credits: Total: 3038 (2124 + 881 + 33)	The 2019 AER states: "DPIE noted that Holcim was granted an extension to the retirement of biodiversity credits and that the credits were to be retired in June 2018, no biodiversity credits have been retired in 2019. Obligations around biodiversity credits will continue to be addressed in the 2020 annual review period". No evidence has been seen of how this may have been addressed throughout the 2020 annual review period.	Non-compliant	NC9	Recommendation 10: Consult with DPIE for how to close out the issue of non-retirement of credits.



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Non-Compliance ID	Recommendation
DA288	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10	The Applicant must ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee (see condition 7 of Schedule 5) and any interested person upon request.	While the AERs are publicly available on the Holcim website, there is no evidence that the AERs in the reporting period were submitted directly to Council.	Non-compliant	NC10	Recommendation 19: A list of agencies that receive the AERs is included in the AERs.
DA327	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	9(e)	The progress on the archaeological works on site is systematically video recorded,	Videos are not able to be located and it is assumed that photographs were taken instead.	Non-compliant	NC11	Recommendation 20: Close this issue out with DPIE to avoid ongoing non-compliance issues at each audit. Ensure videos are taken during any future archaeological works on site.
SOC25	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	N/A (SOC)	Holcim Australia will update the Lynwood Quarry Water Management Plan. This will include an update to the Lockyersleigh Creek Riparian Area Management Plan.	The Water Management Plan is currently awaiting approval and contains management measures regarding Lockyersleigh Creek, however the Lockyersleigh Creek Riparian Area Management Plan has not been updated since 2011 to reflect any updates to the WMP or otherwise.	Non-Compliant	NC12	Recommendation 21: Review and update the Lockyersleigh Creek Riparian Area Management Plan.



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Non-Compliance ID	Recommendation
EPL34	N/A (EPL)	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.	M4.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant	The 'summarised event report listing' provided to the auditor as evidence does not include: <i>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.</i>	Non-Compliant	NC13	Recommendation 29: For each incident recorded, include the actions taken, or if no action taken state why not.



Table 5-3: Additional Recommendations

Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Recommendation
DA28	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Mitigation Measures	4 (b)	(b) implement all reasonable and feasible measures to minimise road transportation noise associated with the development;	7 noise complaints are reported in the InControl register. 2 are described as closed and 5 are described as submitted. No significant detail is provided on the nature of the noise complaint. No exceedences have been reported at the times of these complaints.	Compliant	Recommendation 2: Record the detail of the noise complaint and ensure that they are closed out.
DA34	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Operating Hours	5	Blasting Monday-Saturday: 9am to 5pm Sunday and Public Holidays: None	The 2018 and 2019 AERs report compliance. One InControl community complaint is recorded regarding blasting: <i>House shook some time between 13:00 & 14:00 on 6th August 2019</i> Incident is recorded but is not listed as closed in InControl. No exceedences are reported in the Blast monitoring report.	Compliant	Recommendation 3: Ensure incidents listed in InControl are closed out.
DA59	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Impact Assessment Criteria	12	The Applicant must ensure that dust generated by the development does not cause additional exceedences of the criteria listed in Tables 6-8 at any residence that exists on the date of this consent, or on more than 25 percent of any privately owned land.	2005 EIS Appendix 5. Pages 16 - 18 provides predictions of air quality at 8 locations for 7 years in the 30 year period. 2005 EIS section 5.8.5 of the main text found that only one vacant property may be potentially dust affected. The InControl Incident register details numerous dust complaints received from the community, a number of which relate to dust experienced at residences. A number of these complaints are not listed as 'closed'.	Compliant	Recommendation 4: Close out all dust complaints in the incident register.



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Recommendation
					<p>Both the 2018 and 2019 AERs list non-compliances regarding air quality monitoring due to equipment failure, however exceedences of the criteria are not recorded. Short term PM10 exceedences are recorded in 2018 but are correlated to regional dust events.</p> <p>Equipment has been upgraded in early 2020 with a change to the solar power supply.</p> <p>The Air Quality Management Plan was revised in 2020 with approval received from DPIE on 11/03/2020.</p>		
DA84	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Sediment Dams	18 (a)	(a) Sediment Dams A, B and F are capable of treating the 90th percentile 5-day rainfall event; and	The water management plan was revised in 2020. The dams listed in Table 5 are approved and were conceptual dams based on modelling undertaken as part of the initial Lynwood Quarry EIS (Umwelt, 2005) and the Lynwood Quarry Modification EA (Umwelt, 2015). This table was updated in February 2020 based on the status of dams. Dam A is now a water harvesting Dam. Dam F is specified as both sediment and water storage and has minimum design criteria of 90th percentile 5-day rainfall. Dam B is no longer listed.	Compliant	Recommendation 5: Clarity should be sought around this condition if dams are now assigned different labels, or alternatively the WMP should be updated to state whether these criteria are met if still required to do so
DA88	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH	19 (b)	(b) ensure that the accumulated sediment in all the Sediment Dams is	WMP (2020) states All sediment dams will be managed to ensure that accumulated sediment is kept below 30% of the dam design capacity.	Compliant	Recommendation 6: Suggestion to mark levels at 30 % if feasible, or incorporate program for



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Recommendation
		GTAs) - Operating Conditions		kept below 30% of their design capacity;			checking levels systematically.
DA183	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44 (c)	describe in detail the measures that would be implemented over the next 5 years to rehabilitate and manage the landscape on the site;	The 2018 plan is an update of the 2016 plan which describes rehabilitation between 2016 and 2021.	Compliant	Recommendation 7: The Rehabilitation and Landscape Management Plan will need to be updated to manage for the next five year period within the next 12 months.
DA193	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	46	Within 3 months of the Independent Environmental Audit (see Condition 11 in Schedule 5), the Applicant shall update the Rehabilitation and Landscape Management Plan to the satisfaction of the Secretary.	The current plan is dated May 2018. The previous audit was scheduled for 2017 but was not finalised until 2019 due to delays. As this current plan was updated during this timeframe and following commencement of the audit process, it is considered adequate, although technically non-compliant.	Compliant	Recommendation 8: Ensure that the Rehabilitation and Landscape Management Plan is updated to the satisfaction of the secretary within 3 months of this audit.
DA220	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	VISUAL IMPACT - Waste Management	54	The Applicant must ensure that all wastes generated or stored at the site are assessed, classified and managed in accordance with the <i>Assessment, Classification and Management of Liquid and Non-liquid Waste</i> (OEH) guideline, or its successor (incorporates OEH GTA).	Waste Management and Minimisation Strategy Section 3.0 purpose and scope) states that "This Waste Management and Minimisation Strategy (WMMS) has been developed to ensure compliance with Condition 53, Schedule 3 of DA 128-5-2005." The document then presents both condition 53 and 54.	Compliant	Recommendation11: Edit wording of Waste Management and Minimisation Strategy to explicitly capture condition 54.



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Recommendation
DA252	SCHEDULE 5 ENVIRONMENTAL	Evidence of Consultation	1A (b)	(b) submit evidence of this consultation as part of the relevant document;	Various revised Management plans contain 'Consultation' sections. RLMP (2018) now has agency consultation in Appendix 9, Noise Management Plan provides it in Appendix 1. Not all revised plans provide the actual consultation (e.g. blast management plan 2020), but do allude to it in the document.	Compliant	Recommendation 12: Append agency consultation to all future revisions of management plans.
DA253	SCHEDULE 5 ENVIRONMENTAL	Evidence of Consultation	1A (c)	(c) describe how matters raised by the authority have been addressed and any matters not resolved; and	Various revised Management plans contain 'Consultation' sections which summarise the consultation held. RLMP (2018) now has agency consultation in Appendix 9, Noise Management Plan provides it in Appendix 1. Not all revised plans provide the actual consultation (e.g. blast management plan 2020), but do allude to it in the document.	Compliant	Recommendation 12: Append agency consultation summary to all future revisions of management plans.
DA254	SCHEDULE 5 ENVIRONMENTAL	Evidence of Consultation	1A (d)	(d) include details of any outstanding issues raised by the authority and an explanation of disagreement between any public authority and the Applicant.	Various revised Management plans contain 'Consultation' sections which summarise the consultation held. RLMP (2018) now has agency consultation in Appendix 9, Noise Management Plan provides it in Appendix 1. Not all revised plans provide the actual consultation (e.g. blast management plan 2020), but do allude to it in the document and provide pertinent points.	Compliant	Recommendation 12: Append agency consultation summary to all future revisions of management plans.
DA255	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (a)	(a) detailed baseline data;	This condition was introduced in MOD4 (May 2016) so does not apply to plans prepared prior to this time. Plans revised since this date contain baseline data.	Compliant	Recommendation 13: Provide previously collected detailed baseline data in any



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Recommendation
							future management plan revisions.
DA259	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (e)	(e) a contingency plan to manage any unpredicted impacts and their consequences;	This condition was introduced in MOD4 (May 2016) so does not apply to plans prepared prior to this time.	Compliant	Recommendation 14: Provide contingency plans in any future management plan revisions if applicable to the plan.
DA262	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (h)	(h) a protocol for periodic review of the plan.	This condition was introduced in MOD4 (May 2016) so does not apply to plans prepared prior to this time.	Compliant	Recommendation 15: Future updates to plans prepared prior to MOD4 should provide a protocol for periodic review.
DA268	SCHEDULE 5 ENVIRONMENTAL	REVISION OF STRATEGIES, PLANS & PROGRAMS	5	Within 3 months of the submission of an: (a) incident report under condition 8 below; (b) Annual Review under condition 10 below; (c) audit report under condition 11 below; and (d) any modifications to this consent, the Applicant must review, and if necessary revise, the strategies, plans, and programs required under this consent, to the satisfaction of the Secretary.	Sighted signed 'Evidence of Internal Review' forms indicating review process of all management plans was underway, or complete with a required action. 2018 AER states: During the 2018 report period, management plans were not updated three months after the submission of the Annual Review. It is noted this was corrected in the following reporting period (2019) so assumed to be closed out.	Note	Recommendation 16: Establish a register to ensure accurate tracking of strategy, plan and program updates against required timeframes.



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Recommendation
DA276	SCHEDULE 5 ENVIRONMENTAL	REPORTING Incident Reporting	8	The Applicant must notify, at the earliest opportunity, the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the development, the Applicant must notify the Secretary and any other relevant agencies as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	Incidents appear to be managed as per the requirements.	Compliant	Recommendation 17: PIRMP should be amended to include notification of the Secretary following an emergency incident, as per the requirements of this condition.
DA286	SCHEDULE 5 ENVIRONMENTAL	REPORTING Annual Review	10 (h)	(h) calculate the number of additional BioBanking (or equivalent) credits that will need to be purchased, before that clearing can be done; and	AERs present how the number of credits required per stage of development have been calculated for the granite pit and how those credits are being progressively retired.	Compliant	Recommendation 18: Future Annual Environmental Reviews should include information on the additional BioBanking (or equivalent) credits that will need to be purchased



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Recommendation
							or note that no additional credits are required.
SOC28	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	N/A (SOC)	<ul style="list-style-type: none"> Monitoring of water imported to site, water used on site and water discharged following the guidelines for Water Reporting Requirements for Mines (NSW Office of Water, undated), where applicable. 	<p>The WMP (2011) states Holcim will monitor all water used on site, imported to site and overflows from sediment dams. The WMP (2011) does not state if this is in line with following the guidelines for Water Reporting Requirements for Mines (NSW Office of Water, undated).</p> <p>The draft revised WMP (2020) lists guideline used in Section 3.2 but does not refer to Water Reporting Requirements for Mines (NSW Office of Water, undated).</p>	Compliant	Recommendation 22: The revised WMP (2020) should state if the guidelines for Water Reporting Requirements for Mines (NSW Office of Water, undated) have been used in the WMP (2020) development.
SOC29	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	N/A (SOC)	<ul style="list-style-type: none"> The existing surface water monitoring program will be updated to include four additional sites as shown in Figure 2.2 of the Response to Submissions report. The final details of the proposed surface water monitoring program will be contained within the updated Water Management Plan. 	<p>The WMP has been further revised in 2020 and is still pending approval. The Surface Water Monitoring Program is appended to the revised WMP and awaiting approval.</p> <p>The previous audit found: <i>The Surface Water Monitoring Program (2018) has since been revised and is currently going through the approval process as part of the Water Management Plan 2018*. It does not include SW1 and SW2 surface water monitoring locations which were in the original Figure (Figure 2.2 of the RTS report) as these related to construction of the Hume Highway intersection is complete.</i></p> <p>The 2018 and 2019 AERs, do not provide</p>	Compliant	Recommendation 23: Close out revision to Water Management Plan and include relevant updates to surface water monitoring program.



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Recommendation
					evidence that the requirement of SOC 27 has been met during the audit period.		
SOC30	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	N/A (SOC)	<ul style="list-style-type: none"> The water quality parameters and frequency of sampling will remain as for the existing approved operations. Flow monitoring will continue to be undertaken by visual observation of the flows during water quality sampling (flow, no-flow). 	<p>The auditor has only been provided the 2011 revision of the Surface Water Monitoring Program. The previous audit suggests the most recent revision is from 2018 and suggest compliance.</p> <p>The website contains only the 2011 revision of the Surface Water Monitoring Program.</p>	Compliant	Recommendation 24: The website should be updated to show most recent revision of the Surface Water Monitoring Program if it was indeed approved.
SOC31	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Groundwater	N/A (SOC)	Holcim Australia will extend the current groundwater monitoring program, which includes both groundwater level and quality, to include the new monitoring piezometers that were constructed for the Granite Pit during the exploration drilling phase. Details of these locations are provided in Appendix 9 of the EA (MOD 4). These bores will be monitored until they are progressively removed by the progression of the Granite Pit or as otherwise	The previous IEA indicates that the Groundwater Management Plan was updated in compliance with the commitment, however the updated plan has not been published on the Holcim website. The auditor was not provided the 2018 revision of the GWMP. The wider Water Management Plan (2020) has been updated and is pending approval. A groundwater Monitoring Program is appended to this.	Compliant	Recommendation 25: Update the website to contain the revised Groundwater Management Plan (2018), or 2020 once approved.



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Recommendation
				refined via the Water Management Plan.			
SOC37	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Trust and Reputation	N/A (SOC)	<ul style="list-style-type: none"> Existing engagement to continue as appropriate, with a focus on respectful, honest and open communications. 	<p>CCC feedback: <i>The committee is working well and acting as an important conduit for community issues and communicating the environmental compliance for the construction and operations of the quarry. This sentiment is also held by members, who appreciate the opportunity to provide feedback to Holcim's project team and management.</i></p> <p><i>Holcim always provides the CCC with a thorough update on the quarry, including any milestones, planning updates, construction works, environmental performance, site operations and community relations activities.</i></p>	Compliant	Recommendation 26: Last update to 'Information Updates' page online appears to be 2015. This page should be updated or merged with other pages that provide the more recent information such as Annual Reviews etc or with the 'Community Link' Lynwood Page which has the most recent update of December 2019.
SOC45	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	N/A (SOC)	<ul style="list-style-type: none"> Lighting – quarry operations on the surface including topsoil stripping, overburden extraction and overburden emplacement will be daytime operations only (consistent with current development consent conditions) and therefore do not have any potential to result in lighting impacts. 	One complaint has been recorded in InControl regarding fugitive light emissions on 20/02/2019. No details of the complaint are recorded, and it is not stated to be 'closed'. It is unclear if this complaint relates to topsoil stripping.	Complaint	Recommendation 27: Close out the complaint from 20/02/2019 Recommendation: Ensure that enough detail is recorded for complaints in InControl.



Unique ID	Schedule	Parameter	Condition Number	Condition	Comments	Compliance	Recommendation
SOC61	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Gas Pipeline Hazards	N/A (SOC)	<ul style="list-style-type: none"> pipelines will be designed in accordance with relevant standards 	The auditor has not been provided a copy of any specifications of the pipelines. It is assumed that this would be covered by construction certificates which are up to date. Considered closed by compliance in previous audit.	Compliant	Recommendation 28: Ensure pipelines are designed in accordance with relevant standards.
EPL38	N/A EPL	N/A EPL	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.	Environmental or community enquiries phone number is featured on Holcim's website: http://www.holcim.com.au/about-us/community-link/lynwood/contact-details (viewed 23/10/20)	Compliant	Recommendation 30: State clearly on the webpage that this number should be used if a community member has a complaint



5.4 Summary of any agency notices, orders, penalty notices or prosecutions

Holcim advised the EPA in early 2020 of non-compliances with dust monitoring requirements, for which the EPA issued a Formal Warning. Further detail on these matters is provided below in Table 5-5.

On 30 March 2020, DPIE issued an Official Caution to Holcim for constructing a pre-coat plant at its Lynwood Quarry prior to obtaining the construction certificate, in contravention of the *Environmental Planning and Assessment Act 1979*. Holcim self-reported the breach and lodged an application for obtaining a building certificate for the pre-coat plant with the local Council which has since been granted and the matter closed.

No orders, penalty notices or prosecutions have been issued during the audit period.

5.5 Agency Consultation and Comments

Agency consultation comments and auditor responses are summarised in Table 5-5. An example of the letter requesting input to the audit scope is provided in Appendix D. Full agency consultation responses are provided in Appendix E.



Table 5-4: Summary of Agency Consultation

Agency and Contact	Correspondence	Agency Comments	Auditor Response
DPIE (Compliance)	Email, 23/09/2020	<p>Hi Robert,</p> <p>For enforcement actions against the site (penalties, official cautions, orders, but excluding warning letters), please refer to our compliance webpage @ https://www.planning.nsw.gov.au/Assess-and-Regulate/About-compliance/Inspections-and-enforcements</p> <p>In terms of any specific aspects, we would like you to pay special attention to air, water and rehabilitation.</p> <p>Should you have any questions, please call me on 4247 1852.</p> <p>Kind Regards,</p> <p>Georgia</p>	<p>The auditor reviewed air quality impacts and noted that while there have been a number of complaints regarding air quality, these have been correlated to wider air quality events and monitoring of the quarry indicates air quality impacts are within levels identified in the conditions of consent.</p> <p>Impacts to water have been reviewed, and while administrative non-compliances regarding update of the Water Management Plan have been identified, no significant impacts to water were noted.</p> <p>The auditor inspected the site and significant rehabilitation works are yet to commence.</p> <p>One warning was received from DPIE (see Section 5.4)</p>
NSW Environment Protection Authority (EPA)	Email, 23/09/2020	<p>I refer to your email of 24 September 2020 to the NSW Environment Protection Authority (EPA) requesting advice on any issues of concern or other matters which the EPA would like included or addressed as part of an independent environmental audit of Lynwood Quarry (the quarry). The EPA has responsibility for regulating activities at the quarry through Environment Protection Licence 12939 (the EPL).</p> <p>The EPA understands that you have been engaged to conduct the audit of Lynwood Quarry under Schedule 5 Condition 11 of the development approval (DA) 128-5-2005. You indicated that the purpose of this consultation is to seek the EPA's comment in relation to:</p>	<p>The auditor notes the close out of the issue regarding dust complaints and the feedback of improved dust management on site.</p> <p>The formal warning regarding a failure to monitor air quality in breach of the EPL has been noted and captured in (see Section 5.4).</p>



Agency and Contact	Correspondence	Agency Comments	Auditor Response
		<ul style="list-style-type: none">• the involvement that the EPA has had with the quarry since the last audit on 9 January 2018;• the compliance of the quarry with conditions relevant to the EPA (the EPL); and• any general comments on the quarry's general environmental performance. <p>The EPA has had considerable interaction with Holcim and the Lynwood Quarry since the previous audit. The primary reason for the increased interaction were dust complaints which began in July 2019 and continued through the first half of 2020. The quarry also advised the EPA in early 2020 of non-compliances with dust monitoring requirements, for which the EPA issued a Formal Warning. Further detail on these matters is provided below.</p> <p>Complaints</p> <p>From 9 January 2018 to the date of this letter, the EPA received 35 complaints relating to dust impacts, which alleged Lynwood Quarry as being the suspect. The EPA did not receive complaints relating to any other media (e.g.: noise, water, etc.).</p> <p>In summary, the dust complaints alleged that dust from operations at Lynwood Quarry were affecting the amenity and potentially the health of residents of the Marulan township. In response to these complaints, the EPA negotiated a Pollution Reduction Program (PRP) for the quarry with Holcim, with a focus on reducing dust emissions from the quarry and implementing management practices which would result in the licensee proactively and reactively responding to dust emissions on windy days. The PRP was incorporated into the EPL on 16 September 2019, with the actions required under the PRP completed by 3 July 2020.</p> <p>Formal Warning</p> <p>On 13 December 2019, Holcim advised the EPA that they had failed to properly undertake air quality monitoring (PM10 and dust</p>	



Agency and Contact	Correspondence	Agency Comments	Auditor Response
		<p>deposition) at the quarry on a number of occasions during late 2018 and variously throughout 2019. Following this notification, the EPA issued a Formal Warning to Holcim on 12 February 2020 for the breach of EPL conditions relating to air quality monitoring.</p> <p>Non-compliances</p> <p>During the summer of 2019/20, Holcim provided the EPA with regular communication on occasions where PM10 dust limits were exceeded at the quarry. The primary cause of these compliances were particulate impacts from widespread dust storms and state-wide bushfires. These non-compliances were formalised in correspondence to the EPA on 15 June 2020. The EPA wrote to Holcim on 7 August 2020 regarding these non-compliances and others, noting that no regulatory action would be taken given the nature of the non-compliances, the actions already taken and the prior notification of the exceedences.</p> <p>General comments</p> <p>As noted above, the PRP which was incorporated into the EPL in September 2019 has seen a notably positive improvement in the control of dust at the premises, and by extension, a decrease in dust impacts on the Marulan community. Discussions with Holcim prior to the PRP were constructive, with Holcim recognising and embracing that further proactive work was required to minimise dust impacts on the local community. Holcim maintained regular communication with the EPA throughout the PRP timeframe and continues to do so to ensure the positive outcomes do not end with the completion of the PRP.</p> <p>If you have any queries or wish to discuss this matter further, please contact Michael Heinze on 6229 7002 or queanbeyan@epa.nsw.gov.au.</p>	
Heritage Council of NSW	Email, 23/09/2020	<p>Dear Mr Townsend</p> <p>Lynwood Quarry Independent Environmental Audit 2020</p>	The auditor notes general compliance with the requirements of the Heritage Council of NSW.



Agency and Contact	Correspondence	Agency Comments	Auditor Response
(Heritage Council		<p>Thank you for consulting Heritage NSW as part of this environmental audit. I provide the following information and comments against the matters you have requested:</p> <p>Involvement that your agency has had with the quarry since the last audit on 9 January 2018</p> <p>We continue to receive ongoing notifications and consultation on salvage requirements and management measures for the Aboriginal Heritage Impact Permit (AHIP), associated variations and the Aboriginal Heritage Management Plan for the Lynwood Quarry.</p> <p>Compliance of the quarry with conditions relevant to your agency</p> <p>From 2018 to 2020 we received reporting provided in compliance with AHIP #1100264 and variation #C0002777. This included copies of the Annual Report, Annual Aboriginal Site Monitoring Report and Triennial Site Monitoring Report.</p> <p>General comments on the quarry's general environmental performance</p> <p>Heritage NSW has not undertaken or been involved in any recent site inspections for the Lynwood Quarry. We would recommend any audit consider whether the Aboriginal Heritage Management Plan continues to address and effectively implement the management measures required under condition 35 of DA 128-5-2005.</p> <p>Please note: on 1st July the Aboriginal cultural heritage regulation functions under the National Parks and Wildlife Act 1974 were transferred from the Department of Planning, Industry and Environment into Heritage NSW in the Department of Premier and Cabinet.</p> <p>If you have any questions regarding the above, please contact me on (02) 6229 7089 or by email: jackie.taylor@environment.nsw.gov.au.</p> <p>Yours sincerely</p>	



Agency and Contact	Correspondence	Agency Comments	Auditor Response
		Jackie Taylor	
Goulburn Mulwaree Council (Council)	Email, 23/09/2020	<p>Good Afternoon Rob</p> <p>I'm pleased to advise that Council currently do not have any concerns in relation to the Quarry operations at Lynwood. I do note that between approximately November 2019 and January 2020 Council received numerous complaints from Marulan residents in relation to dust emissions and fallout from the Quarry. It is noted however, that these complaints were forwarded to the EPA as the appropriate regulatory authority. I believe that the drought conditions at the time coupled with a general shortage of water availability and unseasonable winds were the primary causes of the dust and thankfully since February 2020 there have been no further complaints.</p> <p>Please let me know if you require any further information.</p> <p>Kind regards</p> <p>Scott</p>	Other than the dust complaints which have been closed out with EPA, Goulburn Mulwaree Council had no further concerns.
Brendan Blakeley, Director, Elton Consulting	Email, 23/09/2020	<p>Dear Mr Townsend</p> <p>Lynwood Quarry Independent Environmental Audit</p> <p>As Independent Chair, it is my pleasure to provide the following overview of the Lynwood Quarry Community Consultative Committee (CCC) and general comments on the quarry's general environmental performance.</p> <p>The CCC runs according to the original conditions of approval. However, our practices are aligned with the Department of Planning and Environment's CCC Guidelines.</p> <p>Overview of the Lynwood Quarry CCC</p> <p>Established: June 2011</p> <p>Total meetings: 23 (including one extraordinary meeting)</p>	The auditor notes the CCC is functioning as required and that no further actions arise from the feedback received to consultation.



Agency and Contact	Correspondence	Agency Comments	Auditor Response
		<p>Independent Chair: Brendan Blakeley, Elton Consulting</p> <p>Meetings: The group meets on-site at Lynwood Quarry, twice a year. The meetings typically occur on the last Friday in April and October, 12pm – 1.15pm. The following table outlines meetings since the last audit in January 2018, including date and number of attendees. Meeting notes can be found on the Holcim Lynwood Quarry website.</p> <p>General comments</p> <p>The committee is working well and acting as an important conduit for community issues and communicating the environmental compliance for the construction and operations of the quarry. This sentiment is also held by members, who appreciate the opportunity to provide feedback to Holcim’s project team and management.</p> <p>Holcim always provides the CCC with a thorough update on the quarry, including any milestones, planning updates, construction works, environmental performance, site operations and community relations activities.</p> <p>Enquiries from the community</p> <p>If of note, Holcim addresses enquiries lodged by the community at CCC meetings. This is with the aim of ensuring CCC members are well-equipped to advise the broader community on how to lodge enquiries, and understand the processes Holcim undertakes to address them.</p> <p>Following a number of enquiries lodged with the Lynwood Quarry Blasting Hotline in 2018, Holcim took the opportunity to take members through the process for enquiries regarding blasts. CCC members were also provided with Blasting Hotline information cards and advised to pass them on to any community members who raise the topic with them in their capacity as CCC members.</p>	



Agency and Contact	Correspondence	Agency Comments	Auditor Response
		<p>Across 2019 and 2020, the CCC discussed and increase in dust levels and Holcim's response to its reduction and management. Holcim presented their Dust Management Improvement Plan, which has been incorporated into their environment protection licence. Dust exceedance was of particular concern to committee members, with a few members offering anecdotal evidence of high dust levels in the community, despite dust reducing initiatives. Holcim reiterated the importance of the community to their operation and assured that they are exploring ways of addressing social licence and improving upon minimum compliance to subsequently improve the community experience.</p> <p>Holcim in the community</p> <p>Holcim has a structured program of providing grants to support community groups throughout the region – the Community Investment Fund. The CCC assisted in establishing eligibility criteria for receiving grants and an independent process for assessing applications. The CCC continues to play a key role in promoting this program broadly throughout the area. On top of this, Holcim participates in regular and ad-hoc community events throughout the calendar year.</p> <p>If you have any questions or require any further information, please do not hesitate to contact me on 02 9387 2600 or via email.</p> <p>Yours sincerely</p> <p>Brendan Blakeley</p>	



5.6 Assessment of Actual Impacts against Predicted Impacts

Various additional assessments for impacts have been undertaken since the original EIS for the project over the course of the five modifications to the DA. As such, updated impact assessments from Annual Environmental Reviews from the audit period have been used to summarise the predicted impacts as detailed in Table 5-5. These have been compared to the actual impacts demonstrated during the audit and observed at the site visit.

Table 5-5: Actual Impacts of the Project Compared to Predicted Impacts

Environmental Aspect	Predicted Impact	Actual Impact (2020 audit)
Air Quality	<p>The assessment predicted that as operations move in a westerly direction, there would be no predicted exceedances of the assessment criteria for all PM10 and Depositional Dust at private residences during the operational phase of the quarry. In summary, the EA concluded that:</p> <ul style="list-style-type: none"> ▪ EPA air quality impact assessment criteria were not predicted to be exceeded at nearby residences; ▪ The modification is not anticipated to cause adverse impacts offsite. 	<p>Short term exceedances have been noted on occasion, however these have all been attributed to either nearby agricultural activity or correlated to significant bushfire events.</p> <p>The short term exceedances contributed to a number of complaints being received and resulted in an updated Pollution Reduction Program (PRP) being negotiated with EPA. Consultation with EPA stated that the PRP which was incorporated into the EPL in September 2019 has seen a notably positive improvement in the control of dust at the premises, and by extension, a decrease in dust impacts on the Marulan community. Discussions with Holcim prior to the PRP were constructive, with Holcim recognising and embracing that further proactive work was required to minimise dust impacts on the local community. Holcim maintained regular communication with the EPA throughout the PRP timeframe and continues to do so to ensure the positive outcomes do not end with the completion of the PRP</p> <p>General compliance with criteria has been observed. The audit therefore indicates no change to the predicted impacts during the audit period.</p>
Groundwater Quality	<p>Drawdown impacts are expected within the immediate vicinity of the quarry pit. As the expansion of the granite pit continues a progressively deepening and slightly expanding cone of depression surrounding the pit is expected. Groundwater inflow rates are predicted to be negligible given the early stage of operations in the extension area.</p>	<p>Groundwater levels recorded during the audit period were generally consistent with historical levels. The audit indicates no change to the predicted impacts during the audit period.</p>
Surface Water Quality	<p>The outcomes of the surface water assessment (Umwelt 2005 & 2015) indicated that Lynwood Quarry would not significantly alter the flow regimes or annual flow volumes in the surrounding creek network in terms of peak discharges, flood levels or peak in-stream velocities either upstream or downstream of Lynwood. No adverse impacts are predicted in terms of channel stability, in-stream habitat of either Joarimin Creek or Lockyersleigh Creek systems. No adverse impacts are predicted in terms of water quality in Joarimin Creek,</p>	<p>The audit indicates no change to the predicted impacts during the audit period.</p>



Environmental Aspect	Predicted Impact	Actual Impact (2020 audit)
	Lockyersleigh Creek or the downstream drainage systems.	
Noise	The results of the noise impact assessment for MOD5 identified that noise impacts from the operations will meet the existing development consent criteria at all locations and time of day periods except receiver location 11 (Monitoring Location - N3) where a minor 1 dB exceedance is predicted at night (Umwelt, 2015).	Noise monitoring indicates compliance throughout the audit period. The audit indicates no change to the predicted impacts during the audit period.
Biodiversity	Predicted biodiversity impacts described in the EIS are managed via the Rehabilitation and Landscape Management Plan (RLMP) and through the retirement of Biodiversity Credits.	The audit indicates no change to the predicted impacts to Biodiversity during the audit period. However, it is noted that ecological monitoring was not performed in 2019, and no Biodiversity Credits were retired in 2019.
Blasting	Blasting impacts were assessed for the 2005 EIS and subsequent modifications. The Blast Management Plan (2020) states that ' <i>Providing blasts are designed and implemented correctly by experienced blast professionals then blasting impacts were modelled to be within the Development Consent criteria.</i> '	No exceedances related to blasting were identified during the audit period, and as such no change to the predicted impacts have been identified.

5.7 Site Photographs



Figure 1: Quarry Entrance Sign



Figure 2: Driving Safety Sign at Quarry Entrance



Figure 3: Covered loaded truck leaving site



Figure 4: Signage for protected areas



Figure 5: Fenced protected area



Figure 6: Protected tree with cultural heritage significance



Figure 7: Cleared vegetation stockpiled for rehabilitation and providing temporary habitat



Figure 8: Dust suppression occurring via water cart on sand/sediment road



Figure 9: Dust suppression occurring via water cart on aggregate road



Figure 10: Light screen for visual amenity



Figure 11: Water spray applied to product stockpiles for dust suppression



Figure 12: Dust suppression (polymer) applied to product stockpiles



Figure 13: View south over quarry with visual amenity bund visible in the background



Figure 14: Storage of oils within bunded containers



APPENDIX A – DEVELOPMENT CONSENT COMPLIANCE REGISTER



Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA1	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Obligation to Minimise Harm to the Environment	1	The Applicant must implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the development.	Site Observations	A wide range of controls have been implemented to prevent and/or minimise any harm to the environment that may result from the operation. During the audit inspection, the site was generally well maintained and tidy.	Compliant	
	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Terms of Approval	2	The Applicant must carry out the development:				
DA2	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Terms of Approval	2 (a)	(a) generally in accordance with the EIS, EA (Mod 1), EA (Mod 2), EA (Mod 3), EA (Mod 4) and EA (Mod 5); and	Site Observations	The development is generally in accordance with DA (as modified) and as described in the developments environmental assessment documents.	Compliant	
DA3	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Terms of Approval	2 (b)	(b) in accordance with the Development Layout Plan, the Statement of Commitments and the conditions of this consent. <i>Notes: The Development Layout Plan is included in Appendix 2, The Statement of Commitments is included in Appendix 11</i>	Site Observations Review of Nearmap satellite image against Appendix 2 (Development Layout) and Appendix 4 (Location of Sediment Dams) of the DA.	The development is generally in accordance with DA (as modified) and as described in the developments environmental assessment documents.	Compliant	
DA4	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Terms of Approval	3	If there is any inconsistency between the documents identified in condition 2(a), the more recent document shall prevail to the extent of the inconsistency. The conditions of this consent shall prevail to the extent of any inconsistency with the documents identified in condition 2(a) or the Statement of Commitments.			Note	
DA5	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Terms of Approval	4	The Applicant shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:	Email: G. Dragicevic, DPIE, to R.Townsend, Kleinfelder, 25/09/2020	It is understood that DPIE have not provided any directions since the last audit (19 March 2019) and none were mentioned in consultation with DPIE during this audit.	Compliant	
DA6	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Terms of Approval	4 (a)	(a) any reports, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent (including any stages of these documents);	Email: G. Dragicevic, DPIE, to R.Townsend, Kleinfelder, 25/09/2021	We understand that DPIE has not provided any directions since the last audit (19March 2019) and none were mentioned in consultation with DPIE during this audit.	Compliant	
DA7	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Terms of Approval	4 (b)	(b) any reviews, reports or audits commissioned by the Department regarding compliance with this consent; and	Email: G. Dragicevic, DPIE, to R.Townsend, Kleinfelder, 25/09/2022	We understand that DPIE has not provided any directions since the last audit (19March 2019) and none were mentioned in consultation with DPIE during this audit.	Compliant	
DA8	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Terms of Approval	4 (c)	(c) the implementation of any actions or measures contained in these documents.	Email: G. Dragicevic, DPIE, to R.Townsend, Kleinfelder, 25/09/2023	We understand that DPIE has not provided any directions since the last audit (19March 2019) and none were mentioned in consultation with DPIE during this audit.	Compliant	
	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Limits on Approval						

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA9	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Limits on Approval	5	The Applicant may carry out quarrying operations as part of the development until 1 January 2038. <i>Note: Under this consent, the Applicant is required to rehabilitate lands associated with the development 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 lands associated with the development and those undertakings have been carried out to a satisfactory standard.</i>			Not triggered	
	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Limits on Approval	6	<i>Deleted</i>				
DA10	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Limits on Approval	7	The Applicant must not transport more than 5 million tonnes of products from the site in a year.	Production figures reported in Annual Reports.		Compliant	
DA11	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Limits on Approval	8	The Applicant must not transport more than 1.5 million tonnes of product from the site in a year by road.	Production figures reported in Annual Reports.		Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA12	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Structural Adequacy	9	The Applicant must ensure that any new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA. Notes: • Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for any building works. • Part 8 of the EP&A Regulation sets out the detailed requirements for the certification of development.	Construction and occupation certificate for the pre-coat plant obtained and sighted. No further building certificates required during the audit period.	Official caution issued by DPIE on 30/03/2020. From DPIE website: <i>On 30 March 2020, the Department issued an Official Caution to Holcim (Australia) Pty Ltd (Holcim) for constructing a pre-coat plant at its Lynwood Quarry prior to obtaining the construction certificate, in contravention of the Environmental Planning and Assessment Act 1979. Holcim self-reported the breach and have since lodged an application for obtaining a building certificate for the pre-coat plant with the local Council.</i> Considered closed following issuing of construction certificate.	Compliant	
DA13	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Demolition	10	The Applicant must ensure that all demolition work is carried out in accordance with AS 2601-2001: <i>The Demolition of Structures</i> , or its latest version.			Not triggered	
	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Protection of Public Infrastructure	11	Unless the Applicant and the applicable authority agree otherwise, the Applicant must:				
DA14	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Protection of Public Infrastructure	11 (a)	(a) repair, or pay all reasonable costs associated with repairing any public infrastructure that is damaged by the development; and	N/A	No public infrastructure was damaged during the audit period.	Not triggered	
DA15	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Protection of Public Infrastructure	11 (b)	(b) relocate, or pay all reasonable costs associated with relocating any public infrastructure that needs to be relocated as a result of the development.	N/A	No public infrastructure was relocated during the audit period.	Not triggered	
	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Operation of Plant and Equipment	12	The Applicant must ensure that all plant and equipment at the site, or used in connection with the development are:				
DA16	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Operation of Plant and Equipment	12 (a)	(a) maintained in a proper and efficient condition; and	OEMs sighted.	The OEMs record information regarding plant and equipment maintained onsite, issues experienced and work undertaken to repair these issues.	Compliant	
DA17	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Operation of Plant and Equipment	12 (b)	(b) operated in a proper and efficient manner.	Site observations.	Site observations recorded operation in a proper and efficient manner.	Compliant	
	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Production data	13	The Applicant must:				

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA18	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Production data	13 (a)	(a) provide annual quarry production data to DRG using the standard form for that purpose; and	Annual Reports	The only evidence of reporting production data provided to the auditor is via the Annual Report to DPIE as per Condition 13(a) below.	Non-compliant	Recommendation 1 : Provide annual production data to DRG using the standard form for that purpose.
DA19	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Production data	13 (b)	(b) include a copy of this data in the Annual Review.	Annual Reports	The latest Annual Environmental Review (AER) for the Lynwood Quarry in the audit period was resubmitted in July 2020 following DPIE comment. Table 4.1' Production Summary' within the reporting period provides total production data for the reporting period.	Compliant	
DA20	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Compliance	14	The Applicant must ensure that all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this consent relevant to their respective activities.	Training Matrix and attendance records observed.	Site interviews indicated that all employees, contractors and sub- contractors are aware of, and comply with, the conditions of this consent relevant to their respective activities via site inductions and the training provided, evidenced through the training matrix and attendance register.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	General Extraction and Processing Provisions - Identification of Boundaries	1	Prior to carrying out any development, or as otherwise agreed by the Secretary, the Applicant must:				
DA21	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	General Extraction and Processing Provisions - Identification of Boundaries	1 (a)	(a) engage an independent registered surveyor:	While no additional surveys were identified to the auditor, it is understood that the previous audit findings indicate compliance prior to development occurring.		Compliant	
DA22	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	General Extraction and Processing Provisions - Identification of Boundaries	1 (a)	• survey the boundaries of the approved limit of extraction; and	While no additional surveys were identified to the auditor, it is understood that the previous audit findings indicate compliance prior to development occurring.		Compliant	
DA23	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	General Extraction and Processing Provisions - Identification of Boundaries	1 (a)	• submit a survey plan of these boundaries to the Department;	While no additional surveys were identified to the auditor, it is understood that the previous audit findings indicate compliance prior to development occurring.		Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA24	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	General Extraction and Processing Provisions - Identification of Boundaries	1 (b)	(b) ensure that these boundaries are clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify those limits.	Colour coded boundary markers are installed throughout the site. The markers are subject to a 6 monthly site inspection, five yearly survey.	Boundary markers would benefit from flagging between individual star pickets as the boundary limits are approached to aid visual identification.	Compliant	
DA25	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	General Extraction and Processing Provisions - Development in the Riparian	2	The Applicant must not carry out any development in the riparian zone of Joarimin, Lockyersleigh or Marulan Creek without the written approval of DPI Water. Any such development must be carried out in accordance with an approved Riparian Area Management Plan (see conditions 44 and 45).	Colour coded boundary markers are installed throughout the site to delineate the areas. The markers are subject to a 6 monthly site inspection, five yearly survey.	Individual Riparian Management Plans are available for: Marulan Creek Joarimin Creek Lockyersleigh Creek No development activities in the riparian zones that are mentioned in this condition were noted during the site inspection or in the reviewed documentation.	Compliant	
DA26	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Limits	3	The Applicant must ensure that the noise generated by the operation of the development does not exceed the criteria in Table 1 at any residence on privately-owned land. Table 1 Noise Assess Location -- Day(Laeq-15 minutes)/Evening(LAeq(15 minutes)/Night(Laeq-15 minutes)/Night(LA1-1 minute): 1 - 35/35/35/45 2 - 35/35/35/45 3 - 35/35/35/45 4 - 35/37/35/46 5 - 35/35/35/46 6 - 35/37/36/46 7 - 38/38/35/55 8 - 39/38/36/55 9 - 39/39/37/56 10 - 42/42/40/53 11 - 35/35/35/47 12 - 37/37/36/47 13 - 40/38/37/47 14 - 35/35/35/47 15 - 35/35/35/47 16 - 35/35/35/45 Notes: Receiver locations are shown on the plan in Appendix 3.	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. 2018/19 quarterly noise monitoring reports.	Noise is monitored quarterly at four locations which are representative of the receivers listed in Appendix 3. 2018 and 2019 AERs states that four quarterly monitoring events took place within each reporting period and found that review of all documents confirmed that construction and operation noise complied with legislative noise emission requirements.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Limits	3	Noise generated by the development is to be measured in accordance with the relevant requirements of the INP (as may be updated from time-to-time). Appendix 10 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria. However, these criteria do not apply if the Applicant has an agreement with the owner/s of the relevant residence or land to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.		No noise exceedances were reported during the audit period.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Mitigation Measures	4	The Applicant must:				
DA27	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Mitigation Measures	4 (a)	(a) implement best practice management to minimise the operational noise of the development;	Site Observations, site interviews.	No noise exceedances were reported during the audit period. The amenity bund (visual and noise) is under construction with completion expected mid 2021. Additional noise management bunds have been proactively established. Reversing squawkers observed on site.	Compliant	
DA28	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Mitigation Measures	4 (b)	(b) implement all reasonable and feasible measures to minimise road transportation noise associated with the development;	No noise exceedances reported. Noise amenity bund under construction. Additional noise management bunds.	7 noise complaints are reported in the InControl register. 2 are described as closed and 5 are described as submitted. No significant detail is provide on the nature of the noise complaint. No exceedances have been reported at the times of these complaints.	Compliant	Recommendation 2 : Record the detail of the noise complaint and ensure that they are closed out.

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA29	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Mitigation Measures	4 (c)	(c) minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 10);	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. 2018/19 quarterly noise monitoring reports.	No noise exceedances were reported during the audit period.	Compliant	
DA30	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Mitigation Measures	4 (d)	(d) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent; and	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. 2018/19 quarterly noise monitoring reports.	Quarterly monitoring has been ongoing during the audit period.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA31	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Mitigation Measures	4 (e)	(e) regularly assess noise monitoring data and modify and/or stop operations on site to ensure compliance with the relevant conditions of this consent, to the satisfaction of the Secretary.	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. 2018/19 quarterly noise monitoring reports.	No noise exceedances reported during the audit period.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Operating Hours	5	The Applicant must comply with the operating hours in Table 2:				
DA32	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Operating Hours	5	Construction works Monday-Friday: 7am to 6pm Saturday: 8am to 1pm Sunday and Public Holidays: None	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019.	The 2018 and 2019 AERs report compliance.	Compliant	
DA33	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Operating Hours	5	Topsoil/ overburden removal /emplacement; drilling Any day: 7am to 6pm	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019.	The 2018 and 2019 AERs report compliance.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA34	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Operating Hours	5	Blasting Monday-Saturday: 9am to 5pm Sunday and Public Holidays: None	Site Interviews Monitoring reports: https://www.holcim.com.au/sites/australia/files/atoms/files/environmental_monitoring_2020-21_lynwood_quarry.pdf	The 2018 and 2019 AERs report compliance. One InControl community complaint is recorded regarding blasting: <i>House shook some time between 13:00 & 14:00 on 6th August 2019</i> Incident is recorded but is not listed as closed in InControl. No exceedances are reported in the Blast monitoring report.	Compliant	Recommendation 3: Ensure incidents listed in InControl are closed out.
DA35	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Operating Hours	5	Extraction Any day: 7am to 10pm	Site Interviews Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019.	The 2018 and 2019 AERs report compliance.	Compliant	
DA36	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Operating Hours	5	Processing (crushing, screening, stockpiling); loading, delivery, and distribution; maintenance Any day: Anytime	Site Interviews Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019.		Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Operating Hours	5	<i>Notes:</i> • <i>Table 2 only relates to construction works that are audible at any residential receivers on privately owned land. Construction works that are inaudible at any residential receiver may be carried out at any time.</i> • <i>Construction works within the Hume Highway reserve may be undertaken outside the hours specified in Table 2 with the written approval of the RMS.</i>			Note	
DA37	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Management Plan	6	The Applicant must prepare a Noise Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:				

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA38	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Management Plan	6 (a)	(a) be submitted to the Secretary for approval by 30 November 2016, unless otherwise agreed by the Secretary;	Updated April 2020 Noise management Plan has been approved by DPIE - letter sighted from 15/04/2020.		Compliant	
DA39	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Management Plan	6 (b)	(b) 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 10); 	Updated April 2020 Noise management Plan has been approved by DPIE - letter sighted from 15/04/2020.		Compliant	
DA40	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Management Plan	6 (c)	(c) describe the proposed noise management system; and	Updated April 2020 Noise management Plan has been approved by DPIE - letter sighted from 15/04/2020.	Section 7.0 of Noise Management Plan (2020)	Compliant	
DA41	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Management Plan	6 (d)	(d) include a monitoring program that will be put in place to measure noise from the development against the noise criteria in Table 1, including noise monitoring to validate the predicted noise impacts for Location 11 contained in the EA (Mod 4), and which evaluates and reports on the effectiveness of the noise management system on site.	Updated April 2020 Noise management Plan has been approved by DPIE - letter sighted. 2018/19 quarterly noise monitoring reports.	Section 8.0 of Noise Management Plan (2020) The monitoring was performed by a third party in accordance to the Noise Management Plan and in general accordance with the Noise Policy for Industry to address conditions outlined in the Development Consent.	Compliant	
DA42	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Management Plan	6	The Applicant must implement the management plan as approved from time to time by the Secretary.	Site observations Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. 2018/19 quarterly noise monitoring reports.	The measures listed in the Noise Management Plan (2020) appear to have been implemented.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA43	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Airblast Overpressure Criteria	7	<p>The Applicant must ensure that the airblast overpressure level from blasting at the development does not exceed the criteria in Table 3 at any residence on privately owned land.</p> <p>Table 3: Airblast overpressure level: allowable exceedance. 115 dB(Lin Peak): 5% of the total number of blasts over a period of 12 months 120 dB(Lin Peak): 0%.</p>	<p>Lynwood Quarry Annual Environment Review, September 2018.</p> <p>Lynwood Quarry Annual Environment Review, September 2019.</p> <p>Environmental monitoring Results</p>	<p>Sighted spreadsheet called 'Environmental Monitoring Results' which contains blast monitoring results for the audit period. All blast results were within limits.</p>	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Ground Vibration Impact Assessment Criteria	8	<p>The Applicant must ensure that the ground vibration level from blasting at the development does not exceed the criteria in Table 4 at any residence on privately owned land, or the criteria in Table 5 for the nominated infrastructure.</p>	<p>Lynwood Quarry Annual Environment Review, September 2018.</p> <p>Lynwood Quarry Annual Environment Review, September 2019.</p> <p>Environmental monitoring Results</p> <p>Incident reports</p>	<p>Sighted spreadsheet called 'Environmental Monitoring Results' which contains blast monitoring results for the audit period. All blast results were within limits.</p> <p>One InControl community complaint is recorded regarding blasting: House shook some time between 13:00 & 14:00 on 6th August 2019</p> <p>Incident is not listed as closed in InControl.</p> <p>No exceedances are reported in the Blast monitoring report.</p>	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA44	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Ground Vibration Impact Assessment Criteria	8	<p>Table 4: Ground vibration impact assessment criteria for residences on privately-owned land</p> <p>Peak particle velocity: allowable exceedance</p> <p>5 mm/s: (5% of the total number of blasts over a period of 12 months)</p> <p>10 mm/s: 0%</p>	<p>Lynwood Quarry Annual Environment Review, September 2018.</p> <p>Lynwood Quarry Annual Environment Review, September 2019.</p> <p>Environmental monitoring Results</p> <p>Incident reports</p>	<p>Holcim have a system that tracks notification of neighbouring six properties prior to blasting activities (spreadsheet available - Neighbour blast notification register).</p> <p>No blast exceedances are reported in the AERs.</p> <p>Sighted spreadsheet called 'Environmental Monitoring Results' which contains blast monitoring results for the audit period. All blast results were within limits.</p>	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA45	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Ground Vibration Impact Assessment Criteria	8	Table 5: Ground vibration impact assessment criteria on infrastructure Peak particle velocity of 25 mm/s: Main Southern Railway Line Reservoir. Peak particle velocity of 100 mm/s: Gas Pipeline	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Environmental monitoring Results Incident reports	Holcim have a system that tracks notification of neighbouring six properties prior to blasting activities (spreadsheet available - Neighbour blast notification register). No blast exceedances are reported in the AERs. Sighted spreadsheet called 'Environmental Monitoring Results' which contains blast monitoring results for the audit period. All blast results were within limits.	Compliant	
DA46	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Ground Vibration Impact Assessment Criteria	8	Peak particle velocity (mm/s) of 100: Gas Pipeline	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Environmental monitoring Results No exceedances reported.	Holcim have a system that tracks notification of neighbouring six properties prior to blasting activities (spreadsheet available - Neighbour blast notification register). No blast exceedances are reported in the AERs. Sighted spreadsheet called 'Environmental Monitoring Results' which contains blast monitoring results for the audit period. All blast results were within limits.	Compliant	
DA47	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Ground Vibration Impact Assessment Criteria	8	However, if the Applicant has a written agreement with the ARTC to vary the peak particle velocity for the Main Southern Railway Line in Table 5, and a copy of this agreement has been forwarded to the Department, then the Applicant may exceed the limit specified in Table 5 in accordance with the written agreement.	Not applicable.		Not Triggered	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA48	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Operating Conditions	9	During the development, the Applicant must implement best blasting practice to: (to the satisfaction of the Director-General.)	Blast Management Plan (February 2020)	The Blast management Plan has been updated and the updated plan was approved by DPIE on 03/04/2020	Compliant	
DA49	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Operating Conditions	9 (a)	(a) ensure that no flyrock leaves the site;	Blast Management Plan (February 2020)	No reports of flyrock leaving site. No complaints recorded regarding flyrock.		
DA50	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Operating Conditions	9 (b)	(b) protect the safety of people, property, and livestock;	Blast Management Plan (February 2020)	Section 7, Table 8 of the Blast Management Plan (2020) notes that Holcim will identify exclusion zones for each blast to protect the safety of personnel and assets.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA51	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Operating Conditions	9 (c)	(c) minimise the dust and fume emissions from blasting on the site, to the satisfaction of the Secretary.	Blast Management Plan (February 2020) Annual Environmental Review (2018) Annual Environmental Review (2019)	The 2018 and 2019 AERs report compliance with the blast management plan. One InControl community complaint is recorded regarding blasting: <i>House shook some time between 13:00 & 14:00 on 6th August 2019</i> Incident is recorded but is not listed as closed in InControl. No exceedances are reported in the Blast monitoring report. Blast Management Plan (2020) contain section 7.1 Blast Fume Management Protocol. 41 air quality complaints were received in 2019 but AER states they were in conjunction with drought period and depositional dust was within compliance criteria.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Public Notice	10	During the development, the Applicant must:				
DA52	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Public Notice	10 (a)	(a) notify the landowner/occupier of any residence within 2 kilometres of the quarry pit who registers an interest in being notified about the blasting schedule on site;	Blast Management Plan (February 2020)	Blast Management Plan (2020 states operational control is <i>A blast notification process in accordance with Condition 10 of Schedule 3 of the Development Consent which requires Holcim to notify residents of upcoming blasts, operate a blasting hotline and keep the community informed about this hotline.</i>	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA53	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Public Notice	10 (b)	(b) operate a blasting hotline, or alternative system agreed to by the Secretary to enable the public to get up-to-date information on blasting operations at the development; and	Blast Management Plan (February 2020) Blasting hotline phone number on Holcim's website; https://www.holcim.com.au/about-us/community-link/lynwood/contact-details	Holcim maintains a blast hotline that allows the community to contact Lynwood Quarry. This hotline also allows members of the community within a two kilometre radius to register and be notified of blasting activities.	Compliant	
DA54	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Public Notice	10 (c)	(c) keep the public informed about this hotline (or any alternative system), to the satisfaction of the Secretary.	Blast Management Plan (February 2020) available online. Blasting hotline phone number on Holcim's website; https://www.holcim.com.au/about-us/community-link/lynwood/contact-details	Holcim maintains a blast hotline that allows the community to contact Lynwood Quarry. This hotline also allows members of the community within a two kilometre radius to register and be notified of blasting activities.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Blast Management Plan	11	The Applicant must prepare a Blast Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:				
DA55	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Blast Management Plan	11 (a)	(a) be submitted to the Secretary for approval by 30 November 2016, unless otherwise agreed by the Secretary;	Blast Management Plan (February 2020) Letter from DPIE regarding approval of updated plan dated 03/04/2020	The Blast management Plan (2016) has been updated and the updated plan was approved by DPIE on 03/04/2020.	Compliant	
DA56	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Blast Management Plan	11 (b)	(b) describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this consent;	Blast Management Plan (February 2020)		Compliant	
DA57	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Blast Management Plan	11 (c)	(c) include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent; and	Blast Management Plan (February 2020)	A monitoring program is included in Section 8 of the Blast Management Plan (2020).	Compliant	
DA58	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Blast Management Plan	11 (d)	(d) include a protocol for investigating and responding to complaints.	Blast Management Plan (February 2020)	A protocol for investigating and responding to complaints included in the Blast Management Plan (2020), Section 9.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	BLASTING AND VIBRATION (Incorporates OEH GTA) - Blast Management Plan	11	The Applicant must implement the management plan as approved from time to time by the Secretary.	Blast Management Plan (February 2020)	No blasting was occurring at the time of the site inspection. Lack of blast related complaints on the incident register suggest compliance.	Compliant	
DA59	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Impact Assessment Criteria	12	The Applicant must ensure that dust generated by the development does not cause additional exceedances of the criteria listed in Tables 6-8 at any residence that exists on the date of this consent, or on more than 25 percent of any privately owned land.	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Environmental monitoring Results Incident reports (Incontrol 2017-2019)	2005 EIS Appendix 5. Pages 16 - 18 provides predictions of air quality at 8 locations for 7 years in the 30 year period. 2005 EIS section 5.8.5 of the main text found that only one vacant property may be potentially dust affected. The Incontrol Incident register details numerous dust complaints received from the community, a number of which relate to dust experienced at residences. A number of these complaints are not listed as 'closed'. Both the 2018 and 2019 AERs list non-compliances regarding air quality monitoring due to equipment failure, however exceedances of the criteria are not recorded. Short term PM10 exceedances are recorded in 2018 but are correlated to regional dust events. Equipment has been upgraded in early 2020 with a change to the solar power supply. The Air Quality Management Plan was revised in 2020 with approval received from DPIE on 11/03/2020.	Compliant	Recommendation 4: Close out all dust complaints in the incident register.
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Impact Assessment Criteria	12	Table 6: Long term impact assessment criteria for particulate matter				

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA60	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Impact Assessment Criteria	12	Total suspended particulate (TSP) matter, Averaging period: Annual, Criterion 90 ug/m3	Lynwood Quarry annual Environmental Review 2018 Lynwood Quarry Annual Environmental Review 2019 Environmental monitoring reports	No exceedances of the thresholds have been reported.	Compliant	
DA61	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Impact Assessment Criteria	12	Particulate matter < 10 µm (PM10)	Lynwood Quarry annual Environmental Review 2018 Lynwood Quarry Annual Environmental Review 2019 Environmental monitoring reports	No exceedances of the thresholds have been reported.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Impact Assessment Criteria	12	Table 7: Short term impact assessment criteria for particulate matter				

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA62	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Impact Assessment Criteria	12	Particulate matter < 10 µm (PM10) Averaging period: 24 hour Criterion 50 ug/m3	Lynwood Quarry annual Environmental Review 2018 Lynwood Quarry Annual Environmental Review 2019 Environmental monitoring reports	The 2018 and 2019 AERs both report that equipment failure resulted in samples not being collected as required due to power supply issues. Equipment has since been upgraded to provide for a more stable power supply. Equipment performance should continue to be monitored to ensure compliance with the averaging periods. While non-compliant, no further actions are recommended following the upgrade .	Non-compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Impact Assessment Criteria	12	Table 8: Long term impact assessment criteria for deposited dust				

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA63	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Impact Assessment Criteria	12	Deposited dust Note: Deposited dust is assessed as insoluble solids as defined by Standards Australia, 1991, AS 3580.10.1- 1991: Methods for Sampling and Analysis of Ambient Air - Determination of Particulates - Deposited Matter - Gravimetric Method.	Lynwood Quarry annual Environmental Review 2018 Lynwood Quarry Annual Environmental Review 2019 Environmental monitoring reports	No exceedances of the criteria are reported.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Operating Conditions	13	The Applicant must:				
DA64	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Operating Conditions	13 (a)	(a) implement best practice management to minimise the dust emissions of the development;	Site observations Lynwood Quarry annual Environmental Review 2018 Lynwood Quarry Annual Environmental Review 2019 Environmental monitoring reports	Site inspection identified use of water carts and various dust control measures such as dust suppressant application to stockpiles, dust sprinklers and restricting traffic to defined routes.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA65	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Operating Conditions	13 (b)	(b) carry out periodic air quality monitoring to determine whether the development is complying with the relevant conditions of this consent;	Lynwood Quarry annual Environmental Review 2018 Lynwood Quarry Annual Environmental Review 2019 Environmental monitoring reports	Ongoing monitoring is in place.	Compliant	
DA66	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Operating Conditions	13 (c)	(c) 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;	Site Interviews Lynwood Quarry Air Quality Management Plan (Umwelt, October 2016)	Site interview informed that Holcim are in the process of upgrading to BAM units, improving solar power, and that the unit will be specifically designed to meet site conditions. Quotes to perform this work were cited by the auditor. The Air Quality Management Plan has been revised, submitted and pending approval at the time of audit.	Compliant	
DA67	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Operating Conditions	13 (d)	(d) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events; and	Site Interviews Lynwood Quarry Air Quality Management Plan (Umwelt, October 2016)	Pollution reduction plan is currently with EPA for assessment. The Air Quality Management Plan has been revised, submitted and pending approval at the time of audit. Dust suppressant is applied to stockpiles via an automated system when certain wind criteria are met. The auditor observed the application of spray to the stockpiles. Water carts were in use on the day of the audit. No significant dust was observed on site.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA68	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Operating Conditions	13 (e)	(e) minimise the area of surface disturbance and maximise progressive rehabilitation of the site, to the satisfaction of the Secretary.	Site Observations, site interviews.	The majority of the site still in construction phase so significant rehab effort has not commenced. Some rehab effort has been made in conservation areas where ripping and planting was observed by the auditor. Amenity bund will be planted once complete (expected mid 2021).	Compliant	
DA69	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Quarry-owned Land	14	The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Tables 6-8 at any occupied residence on quarry- owned land unless;	Lynwood Quarry annual Environmental Review 2018 Lynwood Quarry Annual Environmental Review 2019	Only one tenant resides on Holcim land, close to the Johnnifields Quarry, east of Lynwood Quarry. Health-based air quality criteria have not been exceeded at the high volume air sampler on the eastern side of the quarry (HVAS 2).	Compliant	
DA70	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Quarry-owned Land	14 (a)	(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	Lynwood Quarry annual Environmental Review 2018 Lynwood Quarry Annual Environmental Review 2019	Only one tenant resides on Holcim land, close to the Johnnifields Quarry, east of Lynwood Quarry. Health-based air quality criteria have not been exceeded at the high volume air sampler on the eastern side of the quarry (HVAS 2).	Not Triggered	
DA71	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Quarry-owned Land	14 (b)	(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.			Not Triggered	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Air Quality Management Plan	15	The Applicant must prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:				
DA72	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Air Quality Management Plan	15 (a)	(a) be submitted to the Secretary for approval by 30 November 2016, unless otherwise agreed by the Secretary;	Lynwood Quarry Air Quality Management Plan (October 2016). Revised Lynwood quarry Air Quality Management Plan (2020) - Sighted, Pending Approval with DPIE.	The Air Quality Management Plan was revised in early 2020, with the 2019 AER stating approval was received by DPIE on 11/03/2020. However, the most recent revision is pending approval at the time of the audit.	Compliant	
DA73	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Air Quality Management Plan	15 (b)	(b) be prepared in consultation with the EPA;	Lynwood Quarry Air Quality Management Plan (October 2016). Revised Lynwood quarry Air Quality Management Plan (2020) - Sighted, Pending Approval with DPIE.	Section 2 of the revised AQMP states it was prepared in consultation with the EPA.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA74	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Air Quality Management Plan	15 (c)	(c) describe the measures that would be implemented to ensure: <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; 	Lynwood Quarry Air Quality Management Plan (October 2016). Revised Lynwood quarry Air Quality Management Plan (2020) - Sighted, Pending Approval with DPIE.		Compliant	
DA75	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Air Quality Management Plan	15 (d)	(d) describe the proposed air quality management system; and	Lynwood Quarry Air Quality Management Plan (October 2016). Revised Lynwood quarry Air Quality Management Plan (2020) - Sighted, Pending Approval with DPIE.		Compliant	
DA76	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Air Quality Management Plan	15 (e)	(e) 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. 	Lynwood Quarry Air Quality Management Plan (October 2016). Revised Lynwood quarry Air Quality Management Plan (2020) - Sighted, Pending Approval with DPIE.		Compliant	
DA77	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Air Quality Management Plan	15	The Applicant must implement the management plan as approved from time to time by the Secretary.	Site Observations. Air Quality Management Plan (2016). Sighted Air Quality Management Plan revision (2020) which is not yet approved. Monitoring reports: https://www.holcim.com.au/sites/australia/files/atoms/files/environmental_monitoring_2020-21_lynwood_quarry.pdf	Monitoring methods described in Current and revised AQMPs (both sighted). Site observations identified air quality management measures are being implemented.	Compliant	
DA78	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - METEOROLOGICAL MONITORING	15A	For the life of the development, the Applicant must ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline.	Lynwood Quarry annual Environmental Review 2018 Lynwood Quarry Annual Environmental Review 2019 Lynwood Quarry Air Quality Management Plan (October 2016). Revised Lynwood quarry Air Quality Management Plan (2020) - Sighted, Pending Approval with DPIE.	A meteorological station is installed at Lynwood Quarry in accordance with the requirements of this condition. The data is used to assess dust related compliance or complaints, and to assist proactive air quality/dust controls and management Air Quality Management Plan Section 5.3. The station uses telemetry to provide real time site weather data. An issue with temperature monitoring persisted for 3 months in 2018 but has since been fixed.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA79	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Greenhouse Gas Emissions	15B	The Applicant must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.	Equipment maintained as per OEM standards.	Sighted OEM work orders for maintenance. Site observations suggested machinery and other plant is well maintained.	Compliant	
DA80	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs)		<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.</i>		No water is extracted at the site. Water is imported under WAL:25575 .	Compliant	
DA81	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Pollution of Waters	16	Except as may be expressly provided by a License, the Applicant must comply with section 120 of the Protection of the Environment Operations Act 1997 during the carrying out of the development.	Lynwood Quarry annual Environmental Review 2018 Lynwood Quarry Annual Environmental Review 2019	No uncontrolled discharges or spillages are reported. The Water Management Plan was revised in 2020 and is pending approval at the time of audit.	Compliant.	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA82	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Water Discharge Limits	17	Except as may be expressly provided by a License, the Applicant must ensure that any controlled discharge from the controlled discharge points at Sediment Dams A to F comply with the limits in Table 10. Table 10: Surface Water Discharge Limits Pollutant: Unit of measure: 100 Percentile concentration limit Total Suspended Solids: 50 mg/L pH: 6.5-8.5 Oil & Grease: 10 mg/L or none visible.	Lynwood Quarry annual Environmental Review 2018 Lynwood Quarry Annual Environmental Review 2020	No uncontrolled discharges or spillages are reported. The Water Management Plan was revised in 2020 and is pending approval at the time of audit. Monitoring results regarding surface and groundwater were within established trigger levels in both 2018 and 2019 reporting periods.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Water Discharge Limits	17			No uncontrolled discharges or spillages are reported. The Water Management Plan was revised in 2020 and is pending approval at the time of audit. Monitoring results regarding surface and groundwater were within established trigger levels in both 2018 and 2019 reporting periods.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Water Discharge Limits	17	Note: For more information on the location of Sediment Dams A to F see Appendix 4.				
DA83	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Sediment Dams	18	The Applicant must ensure that:				

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA84	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Sediment Dams	18 (a)	(a) Sediment Dams A, B and F are capable of treating the 90th percentile 5 day rainfall event; and	Lynwood Quarry Water Management Plan (2020) - Pending Approval Lynwood Quarry Water Management Plan (July 2018)	The water management plan was revised in 2020. The dams listed in Table 5 are approved and were conceptual dams based on modelling undertaken as part of the initial Lynwood Quarry EIS (Umwelt, 2005) and the Lynwood Quarry Modification EA (Umwelt, 2015). This table was updated in February 2020 based on the status of dams. Dam A is now a water harvesting Dam. Dam F is specified as both sediment and water storage and has minimum design criteria of 90th percentile 5 day rainfall. Dam B is no longer listed.	Compliant	Recommendation 5: Clarity should be sought around this condition if dams are now assigned different labels, or alternatively the WMP should be updated to state whether these criteria are met if still required to do so
DA85	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Sediment Dams	18 (b)	(b) Sediment Dams C, D and E are capable of treating the 1:20 year ARI Critical Duration Storm Event.	Lynwood Quarry Water Management Plan (2020) - Pending Approval Lynwood Quarry Water Management Plan (July 2018)	The water management plan was revised in 2020. The dams listed in Table 5 are approved and were conceptual dams based on modelling undertaken as part of the initial Lynwood Quarry EIS (Umwelt, 2005) and the Lynwood Quarry Modification EA (Umwelt, 2015). This table was updated in February 2020 based on the status of dams. Dams C, D, and E are all listed as having Minimum Design Criteria that meet critical storm duration.	Compliant	

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DA86	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Sediment Dams		Notes: <ul style="list-style-type: none"> Locations of the Sediment Dams referred to in this condition are shown on the plans in Appendix 4; Dams must be designed to be in accordance with 'Managing Urban Stormwater: Soils and Construction (the Blue Book)', including Volume 1 (Landcom, 2004) and Volume 2 (OEH, 2008). 	Lynwood Quarry Water Management Plan (2020) - Pending Approval Lynwood Quarry Water Management Plan (July 2018)	Table 5 of the revised WMP (2020) demonstrates design compliance.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Operating Conditions	19	The Applicant must:				
DA87	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Operating Conditions	19 (a)	(a) ensure that the water collected in the Sediment Dams is pumped to the supply dams as soon as practicable;		Revised WMP (2020) states: <i>The basins that will control runoff from overburden emplacement areas, haul roads and the infrastructure area have been designed as Type D/F basins, due to the proportion of fines in the soils found in these areas. The sediment dams will be emptied using a pump and pipe or gravity systems after rainfall events.</i>	Compliant	
DA88	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Operating Conditions	19 (b)	(b) ensure that the accumulated sediment in all the Sediment Dams is kept below 30% of their design capacity;	The Water Management Plan manages this requirement. No removal of sediment was occurring at the time of audit.	WMP (2020) states All sediment dams will be managed to ensure that accumulated sediment is kept below 30% of the dam design capacity.	Compliant	Recommendation 6: Suggestion to mark levels at 30 % if feasible, or incorporate program for checking levels systematically.
DA89	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Operating Conditions	19 (c)	(c) construct impervious bunds around all fuel, oil, chemical storage areas that are large enough to contain 110% of the volume held in the largest container in accordance with the requirements in the OEH Bunding and Spill Management manual; and	Site Observations	Site observations demonstrated appropriate storage of chemicals. Bunded containers are in use. Spill response kits were sighted.	Compliant	
DA90	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Operating Conditions	19 (d)	(d) not use any flocculants on site for water pollution control treatment without the written approval of OEH.	Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (July 2018) Section 4.2.1 notes <i>"Coagulant may be added to the dams in order to assist in lowering total suspended solids. Holcim has consulted with the EPA and DP&E and both agencies have approved this system."</i> WMP (2020) states: <i>Any proposed flocculent system will be discussed with the EPA prior to use.</i>	Compliant	

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DA91	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Operating Conditions	19	<i>Note: The EIS indicated that flocculants maybe used for the treatment of collected stormwater. While the specific flocculent was not specified, some types of flocculants have the potential to cause ecotoxicological impacts on receiving waters.</i>			Note	
DA92	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Operating Conditions	19A	The Applicant must ensure it has sufficient water for all stages of the development, and if necessary, adjust the scale of operations to match the licensed water entitlements, to the satisfaction of the Secretary.	Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (July 2018) section 3.0, site water balance, outlines water demands, water supply and storage, site water balance, external water sourcing, water minimisation and annual water balance review - indicating that Holcim has adequate mechanisms in place to monitor and adjust the scale of operations to match licenced water entitlements. Section 5.3 of the WMP (2020) describes the site water balance and section 5.4 describes the process for external water licencing.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	20	The Applicant must prepare a Water Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:				
DA93	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	20 (a)	(a) be prepared in consultation with the EPA, WaterNSW, DPI Water and DPI Fisheries;	Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	The 2020 version of the WMP (pending approval) details the consultation and feedback received by the relevant agencies.	Compliant	
DA94	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	20 (b)	(b) be submitted to the Secretary for approval by 30 November 2016, unless otherwise agreed by the Secretary;		The current approved version of the Water Management Plan (2018) is as per the previous audit. The most recent revision is from 2020 which is currently pending approval following inclusion of agency feedback.	Complaint	
DA95	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	20 (c)	(c) include a Water Balance;	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Section 3. Water Management Plan (2016) Section 3. Water Management Plan (July 2018) Section 3.6 Water Management Plan (2020, pending approval) Section 5.	Complaint	
DA96	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	20 (d)	(d) include an Erosion and Sediment Control Plan;	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Section 4. Water Management Plan (2016) Section 4. Water Management Plan (July 2018) Section 4. Water Management Plan (2020, pending approval) Section 6.	Complaint	

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DA97	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	20 (e)	(e) include a Surface Water Monitoring Program;	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Appendix 2: Surface Water Monitoring Program Water Management Plan (2016) Appendix 2: Surface Water Monitoring Program Water Management Plan (July 2018) Appendix 2: Surface Water Monitoring Program Water Management Plan (2020, pending approval) Appendix 2: Surface Water Monitoring Program	Complaint	
DA98	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	20 (f)	(f) include a Ground Water Monitoring Program; and	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2016) Appendix 3: Groundwater Monitoring Program. Water Management Plan (2016) Appendix 3: Groundwater Monitoring Program Water Management Plan (July 2018) Appendix 3: Groundwater Monitoring Program Water Management Plan (2020, pending approval) Appendix 3: Groundwater Monitoring Program	Complaint	
DA99	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	20 (g)	(g) include a Surface and Ground Water Response Plan to address any potential adverse impacts associated with the development.	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Section 6 Water Management Plan (2016) Section 6 Water Management Plan (July 2018) Surface Water Monitoring Program Section 6 Water Management Plan (2020, pending approval) Section 8.	Complaint	
DA100	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	20	The Applicant must implement the management plan as approved from time to time by the Secretary.	Site Observations. Water Management Plan 2018. Sighted Water Management Plan 2020 revision (not yet approved).	The Lynwood Quarry Water Management Plan has been revised and resubmitted in 2020 and is pending approval at the time of audit. Ensure revised plan is published on website once approved.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	21	The Water Balance must:				
DA101	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	21 (a)	(a) include details of all water extracted (including water make), dewatered, transferred, used and/or discharged by quarry; and	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Section 3.0 Water Management Plan (2016) Section 3.0 Water Management Plan (July 2018) Sections 3.2 to 3.4 Water Management Plan (2020, pending approval) Section 5	Compliant	
DA102	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	21 (b)	(b) describe measures to minimise water use by the development.	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Section 3.0 Water Management Plan (2016) Section 3.0 Water Management Plan (July 2018) Sections 3.2 to 3.4 Water Management Plan (2020, pending approval) Section 6	Compliant	

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	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	22	The Erosion and Sediment Control Plan must:				
DA103	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	22 (a)	(a) be consistent with the requirements of the Landcom's <i>Managing Urban Stormwater: Soils and Construction manual</i> ;	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Section 4.0 Water Management Plan (2016) Section 4.0 Plans outline controls that are designed and constructed to a standard consistent with Landcom's <i>Managing Urban Stormwater - Soils and Construction Manual, Volume 1 (the Blue Book)</i> Water Management Plan (July 2018) Section 4.0 Water Management Plan (2020, pending approval) states works are consistent with <i>Managing Urban Stormwater – Soils and Construction, Volume 1 (the Blue Book) (Landcom 2004)</i>	Compliant	
DA104	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	22 (b)	(b) identify activities that could cause soil erosion and generate sediment;	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Section 4.0 Water Management Plan (2016) Section 4.0 Plans include activities that have the potential to cause erosion and generate sediment on site. Water Management Plan (July 2018) Section 4.0. Water Management Plan (2020, pending approval) Section 6.	Compliant	
DA105	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	22 (c)	(c) describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters;	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Section 4.0 Water Management Plan (2016) Section 4.0 Plans Section 4.0 include activities that have the potential to cause erosion and generate sediment on site. Water Management Plan (2020, pending approval) Section 6.	Compliant	
DA106	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	22 (d)	(d) describe the location, function, and capacity of erosion and sediment control structures; and	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	The Water Management Plan (2016) plan has been updated to reflect project changes. The Water Management Plan (July 2018) was updated to reflect the further project changes. The Water Management Plan (2020, pending approval) has been updated to reflect further project changes.	Compliant	
DA107	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	22 (e)	(e) describe what measures would be implemented to maintain (and if necessary decommission) the structures over time.	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Section 7.0 Water Management Plan (2016) Section 7.0 Water Management Plan (July 2018) Water Management Plan (2020, pending approval) Section 9. A brief description of maintenance and decommissioning is provided.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	23	The Surface Water Monitoring Program must include:				

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DA108	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	23 (a)	(a) detailed baseline data on surface water flows and quality in Joarimin Creek, Lockyersleigh Creek, and Marulan Creek;	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Appendix 2: Surface Water Monitoring Program Section 2.0 Water Management Plan (2016) Appendix 2: Surface Water Monitoring Program Section 2.0 Water Management Plan (July 2018) Appendix 2: Surface Water Monitoring Program Section 2.0 Water Management Plan (2020, pending approval) Appendix 2, Section 2.	Compliant	
DA109	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	23 (b)	(b) surface water impact assessment criteria;	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Appendix 2: Surface Water Monitoring Program Section 3.0 Water Management Plan (2016) Appendix 2: Surface Water Monitoring Program Section 3.0 Water Management Plan (July 2018) Appendix 2: Surface Water Monitoring Program Section 2.0 Water Management Plan (2020, pending approval) Appendix 2, Section 2.	Compliant	
DA110	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	23 (c)	(c) a program to monitor surface water flows and quality;	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Appendix 2: Surface Water Monitoring Program Section 4.0 Water Management Plan (2016) Appendix 2: Surface Water Monitoring Program Section 4.0 Water Management Plan (July 2018) Appendix 2: Surface Water Monitoring Program Section 2.0 Water Management Plan (2020, pending approval) Appendix 2.	Compliant	
DA111	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	23 (d)	(d) a protocol for the investigation of identified exceedances of the surface water impact assessment criteria; and	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Appendix 2: Surface Water Monitoring Program Section 5.0 Water Management Plan (2016) Appendix 2: Surface Water Monitoring Program Section 5.0 Water Management Plan (July 2018) Appendix 2: Surface Water Monitoring Program Section 2.0 Water Management Plan (2020, pending approval) Appendix 2. Section 2	Compliant	
DA112	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	23 (e)	(e) a program to monitor the effectiveness of the Erosion and Sediment Control Plan.	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Appendix 2: Surface Water Monitoring Program Section 6.0 Water Management Plan (2016) Appendix 2: Surface Water Monitoring Program Section 6.0 Water Management Plan (July 2018) Appendix 2: Surface Water Monitoring Program Section 2.0 Water Management Plan (2020, pending approval) Appendix 2.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	23	<i>Note: Monitoring of surface flows to be completed by visual assessment.</i>			Note	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	24	The Ground Water Monitoring Program must include:				

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DA113	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	24 (a)	(a) detailed baseline data on ground water levels, flows, and quality, based on statistical analysis;	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Appendix 3: Groundwater Monitoring Program Section 2.0 Water Management Plan (2011) Appendix 3: Groundwater Monitoring Program Section 2.0 Water Management Plan (July 2018) Appendix 3: Groundwater Monitoring Program Water Management Plan (2020, pending approval) Appendix 3.	Compliant	
DA114	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	24 (b)	(b) groundwater impact assessment criteria for monitoring bores;	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Appendix 3: Groundwater Monitoring Program Section 3.0 Water Management Plan (2011) Appendix 3: Groundwater Monitoring Program Section 3.0 Water Management Plan (July 2018) Appendix 3: Groundwater Monitoring Program Water Management Plan (2020, pending approval) Appendix 3.	Compliant	
DA115	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	24 (c)	(c) a program to monitor regional ground water levels and quality; and	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Appendix 3: Groundwater Monitoring Program Section 2.0 Water Management Plan (2011) Appendix 3: Groundwater Monitoring Program Section 2.0 Water Management Plan (July 2018) Appendix 3: Groundwater Monitoring Program Water Management Plan (2020, pending approval) Appendix 3.	Compliant	
DA116	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	24 (d)	(d) a protocol for the investigation of identified exceedances of the groundwater impact assessment criteria.	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Appendix 3: Groundwater Monitoring Program Section 5.0 Water Management Plan (2011) Appendix 3: Groundwater Monitoring Program Section 5.0 Water Management Plan (July 2018) Appendix 3: Groundwater Monitoring Program Water Management Plan (2020, pending approval) Appendix 3.	Compliant	
DA117	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Management and Monitoring	24	<i>Note: The surface and ground water monitoring programs must be consistent with the current version of Approved Methods for the Sampling and Analysis of Water Pollutants in New South Wales (OEH).</i>	Water Management Plan (2011) Water Management Plan (2016) Water Management Plan (July 2018) Water Management Plan (2020, pending approval)	Water Management Plan (2011) Appendix 3: Groundwater Monitoring Program Section 2.0 Water Management Plan (2011) Appendix 3: Groundwater Monitoring Program Section 2.0 Water Management Plan (July 2018) Appendix 3: Groundwater Monitoring Program Water Management Plan (2020, pending approval) Appendix 2 and Appendix 3 state the programs must be consistent with the current version Approved Methods for the Sampling and Analysis of Water Pollutants in New South Wales.	Compliant	
DA118	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Waterway Crossings	25	The vehicular crossing of Lockyersleigh Creek as detailed in EA (Mod 4) must be designed and constructed in accordance with the <i>Policy and Guidelines for Fish Friendly Water Crossings</i> (DPI Fisheries, 2004) and <i>Why Do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings</i> (2004) to the satisfaction of DPI Fisheries. Design plans should be submitted to DPI Fisheries for approval prior to the construction.	Site interview	A site interview with R. Mclean identified that discussions have been held regarding the design plans with DPI fisheries to close this out and correspondence was witnessed with DPI Water having no objections to the design plans provided.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA119	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Construction Traffic	26	The Applicant must ensure that:				
DA120	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Construction Traffic	26 (a)	(a) construction traffic on the temporary construction access is kept to a minimum;	Site Observations (2020)	Construction/commissioning phase completed on 5 October 2015.	Compliant	
DA121	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Construction Traffic	26 (b)	(b) no construction traffic uses the temporary construction access once the proposed bridge over the Main Southern Railway Line has been commissioned;	Site Observations (2020)	Construction/commissioning phase completed on 5 October 2015. The bridge was commissioned and the temporary construction access road gated and locked in the first months of the audit period.	Compliant	
DA122	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Construction Traffic	26 (c)	(c) all other traffic uses the construction site access prior to the commissioning of the proposed Hume Highway Interchange; and	Site Observations (2020)	Access road used as other access option, Stoney Creek Rd, is now locked.	Compliant	
DA123	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Construction Traffic	26 (d)	(d) where practicable, no heavy vehicle construction traffic movements occur on George Street during school zone times (i.e. between 8:00am to 9:30am and 2:30pm to 4:00pm on school days);	Holcim Construction Traffic Management Plan (Rev 2, 2011) .	Construction/commissioning phase completed on 5 October 2015.	Compliant	
DA124	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Construction Traffic	26 (e)	(e) heavy vehicle construction traffic using George Street does not exceed 40kph; and	Site Observations.	Previous audit identified 40 kph road signs on traffic control plans in Holcim traffic management plan. Signs observed during previous audit inspection.	Compliant	
DA125	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Construction Traffic	26 (f)	(f) no traffic uses the construction site access once the proposed Hume Highway Interchange has been commissioned.	Site Observations.	The Hume Highway Interchange is used exclusively to access the site.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA126	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Construction Traffic	26	<i>Note: The temporary construction access routes are shown in Appendix 5. The requirements of this condition are to be reflected in the Construction Traffic Management Plan required under Condition 28 below.</i>			Note	
DA127	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Construction Traffic	27	Prior to the commissioning of the proposed Hume Highway Interchange, the Applicant shall maintain the public roads on the construction access routes, or pay all reasonable cost associated with maintaining these roads during the period these roads are used for construction access, to the satisfaction of Council and/or the Department of Lands.	Sighted Holcim Construction Traffic Management Plan (Rev 2), Previous audit sighted emails from S. Mitchell to T. Cooper at Goulburn Council in December 2011 requesting road repairs during earlier audit periods.		Compliant	
DA128	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Construction Traffic	28	Prior to carrying out any development, the Applicant must prepare (and following approval implement) a Construction Traffic Management Plan for the development, in consultation with the RMS, Council and the Department of Lands, and to the satisfaction of the Secretary. This plan must: (a) include a Road Dilapidation Report of the public roads on the construction access routes; and (b) describe what measures would be implemented to: • maintain the public roads; • minimise the potential noise and safety impacts associated with the construction traffic; and • keep the community informed of any traffic disruptions that would be caused by the development.	Previous audit sighted: Letter from Director-General DP&I approving construction traffic management plan (4/4/2012) Letter from Goulburn-Mulwaree Council (3/11/2010), letter from RTA (27/10/2010)		Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Hume Highway Interchange	29	The Applicant must:				
DA129	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Hume Highway Interchange	29 (a)	(a) design and construct the proposed grade separated intersection at the existing junction of the Hume Highway (SH2) and Marulan South Road/Jerrara Road; and following the satisfactory completion of this development,	Site observations. RTA Major Works Authorisation Deed Private Financing of Construction March 2008 (211396379-1).	Construction of the intersection is now complete.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA130	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Hume Highway Interchange	29 (b)	(b) close the existing median and proclaimed access point on the Hume Highway, to the satisfaction of the RTS.	Site observations Letter from Road Traffic Authority to Holcim (10/9/12)	Considered complete.	Compliant	
DA131	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Hume Highway Interchange	29	Notes: • The design of these works must be in accordance with relevant RMS standards and specifications: - geometric road design in accordance with RMS Road Design Guide; - pavement design in accordance with the AUSTROADS Pavement Design Guide; - bridge design in accordance with Australian Standard AS5100; and - grade separated interchange in accordance with NAASRA (AUSTROADS) Grade Separated Interchanges – A Design Guide.			Note	
DA132	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Hume Highway Interchange	29	• The Applicant will be required to meet all the costs associated with this development, including design, land acquisitions, gazettal of new boundaries and access point, construction and project management.			Not Triggered	
DA133	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Hume Highway Interchange	29	• If other quarries or developments are approved that use this intersection, the applicants for such developments may be required to contribute to the cost of constructing the intersection, pro-rata on maximum usage rates. The Applicant must keep detailed records of the intersection design and construction costs and provide this information to the Secretary if requested to assist in levying costs on any such developments.			Note	
DA134	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Hume Highway Interchange	30	Prior to carrying out any development in the Hume Highway road reserve, the Applicant must prepare a Traffic Management Plan for the proposed development in the road reserve to the satisfaction of the RMS.	Previous audit	Considered complete. Previous audit identified Appendix R of BMD Interchange CEMP	Compliant	

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DA135	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Crown Roads/Land	31	The Applicant must not carry out any development on Crown roads or land without the written approval of the Department of Lands.		No further works performed requiring written approval.	Compliant	
DA136	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Road Haulage	32	The Applicant must ensure that all loaded vehicles entering or leaving the site are covered at all times.	Site Observations.	Sighted covered vehicles.	Compliant	
DA137	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Road Haulage	33	The Applicant must ensure that all loaded vehicles leaving the site are cleaned of materials that may fall on the road before they are allowed to leave the site.	Site Observations.	No debris was observed on roads leading to the site. Wheel wash was observed in operation on vehicles leaving site. Wash down bay provided for light vehicles leaving site.	Compliant	
DA138	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs) - Monitoring of Quarry Product Transport	33A	The Applicant must keep accurate records of all laden truck movements from the site (weekly, monthly and annually) and publish a summary of records in its Annual Review.	Dockets in archives and kept at weighbridge. Provided summary. Lynwood Quarry Annual Review 2019.	Hard copies of documents are archived at the weighbridge. Laden truck movements for each month are provided in the 2019 Annual Review.	Compliant	
DA139	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Protection of Aboriginal Sites	34	The Applicant must ensure that the development does not cause any direct or indirect impact on identified Aboriginal sites located outside the approved disturbance area of the development. Only those Aboriginal sites identified within the approved Aboriginal Cultural Heritage Management Plan (see condition 35) or any approved Aboriginal Heritage Impact Permit may be impacted within the approved disturbance area of the development.	Caring for Country, Lynwood Quarry Aboriginal Heritage Management Plan, V5 (2018). Site observations. Review of Nearmap satellite image against Appendix 2 (Development Layout). Holcim letter to DPE dated 15 June 2017, re: Lynwood Quarry Extraction Area Modification Stage 1 Archaeological Salvage Program - Notification of Status of LKAS7, LKST1 and LKST2	Exclusion fencing was observed throughout the site and is clearly signed as areas of cultural significance.	Compliant	

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DA140	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35	The Applicant must prepare an Aboriginal Cultural Heritage Management Plan for the development to the satisfaction of the Secretary. The plan must:	Caring for Country, Lynwood Quarry Aboriginal Heritage Management Plan, Rev 2 (2011). Draft Lynwood Quarry Aboriginal Heritage Management Plan (July 2018)* Correspondence with DPE and OEH regarding Lynwood Quarry Aboriginal Heritage Management Plan (8 August 2018, 13 September 2018).	Sighted current approved Aboriginal Heritage Management Plan (2018)	Compliant	
DA141	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35 (a)	(a) be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;	DPE Letter of 5 December 2016	Previous audit sighted DPE's letter of 5 December 2016 endorses the appointment of Jan Wilson, Principal Archaeologist Umwelt to prepare the updated (2018) ACHMP.	Compliant	
DA142	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35 (b)	(b) be prepared in consultation with OEH and local Aboriginal stakeholders;	Caring for Country, Lynwood Quarry Aboriginal Heritage Management Plan, Rev 2 (2011). Lynwood Quarry Aboriginal Heritage Management Plan (July 2018). Previous audit sighted the following: Letter to DPE (dated 3 January 2017) regarding Aboriginal Heritage Management Plan), Letter to OEH (dated 15 June 2017) regarding agreed management commitments, current status of site, commencement of work notification and consultation participants. Memorandum of Understanding between Holcim (Australia) Pty Ltd and Lynwood Quarry Aboriginal Heritage Management Committee dated 15/16/17 May 2017.	Section 1.3 of the approved Lynwood Quarry Aboriginal Heritage Management Plan (July 2018) states "This revised AHMP was developed in consultation with the Registered Aboriginal Parties with a draft provided on 6 January 2017." The section summarised key meeting dates with Aboriginal stakeholders.	Compliant	
DA143	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35 (c)	(c) be submitted to the Secretary for approval by 30 November 2016, unless the Secretary agrees otherwise;	DPE Letter of 29 November 2017	Considered complete. Previous audit sighted DPE's letter to Holcim's Lynwood quarry environmental representative A. White, re: request for extension to date for submission of Aboriginal Cultural Heritage Management Plan (ACHMP). Secretary agrees to Holcim's request for an extension, ACHMP can be submitted by 15 January 2018. The draft has subsequently been submitted.	Compliant	

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DA144	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35 (d)	(d) include the following; • a Conservation Management Plan that details how the Cultural Heritage Management Zones (shown conceptually on the plan in Appendix 6) are managed;	Caring for Country, Lynwood Quarry Aboriginal Heritage Management Plan, Rev 2 (2011). Lynwood Quarry Aboriginal Heritage Management Plan (July 2018). Site observations.	Site observations sighted sign-posted and cordoned-off cultural heritage management zones.	Compliant	
DA145	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35 (d)	• a detailed archaeological salvage program for Aboriginal sites/objects will be managed and protected; and	Caring for Country, Lynwood Quarry Aboriginal Heritage Management Plan, Rev 2 (2011). Lynwood Quarry Aboriginal Heritage Management Plan (July 2018).		Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35 (d)	• a description of the measures that would be implemented for:				
DA146	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35 (d)	protecting, monitoring and managing Aboriginal sites outside the approved disturbance area;	Caring for Country, Lynwood Quarry Aboriginal Heritage Management Plan, Rev 2 (2011). Lynwood Quarry Aboriginal Heritage Management Plan (July 2018).		Compliant	
DA147	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35 (d)	maintaining and managing reasonable access for Aboriginal stakeholders to cultural heritage items on site;	Caring for Country, Lynwood Quarry Aboriginal Heritage Management Plan, Rev 2 (2011). Lynwood Quarry Aboriginal Heritage Management Plan (July 2018).		Compliant	
DA148	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35 (d)	managing the discovery of any human remains or previously unidentified Aboriginal objects on site, including (in the case of human remains) stop work provisions and notification protocols;	Caring for Country, Lynwood Quarry Aboriginal Heritage Management Plan, Rev 2 (2011). Lynwood Quarry Aboriginal Heritage Management Plan (July 2018).		Compliant	

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DA149	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35 (d)	ongoing consultation with local Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage; and	Lynwood Quarry Aboriginal Heritage Management Plan (July 2018), section 1.3 - Registered Aboriginal Party Consultation. Previous audit sighted the following: Caring for Country, Lynwood Quarry Aboriginal Heritage Management Plan, Rev 2 (2011). Memorandum of Understanding (MOU) between Holcim (Australia) Pty Ltd and Lynwood Quarry Aboriginal Heritage Management Committee dated 16/17/18 May 2017 Holcim letter to OEH dated 15 June 2017 regarding Lynwood Quarry Extraction Area Modification Stage 1 Archaeological Salvage Program. DPE letter to Holcim dated 29 November 2016 regarding extension to submit updated Aboriginal Cultural Heritage Management Plan.	Lynwood Quarry Aboriginal Heritage Management Plan (July 2018), Sections 2.1.1 to 2.1.14 and Sections 3.1 to 3.3	Compliant	
DA150	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35 (d)	ensuring any workers on site receive suitable heritage inductions prior to carrying out any activities which may disturb Aboriginal sites, and that suitable records are kept of these inductions.	Training matrix and records sighted. Includes 'Aboriginal Heritage Awareness' module.	Training provided meets the requirements.	Compliant	
DA151	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	35 (d)	The Applicant must implement the management plan as approved from time to time by the Secretary.	Site observations. Training records.		Compliant	
DA152	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	36	<i>deleted</i>				
DA153	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	37	Unless the OEH approves otherwise, the Applicant must ensure that all ground disturbing works on the site are monitored at all times by a suitably qualified and experienced archaeologist and representatives of all the relevant Aboriginal community groups. If this monitoring detects any previously unrecorded Aboriginal objects not listed in Table 10, then the Applicant must immediately cease work in the area and notify the OEH.	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019.	Aboriginal heritage monitoring is described in each AER, including the condition of Aboriginal sites and management actions taken.	Compliant	

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DA154	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Aboriginal Heritage - Aboriginal Cultural Heritage Management Plan	37	Notes: • This monitoring only relates to topsoil stripping, not quarrying operations. • For safety reasons, topsoil stripping may be undertaken before the commencement of development.			Note	
DA155	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	38	The Applicant may carry out the development in the area identified in the State Heritage Register as the Old Marulan Township (SHR No. 00127) with the written approval of the NSW Heritage Council.	Previous Audit evidence	Previous audit stated:" Original letter from NSW Heritage Council not sighted but ongoing correspondence from the council indicates that it approved development in Old Marulan Township (e.g. application to vary S 65A no 2007/S65/11. Confirmed by Heritage Branch 22/10/09)"	Compliant	
DA156	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	39	Prior to seeking this approval, the Applicant must undertake a detailed investigation of the archaeological potential of the proposed development area in the Old Marulan Township, including archaeological testing, to the satisfaction of the NSW Heritage Council. This archaeological investigation must clarify the nature, extent, and significance of the relics in the proposed development area.	Previous Audit evidence: Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak) 2006	Considered complete as per previous audit	Compliant	
DA157	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	39	Note: The Applicant will be required to submit an application to the NSW Heritage Council under Section 60 of the Heritage Act 1977 for this archaeological investigation.			Note	
DA158	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	40	In seeking this approval, the Applicant must submit the following information to the NSW Heritage Council:				
DA159	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	40 (a)	(a) the final design of the proposed Hume Highway interchange, incorporating the results of the archaeological investigations (see condition 39), and including information on landscaping, lighting, and stormwater management;	Previous Audit Evidence	Considered complete through previous audit evidence	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	40 (b)	(b) an Archaeological Assessment of the area to be impacted by the proposed interchange, that includes the:				
DA160	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	40 (b)	• nomination of an Excavation Director and archaeology team which will be approved by the Director of the NSW Heritage Office;	Previous Audit Evidence: Sighted Old Marulan Archaeological Letter to DECC, S65_2009_65A_11 (27/10/10)*	Considered complete through previous audit evidence	Compliant	
DA161	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	40 (b)	• assessment of the significance of the archaeological remains to be impacted within the development area,	Previous Audit Evidence: Non-indigenous archaeology assessment, Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak) 2006	Considered complete through previous audit evidence	Compliant	

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DA162	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	40 (b)	<ul style="list-style-type: none"> plans and details of the location and depth of excavation works and assessment of the exact impact on potential archaeological remains; 	Previous Audit Evidence: Non-indigenous archaeology assessment, Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak) 2007	Considered complete through previous audit evidence	Compliant	
DA163	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	40 (b)	<ul style="list-style-type: none"> identification of research themes and identification of both site specific and general research questions, 	Previous Audit Evidence: Non-indigenous archaeology assessment, Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak) 2008	Considered complete through previous audit evidence	Compliant	
DA164	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	40 (b)	<ul style="list-style-type: none"> details of the proposed on-site excavation methodology including details on philosophical approach to on-site work and the process and procedures proposed for recovery and recording of archaeological data, and details on how the archaeological research is proposed to be satisfactorily completed, 	Previous Audit Evidence: Non-indigenous archaeology assessment, Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak) 2009	Considered complete through previous audit evidence	Compliant	
DA165	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	40 (b)	<ul style="list-style-type: none"> details of the proposed post-excavation methodology; and 	Previous Audit Evidence: Non-indigenous archaeology assessment, Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak) 2010	Considered complete through previous audit evidence	Compliant	
DA166	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Old Marulan Township	40 (b)	<ul style="list-style-type: none"> details of the Interpretation Plan for the entire Old Marulan Township precinct. 	Previous Audit Evidence: Non-indigenous archaeology assessment, Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak) 2011	Considered complete through previous audit evidence	Compliant	
DA167	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Lockyersleigh Homestead	40A	The Applicant must prepare a structural integrity report for the Lockyersleigh Homestead Property and Garden, subject to receiving the landowner's agreement, by 30 June 2016.	Previous audit evidence: A & R Engineering Design Pty Ltd condition report (structural integrity report) dated 22 June 2016.	Considered complete through previous audit evidence	Compliant	
DA168	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Operating Conditions	41	The Applicant must ensure that:				

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DA169	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Operating Conditions	41 (a)	(a) the development does not have any impact on: • the archaeological remains within the former Lot 1, DP210885;	Previous audit evidence: Lynwood Quarry Annual Environment Review, September 2015. Lynwood Quarry Annual Environment Review, September 2016. Lynwood Quarry Annual Environment Review, March 2017. Sighted application to vary S 65A no 2007/S65/11. Confirmed by Heritage Branch 7/9/09*	The AERs report on European Heritage. The 2018 and 2019 AERs report no additional European Heritage management actions were undertaken during the report periods. They also state that "The Old Marulan European heritage report was reviewed during the 2017 report period. All actions arising from this review were completed during the 2017 report period".	Compliant	
DA170	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Operating Conditions	41 (a)	• heritage items MRNH1, MRNH2, and MRNH3;	Previous Audit Evidence: Sighted letter from Heritage Branch_SheepDipMRNH1_ArtefactPolicy_20090907a_ltr LTR_CWC_Cess Pit_Old Marulan_August 2011	These sites are adjacent to the Hume Highway intersection. There was no construction in this area in the audit period.	Compliant	
DA171	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Operating Conditions	41 (a)	• the section of the State Heritage Register curtilage located at the eastern side of the Hume Highway, other than the impact upon the timber lined cistern/well (MRNH8) except where undertaken in accordance with the written approval of the NSW Heritage Council;	Previous audit evidence and no further development in this area during the audit period.	These sites are adjacent to the Hume Highway intersection. There was no construction in this area in the audit period.	Compliant	
DA172	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Operating Conditions	41 (b)	(b) as much fabric of the timber-lined cistern/well (MRNH8) and the archaeological remains uncovered through the archaeological excavation as possible is salvaged and incorporated as a key element in the interpretation of the site as part of the new development; and	Previous audit evidence: Sighted letter from Heritage Branch_Well MRNH8_InterpPlan_20090305 which details approved specification, Old Marulan Archaeological_Letter to DECC 27 Oct 2010	These sites are adjacent to the Hume Highway intersection. There was no construction in this area in the audit period.	Compliant	
DA173	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Operating Conditions	41 (c)	(c) the movement of machines across archaeologically sensitive areas is kept to a minimum.	Site observations. Review of Nearmap satellite image against Appendix 2 (development layout).	Extraction and exclusion areas are well signed. Exclusion fencing was observed throughout the site and is clearly signed as areas of archaeological significance. Movements outside of disturbance areas are confined to formed roadways.	Compliant	
DA174	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	Heritage - Archaeological Field Work/Excavations	42	The Applicant must comply with the detailed requirements in Appendix 7 to the satisfaction of the NSW Heritage Office.		See Appendix 7 conditions detailed later in this table		
DA175	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING	43	The Applicant must rehabilitate the site in a manner that is generally consistent with the conceptual final landform in Appendix 8, to the satisfaction of the Secretary.	Site observations	Significant rehabilitation has not yet commenced.	Not Triggered	

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DA176	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44	Within 6 months of this consent, the Applicant must prepare (and following approval implement) a Rehabilitation and Landscape Management Plan for the development, in consultation with OEH, DPI Water and Council, and to the satisfaction of the Director-General. This plan must:	Previous audit evidence: Rehabilitation and Landscape Management Plan (September 2016) (RLMP). Rehabilitation and Landscape Management Plan (2018) (RLMP). DPE letter to Holcim dated 11 July 2018 confirming approval of the RLMP.	The approved Rehabilitation and Landscape Management Plan (2018) is the current plan.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44 (a)	(a) describe in general the short, medium, and long-term measures that would be implemented to:				
DA177	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44 (a)	<ul style="list-style-type: none"> rehabilitate the site; 	Rehabilitation and Landscape Management Plan (2018)	Various phases described in Section 3 of the 2018 plan.	Compliant	
DA178	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44 (a)	<ul style="list-style-type: none"> implement the Habitat Management Area (shown conceptually in Appendix 9) unless this area is incorporated into a conservation area subject to a BioBanking agreement); 	Rehabilitation and Landscape Management Plan (2018)	The Habitat Management Area shown in Figure 3.5 of the Rehabilitation and Landscape Management Plan (2018) matches that in Appendix 9 of the Development Consent.	Compliant	
DA179	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44 (a)	<ul style="list-style-type: none"> replace cleared hollow-bearing trees with durable and appropriate nest boxes that reflect the type, size, usability and condition of the hollows to be cleared; 	Rehabilitation and Landscape Management Plan (2018) Ecological Monitoring Report (SLR 2020)	50 Nest boxes have been installed and were monitored by SLR in 2020.	Compliant	
DA180	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44 (a)	<ul style="list-style-type: none"> manage the remnant vegetation and habitat on the site; and 	Rehabilitation and Landscape Management Plan (2018)		Compliant	
DA181	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44 (a)	<ul style="list-style-type: none"> landscape the site to mitigate any visual impacts of the development; 	Rehabilitation and Landscape Management Plan (2018)		Compliant	

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DA182	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44 (b)	include Riparian Area Management Plan/s (see condition 45) for those riparian areas to be disturbed in the next 5 years, excluding areas within quarry pits or emplacement areas as agreed with the Secretary;	Riparian Management Plan, Joarimin Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	
DA183	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44 (c)	describe in detail the measures that would be implemented over the next 5 years to rehabilitate and manage the landscape on the site;	Rehabilitation and Landscape Management Plan (2018)	The 2018 plan is an update of the 2016 plan which describes rehabilitation between 2016 and 2021.	Compliant	Recommendation 7: The Rehabilitation and Landscape Management Plan will need to be updated to manage for the next five year period within the next 12 months.
DA184	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44 (d)	describe how the performance of these measures would be monitored over time; and	Rehabilitation and Landscape Management Plan (2018)		Compliant	
DA185	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44 (e)	set completion criteria for the rehabilitation of the site.	Rehabilitation and Landscape Management Plan (2018)		Compliant	
DA186	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	45	The Riparian Area Management Plan/s must be prepared by a suitably qualified hydrologist; whose appointment has been approved by the Secretary, and include:	Previous audit findings: Letter from Director-General DP&I approving management plans (4/4/2012), which included Riparian Area Management Plans		Compliant	
DA187	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	45 (a)	baseline surveys of creeks, providing existing bed, bank and vegetation information (including representative cross and longitudinal sections), in the areas in which the development is located, excluding the quarry pits and emplacement areas;	Riparian Management Plan, Joarimin Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	
DA188	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	45 (b)	detailed designs of the proposed works, including any proposed stabilization, scour protection, and/or enhancement works (including representative cross and longitudinal sections);	Riparian Management Plan, Joarimin Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	

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DA189	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	45 (c)	a description of the measures that would be implemented in the event of flooding during construction/rehabilitation.	Riparian Management Plan, Joarimin Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	
DA190	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	45 (d)	details of proposed staging of the works;	Riparian Management Plan, Joarimin Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	
DA191	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	45 (e)	completion criteria for the rehabilitation of the riparian area;	Riparian Management Plan, Joarimin Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	
DA192	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	45 (f)	a protocol for monitoring the performance of the rehabilitation over time.	Riparian Management Plan, Joarimin Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, June 2011. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	
DA193	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	46	Within 3 months of the Independent Environmental Audit (see Condition 11 in Schedule 5), the Applicant shall update the Rehabilitation and Landscape Management Plan to the satisfaction of the Secretary.		The current plan is dated May 2018. The previous audit was scheduled for 2017 but was not finalised until 2019 due to delays. As this current plan was updated during this timeframe and following commencement of the audit process, it is considered adequate, although technically non-compliant.	Compliant	Recommendation 8: Ensure that the Rehabilitation and Landscape Management Plan is updated to the satisfaction of the secretary within 3 months of this audit.

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DA194	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	47	Within 3 months of the first Independent Environmental Audit (see Condition 11 in Schedule 5), the Applicant must lodge a rehabilitation bond for the development with the Secretary. The sum of the bond must be calculated at \$2.50/m ² for the total area to be disturbed in each 5 year period, or as otherwise directed by the Secretary.	Previous audit evidence: Letter to Director-General DP&I lodging rehabilitation bond to value of \$1,844,272 (11/02/13)	Considered complete.	Compliant	
DA195	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	47	<i>Notes:</i> <ul style="list-style-type: none"> • If the rehabilitation is completed to the satisfaction of the Secretary, the Secretary will release the rehabilitation bond. • If the rehabilitation is not completed to the satisfaction of the Secretary, the Secretary will call in all or part of the rehabilitation bond, and arrange for the satisfactory completion of the relevant works. 			Note	
DA196	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	48	Within 3 months of each Independent Environmental Audit (see Condition 11 in Schedule 5) after the lodgement of the rehabilitation bond, the Applicant must review, and if necessary revise the sum of the bond to the satisfaction of the Secretary. This review must consider:	No evidence provided of bond review or revision following previous audit.	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	Recommendation 9 : Review and if necessary revise the bond to the satisfaction of the Secretary.
DA197	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	48 (a)	(a) the effects of inflation;	No evidence provided of bond review or revision following previous audit.	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	Recommendation 9 : Review and if necessary revise the bond to the satisfaction of the Secretary.
DA198	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	48 (b)	(b) any changes to the total area of disturbance; and	No evidence provided of bond review or revision following previous audit.	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	Recommendation 9 : Review and if necessary revise the bond to the satisfaction of the Secretary.
DA199	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	48 (c)	(c) the performance of the rehabilitation against the completion criteria of the Rehabilitation and Landscape Management Plan.	No evidence provided of bond review or revision following previous audit.	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	Recommendation 9 : Review and if necessary revise the bond to the satisfaction of the Secretary.

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A	Table 11. Biodiversity Credits to be retired			Note	
DA200	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A	The Applicant must retire the biodiversity credits specified in Table 11 to the satisfaction of the Secretary and OEH. The retirement of credits must be undertaken in accordance with the <i>Framework for Biodiversity Assessment - NSW Biodiversity Offsets Policy for Major Projects</i> by:	Letter from DPIE 9 July 2018	The latest correspondence regarding the retirement of credits is as per the previous audit from July 2018. No further retirement of credits appears to have occurred since.	Compliant	
DA201	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (a)	(a) acquiring or retiring credits under the Biobanking Scheme in the TSC Act;			Note	
DA202	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (b)	(b) making payments into an offset fund that has been developed by the NSW Government; or			Note	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	(c) providing supplementary measures.			Note	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA203	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credits may be retired progressively as the vegetation to be offset by the credits is cleared. By 31 May 2017, unless otherwise agreed by the Secretary, the Applicant must retire the credits associated with the projected vegetation clearing for the following five years. Credits must continue to be obtained and retired in five-yearly increments prior to clearance of the area of vegetation expected to be cleared in the forthcoming five years. Each Annual Review required under condition 10 of Schedule 5 must record the number of credits retired in the reporting year (or previously) and the area of vegetation expected to be cleared in the forthcoming five years).	Lynwood Quarry Annual Environmental Review (2018) Lynwood Quarry Annual Environmental Review (2019)	AERs provide comment on number of credits retired in the reporting year.	Compliant	
DA204	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credit type: Ecosystem credits: HN614 Yellow Box – Blakely's Red Gum grassy woodland on the tablelands, South Eastern Highlands Bioregion Credits to be retired: 2124	Lynwood Quarry Annual Environmental Review (2018) Lynwood Quarry Annual Environmental Review (2019)	The 2019 AER states: "DPIE noted that that Holcim was granted an extension to the retirement of biodiversity credits and that the credits were to be retired in June 2018, no biodiversity credits have been retired in 2019. Obligations around biodiversity credits will continue to be addressed in the 2020 annual review period". No evidence has been seen of how this may have been addressed throughout the 2020 annual review period. Recommendation: Consult with DPIE for how to close out the issue of non-retirement of credits.	Non-compliant	Recommendation 10: Consult with DPIE for how to close out the issue of non-retirement of credits.
DA205	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credit type: Ecosystem credits: HN570 Red Stringybark – Brittle Gum – Inland Scribbly Gum dry open forest of the tablelands, South Eastern Highlands Bioregion Credits to be retired: 881	Previous audit evidence	Complete retirement so considered complete.	Compliant	
DA206	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credit type: Ecosystem credits: HN515 Broad-leaved Peppermint – Ribbon Gum grassy open forest in the north-east of the South Eastern Highlands Bioregion Credits to be Retired 33	Lynwood Quarry Annual Environmental Review (2018) Lynwood Quarry Annual Environmental Review (2019)	The 2019 AER states: "DPIE noted that that Holcim was granted an extension to the retirement of biodiversity credits and that the credits were to be retired in June 2018, no biodiversity credits have been retired in 2019. Obligations around biodiversity credits will continue to be addressed in the 2020 annual review period". No evidence has been seen of how this may have been addressed throughout the 2020 annual review period.	Non-compliant	Recommendation 10: Consult with DPIE for how to close out the issue of non-retirement of credits.

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DA207	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credit type: Ecosystem credits: Total: 3038 (2124 + 881 + 33)	Lynwood Quarry Annual Environmental Review (2018) Lynwood Quarry Annual Environmental Review (2019)	The 2019 AER states: "DPIE noted that that Holcim was granted an extension to the retirement of biodiversity credits and that the credits were to be retired in June 2018, no biodiversity credits have been retired in 2019. Obligations around biodiversity credits will continue to be addressed in the 2020 annual review period". No evidence has been seen of how this may have been addressed throughout the 2020 annual review period.	Non-compliant	Recommendation 10: Consult with DPIE for how to close out the issue of non-retirement of credits.
DA208	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credit type: Species Credits: Squirrel Glider (Petaurus norfolcensis) Credits to be retired: 1725	Previous audit evidence	Complete retirement so considered complete.	Compliant	
DA209	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credit type: Species Credits: Total: 1725	Previous audit evidence	Complete retirement so considered complete.	Compliant	
DA210	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	<i>Note: The management actions used to generate credits will need to avoid impacting on Aboriginal cultural heritage unless these impacts are identified within an approved Aboriginal Cultural Heritage Management Plan (see condition 35) or an approved Aboriginal Heritage Impact Permit.</i>			Note	
DA211	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	VISUAL IMPACT - Visual Amenity	49	The Applicant must minimise the visual impacts of the development to the satisfaction of the Director-General.	Site observations: Light screen and amenity bund observed.	A visual screen (over 10 m tall) has been erected west of the infrastructure area to reduce impacts of light from infrastructure. The amenity bund is still under construction with the aim of completion in mid 2021.	Compliant	
DA212	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	VISUAL IMPACT - Lighting Emissions	50	The Applicant must take all practicable measures to prevent and/or minimise any off-site lighting impacts from the development.	Site observations: Light screen and amenity bund observed.	A visual screen (over 10 m tall) has been erected west of the infrastructure area to reduce impacts of light from infrastructure. The amenity bund is still under construction with the aim of completion in mid 2021.	Compliant	

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DA213	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	VISUAL IMPACT - Lighting Emissions	51	All external lighting associated with the development must comply with <i>Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting</i> .	Previous audit evidence: GHD Lynwood Hard Rock Quarry Detailed Design and Documentation Design Certificate for Process Area External Lighting (31/01/14)		Compliant	
DA214	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	VISUAL IMPACT - Advertising	52	The Applicant must not erect or display any advertising structure(s) or advertisements on the site without the written approval of the Secretary.	Site Observations	No advertising signage observed.	Compliant	
DA215	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	VISUAL IMPACT - Waste Management	53	The Applicant must:				
DA216	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	VISUAL IMPACT - Waste Management	53 (a)	(a) monitor the amount of waste generated by the development;	Lynwood Quarry Annual Environmental Review (2018) Lynwood Quarry Annual Environmental Review (2019)	The AERs report on the volumes of waste generated.	Compliant	
DA217	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	VISUAL IMPACT - Waste Management	53 (b)	(b) investigate ways to minimise waste generated by the development;	Waste Management and Minimisation Strategy 2019	The Waste Management and Minimisation Strategy was revised in 2019 to account for staff changes. Content remained the same.	Compliant	
DA218	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	VISUAL IMPACT - Waste Management	53 (c)	(c) implement reasonable and feasible measures to minimise waste generated by the development; and	Waste Management and Minimisation Strategy 2020	The Waste Management and Minimisation Strategy was revised in 2019 to account for staff changes. Content remained the same.	Compliant	
DA219	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	VISUAL IMPACT - Waste Management	53 (d)	(d) report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.	Lynwood Quarry Annual Environmental Review (2018) Lynwood Quarry Annual Environmental Review (2019)	The AERs report on the volumes of waste generated.	Compliant	
DA220	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	VISUAL IMPACT - Waste Management	54	The Applicant must ensure that all wastes generated or stored at the site are assessed, classified and managed in accordance with the <i>Assessment, Classification and Management of Liquid and Non-liquid Waste</i> (OEH) guideline, or its successor (incorporates OEH GTA).	Waste goes to Anderson Waste as contractor. Site interview with R. Maclean identified that amore robust system being developed to improve recycling. This has not yet been implemented.	Waste Management and Minimisation Strategy Section 3.0 purpose and scope) states that "This Waste Management and Minimisation Strategy (WMMS) has been developed to ensure compliance with Condition 53, Schedule 3 of DA 128-5-2005." The document then presents both condition 53 and 54.	Compliant	Recommendation11 : Edit wording of Waste Management and Minimisation Strategy to explicitly capture condition 54.
DA221	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	EMERGENCY AND HAZARDS MANAGEMENT - Dangerous Goods	55	The Applicant must ensure that the storage, handling, and transport of dangerous goods are conducted in accordance with the relevant <i>Australian Standards</i> , particularly AS1940 and AS1596, and the <i>Dangerous Goods Code</i> .	Site observations indicated that materials are securely stored in specified locations.	2005 EIS Section 4.2.12 outlines compliance with the Dangerous Goods Code.	Compliant	
DA222	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	EMERGENCY AND HAZARDS MANAGEMENT - Safety	56	The Applicant must secure the development to ensure public safety to the satisfaction of the Director-General.	Good signage on entry.	Audit did not identify any examples of concern.	Compliant	
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	EMERGENCY AND HAZARDS MANAGEMENT - Bushfire Management	57	The Applicant must:				

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DA223	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	EMERGENCY AND HAZARDS MANAGEMENT - Bushfire Management	57(a)	ensure that the development is suitably equipped to respond to any fires on-site; and	Site observations.	Fire fighting equipment was observed on site. The site contains extensive water management infrastructure, including dams and water carts that could be used to source and move fire fighting water.	Compliant	
DA224	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	EMERGENCY AND HAZARDS MANAGEMENT - Bushfire Management	57(b)	assist the rural fire service and emergency services as much as possible if there is a fire on-site.	Mix of automated systems and extinguishers. Dams accessible for water use. Dams open to RFS. Water trucks on standby during high risk.	Dams open to RFS is required. Water trucks on standby during high risk if required.	Not triggered	
DA225	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	EMERGENCY AND HAZARDS MANAGEMENT - Bushfire Management	58	<i>deleted</i>				
	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	QUARRY EXIT STRATEGY						
DA226	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	QUARRY EXIT STRATEGY	59	At least 5 years prior to the cessation of quarry operations, the Applicant must prepare a Quarry Exit Strategy for the development, in consultation with the DPI Water and Council, and to the satisfaction of the Secretary. This plan must:			Not triggered	
DA227	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	QUARRY EXIT STRATEGY	59 (a)	define the objectives and criteria for quarry closure;			Not triggered	
DA228	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	QUARRY EXIT STRATEGY	59 (b)	investigate options for the future use of the site, including any final void/s;			Not triggered	
DA229	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	QUARRY EXIT STRATEGY	59 (c)	describe the measures that would be implemented to minimise or manage the ongoing environmental effects of the development; and			Not triggered	
DA230	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	QUARRY EXIT STRATEGY	59 (d)	describe how the performance of these measures would be monitored over time.			Not triggered	
	SCHEDULE 4 ADDITIONAL PROCEDURES	NOTIFICATION OF LANDOWNERS	1	As soon as practicable after obtaining monitoring results shown:			Note	
DA231	SCHEDULE 4 ADDITIONAL PROCEDURES	NOTIFICATION OF LANDOWNERS	1 (a)	(a) an exceedance of any relevant criteria in Schedule 3, the Applicant must notify the affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and	Rambol, Muller Acoustic. CCC meeting discussions (minutes available on website). No exceedances in the last 12 months.	No exceedances requiring ongoing reporting to landowners are detailed in the AERs within the audit period (i.e. since the previous audit). Short term PM10 exceedances are attributed to bushfire activity not related to site, or nearby agricultural activities.	Compliant	

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DA232	SCHEDULE 4 ADDITIONAL PROCEDURES	NOTIFICATION OF LANDOWNERS	1 (b)	(b) an exceedance of any relevant air quality criteria in Schedule 3, the Applicant must send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately owned).		Only one tenant resides on Holcim land, close to the Johnnifields Quarry, east of Lynwood Quarry. Health-based air quality criteria have not been exceeded at the high volume air sampler on the eastern side of the quarry (HVAS 2).	Not triggered	
DA233	SCHEDULE 4 ADDITIONAL PROCEDURES	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	
DA234	SCHEDULE 4 ADDITIONAL PROCEDURES	INDEPENDENT REVIEW	3	If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision the Applicant must:			Not triggered	
DA235	SCHEDULE 4 ADDITIONAL PROCEDURES	INDEPENDENT REVIEW	3 (a)	(a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to: <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 			Not triggered	
DA236	SCHEDULE 4 ADDITIONAL PROCEDURES	INDEPENDENT REVIEW	3 (b)	(b) give the Secretary and landowner a copy of the independent review.			Not triggered	
DA237	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1	If the Secretary requires, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:	Lynwood Quarry Environmental Management Strategy (Feb 2020)	The previous EMS has been updated and was approved in February 2020.	Compliant	
DA238	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1 (a)	(a) be submitted to the Secretary for approval within 6 months of the Secretary requiring preparation of the strategy by notice to the Applicant;	Lynwood Quarry Environmental Management Strategy (Feb 2020)	The original strategy was approved, and the EMS has subsequently been updated.	Compliant	
DA239	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1 (b)	(b) provide the strategic framework for the environmental management of the development;	Lynwood Quarry Environmental Management Strategy (Feb 2020)	EMS (2020) Section 4 (Environmental Management Framework)	Compliant	

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DA240	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1 (c)	(c) identify the statutory approvals that apply to the development;	Lynwood Quarry Environmental Management Strategy (Feb 2020)	EMS (2020) Section 3 (Statutory Requirements)	Compliant	
DA241	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1 (d)	(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;	Lynwood Quarry Environmental Management Strategy (Feb 2020)	EMS (2020) Section 6.1, Table 5 (Roles and Responsibilities)	Compliant	
DA242	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1 (e)	(e) describe the procedures that would be implemented to:			Note	
DA243	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1 (e)	<ul style="list-style-type: none"> keep the local community and relevant agencies informed about the operation and environmental performance of the development; 		EMS Section 6.3.2 (External Communication)	Compliant	
DA244	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1 (e)	<ul style="list-style-type: none"> receive, handle, respond to, and record complaints; 		EMS (2020) Section 6.4 (Complaints Management and Dispute Resolution)	Compliant	
DA245	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1 (e)	<ul style="list-style-type: none"> resolve any disputes that may arise during the course of the development; 		EMS (2020) Section 6.4 (Complaints Management and Dispute Resolution)	Compliant	
DA246	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1 (e)	<ul style="list-style-type: none"> respond to any non-compliance; and 		EMS Section 7 (Environmental Monitoring, Corrective Action and Audits)	Compliant	
DA247	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1 (e)	<ul style="list-style-type: none"> respond to emergencies; and 		EMS (2020) Section 6.7 (Emergency Preparedness and Response)	Compliant	
DA248	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1 (f)	(f) include: <ul style="list-style-type: none"> copies of any strategies, plans and programs approved under the conditions of this development consent; and a clear plan depicting all the monitoring required to be carried out under the conditions of this consent. 		As per the previous version of the EMS, and the previous audit findings: The strategies, plans and programs approved under the Development Consent are described. However, they are not attached. This is appropriate as the plans need to be reviewed and updated periodically. It is better that there is one version of each plan in the system rather than replicating the plan as an appendix to the EMS so that it is clear which is the most recent version of each plan. Similarly, monitoring requirements should be provided in only one place - the plan to which they are relevant.	Compliant	
DA249	SCHEDULE 5 ENVIRONMENTAL	ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)	1	The Applicant must implement any Environmental Management Strategy as approved from time to time by the Secretary.	Site observations.	EMS appears implemented as appropriate.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA250	SCHEDULE 5 ENVIRONMENTAL	Evidence of Consultation	1A	Where consultation with any public authority is required by the conditions of this consent, the Applicant must:			Note	
DA251	SCHEDULE 5 ENVIRONMENTAL	Evidence of Consultation	1A (a)	(a) consult with the relevant public authority prior to submitting the required document to the Secretary for approval;	Revised management plans since condition: Rehabilitation and Landscape Management Plan (2018) Aboriginal Heritage Management Plan (2018) Environmental Management Strategy (2020) Noise Management Plan (2020) Blast Management Plan (2020)	Revisions of management plans during the audit period describe the consultation undertaken during their preparation. Sighted numerous letters/emails involving consultation with government agencies regarding conditions relevant to their jurisdiction, plans /programs/ strategies relevant to their scope. Agency responses to consultation as part of this audit indicate ongoing communication.	Compliant	
DA252	SCHEDULE 5 ENVIRONMENTAL	Evidence of Consultation	1A (b)	(b) submit evidence of this consultation as part of the relevant document;	Revised management plans since condition: Rehabilitation and Landscape Management Plan (2018) Aboriginal Heritage Management Plan (2018) Environmental Management Strategy (2020) Noise Management Plan (2020) Blast Management Plan (2020)	Various revised Management plans contain 'Consultation' sections. RLMP (2018) now has agency consultation in Appendix 9, Noise Management Plan provides it in Appendix 1. Not all revised plans provide the actual consultation (e.g. blast management plan 2020), but do allude to it in the document.	Compliant	Recommendation 12 : Append agency consultation to all future revisions of management plans.
DA253	SCHEDULE 5 ENVIRONMENTAL	Evidence of Consultation	1A (c)	(c) describe how matters raised by the authority have been addressed and any matters not resolved; and	Revised management plans since condition: Rehabilitation and Landscape Management Plan (2018) Aboriginal Heritage Management Plan (2018) Environmental Management Strategy (2020) Noise Management Plan (2020) Blast Management Plan (2020)	Various revised Management plans contain 'Consultation' sections which summarise the consultation held. RLMP (2018) now has agency consultation in Appendix 9, Noise Management Plan provides it in Appendix 1. Not all revised plans provide the actual consultation (e.g. blast management plan 2020), but do allude to it in the document.	Complaint	Recommendation 12 : Append agency consultation summary to all future revisions of management plans.
DA254	SCHEDULE 5 ENVIRONMENTAL	Evidence of Consultation	1A (d)	(d) include details of any outstanding issues raised by the authority and an explanation of disagreement between any public authority and the Applicant.		Various revised Management plans contain 'Consultation' sections which summarise the consultation held. RLMP (2018) now has agency consultation in Appendix 9, Noise Management Plan provides it in Appendix 1. Not all revised plans provide the actual consultation (e.g. blast management plan 2020), but do allude to it in the document and provide pertinent points.	Compliant	Recommendation 12 : Append agency consultation summary to all future revisions of management plans.
	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2	The Applicant must ensure that the Management Plans required under this consent are prepared in accordance with any relevant guidelines, and include:				

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA255	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (a)	(a) detailed baseline data;	Revised management plans since condition: Rehabilitation and Landscape Management Plan (2018) Aboriginal Heritage Management Plan (2018) Environmental Management Strategy (2020) Noise Management Plan (2020) Blast Management Plan (2020)	This condition was introduced in MOD4 (May 2016) so does not apply to plans prepared prior to this time. Plans revised since this date contain baseline data.	Compliant	Recommendation 13 : Provide previously collected detailed baseline data in any future management plan revisions.
DA256	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (b)	(b) a description of: • the relevant statutory requirements (including any relevant approval, licence or lease conditions); • any relevant limits or performance measures/criteria; and • the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	Revised management plans since condition: Rehabilitation and Landscape Management Plan (2018) Aboriginal Heritage Management Plan (2018) Environmental Management Strategy (2020) Noise Management Plan (2020) Blast Management Plan (2020)	This condition was introduced in MOD4 (May 2016) so does not apply to plans prepared prior to this time.	Compliant	
DA257	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (c)	(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	Revised management plans since condition: Rehabilitation and Landscape Management Plan (2018) Aboriginal Heritage Management Plan (2018) Environmental Management Strategy (2020) Noise Management Plan (2020) Blast Management Plan (2020)	This condition was introduced in MOD4 (May 2016) so does not apply to plans prepared prior to this time.	Compliant	
DA258	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (d)	(d) a program to monitor and report on the: • impacts and environmental performance of the development; and • effectiveness of any management measures (see (c) above)	Revised management plans since condition: Rehabilitation and Landscape Management Plan (2018) Aboriginal Heritage Management Plan (2018) Environmental Management Strategy (2020) Noise Management Plan (2020) Blast Management Plan (2020)	This condition was introduced in MOD4 (May 2016) so does not apply to plans prepared prior to this time.	Compliant	

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DA259	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (e)	(e) a contingency plan to manage any unpredicted impacts and their consequences;	Revised management plans since condition: Rehabilitation and Landscape Management Plan (2018) Aboriginal Heritage Management Plan (2018) Environmental Management Strategy (2020) Noise Management Plan (2020) Blast Management Plan (2020)	This condition was introduced in MOD4 (May 2016) so does not apply to plans prepared prior to this time.	Compliant	Recommendation 14 : Provide contingency plans in any future management plan revisions if applicable to the plan.
DA260	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (f)	(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	Revised management plans since condition: Rehabilitation and Landscape Management Plan (2018) Aboriginal Heritage Management Plan (2018) Environmental Management Strategy (2020) Noise Management Plan (2020) Blast Management Plan (2020)		Compliant	
DA261	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (g)	(g) a protocol for managing and reporting any: • incidents; • complaints; • non-compliances with statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and	Revised management plans since condition: Rehabilitation and Landscape Management Plan (2018) Aboriginal Heritage Management Plan (2018) Environmental Management Strategy (2020) Noise Management Plan (2020) Blast Management Plan (2020) 'Incontrol' incident register.	Along with the approved management plans, Holcim has the 'Incontrol' incident register in operation.	Compliant	
DA262	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (h)	(h) a protocol for periodic review of the plan.	Revised management plans since condition: Rehabilitation and Landscape Management Plan (2018) Aboriginal Heritage Management Plan (2018) Environmental Management Strategy (2020) Noise Management Plan (2020) Blast Management Plan (2020)	This condition was introduced in MOD4 (May 2016) so does not apply to plans prepared prior to this time.	Compliant	Recommendation 15 : Future updates to plans prepared prior to MOD4 should provide a protocol for periodic review

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DA263	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2	<i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i>			Note	
DA264	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	3	Prior to approval of management plans required under Schedule 3, all existing management plans, monitoring programs, strategies, programs, protocols, etc approved as at the date of approval of Modification 4 must continue to have full force and effect, and may be revised under the requirements of condition 5 below as if subject to the conditions of this consent that applied prior to the approval of Modification 4, or otherwise with the approval of the Secretary.			Note	
DA265	SCHEDULE 5 ENVIRONMENTAL	UPDATING & STAGING SUBMISSION OF STRATEGIES, PLANS OR PROGRAMS	4	To ensure the strategies, plans or programs under this consent are updated on a regular basis, and that they incorporate any appropriate mitigation measures to improve the environmental performance of the development, the Applicant may at any time submit revised strategies, plans or programs to the Secretary for approval. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis.			Note	
DA266	SCHEDULE 5 ENVIRONMENTAL	UPDATING & STAGING SUBMISSION OF STRATEGIES, PLANS OR PROGRAMS	4	With the agreement of the Secretary, the Applicant may revise any strategy, plan or program approved under this consent without consulting with all the parties nominated under the applicable conditions of consent.			Note	
DA267	SCHEDULE 5 ENVIRONMENTAL	UPDATING & STAGING SUBMISSION OF STRATEGIES, PLANS OR PROGRAMS	4	Notes: <ul style="list-style-type: none"> • While any strategy, plan or program may be submitted on a progressive 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 to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program. 			Note	

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DA268	SCHEDULE 5 ENVIRONMENTAL	REVISION OF STRATEGIES, PLANS & PROGRAMS	5	Within 3 months of the submission of an: (a) incident report under condition 8 below; (b) Annual Review under condition 10 below; (c) audit report under condition 11 below; and (d) any modifications to this consent, the Applicant must review, and if necessary revise, the strategies, plans, and programs required under this consent, to the satisfaction of the Secretary.	Sighted signed 'Evidence of Internal Review' forms.	Sighted signed 'Evidence of Internal Review' forms indicating review process of all management plans was underway, or complete with a required action. 2018 AER states: During the 2018 report period, management plans were not updated three months after the submission of the Annual Review. It is noted this was corrected in the following reporting period (2019) so assumed to be closed out.	Compliant	Recommendation 16 : Establish a register to ensure accurate tracking of strategy, plan and program updates against required timeframes.
DA269	SCHEDULE 5 ENVIRONMENTAL	REVISION OF STRATEGIES, PLANS & PROGRAMS	5	<i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development.</i>			Note	
DA270	SCHEDULE 5 ENVIRONMENTAL	ADAPTIVE MANAGEMENT	6	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.			Note	
	SCHEDULE 5 ENVIRONMENTAL	ADAPTIVE MANAGEMENT	6	Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity:			Note	
DA271	SCHEDULE 5 ENVIRONMENTAL	ADAPTIVE MANAGEMENT	6 (a)	take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur;	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019	Sighted AERs for the audit period, each of which shows actions taken to minimise/control/report on exceedances.	Compliant	
DA272	SCHEDULE 5 ENVIRONMENTAL	ADAPTIVE MANAGEMENT	6 (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	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019		Compliant	
DA273	SCHEDULE 5 ENVIRONMENTAL	ADAPTIVE MANAGEMENT	6 (c)	implement remediation measures as directed by the Secretary, to the satisfaction of the Secretary.		No directions given during audit period.	Not triggered	

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DA274	SCHEDULE 5 ENVIRONMENTAL	COMMUNITY CONSULTATIVE COMMITTEE	7	The Applicant must operate a Community Consultative Committee (CCC) for the development, to the satisfaction of the Secretary. This CCC must be operated in general accordance with the Department's Community Consultative Committee Guidelines for State Significant Projects, November 2016 (or its latest version).	Letter from Brendan Blakeley, Lynwood Quarry's CCC Chair, to Kleinfelder 7 October 2020.	Letter states "The CCC runs according to the original conditions of approval. However, our practices are aligned with the Department of Planning and Environment's CCC Guidelines." There have been five CCC meetings during the audit period (since the last audit)	Compliant	
DA275	SCHEDULE 5 ENVIRONMENTAL	COMMUNITY CONSULTATIVE COMMITTEE	7	<i>Notes:</i> <ul style="list-style-type: none"> The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent. In accordance with the guideline, the committee should be comprised of an independent chair and appropriate representation from the Applicant, Council, and the local community. 			Note	
DA276	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Incident Reporting	8	The Applicant must notify, at the earliest opportunity, the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the development, the Applicant must notify the Secretary and any other relevant agencies as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	Pollution Incident Response Management Plan Lynwood Quarry (September 2019) Incontrol incident register. Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019	Incidents appear to be managed as per the requirements.	Compliant	Recommendation 17 : PIRMP should be amended to include notification of the Secretary following an emergency incident, as per the requirements of this condition.
DA277	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Regular Reporting	9	The Applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	Holcim Lynwood Quarry webpage (accessed 19/10/2020) https://www.holcim.com.au/about-us/community-link/lynwood/planning-approvals-reporting	Annual reports and management plans are provided on the Holcim website, along with community information.	Compliant	

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DA278	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10	By the end of September each year, or other timing as may be agreed by the Secretary, the Applicant must review the environmental performance of the development to the satisfaction of the Secretary. This review must:	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019	The Annual Review reporting period is agreed to be 1 January to 1 December each year.	Compliant	
DA279	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10 (a)	(a) describe the development (including rehabilitation) that was carried out in the previous financial year, and the development that is proposed to be carried out over the current financial year;	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019		Compliant	
DA280	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10 (b)	(b) include a comprehensive review of the monitoring results and complaints records of the development over the previous financial year, which includes a comparison of these results against: <ul style="list-style-type: none"> the relevant statutory requirements, limits or performance measures/criteria; requirements of any plan or program required under this consent; the monitoring results of previous years; and the relevant predictions in the documents listed in condition 2(a) of Schedule 2; 	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019		Compliant	
DA281	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10 (c)	(c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019		Compliant	
DA282	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10 (d)	(d) identify any trends in the monitoring data over the life of the development;	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019		Compliant	

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DA283	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10 (e)	(e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies;	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019		Compliant	
DA284	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10 (f)	(f) describe what measures will be implemented over the current financial year to improve the environmental performance of the development.	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019		Compliant	
DA285	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10 (g)	(g) describe the area of vegetation cleared as part of the development and identify the area proposed to be cleared over the next 5 years;	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019	Future clearing in AER is dealt with by reference to RLMP.	Compliant	
DA286	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10 (h)	(h) calculate the number of additional BioBanking (or equivalent) credits that will need to be purchased, before that clearing can be done; and	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019	AERs present how the number of credits required per stage of development have been calculated for the granite pit and how those credits are being progressively retired.	Compliant	Recommendation 18 : Future Annual Environmental Reviews should include information on the additional BioBanking (or equivalent) credits that will need to be purchased or note that no additional credits are required.
DA287	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10 (i)	(i) report on the number of BioBanking (or equivalent) credits that have been purchased to allow ongoing clearing and completion of stages.	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019	AERs present how the number of credits required per stage of development have been calculated for the granite pit and how those credits are being progressively retired.	Compliant	
DA288	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10	The Applicant must ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee (see condition 7 of Schedule 5) and any interested person upon request.	Lynwood Quarry Annual Environment Review 2018 Lynwood Quarry Annual Environment Review 2019	While the AERs are publicly available on the Holcim website, there is no evidence that that the AERs in the reporting period were submitted directly to Council.	Non-compliant	Recommendation 19 : A list of agencies that receive the AERs is included in the AERs.

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DA289	SCHEDULE 5 ENVIRONMENTAL	INDEPENDENT ENVIRONMENTAL AUDIT	11	By 30 September 2017, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:	This audit.	Audit commissioned prior to 30 September. Site inspection performed 29 September 2020.	Compliant	
DA290	SCHEDULE 5 ENVIRONMENTAL	INDEPENDENT ENVIRONMENTAL AUDIT	11 (a)	(a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;	Letters from DPIE approving proposed audit team members dated 24/08/2020 and 22/09/2020.		Compliant	
DA291	SCHEDULE 5 ENVIRONMENTAL	INDEPENDENT ENVIRONMENTAL AUDIT	11 (b)	(b) include consultation with the relevant agencies and the CCC;	Letter sent to relevant agencies and responses appended to the audit report.		Compliant	
DA292	SCHEDULE 5 ENVIRONMENTAL	INDEPENDENT ENVIRONMENTAL AUDIT	11 (c)	(c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL and/or Water Licence (including any assessment, plan or program required under these approvals);		All conditions of consent (Mod 5), statement of commitments (SoC), and the EPL have been audited, along with any assessment, plan or program required under these approvals .	Compliant	
DA293	SCHEDULE 5 ENVIRONMENTAL	INDEPENDENT ENVIRONMENTAL AUDIT	11 (d)	(d) review the adequacy of any approved strategy, plan or program required under the these approvals;		The adequacy of approved strategies, plans and programs required under the these approvals has been reviewed.	Compliant	
DA294	SCHEDULE 5 ENVIRONMENTAL	INDEPENDENT ENVIRONMENTAL AUDIT	11 (e)	(e) recommend measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under these approvals; and		Recommendations provided in the audit report.	Compliant	
DA295	SCHEDULE 5 ENVIRONMENTAL	INDEPENDENT ENVIRONMENTAL AUDIT	11 (f)	(f) be conducted and reported to the satisfaction of the Secretary.		To be confirmed by DPIE.	Note	
DA296	SCHEDULE 5 ENVIRONMENTAL	INDEPENDENT ENVIRONMENTAL AUDIT	11	<i>Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.</i>			Note	
DA297	SCHEDULE 5 ENVIRONMENTAL	INDEPENDENT ENVIRONMENTAL AUDIT	12	Within 12 weeks of commencing this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, Council, EPA and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report.			Compliant	
	SCHEDULE 5 ENVIRONMENTAL	ACCESS TO INFORMATION	13	By 30 November 2016, unless otherwise agreed by the Secretary, until the completion of all works, including rehabilitation and remediation, the Applicant must:			Note	
DA298	SCHEDULE 5 ENVIRONMENTAL	ACCESS TO INFORMATION	13 (a)	a) make the following information publicly available on its website:			Note	

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DA299	SCHEDULE 5 ENVIRONMENTAL	ACCESS TO INFORMATION	13 (a)	<ul style="list-style-type: none"> the documents listed in condition 2(a) of Schedule 2; 	Holcim Lynwood Quarry webpage (accessed 19/10/2020) https://www.holcim.com.au/about-us/community-link/lynwood/planning-approvals-reporting	Documents available online	Compliant	
DA300	SCHEDULE 5 ENVIRONMENTAL	ACCESS TO INFORMATION	13 (a)	<ul style="list-style-type: none"> current statutory approvals for the development; 	Holcim Lynwood Quarry webpage (accessed 19/10/2020) https://www.holcim.com.au/about-us/community-link/lynwood/planning-approvals-reporting	Documents available online	Compliant	
DA301	SCHEDULE 5 ENVIRONMENTAL	ACCESS TO INFORMATION	13 (a)	<ul style="list-style-type: none"> approved strategies, plans or programs; 	Holcim Lynwood Quarry webpage (accessed 19/10/2020) https://www.holcim.com.au/about-us/community-link/lynwood/planning-approvals-reporting	Documents available online	Compliant	
DA302	SCHEDULE 5 ENVIRONMENTAL	ACCESS TO INFORMATION	13 (a)	<ul style="list-style-type: none"> a summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent; 		All AERs available on website. Annual monitoring data available on website.	Compliant	
DA303	SCHEDULE 5 ENVIRONMENTAL	ACCESS TO INFORMATION	13 (a)	<ul style="list-style-type: none"> a complaints register, which is to be updated on a quarterly basis; 	https://www.holcim.com.au/about-us/community-link/lynwood/our-community/complaints-register (accessed 19/10/20)	Up to date complaints register available on website.	Compliant	
DA304	SCHEDULE 5 ENVIRONMENTAL	ACCESS TO INFORMATION	13 (a)	<ul style="list-style-type: none"> the Annual Reviews (over the last 5 years); 	Holcim Lynwood Quarry webpage (accessed 19/10/2020) https://www.holcim.com.au/about-us/community-link/lynwood/planning-approvals-reporting	AERs from 2010/11 to 2019 are available	Compliant	
DA305	SCHEDULE 5 ENVIRONMENTAL	ACCESS TO INFORMATION	13 (a)	<ul style="list-style-type: none"> any independent environmental audit, and the Applicant's response to the recommendations in any audit; 	Holcim Lynwood Quarry webpage (accessed 19/10/2020) https://www.holcim.com.au/about-us/community-link/lynwood/planning-approvals-reporting	2012, 2015 and 2019 (2017) IEAs available.	Compliant	
DA306	SCHEDULE 5 ENVIRONMENTAL	ACCESS TO INFORMATION	13 (a)	<ul style="list-style-type: none"> any other matter required by the Secretary; and 			Note	
DA307	SCHEDULE 5 ENVIRONMENTAL	ACCESS TO INFORMATION	13 (a)	<ul style="list-style-type: none"> keep this information up-to-date, 	Holcim Lynwood Quarry webpage (accessed 19/10/2020) https://www.holcim.com.au/about-us/community-link/lynwood/planning-approvals-reporting	Webpage up to date when accessed on 19/10/2020.	Compliant	

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	SCHEDULE 5 ENVIRONMENTAL	ACCESS TO INFORMATION	13	to the satisfaction of the Secretary.			Note	
DA308	Appendix 1	APPENDIX 1: SCHEDULE OF LAND	APP1	Includes a list of all Lot, DP numbers as well as Owner details			Note	
DA309	Appendix 2	APPENDIX 2: DEVELOPMENT LAYOUT [Map figure]	APP2		Site observations. Review of Nearmap satellite image against Appendix 2 (Development Layout).	Development layout is generally in accordance with DA.	Compliant	
DA310	Appendix 3	APPENDIX 3. NOISE RECEIVER LOCATIONS [Map figure]	APP3				Note	
DA311	Appendix 4	APPENDIX 4. LOCATION OF SEDIMENT DAMS [Map figure]	APP4		Site observations. Review of Nearmap satellite image against Appendix 2 (Development Layout).	Sediment dams are as per Appendix 4.	Compliant	
DA312	Appendix 5	APPENDIX 5. CONSTRUCTION TRAFFIC ROUTES [Map figure]	APP5			Construction was not occurring at the time of the audit, however no evidence was observed to suggest that when construction does occur, construction traffic uses anything other than the approved traffic routes. The South Marulan Interchange is fully operational.	Compliant	
DA313	Appendix 6	APPENDIX 6. CULTURAL HERITAGE MANAGEMENT ZONE [Map figure]	APP6		Site observations. Review of Nearmap satellite image against Appendix 6.	Cultural heritage management zones are fenced and well signed. No disturbance was observed within the zones.	Compliant	
	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	APP7	These conditions apply to the portion of the State Heritage Register Area within the site that is impacted by the development.			Note	
DA314	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	1	The NSW Heritage Office must be informed in writing of the start of the archaeological investigation at least five (5) days prior to the commencement of, and within five (5) days of the completion of on-site archaeological work.	As per previous audit: LTR_Old Marulan_Sign off_Dec 2010.		Compliant	
DA315	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	2	The Heritage Council and staff of the NSW Heritage Office authorised under section 148(1) of the 'Heritage Act, 1977' reserve the right to inspect the site and records at all times, as well as access any relics recovered from the site.	As per previous audit: Site interviews (2012).	Inspection was conducted on 22/12/07	Compliant	

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DA316	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	3	The Applicant must ensure that all personnel involved in excavation works attend a comprehensive briefing on the requirements of the 'Heritage Act, 1977' in relation to archaeological relics and the proposed archaeological programme. The briefing is to be presented by the Excavation Director nominated in the section 60 application and is to be undertaken prior to the commencement of on-site works. A copy of this approval and conditions of consent should be made available to all archaeological on-site staff.	As per previous audit: Interview with the Excavation Director, T. Adams (Umwelt) (6/6/12).		Compliant	
DA317	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	4	The Applicant must ensure that if substantial intact archaeological deposits and/or State significant relics not identified in <i>Environmental Impact Statement, Readymix Holding Pty Ltd Proposed Lynwood Quarry, Marulan</i> , prepared by Umwelt Environmental Consultants, are discovered, work must cease in the affected area(s) and the Heritage Council of NSW must be notified. Additional assessment and approval may be required prior to works continuing in the affected area(s) based on the nature of the discovery.		No substantial intact archaeological deposits and/or State significant relics identified in any reporting.	Not triggered	
DA318	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	5	The Heritage Council of NSW must approve any substantial deviations from the approved research design outlined in <i>Environmental Impact Statement, Readymix Holding Pty Ltd Proposed Lynwood Quarry, Marulan</i> , prepared by Umwelt Environmental Consultants, including extent and techniques of excavations, as an application for the variation of an approval under section 65A or a new application under section 60 of the 'Heritage Act, 1977'.	As per previous audit: Old Marulan Archaeological Letter to DECC, S65_2009_65A_11 (27/10/10).	As per previous audit: The S65A variation 2007/S65/11 which refers to the approval of the changed research design has not been sighted but subsequent DECC letters note this variation as occurring.	Compliant	
DA319	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	6	The Applicant must ensure that the nominated Excavation Director is present at the site supervising all archaeological fieldwork activity likely to expose significant relics 100% of the duration of the archaeological activity. Should this not be possible, then the Applicant must forward for the approval of the Heritage Council or Director of the NSW Heritage Office the details of a Site Director in charge for this period.		Previous audit sighted S65_2009_65A_13, s65 assist director and notification. It is understood no further archaeological fieldwork occurred during the audit period.	Compliant	

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DA320	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	7	At all times during periods of archaeological excavation the Applicant must comply with any directions of the nominated Excavation Director in relation to works likely to impact on this resource. Where major issues arise the Excavation Director must consult with the Director of the heritage Office prior to issuing directions.	As per previous audit: Holcim letter to OEH dated 15 June 2017.	As per previous audit: Letter sighted shows that all archaeological salvage works are to be completed with involvement from archaeologist (i.e. monitoring is to be undertaken by archaeologist).	Compliant	
DA321	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	8	Given the exceptional significance of the archaeological remains of the Old Marulan Township, the Applicant must ensure that the nominated Excavation Director, and archaeological excavation team, are given priority when allocating resources to allow thorough archaeological excavation and full and detailed recording to be undertaken to the satisfaction of the Heritage Council. Where necessary, work schedules shall be adjusted to accommodate the approved archaeological works.	Heritage Branch sign off (16/12/2010).		Compliant	
DA322	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	9	Throughout the archaeological excavation works and post-excavation analysis, the Applicant must ensure that:				
DA323	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	9(a)	Appropriate signage to explain the history of the site and the archaeological excavation works is placed at the site during the work,		There are no signs. However, there are no appropriate publicly accessible locations to place these signs so this is considered appropriate.	Compliant	
DA324	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	9(b)	A local public information program is implemented including press releases to ensure the public is informed about the project and its outcomes,			Compliant	
DA325	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	9(c)	Community participation in the archaeological works on the site is allowed for through the inclusion of volunteers on the archaeological team under the supervision of the Excavation Director,	https://www.holcim.com.au/about-us/community-link/lynwood/our-heritage (accessed 19/10/2020) https://www.holcim.com.au/about-us/community-link/lynwood/our-community (accessed 19/10/2020)	Community invited to submit enquiries online	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA326	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	9(d)	A website addressing the archaeological works on the site must be created. This website must feature a history of the site, archaeological methodology, updated information on the archaeological works, photographs of the site and significant archaeological remains uncovered, links to the archaeological reports and links to other relevant sites. Public feedback must also be allowed for in this section of the website. Updated information on the Open Day to be held during archaeological works at Old Marulan Township and an on- line booking service must also be included,	https://www.holcim.com.au/about-us/community-link/lynwood/our-heritage (accessed 19/10/2020)	Community invited to submit enquiries online	Compliant	
DA327	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	9(e)	The progress on the archaeological works on site is systematically video recorded,	Site interview with R. Maclean suggested photographs are taken for evidence. Video recording not suitable and/or appropriate due to sensitivities.	Videos are not able to be located and it is understood that photographs were taken instead.	Non-compliant	Recommendation 20 : Close this issue out with DPIE to avoid ongoing non-compliance issues at each audit. Ensure videos are taken during any future archaeological works on site.
DA328	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	9(f)	The services of a conservator must be utilised for conservation of significant artefacts,	Previous audit sighted Old Marulan Archaeological Letter to DECC (27/10/10)		Compliant	
DA329	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	9(g)	The Heritage Office is notified weekly, in writing, of the progress of work during excavation and monthly during post excavation analysis,		While the auditor did not sight any evidence of reports, correspondence with Heritage Office does not identify any issues with excavation.	Compliant	
DA330	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	9(h)	All affected areas of the site are signed off by the Heritage Office prior to commencement of bulk excavation in those identified locations, and	Previous audit sighted: Heritage Branch sign off on 16/12/2010 prior to initial bulk excavation.		Compliant	
DA331	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	9(i)	At the completion of the archaeological works on site the results of the archaeological programme are interpreted as part of an interpretation programme for the Old Marulan Township precinct.	Previous audit sighted: Umwelt letter to OEH, dated 29 June 2011 regarding Old Marulan Township - Road Reserve Works		Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA332	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	10	It is essential that the Applicant and nominated Excavation Director allow for and present opportunities for interpretation, public education and public access to the results of the archaeological investigation during and upon completion of the works programme. A number of Public Open Days (to be determined based on public demand) must be conducted at the site. These Public Open Days must be scheduled to take place during a weekend to facilitate public attendance and must be advertised at least one week ahead to facilitate greater public awareness of the opportunity. Visits need to be prebooked to better organise the groups and on-site activities. The Applicant must ensure that local historical societies and other relevant cultural organisations are formally notified and invited to the Public Open Days.	Community information session held November 2019 for everything, not just heritage. Info provided on silica.	No additional public open days specifically regarding heritage held. However, it is considered that the community information session provided the same public service and public opportunity for involvement as an open day.	Compliant	
DA333	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	11	An interpretation programme for the entire Old Marulan Township heritage precinct incorporating the results of the archaeological excavation must be implemented. This interpretation should help the public understand the history and significance of the site. Final design details of the interpretation plan, including information on the display and housing of artefacts and other relevant materials, and interpretation of the structural remains, is to be submitted to the Director of the Heritage Office for written approval before implementation of the interpretation.	Previous audit sighted: letter from Heritage Branch_Well MRNH8_InterpPlan_20090305 - stating Heritage Branch satisfied with public interpretation	Considered closed following previous audit finding.	Compliant	
DA334	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	12	The Applicant must ensure that an archaeological publication for the general public of Old Marulan Township incorporating the results of the archaeological programme at the site is prepared. Final design details of this publication are to be submitted to the Director of the NSW Heritage Office for approval within six months of the completion of the excavation programme. The publication is to be completed within one (1) year of the conclusion of the project unless an extension of time is approved by the Heritage Council of NSW.	Previous audit sighted photographs of the Old Marulan 2007 Archaeological Investigations - Final Report - Volume 2 Umwelt letter to Holcim advising that the final archaeological report for the Old Marulan 2007 archaeological excavations has been completed (and enclosing a copy with the letter) dated 20 May 2015	Considered closed following previous audit finding.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA335	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	13	The Applicant must ensure that the nominated Excavation Director takes adequate steps to record in detail relics, structures and features discovered on the site during the archaeological works in accordance with current best practice. This work must be undertaken in accordance with the NSW Heritage Office guidelines, 'How to Prepare Archival Records of Heritage Items' (1998) and 'Guidelines for Photographic Recording of Heritage Items' (2004). One (1) copy of the photographic and archival recording shall be submitted to the Heritage Council of NSW. A further copy shall be lodged with the local library and/or another appropriate local repository in the area in which the site is located.		No further evidence of records provided since previous audit, however it is unclear if further archaeological works have occurred since the previous audit. Archaeological works are not currently occurring.	Compliant	
DA336	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	14	The Applicant is responsible for the safe-keeping of all relics recovered from the site.	Previous audit sighted: Heritage Branch letter detailing Artefact management policy is appropriate (7/9/09)		Compliant	
DA337	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	15	The Applicant must ensure that the site under archaeological investigation is made secure and that the unexcavated artefacts, structures and features are not subject to deterioration, damage or destruction during and after fieldwork.	Site observations	No continued archaeological excavation occurring. Areas of heritage interest are fenced and/or signposted.	Compliant	
DA338	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	16	The Applicant must ensure that the nominated Excavation Director cleans, stabilises, labels, analyses, catalogues and stores any artefacts recovered from the site in a way that allows them to be retrieved according to both type and provenance.		No continued archaeological excavation occurring. Areas of heritage interest are fenced and/or signposted.	Compliant	
DA339	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	17	The Applicant must ensure that a summary of the results of the field work, up to 500 words in length, is submitted to the Heritage Council of NSW for approval within one (1) month of completion of archaeological field work. This information is required in accordance with section 146(b) of the 'Heritage Act, 1977'.	Previous audit sighted: End of fieldwork 500 word report - final (2) (D. Gojak, Banksia Heritage + Archaeology, 15/3/08). Considered closed.		Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA340	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	18	The Applicant must ensure that a final excavation report is prepared by the nominated Excavation Director, to publication standard, within one (1) year of the completion of the field based archaeological activity unless an extension of time or other variation is approved by the Heritage Council of NSW.	Previous audit sighted: relevant pages of the Old Marulan 2007 Archaeological Investigations - Final Report - Volume 2 Umwelt letter to Holcim advising that the final archaeological report for the Old Marulan 2007 archaeological excavations has been completed (and enclosing a copy with the letter) dated 20 May 2015	Previous audit found : <i>The report was not submitted within the specified timeframe. No further actions are recommended.</i> As the report has now been submitted the matter is considered closed, with compliance during the audit period.	Compliant	
DA341	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	19	The Applicant must ensure that one (1) electronic copy of the final excavation report is submitted on CD to the Heritage Council of NSW together with two (2) printed copies of the final excavation report. These reports are required in accordance with section 146(b) of the 'Heritage Act, 1977'. The Applicant must also ensure that further copies are lodged with the local library and/or another appropriate local repository in the area in which the site is located.	Umwelt letter to Heritage Division, OEH, providing the final excavation report and electronic data, dated 20 May 2015.		Compliant	
DA342	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	20	The Applicant must ensure that the information presented in a final excavation report includes the following:			Note	
DA343	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	20(a)	(a) An executive summary,	Sighted relevant pages of the Old Marulan 2007 Archaeological Investigations - Final Report - Volume 2, available online at https://www.holcim.com.au/sites/australia/files/atoms/files/lynwod-oldmarulan2007-v2.pdf (accessed 19/10/2020)		Compliant	
DA344	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	20(b)	(b) Due credit to the client paying for the excavation on the title page,	Sighted relevant pages of the Old Marulan 2007 Archaeological Investigations - Final Report - Volume 2, available online at https://www.holcim.com.au/sites/australia/files/atoms/files/lynwod-oldmarulan2007-v2.pdf (accessed 19/10/2020)		Compliant	
DA345	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	20(c)	(c) An accurate site location and site plan,	Sighted relevant pages of the Old Marulan 2007 Archaeological Investigations - Final Report - Volume 2, available online at https://www.holcim.com.au/sites/australia/files/atoms/files/lynwod-oldmarulan2007-v2.pdf (accessed 19/10/2020)		Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA346	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	20(d)	(d) Historical research, references, and bibliography,	Sighted relevant pages of the Old Marulan 2007 Archaeological Investigations - Final Report - Volume 2, available online at https://www.holcim.com.au/sites/australia/files/atoms/files/lynwood-oldmarulan2007-v2.pdf (accessed 19/10/2020)		Compliant	
DA347	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	20(e)	(e) Detailed information on the excavation including the aim, the context for the excavation, procedures, treatment of artefacts (cleaning, conserving, sorting, cataloguing, labelling, scale photographs and/or drawings, location of repository) and analysis of the information retrieved,	Sighted relevant pages of the Old Marulan 2007 Archaeological Investigations - Final Report - Volume 2, available online at https://www.holcim.com.au/sites/australia/files/atoms/files/lynwood-oldmarulan2007-v2.pdf (accessed 19/10/2020)		Compliant	
DA348	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	20(f)	(f) Detailed response to research questions,	Sighted relevant pages of the Old Marulan 2007 Archaeological Investigations - Final Report - Volume 2, available online at https://www.holcim.com.au/sites/australia/files/atoms/files/lynwood-oldmarulan2007-v2.pdf (accessed 19/10/2020)		Compliant	
DA349	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	20(g)	(g) Nominated repository for the items,	Sighted relevant pages of the Old Marulan 2007 Archaeological Investigations - Final Report - Volume 2, available online at https://www.holcim.com.au/sites/australia/files/atoms/files/lynwood-oldmarulan2007-v2.pdf (accessed 19/10/2020)		Compliant	
DA350	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	20(h)	(h) Conclusions from the archaeological programme. This information must include a reassessment of the site's heritage significance, statement(s) on how archaeological investigations at this site have contributed to the community's understanding of the site and recommendations for the future management of the site, and	Sighted relevant pages of the Old Marulan 2007 Archaeological Investigations - Final Report - Volume 2, available online at https://www.holcim.com.au/sites/australia/files/atoms/files/lynwood-oldmarulan2007-v2.pdf (accessed 19/10/2020)		Compliant	
DA351	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	20(i)	(i) Details of how this information about this excavation has been publicly disseminated.	Sighted relevant pages of the Old Marulan 2007 Archaeological Investigations - Final Report - Volume 2, available online at https://www.holcim.com.au/sites/australia/files/atoms/files/lynwood-oldmarulan2007-v2.pdf (accessed 19/10/2020)	Final report is public ally available on the holmic website.	Compliant	
DA352	Appendix 8	APPENDIX 8: CONCEPTUAL REHABILITATION PLAN [Map figure]	APP8				Not triggered	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA353	Appendix 9	APPENDIX 9. HABITAT MANAGEMENT AREAS [Map figure]	APP9		Site interviews.	Box gum management area observed. Nest box monitoring commissioned. SLR habitat management monitoring report witnessed.	Compliant	
DA354	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Applicable Meteorological Conditions	1	The noise criteria in Table 1 apply under all meteorological conditions except the following:				
DA355	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Applicable Meteorological Conditions	1 (a)	monitoring locations for the collection of representative noise data;	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Sighted quarterly noise monitoring assessment reports from Muller Acoustic Consulting for the duration of the audit period.	AERs and Noise Monitoring Reports during the audit period demonstrate noise monitoring performed as required.	Compliant	
DA356	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Applicable Meteorological Conditions	1 (b)	wind speeds greater than 3 metres/second at 10 metres above ground level; or	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Sighted quarterly noise monitoring assessment reports from Muller Acoustic Consulting for the duration of the audit period.	AERs and Noise Monitoring Reports during the audit period demonstrate noise monitoring performed as required.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA357	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Applicable Meteorological Conditions	1 (c)	stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Sighted quarterly noise monitoring assessment reports from Muller Acoustic Consulting for the duration of the audit period.	AERs and Noise Monitoring Reports during the audit period demonstrate noise monitoring performed as required.	Compliant	
DA358	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Applicable Meteorological Conditions	1 (d)	stability category G temperature inversion conditions.	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Sighted quarterly noise monitoring assessment reports from Muller Acoustic Consulting for the duration of the audit period.	AERs and Noise Monitoring Reports during the audit period demonstrate noise monitoring performed as required.	Compliant	
DA359	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Determination of Meteorological Conditions	2	Except for wind speed at microphone height, the data to be used for determining meteorological conditions must be that recorded by the meteorological station required under condition 15A of Schedule 3.	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Sighted quarterly noise monitoring assessment reports from Muller Acoustic Consulting for the duration of the audit period.	The Quarterly Noise Monitoring reports state: <i>In the event of quarry attributed noise being above criteria, prevailing meteorological conditions for the monitoring period were sourced from the onsite meteorological station and analysed in accordance with Fact Sheet A4 of the NPI to determine the stability category present at the time of each attended measurement.</i>	Compliant	
DA360	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Compliance Monitoring	3	Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Sighted quarterly noise monitoring assessment reports from Muller Acoustic Consulting for the duration of the audit period.	AERs and Noise Monitoring Reports during the audit period demonstrate noise monitoring performed as required. Quarterly reports describe attended monitoring.	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA361	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Compliance Monitoring	4	Unless otherwise directed by the Secretary, attended quarterly monitoring is to be used to evaluate compliance with the relevant conditions of this consent.	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Sighted quarterly noise monitoring assessment reports from Muller Acoustic Consulting for the duration of the audit period.	AERs and Noise Monitoring Reports during the audit period demonstrate noise monitoring performed as required. Quarterly reports describe attended monitoring.	Compliant	
DA362	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Compliance Monitoring	4	<i>Note: The Secretary may direct that the frequency of attended monitoring increase or decrease at any time during the life of the development.</i>			Note	
DA363	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Compliance Monitoring	5	Unless otherwise agreed with the Secretary, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the INP (as amended from time to time), in particular the requirements relating to:	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Sighted quarterly noise monitoring assessment reports from Muller Acoustic Consulting for the duration of the audit period.	The Quarterly Noise Monitoring reports state: <i>The monitoring has been conducted in accordance with the Lynwood Noise Management Plan (NMP) and in general accordance with the Noise Policy for Industry (NPI), at four representative monitoring locations. This assessment has been undertaken for the period Quarter 1, March 2018, and forms part of the annual noise monitoring program to address conditions outlined in the Development Consent.</i>	Compliant	
DA364	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Compliance Monitoring	5 (a)	monitoring locations for the collection of representative noise data;	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Sighted quarterly noise monitoring assessment reports from Muller Acoustic Consulting for the duration of the audit period.	The quarterly Noise Monitoring Reports describe the locations for the collection of noise data, and they are in line with the requirements.	Compliant	
DA365	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Compliance Monitoring	5 (b)	meteorological conditions during which collection of noise data is not appropriate;	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Sighted quarterly noise monitoring assessment reports from Muller Acoustic Consulting for the duration of the audit period.	The Quarterly Noise Monitoring reports state: <i>The attended noise surveys were conducted in general accordance with the procedures described in Australian Standard AS 1055-1997, "Acoustics - Description and Measurement of Environmental Noise" and the Lynwood Quarry EPL.</i> Noise monitoring is undertaken by suitably qualified acoustic consultant	Compliant	

Unique ID	Schedule	Parameter	Condition	Condition text	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance 2020 IEA	Recommendation
DA366	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Compliance Monitoring	5 (c)	equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Sighted quarterly noise monitoring assessment reports from Muller Acoustic Consulting for the duration of the audit period.	The Quarterly Noise Monitoring reports state: <i>The attended noise surveys were conducted in general accordance with the procedures described in Australian Standard AS 1055-1997, "Acoustics - Description and Measurement of Environmental Noise" and the Lynwood Quarry EPL.</i> Noise monitoring is undertaken by suitably qualified acoustic consultant	Compliant	
DA367	Appendix 10	APPENDIX 10. NOISE COMPLIANCE ASSESSMENT - Compliance Monitoring	5 (d)	modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.	Lynwood Quarry Annual Environment Review, September 2018. Lynwood Quarry Annual Environment Review, September 2019. Sighted quarterly noise monitoring assessment reports from Muller Acoustic Consulting for the duration of the audit period.	The Quarterly Noise Monitoring reports state: <i>The attended noise surveys were conducted in general accordance with the procedures described in Australian Standard AS 1055-1997, "Acoustics - Description and Measurement of Environmental Noise" and the Lynwood Quarry EPL.</i> Noise monitoring is undertaken by suitably qualified acoustic consultant	Compliant	



APPENDIX B – STATEMENT OF COMMITMENTS COMPLIANCE REGISTER



Unique ID	Schedule	Parameter	Commitment	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
SOC1	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016)	The Environmental Assessment for Modification Application DA 128- 5-2005 MOD 4 (EA (MOD 4) in its entirety is the guiding document which provides context to the following commitments made by in relation to the Lynwood Extraction Area Modification Project. The EA (Mod 4) is to be used as the reference for interpreting how Holcim Australia will operate to implement these commitments.			Note	
SOC2	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Management Plans	The approved Lynwood Quarry Environmental Management Strategy and environmental management plans will be revised and updated as part of the implementation of the Modification Project.	<ol style="list-style-type: none"> 1. Air Quality Management Plan (October 2016) 2. Riparian Area Management Plan Lockyersleigh Creek Catchment Revision 2 (June 2011) 3. Riparian Area Management Plan Marulan Creek Catchment Area (2011) 4. Noise Management Plan (February 2020) 5. Blast Management Plan (February 2020) 6. Environmental Management Strategy (February 2020) 7. Aboriginal Heritage Management Plan, Caring for Country Final (July 2018) 8. Rehabilitation and Landscape Management Plan (May 2018) 9. Water Management Plan (2011, 2020 update pending approval) 10. Waste Management and Minimisation Strategy (2019) 11. Pollution Incident Response Management Plan (September 2019) 12. Riparian Area Management Plan Joarimin Creek Catchment (2011). 13. Box Gum Woodland Management Plan (September 2013) 14. Groundwater Monitoring Program 2011 15. Surface Water Monitoring Program (2011) <p>Evidence of Internal Review signed forms. Available for all management</p>	While not all management plans have been revised, all appear to have been reviewed. If deemed necessary they appear to have been revised following review. Some are still pending approval, however it is considered the intent of the commitment has been met through the internal review process.	Compliant	

Unique ID	Schedule	Parameter	Commitment	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
SOC3	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Noise	The design of the Modification Project incorporates the measures proposed in the 2004 Noise Impact Assessment (Heggies Australia, 2004) and 2010 modification (Umwelt, 2009a), where they are still applicable noting the proposed changes to Lynwood Quarry.	Noise Management Plan (September 2016)	Lynwood Quarry Noise Management Plan (NMP) was updated on September 2016 to incorporate Modification Project. It has since been reviewed and updated with the current version dated February 2020.	Compliant	
SOC4	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Noise	In addition to the noise management measures (outlined in Appendix 4 of the EA (MOD 4)), the following measures are proposed to be incorporated into the routine operation of the quarry over the life of the Modification Project to further minimise noise impacts:	Noise Management Plan (September 2016)	Lynwood Quarry Noise Management Plan (NMP) was updated on September 2016 to incorporate Modification Project. It has since been reviewed and updated with the current version dated February 2020.	Compliant	
SOC5	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Noise	<ul style="list-style-type: none"> The use of broad band reversing alarms instead of beeper style alarms on all mobile equipment. 	<p>Table 5 of Noise Management Plan (September 2020)</p> <p>Site observations</p>	Table 5 of Noise Management Plan (September 2020)	Compliant	
SOC6	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Noise	<ul style="list-style-type: none"> The management of mobile machines during adverse weather conditions when wind conditions or inversion conditions enhance the noise propagation towards sensitive receiver locations. This could include, but not be limited to: <ul style="list-style-type: none"> o ensuring the sales loader operates behind the product stockpile during adverse weather conditions in the evening and night time period; and/or o moving quarrying activities to locations deeper in the quarry pit during adverse weather conditions and ceasing operations in exposed areas (e.g. on the face of the overburden emplacement areas). 	<p>Table 5 of Noise Management Plan (September 2020)</p> <p>Site observations</p>	Table 5 of Noise Management Plan (September 2020)	Compliant	

Unique ID	Schedule	Parameter	Commitment	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
SOC7	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Noise	<ul style="list-style-type: none"> Regular inspection and maintenance of noise attenuation systems on quarry equipment. 	<p>Table 5 of Noise Management Plan (September 2020)</p> <p>Site observations</p>	Table 5 of Noise Management Plan (September 2020)	Compliant	
SOC8	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Noise	<ul style="list-style-type: none"> Implementation of a process for periodic review of noise performance of equipment. 	<p>Table 5 of Noise Management Plan (September 2020)</p> <p>Site observations</p>	Table 5 of Noise Management Plan (September 2020)	Compliant	
SOC9	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Blasting	Holcim Australia has an existing blast management and monitoring system in place at Lynwood Quarry which will be implemented for the Modification Project including:			Note	
SOC10	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Blasting	<ul style="list-style-type: none"> design of each blast to meet the required criteria and considering the particular needs, location, geological conditions of each blast. Appropriate blast initiation sequences will be used to minimise impacts with blast MIC limited as required to meet vibration and overpressure criteria 	<p>Blast Management Plan (November 2016)</p> <p>Blast Management Plan (February 2020) Table 8.</p>	<p>Lynwood Quarry Blast Management Plan updated on October 2016 to incorporate Modification Project. Reviewed and further updated in February 2020.</p>	Compliant	

Unique ID	Schedule	Parameter	Commitment	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
SOC11	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Blasting	<ul style="list-style-type: none"> a pre-blast review of environmental conditions (including weather conditions) to avoid blasting in conditions which may significantly increase blasting impacts or dust impacts 	<p>Blast Management Plan (November 2016)</p> <p>Blast Management Plan (February 2020) Table 8.</p>	<p>Lynwood Quarry Blast Management Plan updated on October 2016 to incorporate Modification Project.</p> <p>Reviewed and further updated in February 2020.</p>	Compliant	

Unique ID	Schedule	Parameter	Commitment	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
SOC12	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Blasting	<ul style="list-style-type: none"> blasts are typically undertaken between 10 am and 3 pm noting that blasting is permitted to be undertaken between 9 am and 5 pm Monday to Saturday 	Site Interviews Monitoring Reports InControl Incident reports	No complaint received about blasting outside of hours. No non-compliances reported regarding blasting outside of hours.	Compliant	
SOC13	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Blasting	<ul style="list-style-type: none"> a blast monitoring system is in place at Lynwood Quarry with the results of monitoring used to assess compliance and feedback into the site blast model to provide for ongoing refinement of blast design. The blast monitoring program will be updated as part of the implementation of the Modification Project 	Blast Management Plan (November 2016) Blast Management Plan (February 2020) Table 8.	Lynwood Quarry Blast Management Plan updated on October 2016 to incorporate Modification Project. Reviewed and further updated in February 2020.	Compliant	
SOC14	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Blasting	<ul style="list-style-type: none"> a blast notification process in accordance with Condition 10 of Schedule 3 of the development consent which requires Holcim Australia to notify residents of upcoming blasts, operate a blasting hotline and keep the community informed about this hotline. 	Blast Management Plan (November 2016) Blast Management Plan (February 2020) Table 8.	Lynwood Quarry Blast Management Plan updated on October 2016 to incorporate Modification Project. Reviewed and further updated in February 2020.	Compliant	

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SOC15	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Blasting	Holcim Australia will, subject to agreement of the landowner, commission a structural assessment of Lockyersleigh Homestead and the associated heritage structures to confirm the suitability of blast limits for these structures.	Previous audit identified A & R Engineering Design Pty Ltd condition report (structural integrity report) dated 22 June 2016.	Considered closed following previous finding.	Compliant	
SOC16	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Air quality	Holcim Australia will continue to implement the existing air quality management and monitoring system in place at Lynwood Quarry which includes both engineering and operations controls measures as outlined in Section 6.5.5 of the EA (MOD 4).		The 2016 plan is still the current version of the AQMP.	Compliant	
SOC17	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Air quality	The existing air quality monitoring program will be revised as operations commence in the Granite Pit with monitoring locations revised as indicated in Figure 2.5 of the Response to Submissions report. This monitoring program may be revised over the life of the Project with any changes outlined in the Air Quality Management Plan.	Air Quality Management Plan (October 2016)	The 2016 plan is still the current version of the AQMP.	Compliant	
SOC18	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Biodiversity	Holcim Australia will implement the following biodiversity controls:			Note	
SOC19	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Biodiversity	<ul style="list-style-type: none"> a robust tree felling procedure as outlined in Appendix 7 of the EA (MOD 4) will be implemented to minimise the potential for impacts on native fauna species (focusing on threatened species) as a result of the clearing of hollow-bearing trees 	Rehabilitation and Landscape Management Plan (May 2018)	Section 3.1.1. of RLMP	Compliant	

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SOC20	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Biodiversity	<ul style="list-style-type: none"> nest boxes will be established in retained vegetation in proximity to the proposed disturbance footprint to mitigate the loss of hollow bearing trees 	Rehabilitation and Landscape Management Plan (May 2018)	Section 3.8.2 of the RLMP.	Compliant	
SOC21	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Biodiversity	<ul style="list-style-type: none"> targeted weed management measures including regular weed inspections and weed control and eradication techniques such as herbicides, physical removal and prompt revegetation of bare areas will be implemented in the Modification Project Area 	Rehabilitation and Landscape Management Plan (May 2018)	Section 3.1.2. of RLMP	Compliant	
SOC22	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Biodiversity	<ul style="list-style-type: none"> targeted feral animal management measures will be implemented in accordance with Holcim Australia's existing Landscape Management Plan 	Rehabilitation and Landscape Management Plan (May 2018)	Section 3.1.2. of RLMP	Compliant	
SOC23	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Biodiversity	<ul style="list-style-type: none"> traffic control measures/speed limits/signage will be implemented on haul roads to minimise fauna injury/road kills, as much as possible. 	Site observations.	Traffic control measures observed.	Compliant	

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SOC24	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Biodiversity	Holcim Australia will deliver a Biodiversity Offset Strategy for the Modification Project in accordance with the NSW Biodiversity Offsets Policy for Major Projects.	Rehabilitation and Landscape Management Plan (September 2018) Box Gum Woodland Management Plan (September 2013)	Section 3.8.1 'Maintenance of Habitat Management Area (HMA)' of the Lynwood Quarry RLMP notes that the purpose of the HMA is to offset the loss of vegetation within the quarry footprint. Section 2.0 'Offset Description' of Lynwood Quarry - Box Gum Woodland Management Plan (September 2013) discusses the Biodiversity Offset Package and its two components - direct actions (non-land) and direct land offset (the Biodiversity Offset Area). Offset credits have been retired (see Schedule 3 Condition 48A).	Compliant	

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SOC25	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	Holcim Australia will update the Lynwood Quarry Water Management Plan. This will include an update to the Lockyersleigh Creek Riparian Area Management Plan.	With DPIE pending approval	The Water Management Plan is currently awaiting approval and contains management measures regarding Lockyersleigh Creek , however the Lockyersleigh Creek Riparian Area Management Plan has not been updated since 2011 to reflect any updates to the WMP or otherwise.	Non-Compliant	Recommendation 21: Review and update the Lockyersleigh Creek Riparian Area Management Plan.
SOC26	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	Key surface water management controls for the Modification Project will include:			Note	
SOC27	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	<ul style="list-style-type: none"> Erosion and sediment controls will set out and monitored during construction and operation in accordance with the Blue Book (Landcom, 2004 and DECC, 2008). 	<p>Water Management Plan 2011</p> <p>Water Management Plan (July 2020, pending approval)</p>	Section 4 of the WMP.	Compliant	
SOC28	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	<ul style="list-style-type: none"> Monitoring of water imported to site, water used on site and water discharged following the guidelines for Water Reporting Requirements for Mines (NSW Office of Water, undated), where applicable. 	<p>Water Management Plan 2011</p> <p>Water Management Plan (July 2020, pending approval)</p>	<p>The WMP (2011) states Holcim will monitor all water used on site, imported to site and overflows from sediment dams. The WMP (2011) does not state if this is in line with following the guidelines for Water Reporting Requirements for Mines (NSW Office of Water, undated).</p> <p>The draft revised WMP (2020) lists guideline used in Section 3.2 but does not refer to Water Reporting Requirements for Mines (NSW Office of Water, undated).</p>	Compliant	Recommendation 22: The revised WMP (2020) should state if the guidelines for Water Reporting Requirements for Mines (NSW Office of Water, undated) have been used in the WMP (2020) development.

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SOC29	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	<ul style="list-style-type: none"> The existing surface water monitoring program will be updated to include four additional sites as shown in Figure 2.2 of the Response to Submissions report. The final details of the proposed surface water monitoring program will be contained within the updated Water Management Plan. 	<p>Water Management Plan 2011</p> <p>Water Management Plan (July 2020, pending approval)</p> <p>Response to Submissions (Mod 4) page 12</p> <p>Lynwood Quarry Annual Environmental Review 2018</p> <p>Lynwood Quarry Annual Environmental Review 2019</p>	<p>The WMP has been further revised in 2020 and is still pending approval. The Surface Water Monitoring Program is appended to the revised WMP and awaiting approval.</p> <p>The previous audit found: <i>The Surface Water Monitoring Program (2018) has since been revised and is currently going through the approval process as part of the Water Management Plan 2018*. It does not include SW1 and SW2 surface water monitoring locations which were in the original Figure (Figure 2.2 of the RTS report) as these related to construction of the Hume Highway intersection is complete.</i></p> <p>The 2018 and 2019 AERs, do not provide evidence that the requirement of SOC 27 has been met during the audit period.</p>	Compliant	Recommendation 23: Close out revision to Water Management Plan and include relevant updates to surface water monitoring program.
SOC30	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	<ul style="list-style-type: none"> The water quality parameters and frequency of sampling will remain as for the existing approved operations. Flow monitoring will continue to be undertaken by visual observation of the flows during water quality sampling (flow, no-flow). 	<p>The auditor has only been provided the 2011 revision of the Surface Water Monitoring Program. The previous audit suggests the most recent revision is from 2018.</p>	<p>The auditor has only been provided the 2011 revision of the Surface Water Monitoring Program. The previous audit suggests the most recent revision is from 2018 and suggest compliance.</p> <p>The website contains only the 2011 revision of the Surface Water Monitoring Program.</p>	Compliant	Recommendation 24: The website should be updated to show most recent revision of the Surface Water Monitoring Program.

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SOC31	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Groundwater	Holcim Australia will extend the current groundwater monitoring program, which includes both groundwater level and quality, to include the new monitoring piezometers that were constructed for the Granite Pit during the exploration drilling phase. Details of these locations are provided in Appendix 9 of the EA (MOD 4). These bores will be monitored until they are progressively removed by the progression of the Granite Pit or as otherwise refined via the Water Management Plan.		The previous IEA indicates that the Groundwater Management Plan was updated in compliance with the commitment, however the updated plan has not been published on the Holcim website. The auditor was not provided the 2018 revision of the GWMP. The wider Water Management Plan (2020) has been updated and is pending approval. A groundwater Monitoring Program is appended to this.	Compliant	Recommendation 25: Update the website to contain the revised Groundwater Management Plan (2018), or 2020 once approved.
SOC32	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Social Impact and Opportunities	Holcim Australia will implement the following measures in relation to mitigating social impacts and maximising opportunities:			Note	
SOC33	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual	<ul style="list-style-type: none"> • Ongoing liaison with interested members of the Towrang community with regard to lighting and other visual impacts as appropriate. • Ongoing discussion with key residents in Marulan and surrounds. • Implementation of the visual management measures outlined later in this section. 	Site Interviews CCC Consultation Site Observations Community Open Day Held	Site interviews indicate ongoing discussion was held at the community open day. Site observations saw the ongoing progress of both the visual amenity screen and visual amenity bund . Site observations of visual management measures outlined later in this section. CCC consultation did not reveal any issues with lighting.	Compliant	
SOC34	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Land Management	<ul style="list-style-type: none"> • Where appropriate, consult with neighbouring landholders when undertaking pest and weed management activities. 	Site Interview	CCC consultation did not reveal any issues with lighting.	Compliant	
SOC35	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Population Change (infrastructure and services)	<ul style="list-style-type: none"> • Continue implementation of the community fund. 	Site Interview		Compliant	

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SOC36	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Land Use and Industry Diversity	<ul style="list-style-type: none"> Consider potential benefits to the local tourist industry when determining community contributions, in consultation with relevant community and business stakeholders as relevant throughout the life of operations. 	Site Interview		Compliant	
SOC37	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Trust and Reputation	<ul style="list-style-type: none"> Existing engagement to continue as appropriate, with a focus on respectful, honest and open communications. 	CCC Consultation	<p>CCC feedback: <i>The committee is working well and acting as an important conduit for community issues and communicating the environmental compliance for the construction and operations of the quarry. This sentiment is also held by members, who appreciate the opportunity to provide feedback to Holcim's project team and management.</i></p> <p><i>Holcim always provides the CCC with a thorough update on the quarry, including any milestones, planning updates, construction works, environmental performance, site operations and community relations activities.</i></p>	Compliant	<p>Recommendation 26:</p> <p>Last update to 'Information Updates' page online appears to be 2015. This page should be updated or merged with other pages that provide the more recent information such as Annual Reviews etc or with the 'Community Link' Lynwood Page which has the most recent update of December 2019.</p>

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SOC38	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Trust and Reputation	<ul style="list-style-type: none"> Continue to communicate regularly with nearby and interested stakeholders regarding: <ul style="list-style-type: none"> ongoing operations on site residents' experience of impacts such as dust, noise, blasting, traffic, heritage and impacts to water visual impacts, particularly with interested members of the Towrang community 	<p>CCC Consultation</p> <p>Community Open Day</p> <p>Online information available publicly (monitoring)</p>	<p>CCC feedback: <i>Following a number of enquiries lodged with the Lynwood Quarry Blasting Hotline in 2018, Holcim took the opportunity to take members through the process for enquiries regarding blasts. CCC members were also provided with Blasting Hotline information cards and advised to pass them on to any community members who raise the topic with them in their capacity as CCC members.</i></p> <p><i>Across 2019 and 2020, the CCC discussed and increase in dust levels and Holcim's response to its reduction and management. Holcim presented their Dust Management Improvement Plan, which has been incorporated into their environment protection licence. Dust exceedance was of particular concern to committee members, with a few members offering anecdotal evidence of high dust levels in the community, despite dust reducing initiatives. Holcim reiterated the importance of the community to their operation and assured that they are exploring ways of addressing social licence and improving upon minimum compliance to subsequently improve the community experience.</i></p>	Compliant	

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SOC39	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Trust and Reputation	<ul style="list-style-type: none"> Holcim Australia will periodically review the operation and membership of the CCC, in line with the 2007 Guidelines for establishing and operating Community Consultative Committees for Mining Projects, to ensure that membership is appropriate for the issues discussed and that matters discussed and minutes are distributed (for example via email) to all interested community stakeholders more widely 	CCC Consultation	<p>CCC feedback: <i>The committee is working well and acting as an important conduit for community issues and communicating the environmental compliance for the construction and operations of the quarry. This sentiment is also held by members, who appreciate the opportunity to provide feedback to Holcim's project team and management.</i></p> <p><i>Holcim always provides the CCC with a thorough update on the quarry, including any milestones, planning updates, construction works, environmental performance, site operations and community relations activities</i></p>	Compliant	
SOC40	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Trust and Reputation	<ul style="list-style-type: none"> Utilise additional communication channels such as local newsletter, updates and local blogs. 	<p>https://www.holcim.com.au/lynwood</p> <p>https://www.holcim.com.au/about-us/community-link/lynwood/our-community</p>	Online updates and Community Open day held in December 2019.	Compliant	

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SOC41	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Monitoring	<ul style="list-style-type: none"> Undertake social monitoring as outlined in Table 6.14 of the EA (MOD 4). 	Letter from the CCC Chair Brendan Blakeley dated 7 October 2020 (received during the agency consultation period)	<p>CCC feedback: Following a number of enquiries lodged with the Lynwood Quarry Blasting Hotline in 2018, Holcim took the opportunity to take members through the process for enquiries regarding blasts. CCC members were also provided with Blasting Hotline information cards and advised to pass them on to any community members who raise the topic with them in their capacity as CCC members.</p> <p>Across 2019 and 2020, the CCC discussed and increase in dust levels and Holcim's response to its reduction and management. Holcim presented their Dust Management Improvement Plan, which has been incorporated into their environment protection licence. Dust exceedance was of particular concern to committee members, with a few members offering anecdotal evidence of high dust levels in the community, despite dust reducing initiatives. Holcim reiterated the importance of the community to their operation and assured that they are exploring ways of addressing social licence and improving upon minimum compliance to subsequently improve the community experience.</p>	Compliant	
SOC42	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	The following measures will be implemented as part of the Modification Project to minimise visual impacts:			Note	
SOC43	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	<ul style="list-style-type: none"> Amenity Bund – an approximately 12 metre high amenity bund (and 14 metres in spot locations, as required) will be constructed along the western boundary of the Granite Pit Area. This bund will be constructed as part of the initial establishment phases of the Granite Pit so that it is in place for the life of the quarry operations. The outer face of the bund will be revegetated (through direct seeding or tube stock) as quickly as possible so that trees, over time, will contribute to the overall visual screening of the quarry operations. 	<p>Rehabilitation and Landscape Management Plan (May 2018).</p> <p>Site observations.</p>	Site observations demonstrated good progress of the amenity bund. Site Interviews stated that it is on course for completion in mid-2021.	Compliant	

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SOC44	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	<ul style="list-style-type: none"> Lighting – there will be no fixed lighting in the Granite Pit Area. 	<p>Rehabilitation and Landscape Management Plan (May 2018).</p> <p>Site observations.</p>	No fixed lighting was observed in the Granite pit area.	Compliant	
SOC45	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	<ul style="list-style-type: none"> Lighting – quarry operations on the surface including topsoil stripping, overburden extraction and overburden emplacement will be daytime operations only (consistent with current development consent conditions) and therefore do not have any potential to result in lighting impacts. 	<p>Rehabilitation and Landscape Management Plan (May 2018).</p> <p>InControl incident register</p>	One complaint has been recorded in InControl regarding fugitive light emissions on 20/02/2019. No details of the complaint are recorded and it is not stated to be 'closed'. It is unclear if this complaint relates to topsoil stripping.	Complaint	<p>Recommendation 27: Close out the complaint from 20/02/2019</p> <p>Recommendation: Ensure that enough detail is recorded for complaints in InControl.</p>
SOC46	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	<ul style="list-style-type: none"> Lighting – quarrying within the Granite Pit will occur in the evening period (up to 10 pm, consistent with current development consent conditions) but will be managed so that extraction activities are undertaken in areas that are not visible from the potential viewing locations to the west (i.e. on lower benches or on the western face of the quarry), with mobile lighting plant kept low and pointing down, facing away from western residences and kept to the minimum needed for operational safety. 	<p>Rehabilitation and Landscape Management Plan (May 2018).</p> <p>InControl incident register</p>	One complaint has been recorded in InControl regarding fugitive light emissions on 20/02/2019. No details of the complaint are recorded and it is not stated to be 'closed'. It is unclear if this complaint relates to evening works in the granite pit.	Complaint	
SOC47	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	<ul style="list-style-type: none"> Lighting – a bund will be constructed along the western and southern faces of the haul road from the Granite Pit to the infrastructure area. The purpose of this bund will be to seek to screen the headlights of vehicles operating on the haul during the evening period (6pm to 10pm). The bunding will be approximately 5 metres high. 	<p>Rehabilitation and Landscape Management Plan (May 2018).</p> <p>Site observations.</p>	Site observations demonstrated good progress of the amenity bund. Site Interviews stated that it is on course for completion in mid-2021.	Complaint	
SOC48	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	<ul style="list-style-type: none"> Overburden emplacement – Holcim Australia will seek to construct the outer edges of the overburden emplacement areas first, creating an approximate 5-10 metre high bund behind which overburden emplacement activities will continue. This will provide visual screening of ongoing emplacement activities and allow timely rehabilitation of the outer face of the emplacement area to minimise visual impacts (noting that once rehabilitated the emplacement areas will start to blend into the existing environment and not be as visually prominent). 	<p>Rehabilitation and Landscape Management Plan (May 2018).</p> <p>Site observations.</p>	Site observations indicate compliance.	Complaint	

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SOC49	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	<ul style="list-style-type: none"> Overburden emplacement – emplacement areas will be rehabilitated as soon as practicable after final shaping, with progressive rehabilitation to be undertaken over the life of the quarry so that the externally visible disturbed area is kept as small as practicable. Revegetation will be undertaken as discussed in Section 6.15 of the EA (MOD 4) to result in mixed grassland and woodland vegetation that will be similar in visual character to the surrounding natural landscape. 	<p>Rehabilitation and Landscape Management Plan (May 2018).</p> <p>Site observations.</p>	Final shaping has not yet occurred so re-vegetation has not commenced	Complaint	
SOC50	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	<ul style="list-style-type: none"> Overburden emplacement - the surface of the Southern Overburden Emplacement Area and the Lynwood Overburden Emplacement area will be shaped to have swales, small drainage hollows and a locally irregular landform to resemble, where practicable, the natural surrounding landform. 	<p>Site observations</p> <p>Site Interviews</p>	Rehabilitation will commence mid 2021, bunds still being constructed at time of audit.	Complaint	
SOC51	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	<ul style="list-style-type: none"> Quarry operations – the upper western facing benches of the Granite Pit (which are in overburden material) will be shaped and rehabilitated progressively as the quarry progresses. These areas will be visible from a small number of elevated properties in Towrang and so will be rehabilitated as soon as practicable to reduce visibility. 	<p>Site observations</p> <p>Site Interviews</p>	Amenity bund will mask western facing benches. Benches have been contoured in preparation for rehab.	Complaint	

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SOC52	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	<ul style="list-style-type: none"> Maintenance – Holcim Australia will maintain the amenity bund and its vegetative cover so that it remains effective for the duration of the quarry operations. 	Site Interview	Site interview with R. Maclean stated that planting will commence mid 2021 (will be performed as per Rehabilitation and Landscape Management plan.	Complaint	
SOC53	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	<i>Note: as discussed in the EA, the priority for emplacement of overburden will be 1 - construction of haul roads to allow quarrying, 2 - construction of the visual bund, 3 - construction of the outer faces of the overburden emplacement areas.</i>			Note	
SOC54	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Aboriginal Cultural Heritage	Holcim Australia will update the Aboriginal Cultural Heritage Management Plan (ACHMP) for Lynwood Quarry. Holcim Australia will implement the Aboriginal Cultural Heritage management actions detailed in Section 6.9.9 of the EA (MOD 4).	Aboriginal Heritage Management Plan, Caring for Country Final (July 2018) Evidence of record of internal review sighted		Complaint	
SOC55	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Historic Heritage	The historic heritage management measures to be implemented for the Modification Project are as follows:			Note	
SOC56	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Historic Heritage	<ul style="list-style-type: none"> Blasting is to be designed so that vibration does not exceed 5 mm/s at the Lockyersleigh Homestead and outbuildings with blasts monitored to confirm compliance. 	Blast Management Plan (February 2020).	Blast monitor B5 is located at Lockyersleigh Homestead (BMP 2020, Figure 1).	Compliant	
SOC57	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Historic Heritage	<ul style="list-style-type: none"> Subject to agreement of the landowner, an inspection will be undertaken to confirm the structural integrity of Lockyersleigh Homestead and associated outbuildings to confirm that a maximum ground vibration limit with a peak particle velocity of 5 mm/s is appropriate. 	Previous audit sighted: A & R Engineering Design Pty Ltd condition report (structural integrity report) dated 22 June 2016.	Considered closed from previous audit	Compliant	

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SOC58	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Historic Heritage	<ul style="list-style-type: none"> In the unlikely event that unexpected archaeological remains or potential heritage items not identified as part of this report are discovered during the Modification Project, all works in the immediate area will cease. The remains and potential impacts will be assessed by a qualified archaeologist or heritage consultant and, if necessary, the Heritage Branch, OEH notified in accordance with Section 146 of the Heritage Act 1977. 			Not triggered	
SOC59	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Historic Heritage	<ul style="list-style-type: none"> If potential human remains are located following any surface disturbance, all works will halt in the immediate area to prevent any further impacts to the remains. The NSW Police will be contacted immediately. 			Not triggered	
SOC60	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Gas Pipeline Hazards	The key technical control measures to be implemented as part of the Modification Project include:			Note	
SOC61	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Gas Pipeline Hazards	<ul style="list-style-type: none"> pipelines will be designed in accordance with relevant standards 	No evidence provided.	The auditor has not been provided a copy of any specifications of the pipelines. It is assumed that this would be covered by construction certificates which are up to date. Considered closed by compliance in previous audit.	Compliant	Recommendation 28: Ensure pipelines are designed in accordance with relevant standards.

Unique ID	Schedule	Parameter	Commitment	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
SOC62	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Gas Pipeline Hazards	<ul style="list-style-type: none"> geotechnical assessment will be undertaken to determine soil stability at pipeline crossing location prior to construction activities 	Previous audit sighted: Authorised third party works request form signed and dated 17 May 2017.	Considered closed from previous audit	Compliant	
SOC63	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Gas Pipeline Hazards	<ul style="list-style-type: none"> civil design of the haul road/pipeline crossing will be undertaken so that the installed road meets load bearing capacity requirements and relevant standards 	<p>No evidence provided. Previous audit sighted:</p> <p>Lynwood Quarry Extraction Area Modification - Specification - Utility Services Protection (10 May 2017) Lynwood Easement Protection: Construction Methodology</p>	Considered closed from previous audit	Compliant	
SOC64	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Gas Pipeline Hazards	<ul style="list-style-type: none"> use of appropriate equipment to minimise the impact on the pipes in the event of contact 	<p>No evidence provided. Previous audit sighted:</p> <p>Lynwood Quarry Extraction Area Modification - Specification - Utility Services Protection (10 May 2017) Lynwood Easement Protection: Construction Methodology</p>	Considered closed from previous audit	Compliant	

Unique ID	Schedule	Parameter	Commitment	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
SOC65	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Gas Pipeline Hazards	<ul style="list-style-type: none"> • use of process and design controls including limited excavation depths, buffer distances and designated crossings to limit potential for contact with or overstress of the pipes during haul road construction. 	<p>No evidence provided. Previous audit sighted:</p> <p>Lynwood Quarry Extraction Area Modification - Specification - Utility Services Protection (10 May 2017) Lynwood Easement Protection: Construction Methodology</p>	Considered closed from previous audit	Compliant	
SOC66	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Gas Pipeline Hazards	<p>The key non-technical safeguards and procedures to be implemented as part of the Modification Project for works in the vicinity of the gas pipeline will include:</p> <ul style="list-style-type: none"> • assessment of process designs, site layout and design changes • procedural control including APA Group's Daily Permit System, site inductions and other procedures • operating procedures, including awareness and training • cessation of operations in adverse weather conditions and where practical covering of exposed pipelines • implementation of site speed limit, driver training, route selection and physical barriers where appropriate • provision of physical controls including fencing of site during construction • limiting access to authorised personnel only and implementation of security patrol if necessary • appropriate training and supervision of operations • provision of ongoing maintenance and operation procedures. 	<p>No evidence provided. Previous audit sighted:</p> <p>Lynwood Quarry Extraction Area Modification - Specification - Utility Services Protection (10 May 2017) Lynwood Easement Protection: Construction Methodology</p>	Considered closed from previous audit	Compliant	
SOC67	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Greenhouse Gas and Energy	<p>As part of the Modification Project Holcim Australia will review opportunities for reducing energy consumption on an ongoing basis during the detailed design process and once the operation has commenced including:</p> <ul style="list-style-type: none"> • setting energy use and greenhouse emission reduction targets • using energy monitoring and auditing as a management tool • providing training on energy management to site personnel • monitoring the fuel efficiency of diesel equipment • considering the energy efficiency of new equipment when making purchasing decisions • using high efficiency electric motors. 	Site Interviews	<p>There are a number of energy-saving programs on site including automatic lights.</p> <p>Holcim reports to the Department of the Environment and Energy - National Pollution Inventory (NPI) with a list of all emissions leaving the site.</p>	Compliant	

Unique ID	Schedule	Parameter	Commitment	Evidence - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
SOC68	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Rehabilitation	The key elements of the rehabilitation strategy for the Modification Project will include: <ul style="list-style-type: none"> the timely and progressive rehabilitation of disturbed areas 	Rehabilitation and Landscape Management Plan (May 2018) Site observations.	Rehab has commenced on a small scale where possible but significant rehabilitation has not yet occurred due to the ongoing establishment of the pit and other disturbed areas.	Compliant	
SOC69	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Rehabilitation	<ul style="list-style-type: none"> the surface of the Southern Overburden Emplacement Area and the Lynwood Overburden Emplacement area will be shaped to have swales, small drainage hollows and a generally irregular landform to resemble the natural surrounding landform 	Rehabilitation and Landscape Management Plan (May 2018) Site observations.	Area still under construction	Compliant	
SOC70	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Rehabilitation	<ul style="list-style-type: none"> stripped topsoil will be placed in stockpiles in depths of up to approximately three metres and will seeded with a cover crop if they are to remain in place for longer than approximately six months 	Rehabilitation and Landscape Management Plan (May 2018) Site observations.	Site observations indicated compliance at early stages of rehabilitation.	Compliant	
SOC71	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Rehabilitation	<ul style="list-style-type: none"> shaped areas will be covered with topsoil where practicable 	Rehabilitation and Landscape Management Plan (May 2018) Site observations.	Site observations indicated compliance at early stages of rehabilitation.	Compliant	
SOC72	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Rehabilitation	<ul style="list-style-type: none"> areas where topsoil has been replaced will be seeded with a native species and cover crop mix with intent of achieving mixed grassland and woodland native vegetation communities 	Rehabilitation and Landscape Management Plan (May 2018) Site observations.	Site observations indicated compliance at early stages of rehabilitation.	Compliant	

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SOC73	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Rehabilitation	<ul style="list-style-type: none"> selected surface habitat features consisting of large rocks, logs and trees from clearing undertaken in the Modification Project Area will also be placed across the rehabilitated area, where practicable 	Site Observations	Stockpiles of habitat features observed to be used once rehabilitation occurs more significantly.	Compliant	
SOC74	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Rehabilitation	<ul style="list-style-type: none"> upon closure of the quarry, unless an alternative use of the quarry infrastructure is identified, the infrastructure will be removed and the areas containing the surface infrastructure will be recontoured. The reshaped areas will then be seeded with a native species and cover crop mix with the intent of achieving mixed grassland and woodland native vegetation communities 	Rehabilitation and Landscape Management Plan (May 2018)	Quarry not yet begun closure process.	Not triggered	
SOC75	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Rehabilitation	<ul style="list-style-type: none"> upon closure of the quarry, the haul roads would also be removed and water management controls either removed or modified to assist in stabilisation of the final landform and to capture any sediment runoff from the rehabilitated areas. 	Rehabilitation and Landscape Management Plan (May 2018)	Quarry not yet begun closure process.	Not triggered	



APPENDIX C – ENVIRONMENTAL PROTECTION LICENCE COMPLIANCE REGISTER



Unique ID	Section	Conditions	Evidence verified - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
	1	Administrative conditions				
	A1	What the licence authorises and regulates				
EPL1	A1.1	This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation. Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition. Scheduled activity/ fee based activity - crushing grinding or separating >2 000 000 T annual processing capacity Scheduled activity/ fee based activity - extractive activities - > 2 000 000 T annual capacity to extract, process or store	Lynwood Quarry Annual Review 2018 Lynwood Quarry Annual Review 2019		Compliant	
	A2	Premises to which the licence applies				
EPL3	A2.1	The Licence applies to the following premises: Premises Details Lynwood Quarry 278 Stoney Creek Road MARULAN NSW 2579 LOT 10 DP 700579, LOT 112 DP 750029, LOT 230 DP 750029, LOT 294 DP750029, LOT 7001 DP 1025603, LOT 3 DP 1036993, LOT 4 DP 1036993, LOT 1 DP 1074107, LOT 3 DP 1074107, LOT 1 DP 1074819, LOT 2 DP 1107232, LOT 1 DP 1116876, LOT 2 DP 1116876, LOT 1 DP 1117910, LOT 1 DP 1140546 ALSO AS SHOWN IN THE DOCUMENT TITLED "FIGURE 1, REVISED MONITORING LOCATIONS", RECEIVED BY EPA 8 NOVEMBER 2016 AND HELD AS DOC16/565661.			Note	
	A3	Information supplied to the EPA				
EPL4	A3.1	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.	Site Observations		Compliant	
		In this condition the reference to "the licence application" includes a reference to:				
EPL5		(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			Note	
EPL6		(b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.			Note	
	2	Discharges to air and water applications to land				
	P1	Location of monitoring/discharge points and areas				

Unique ID	Section	Conditions	Evidence verified - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
EPL7	P1.1	The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point. [followed by a table titled <i>Air</i> with EPA identification no. type of monitoring options (dust monitoring) and location descriptions]	Lynwood Quarry Annual Review 2018 Lynwood Quarry Annual Review 2019 Environmental Monitoring Records Sighted Lynwood Air Quality Management Plan (2016)		Compliant	
	3	Limit conditions				
	L1	Pollution of waters				
EPL8	L.1.1	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.	InControl Incident Reports	Minor spill incidents reported and recorded in InControl. The largest reported is a 200L Diesel Spill at the Train Load Out. All spills contained and remained on site.	Compliant	
	L2	Waste				
EPL9	L2.1	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.	Site Observations Site Interviews	No evidence sighted of breach. Waste separation containers sighted for recycling. Site interview suggested a new waste management contractor is to be engaged.	Compliant	
EPL10	L2.2	This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if it requires an environment protection licence.			Note	
	L3	Noise limits				
EPL11	L3.1	Noise generated at the premises must not exceed the noise limits presented in the table below: [followed by a table providing noise assessment criteria for day, evening and night periods]	Lynwood Quarry Annual Review 2018 Lynwood Quarry Annual Review 2019 Quarterly noise Monitoring Reports.	No noise exceedances are reported during the audit period.	Compliant	
EPL12		Note: The above locations refer to the respective noise assessment locations as indicated in the document titled "Figure 1 Revised Monitoring Locations", received by EPA 8 November 2016 (DOC16/565661).			Note	

Unique ID	Section	Conditions	Evidence verified - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
EPL13	L3.2	Noise from the development is to be measured at the most affected point within the residential boundary, or at the most affected point within 30 meters of a dwelling where the dwelling is more than 30 metres from the boundary, to determine compliance with the LAeq (15 minute) noise limits in condition L3.1. Noise from the development is to be measured at 1m from the dwelling façade to determine compliance with the LA1 (1 minute) in the above table. The noise emission limits identified in condition L3.1 apply under meteorological conditions of: <ul style="list-style-type: none"> • Wind speed up to 3m/s at 10m above ground level; or • Temperature inversion conditions of up to 3° C/100m and wind speed up to 2 m/s at 10m above ground level. 	Lynwood Quarry, Noise Management Plan (February 2020) Section 3.		Compliant	
	L4	Blasting				
EPL14	L4.1	The overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Lynwood Quarry Annual Review 2018 Lynwood Quarry Annual Review 2019 Quarterly noise Monitoring Reports.	No noise exceedances are reported during the audit period.	Compliant	
EPL15	L4.2	The overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Lynwood Quarry Annual Review 2018 Lynwood Quarry Annual Review 2019 Quarterly noise Monitoring Reports.		Compliant	
EPL16	L4.3	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Lynwood Quarry Annual Review 2018 Lynwood Quarry Annual Review 2019 Quarterly noise Monitoring Reports.		Compliant	
EPL17	L4.4	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Lynwood Quarry Annual Review 2018 Lynwood Quarry Annual Review 2019 Quarterly noise Monitoring Reports.		Compliant	
	L4.5	To determine compliance with condition(s) L4.1 and L4.2:				

Unique ID	Section	Conditions	Evidence verified - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
EPL18		a) When blasting is undertaken outside of the Granite Pit, airblast overpressure and ground vibration levels must be measured and electronically recorded at blast monitoring locations marked B1, B2 and B3 in Figure 1, Revised Monitoring Locations, received by EPA 8 November 2016 (DOC16/565661).	Blast Management Plan (February 2020) Sighted Blast monitoring reports.		Compliant	
EPL19		b) When blasting is undertaken within the Granite Pit, airblast overpressure and ground vibration levels must be measured and electronically recorded at blast monitoring locations marked B4, B5 and B6 in Figure 1, Revised Monitoring Locations, received by EPA 8 November 2016 (DOC16/565661).	Blast Management Plan (February 2020)	Section 8.3 monitoring locations of the BMP (dated February 2020) states that Blast locations for the granite pit are 4 - 6 (Table 10) and are shown in Figure 1. Blast data for these locations, which includes ground vibration and air overpressure is recorded in AERs.	Compliant	
EPL20		c) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard AS 2187.2-2006.	Blast Management Plan (February 2020)	Section 8.2 states "Instrumentation will meet Australian Standards and the specifications in Table 9.	Compliant	
EPL21		Note: A breach of the licence will still occur where airblast overpressure or ground vibration levels from the blasting operations at the premises exceeds the limit specified in conditions L4.1 to L4.4 at any "noise sensitive locations" other than the locations identified in the above condition.			Note	
	L5	Hours of operation				
	L5.1	The Applicant shall comply with the operating hours in the below table.			Note	
EPL22		Construction works Monday-Friday: 7am to 6pm Saturday: 8am to 1pm Sunday and Public Holidays: None Topsoil/overburden removal/emplacment Any day: 7am to 6pm Blasting Monday-Saturday: 9am to 5pm Sundays and Public Holidays: None Extraction Any day: 7am to 10pm Processing, (crushing, screening, stockpiling); loading, delivery, and distribution; maintenance Any day: Anytime	Lynwood Quarry Annual Review 2018 Lynwood Quarry Annual Review 2019	AERs state compliance with operating hours for each category listed (Section 4.2.1 of both reports during audit period)	Compliant	
EPL23		Note: The above table only relates to construction works that are audible at any residential receivers on privately owned land. Construction works that are inaudible at any residential receiver may be carried out at any time.			Note	
	4	Operating conditions				
	O1	Activities must be carried out in a competent manner				

Unique ID	Section	Conditions	Evidence verified - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
EPL24	O1.1	Licensed activities must be carried out in a competent manner. This includes: (a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and (b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Site Observations Site Interviews		Compliant	
	O2	Maintenance of plant and equipment				
EPL25	O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: (a) must be maintained in a proper and efficient condition; and (b) must be operated in a proper and efficient manner.	Sighted Operation of Equipment Maintenance records (OEMs). Site observations.		Compliant	
	5	Monitoring and recording conditions				
	M1	Monitoring records				
EPL26	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.	Sighted all monitoring records for the audit period.		Compliant	
EPL27	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.	Sighted all monitoring records for the audit period. They are stored digitally in excel format.	Pollution monitoring results for the required period are available at: https://www.holcim.com.au/sustainability/environment/pollution-monitoring-data (accessed 23/10/2020)	Compliant	
EPL28	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.	Sighted all monitoring records for the audit period. They are stored digitally in excel format with the required information.		Compliant	
	M2	Requirement to monitor concentration of pollutants				
EPL29	M2.1	For each monitoring/discharge point or utilisation area specified below (by appoint 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.	Lynwood Quarry Annual Review 2018 Lynwood Quarry Annual Review 2019 Pollution monitoring records	Pollution monitoring results for the required period are available at: https://www.holcim.com.au/sustainability/environment/pollution-monitoring-data (accessed 23/10/2020)	Compliant	

Unique ID	Section	Conditions	Evidence verified - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
EPL30	M2.2	Air Monitoring Requirements [table summarising points and then pollutants to be measured, units of measure, frequency and sampling method]	Lynwood Quarry Annual Review 2018 Lynwood Quarry Annual Review 2019 Pollution monitoring records Air Quality Management Plan (October 2016)		Compliant	
EPL31		Note: For the purposes of the table(s) above Special Frequency 1 means the collection of samples over a 24 hour period, every 6 days.			Note	
	M3	Testing Methods - concentration limits				
EPL32	M3.1	Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with: a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place. <i>Note: The Protection of the Environment Operations (Clean Air) Regulation 2010 requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".</i>	Lynwood Air Quality Management Plan (October 2016)	AQMP included consultation with the EPA.	Compliant	
	M4	Recording of pollution complaints				

Unique ID	Section	Conditions	Evidence verified - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
EPL33	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.	Sighted InControl Incident Register for the duration of the audit period.		Compliant	
EPL34	M4.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	Sighted InControl Incident Register for the duration of the audit period.	The 'summarised event report listing' provided to the auditor as evidence does not include: <i>e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and</i> <i>f) if no action was taken by the licensee, the reasons why no action was taken.</i>	Non-Compliant	Recommendation 29: For each incident recorded, include the actions taken, or if no action taken state why not.
EPL35	M4.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Incidents (complaints) are stored digitally.		Compliant	
EPL36	M4.4	The record must be produced to any authorised officer of the EPA who asks to see them.			Note	
	M5	Telephone complaints line				
EPL37	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.			Note	
EPL38	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.	Environmental or community enquiries phone number is featured on Holcim's website: http://www.holcim.com.au/about-us/community-link/Lynwood/contact-details (viewed 23/10/20)	The number is listed under 'Environmental or Community Enquiries' rather than specifically 'Complaints'. However this is considered adequate.	Compliant	Recommendation 30: State clearly on the webpage that this number should be used if a community member has a complaint
EPL39	M5.3	The preceding two conditions do not apply until 3 months after: a) the date of the issue of this licence			Note	
	6	Reporting Conditions				
	R1	Annual Return Documents				

Unique ID	Section	Conditions	Evidence verified - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
EPL40	R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: 1. a Statement of Compliance, 2. a Monitoring and Complaints Summary, 3. a Statement of Compliance - Licence Conditions, 4. a Statement of Compliance - Load based Fee, 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan, 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and 7. a Statement of Compliance - Environmental Management Systems and Practices. At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&id=12939&option=licence&searchrange=general&range=POEO%20licence&prp=no&status=Issued	Annual returns for each complete year of audit period available on EPA website.	Compliant	
EPL41	R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&id=12939&option=licence&searchrange=general&range=POEO%20licence&prp=no&status=Issued	Annual returns for each complete year of audit period available on EPA website.	Compliant	
EPL42	R1.3	Where this licence is transferred from the licensee to a new licensee: a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.		Licence not transferred.	Not triggered	
EPL43	R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on: (a) in relation to the surrender of a licence- the date when notice in writing of approval of the surrender is given; or (b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.		Licence not surrendered.	Not triggered	
EPL44	R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&id=12939&option=licence&searchrange=general&range=POEO%20licence&prp=no&status=Issued	EPA records demonstrate all returns required within the audit period were received within 60 days.	Compliant	

Unique ID	Section	Conditions	Evidence verified - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
EPL45	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.	Hard copy available and sighted on site. Copy also stored electronically.		Compliant	
EPL46	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.	Site observations.		Compliant	
EPL47	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.			Note	
EPL48		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.			Note	
EPL49		Note: An application to transfer a licence must be made in the approved form for this purpose.			Note	
	R2	Notification of environmental harm				
EPL50	R2.1	Notifications must be made by telephoning the Environment Line service on 131 555			Note	
EPL51	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.	Consultation with EPA for purpose of audit.	No issues were raised by EPA as part of consultation for this audit	Compliant	
EPL52		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.			Note	
	R3	Written report				
EPL53	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.	Consultation with EPA for purpose of audit.	No issues were raised by EPA as part of consultation for this audit	Compliant	
EPL54	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.			Note	

Unique ID	Section	Conditions	Evidence verified - 2020 IEA	Comments and recommendations - 2020 IEA	Compliance - 2020 IEA	Recommendation
EPL55	R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.			Note	
EPL56	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.			Note	
	7	General conditions				
	G1	Copy of licence kept at the premises				
EPL57	G1.1	A copy of this licence must be kept at the premises to which the licence applies.	Site observations.	Sighted hard copy of licence on site. Electronic copy also available on Holcim system.	Compliant	
EPL58	G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.			Note	



APPENDIX D – AGENCY CONSULTATION LETTER



23 September 2020

File Ref: Lynwood IEA Agency Consultation Letter.docx

Document Ref: NCAP52456

Attention: Sir / Madam

Delivered by email

Subject: Lynwood Quarry Independent Environmental Audit 2020.

Kleinfelder Australia Pty Ltd (Kleinfelder) have been engaged by Holcim Australia Pty Ltd, and the proposed auditor approved by the NSW Department of Planning, Industry and Environment (DPIE), to undertake an Independent Environmental Audit (IEA) of the Lynwood Quarry located at Marulan in the Southern Tablelands region of NSW.

The IEA is required under Schedule 5 Condition 11 of the development approval (DA) 128-5-2005 (21 December 2005) which states:

By 30 September 2017, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:

(a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;

(b) include consultation with the relevant agencies and the CCC;

(c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL and/or Water Licence (including any assessment, plan or program required under these approvals);

(d) review the adequacy of any approved strategy, plan or program required under the approvals;

(e) recommend measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under these approvals; and

(f) be conducted and reported to the satisfaction of the Secretary.

This letter serves to satisfy item (b) above. Relevant agencies are considered to be:

- NSW Department of Planning, Industry and Environment (DPIE):
 - Water;
 - Crown Lands;
 - Resources and Energy;

- Heritage;
- NSW Department of Primary Industries (Fisheries);
- NSW Environment Protection Authority (EPA);
- NSW Roads and Maritime Services (RMS);
- WaterNSW;
- Goulburn Mulwaree Council;
- Community Consultative Committee.

Kleinfelder seek your comment on:

- the involvement that your agency has had with the quarry since the last audit on 9 January 2018;
- the compliance of the quarry with conditions relevant to your agency; and
- any general comments you have on the quarry's general environmental performance.

We would appreciate any written comments by **Wednesday 7 October 2020**. Should you have any questions, please do not hesitate to contact me.

Sincerely,

Kleinfelder Australia Pty Ltd



Rob Townsend

Senior Advisor

Environmental Management

rtownsend@kleinfelder.com

Mobile: 0408 829 936



APPENDIX E – AGENCY CONSULTATION RESPONSES



Rob Townsend

From: Georgia Dragicevic <Georgia.Dragicevic@planning.nsw.gov.au>
Sent: Friday, 25 September 2020 10:19 AM
To: Rob Townsend
Subject: RE: Holcim Lynwood Quarry IEA

External Email.

Hi Robert,

For enforcement actions against the site (penalties, official cautions, orders, but excluding warning letters), please refer to our compliance webpage @

<https://www.planning.nsw.gov.au/Assess-and-Regulate/About-compliance/Inspections-and-enforcements>

In terms of any specific aspects, we would like you to pay special attention to air, water and rehabilitation.

Should you have any questions, please call me on 4247 1852.

Kind Regards,
Georgia

From: Rob Townsend <RTownsend@Kleinfelder.com>
Sent: Thursday, 24 September 2020 9:28 AM
To: Georgia Dragicevic <Georgia.Dragicevic@planning.nsw.gov.au>
Subject: Holcim Lynwood Quarry IEA

Hi Georgia,

Kleinfelder have been engaged by Holcim Australia Pty Ltd to organise an Independent Environmental Audit of their Lynwood quarry.

Please find attached a letter seeking your comment on:

- the involvement that your agency has had with the quarry since the last audit on 9 January 2018;
- the compliance of the quarry with conditions relevant to your agency; and
- any general comments you have on the quarry's general environmental performance.

We would appreciate any written comments by 7 October 2020.

Please feel free to contact me via the details below.

Regards,

Rob Townsend
Senior Environmental Advisor

95 Mitchell Road, Cardiff NSW 2285
t|: +61 2 4949 5243
m|: 0408 829 936





DOC20/847609
Date: 16 October 2020

Mr Rob Townsend
Kleinfelder Australia Pty Ltd
95 Mitchell Road
CARDIFF NSW 2285

Email: rtownsend@kleinfelder.com

Dear Mr Townsend

**RE: Lynwood Quarry, Marulan – Environment Protection Licence 12939
Independent Environmental Audit 2020**

I refer to your email of 24 September 2020 to the NSW Environment Protection Authority (EPA) requesting advice on any issues of concern or other matters which the EPA would like included or addressed as part of an independent environmental audit of Lynwood Quarry (the quarry). The EPA has responsibility for regulating activities at the quarry through Environment Protection Licence 12939 (the EPL).

The EPA understands that you have been engaged to conduct the audit of Lynwood Quarry under Schedule 5 Condition 11 of the development approval (DA) 128-5-2005. You indicated that the purpose of this consultation is to seek the EPA's comment in relation to:

- the involvement that the EPA has had with the quarry since the last audit on 9 January 2018;
- the compliance of the quarry with conditions relevant to the EPA (the EPL); and
- any general comments on the quarry's general environmental performance.

The EPA has had considerable interaction with Holcim and the Lynwood Quarry since the previous audit. The primary reason for the increased interaction were dust complaints which began in July 2019 and continued through the first half of 2020. The quarry also advised the EPA in early 2020 of non-compliances with dust monitoring requirements, for which the EPA issued a Formal Warning. Further detail on these matters is provided below.

Complaints

From 9 January 2018 to the date of this letter, the EPA received 35 complaints relating to dust impacts, which alleged Lynwood Quarry as being the suspect. The EPA did not receive complaints relating to any other media (e.g.: noise, water, etc.).

In summary, the dust complaints alleged that dust from operations at Lynwood Quarry were affecting the amenity and potentially the health of residents of the Marulan township. In response to these complaints, the EPA negotiated a Pollution Reduction Program (PRP) for the quarry with Holcim, with a focus on reducing dust emissions from the quarry and implementing management practices which would result in the licensee proactively and reactively responding to dust emissions on windy

Phone 131 555
Phone 02 6229 7002

TTY 133 677, then
ask for 131 155

PO Box 622
QUEANBEYAN
NSW 2620

Level 3
11 Farrer Place
QUEANBEYAN NSW
2620 AUSTRALIA

Queanbeyan@epa.nsw.gov.au
www.epa.nsw.gov.au
ABN 43 692 285 758

days. The PRP was incorporated into the EPL on 16 September 2019, with the actions required under the PRP completed by 3 July 2020.

Formal Warning

On 13 December 2019, Holcim advised the EPA that they had failed to properly undertake air quality monitoring (PM₁₀ and dust deposition) at the quarry on a number of occasions during late 2018 and variously throughout 2019. Following this notification, the EPA issued a Formal Warning to Holcim on 12 February 2020 for the breach of EPL conditions relating to air quality monitoring.

Non-compliances

During the summer of 2019/20, Holcim provided the EPA with regular communication on occasions where PM₁₀ dust limits were exceeded at the quarry. The primary cause of these compliances were particulate impacts from widespread dust storms and state-wide bushfires. These non-compliances were formalised in correspondence to the EPA on 15 June 2020. The EPA wrote to Holcim on 7 August 2020 regarding these non-compliances and others, noting that no regulatory action would be taken given the nature of the non-compliances, the actions already taken and the prior notification of the exceedences.

General comments

As noted above, the PRP which was incorporated into the EPL in September 2019 has seen a notably positive improvement in the control of dust at the premises, and by extension, a decrease in dust impacts on the Marulan community. Discussions with Holcim prior to the PRP were constructive, with Holcim recognising and embracing that further proactive work was required to minimise dust impacts on the local community. Holcim maintained regular communication with the EPA throughout the PRP timeframe and continues to do so to ensure the positive outcomes do not end with the completion of the PRP.

If you have any queries or wish to discuss this matter further, please contact Michael Heinze on 6229 7002 or queanbeyan@epa.nsw.gov.au.

Yours sincerely



JANINE GOODWIN
UNIT HEAD – Regional South
Regulatory Operations



Our ref: DOC20/805269-2
Senders ref: NCAP52456

Rob Townsend
Senior Advisor
Environmental Management
Kleinfelder Australia Pty Ltd
By email: rtownsend@kleinfelder.com

Dear Mr Townsend

Lynwood Quarry Independent Environmental Audit 2020

Thank you for consulting Heritage NSW as part of this environmental audit. I provide the following information and comments against the matters you have requested:

Involvement that your agency has had with the quarry since the last audit on 9 January 2018

We continue to receive ongoing notifications and consultation on salvage requirements and management measures for the Aboriginal Heritage Impact Permit (AHIP), associated variations and the Aboriginal Heritage Management Plan for the Lynwood Quarry.

Compliance of the quarry with conditions relevant to your agency

From 2018 to 2020 we received reporting provided in compliance with AHIP #1100264 and variation #C0002777. This included copies of the Annual Report, Annual Aboriginal Site Monitoring Report and Triennial Site Monitoring Report.

General comments on the quarry's general environmental performance

Heritage NSW has not undertaken or been involved in any recent site inspections for the Lynwood Quarry. We would recommend any audit consider whether the Aboriginal Heritage Management Plan continues to address and effectively implement the management measures required under condition 35 of DA 128-5-2005.

Please note: on 1st July the Aboriginal cultural heritage regulation functions under the *National Parks and Wildlife Act 1974* were transferred from the Department of Planning, Industry and Environment into Heritage NSW in the Department of Premier and Cabinet.

If you have any questions regarding the above, please contact me on (02) 6229 7089 or by email: jackie.taylor@environment.nsw.gov.au.

Yours sincerely

Jackie Taylor
Senior Team Leader, Aboriginal Cultural Heritage Regulation Branch - South
Heritage NSW
19 October 2020

Rob Townsend

From: Scott Martin <Scott.Martin@goulburn.nsw.gov.au>
Sent: Wednesday, 7 October 2020 3:14 PM
To: Rob Townsend
Cc: Michelle Hughes
Subject: RE: Holcim Lynwood Quarry IEA

External Email.


Good Afternoon Rob

I'm pleased to advise that Council currently do not have any concerns in relation to the Quarry operations at Lynwood. I do note that between approximately November 2019 and January 2020 Council received numerous complaints from Marulan residents in relation to dust emissions and fallout from the Quarry. It is noted however, that these complaints were forwarded to the EPA as the appropriate regulatory authority. I believe that the drought conditions at the time coupled with a general shortage of water availability and unseasonable winds were the primary causes of the dust and thankfully since February 2020 there have been no further complaints.

Please let me know if you require any further information.

Kind regards
Scott

Scott Martin
Director Planning & Environment

P: 02 4823 4480 | **F:** 02 4822 7999
Goulburn Mulwaree Council | Locked Bag 22 Goulburn NSW 2580
W: www.goulburn.nsw.gov.au |  [Find us on Facebook](#)

Our Vision & Values - *One team delivering with* **P**assion **R**espect **I**nnovation **D**edication **E**xcellence
Our Mission - *To be easy to do business with*

GOULBURN
GOULBURN
Australia



 Please consider the environment before printing this email

From: Rob Townsend [mailto:RTownsend@Kleinfelder.com]
Sent: Wednesday, 23 September 2020 4:36 PM
To: Louise.Wakefield@goulburn.nsw.gov.au
Cc: Council <Council@goulburn.nsw.gov.au>
Subject: Holcim Lynwood Quarry IEA

Hi Louise,

Kleinfelder have been engaged by Holcim Australia Pty Ltd to undertake an Independent Environmental Audit of their Lynwood quarry.

Please find attached a letter seeking your comment on:

- the involvement that your agency has had with the quarry since the last audit on 9 January 2018;
- the compliance of the quarry with conditions relevant to your agency; and
- any general comments you have on the quarry's general environmental performance.

We would appreciate any written comments by 7 October 2020.

Please feel free to contact me via the details below.

Regards,

Rob Townsend

Senior Environmental Advisor

95 Mitchell Road, Cardiff NSW 2285

t | : +61 2 4949 5243

m | : 0408 829 936



7 October 2020

Rob Townsend
Senior Environmental Advisor
Kleinfelder
ptowler@emmconsulting.com.au



Dear Mr Townsend

Lynwood Quarry Independent Environmental Audit

As Independent Chair, it is my pleasure to provide the following overview of the Lynwood Quarry Community Consultative Committee (CCC) and general comments on the quarry's general environmental performance.

The CCC runs according to the original conditions of approval. However, our practices are aligned with the Department of Planning and Environment's CCC Guidelines.

Overview of the Lynwood Quarry CCC

Established: June 2011

Total meetings: 23 (including one extraordinary meeting)

Independent Chair: Brendan Blakeley, Elton Consulting

Meetings: The group meets on-site at Lynwood Quarry, twice a year. The meetings typically occur on the last Friday in April and October, 12pm – 1.15pm. The following table outlines meetings since the last audit in January 2018, including date and number of attendees. Meeting notes can be found on the [Holcim Lynwood Quarry website](#).

Meeting number	Date	Number of CCC members in attendance
19	27 April 2018	6 out of 7
20	26 October 2018	4 out of 7
21	26 April 2019	5 out of 7
22	25 October 2019	6 out of 7, plus a site neighbour
23	24 July 2020 (rescheduled because of COVID-19)	4 out of 8 (site neighbour became a member after attending meeting #22)

General comments

The committee is working well and acting as an important conduit for community issues and communicating the environmental compliance for the construction and operations of the quarry. This sentiment is also held by members, who appreciate the opportunity to provide feedback to Holcim's project team and management.

Holcim always provides the CCC with a thorough update on the quarry, including any milestones, planning updates, construction works, environmental performance, site operations and community relations activities.



Enquiries from the community

If of note, Holcim addresses enquiries lodged by the community at CCC meetings. This is with the aim of ensuring CCC members are well-equipped to advise the broader community on how to lodge enquiries, and understand the processes Holcim undertakes to address them.

Following a number of enquiries lodged with the Lynwood Quarry Blasting Hotline in 2018, Holcim took the opportunity to take members through the process for enquiries regarding blasts. CCC members were also provided with Blasting Hotline information cards and advised to pass them on to any community members who raise the topic with them in their capacity as CCC members.

Across 2019 and 2020, the CCC discussed and increase in dust levels and Holcim's response to its reduction and management. Holcim presented their Dust Management Improvement Plan, which has been incorporated into their environment protection licence. Dust exceedance was of particular concern to committee members, with a few members offering anecdotal evidence of high dust levels in the community, despite dust reducing initiatives. Holcim reiterated the importance of the community to their operation and assured that they are exploring ways of addressing social licence and improving upon minimum compliance to subsequently improve the community experience.

Holcim in the community

Holcim has a structured program of providing grants to support community groups throughout the region – the Community Investment Fund. The CCC assisted in establishing eligibility criteria for receiving grants and an independent process for assessing applications. The CCC continues to play a key role in promoting this program broadly throughout the area. On top of this, Holcim participates in regular and ad-hoc community events throughout the calendar year.

If you have any questions or require any further information, please do not hesitate to contact me on 02 9387 2600 or via email.

Yours sincerely

Brendan Blakeley
Director
brendan@elton.com.au



APPENDIX F - AUDIT TEAM APPROVAL





Ms Shilpa Shashi
Planning & Environmental Coordinator NSW /ACT
Level 7 - 799
Pacific Highway
CHATSWOOD, NSW, 2067

22/09/2020

Dear Ms Shashi

**Lynwood Quarry (DA 128-5-2005)
Independent Environmental Audit 2020**

I refer to your letter of 16 September 2020 seeking approval of Messrs Greg Lutton, Lead Auditor and Rob Townsend, Auditor Support of Kleinfelder Australia Pty Ltd as the audit team for the upcoming Independent Environmental Audit of Lynwood Quarry (the development), in accordance with Schedule 5, Condition 11 of development consent DA 128-5-2005, as modified (the consent).

Having considered the qualifications and experience of Messrs Lutton and Townsend, the Secretary endorses the appointment of Messrs Lutton and Townsend to undertake the audit in accordance with Schedule 5, Condition 11 of the consent. This approval is conditional on Messrs Lutton and Townsend being independent of the development.

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

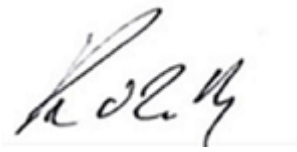
The audit report is to include the following:

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

Within 12 weeks of commencing this audit, Holcim is to submit a copy of the audit report to the Secretary, Council, EPA and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report and a timetable to implement the recommendations. Prior to submitting the audit report to the Secretary, it is recommended that Holcim review the report to ensure it complies with the relevant consent condition.

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

Yours sincerely

A handwritten signature in black ink, appearing to read 'K. O'Reilly', enclosed within a thin black rectangular border.

Katrina O'Reilly
Team Leader - Compliance
Compliance

As nominee of the Planning Secretary



Ms Shilpa Shashi
Planning & Environmental Coordinator NSW /ACT
Level 7 - 799
Pacific Highway
CHATSWOOD, NSW, 2067

24/08/2020

Dear Ms Shashi

**Lynwood Quarry (DA 128-5-2005)
Independent Environmental Audit 2020**

I refer to your letter of 20 August 2020 seeking approval of Mr Andrew Walsh of Kleinfelder Australia Pty Ltd as the lead auditor for the upcoming Independent Environmental Audit of Lynwood Quarry (the development), in accordance with Schedule 5, Condition 11 of development consent DA 128-5-2005, as modified (the consent).

Having considered the qualifications and experience of Mr Walsh, the Secretary endorses the appointment of Mr Walsh to undertake the audit in accordance with Schedule 5, Condition 11 of the consent. This approval is conditional on Mr Walsh being independent of the development.

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

The audit report is to include the following:

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

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

Lynwood Non - Compliance Summary									
Ref No.	Schedule	Parameter	Condition No.	Condition	Auditor's Comments	Compliance	Non - Compliance ID	Holcim's comments	Completion Date
DA18	SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS	Production data	13 (a)	(a) provide annual quarry production data to DRG using the standard form for that purpose; and	The only evidence of reporting production data provided to the auditor is via the Annual Report to DPIE as per Condition 13(a) below.	Non-compliant	NC1	Provide annual production data to DRG using the standard form for that purpose. Reported in the Annual review to DPIE. Site is compliant but will be using DRG format during the submission of Annual report in March 2021.	March 2021
DA62	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Impact Assessment Criteria	12	Particulate matter < 10 µm (PM10) Averaging period: 24 hour Criterion 50 ug/m3	The 2018 and 2019 AERs both report that equipment failure resulted in samples not being collected as required due to power supply issues. Equipment has since been upgraded to provide for a more stable power supply. Equipment performance should continue to be monitored to ensure compliance with the averaging periods. While non-compliant, no further actions are recommended following the upgrade.	Non-compliant	NC2	Site is compliant . However equipment performance will continue to be monitored.	-
DA196	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	48	Within 3 months of each Independent Environmental Audit (see Condition 11 in Schedule 5) after the lodgement of the rehabilitation bond, the Applicant must review, and if necessary revise the sum of the bond to the satisfaction of the Secretary. This review must consider:	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	NC3	The rehabilitation bond has been updated in Dec 2020 and will be revised to the satisfaction of the Secretary. Incorporated CPI and the future 5 year disturbance forecast.	Jan 2021
DA197	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	48 (a)	(a) the effects of inflation;	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	NC4	Finalised the process of bond value post the IEA audit. Updated Bank Guarantee will be provided to the secretary in Dec / Jan 2021.	Jan 2021

DA198	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	48 (b)	(b) any changes to the total area of disturbance; and	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	NC5	Updated Bond has been established. Will be sent to the secretary for review. Existing compliance planners that were set in 2021 also includes the cue for bond revision.	Jan 2021
DA199	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation Bond	48 (c)	(c) the performance of the rehabilitation against the completion criteria of the Rehabilitation and Landscape Management Plan.	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	NC6	The rehabilitation bond has been updated and will be revised to the satisfaction of the Secretary. Incorporated CPI and the future 5 year disturbance forecast.	Jan 2021
DA204	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credit type: Ecosystem credits: HN614 Yellow Box – Blakely's Red Gum grassy woodland on the tablelands, South Eastern Highlands Bioregion Credits to be retired: 2124	The 2019 AER states: "DPIE noted that that Holcim was granted an extension to the retirement of biodiversity credits and that the credits were to be retired in June 2018, no biodiversity credits have been retired in 2019. Obligations around biodiversity credits will continue to be addressed in the 2020 annual review period". No evidence has been seen of how this may have been addressed throughout the 2020 annual review period.	Non-compliant	NC7	Consult with DPIE for how to close out the issue of non-retirement of credits.	April 2021
DA206	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credit type: Ecosystem credits: HN515 Broad-leaved Peppermint – Ribbon Gum grassy open forest in the north-east of the South Eastern Highlands Bioregion Credits to be Retired 33	The 2019 AER states: "DPIE noted that that Holcim was granted an extension to the retirement of biodiversity credits and that the credits were to be retired in June 2018, no biodiversity credits have been retired in 2019. Obligations around biodiversity credits will continue to be addressed in the 2020 annual review period". No evidence has been seen of how this may have been addressed throughout the 2020 annual review period.	Non-compliant	NC8	Consult with DPIE for how to close out the issue of non-retirement of credits.	April 2021

DA207	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Retirement of Biodiversity Credits	48A (c)	Credit type: Ecosystem credits: Total: 3038 (2124 + 881 + 33)	The 2019 AER states: "DPIE noted that that Holcim was granted an extension to the retirement of biodiversity credits and that the credits were to be retired in June 2018, no biodiversity credits have been retired in 2019. Obligations around biodiversity credits will continue to be addressed in the 2020 annual review period". No evidence has been seen of how this may have been addressed throughout the 2020 annual review period.	Non-compliant	NC9	Consult with DPIE for how to close out the issue of non-retirement of credits.	April 2021
DA288	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10	The Applicant must ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee (see condition 7 of Schedule 5) and any interested person upon request.	While the AERs are publicly available on the Holcim website, there is no evidence that that the AERs in the reporting period were submitted directly to Council.	Non-compliant	NC10	A list of agencies that receive the AERs is included in the AERs.	March 2021
DA327	Appendix 7	APPENDIX 7: DETAILED HERITAGE CONDITIONS	9(e)	The progress on the archaeological works on site is systematically video recorded,	Videos are not able to be located and it is assumed that photographs were taken instead.	Non-compliant	NC11	Close this issue out with DPIE to avoid ongoing non-compliance issues at each audit. Ensure photos are taken during any future archaeological works on site. No videos were taken as reported in the last audit in 2018. A letter will be sent to DPIE stating that no videos were taken and it is only photos.	Jan 2021

SOC25	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	N/A (SOC)	Holcim Australia will update the Lynwood Quarry Water Management Plan. This will include an update to the Lockyersleigh Creek Riparian Area Management Plan.	The Water Management Plan is currently awaiting approval and contains management measures regarding Lockyersleigh Creek, however the Lockyersleigh Creek Riparian Area Management Plan has not been updated since 2011 to reflect any updates to the WMP or otherwise.	Non-Compliant	NC12	The Lockyersleigh Creek Riparian Area Management Plan has been updated. This will be shared with DPIE for review.	Submit to DPIE in Dec 2020
EPL34	N/A (EPL)	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.	M4.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant	The 'summarised event report listing' provided to the auditor as evidence does not include: 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.	Non-Compliant	NC13	For each incident recorded, include the actions taken, or if no action taken state why not.	Due to nature of the incidents, a summary listing has been given to preserve personal information. If necessary, we can provide a full report with names blanked.
DA28	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Noise Mitigation Measures	4 (b)	(b) implement all reasonable and feasible measures to minimise road transportation noise associated with the development;	7 noise complaints are reported in the InControl register. 2 are described as closed and 5 are described as submitted. No significant detail is provided on the nature of the noise complaint. No exceedences have been reported at the times of these complaints.	Compliant	Record the detail of the noise complaint and ensure that they are closed out.	Completed	-

DA34	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	NOISE (Incorporates OEH GTA) - Operating Hours	5	Blasting Monday-Saturday: 9am to 5pm Sunday and Public Holidays: None	<p>The 2018 and 2019 AERs report compliance.</p> <p>One InControl community complaint is recorded regarding blasting: House shook some time between 13: 00 & 14:00 on 6th August 2019</p> <p>Incident is recorded but is not listed as closed in InControl.</p> <p>No exceedences are reported in the Blast monitoring report.</p>	Compliant	Ensure incidents listed in InControl are closed out.	Completed	-
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DA59	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	AIR QUALITY (Incorporates OEH GTA) - Impact Assessment Criteria	12	<p>The Applicant must ensure that dust generated by the development does not cause additional exceedances of the criteria listed in Tables 6-8 at any residence that exists on the date of this consent, or on more than 25 percent of any privately owned land.</p>	<p>2005 EIS Appendix 5. Pages 16 - 18 provides predictions of air quality at 8 locations for 7 years in the 30 year period. 2005 EIS section 5.8.5 of the main text found that only one vacant property may be potentially dust affected.</p> <p>The InControl Incident register details numerous dust complaints received from the community, a number of which relate to dust experienced at residences. A number of these complaints are not listed as 'closed'.</p> <p>Both the 2018 and 2019 AERs list non-compliances regarding air quality monitoring due to equipment failure, however exceedances of the criteria are not recorded. Short term PM10 exceedances are recorded in 2018 but are correlated to regional dust events.</p> <p>Equipment has been upgraded in early 2020 with a change to the solar power supply.</p> <p>The Air Quality Management Plan was revised in 2020 with approval received from DPIE on 11/03/2020.</p>	Compliant	Close out all dust complaints in the incident register.	Completed	-
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DA84	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Sediment Dams	18 (a)	(a) Sediment Dams A, B and F are capable of treating the 90th percentile 5-day rainfall event; and	The water management plan was revised in 2020. The dams listed in Table 5 are approved and were conceptual dams based on modelling undertaken as part of the initial Lynwood Quarry EIS (Umwelt, 2005) and the Lynwood Quarry Modification EA (Umwelt, 2015). This table was updated in February 2020 based on the status of dams. Dam A is now a water harvesting Dam. Dam F is specified as both sediment and water storage and has minimum design criteria of 90th percentile 5-day rainfall. Dam B is no longer listed.	Compliant	Clarity should be sought around this condition if dams are now assigned different labels, or alternatively the WMP should be updated to state whether these criteria are met if still required to do so		
DA88	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs) - Operating Conditions	19 (b)	(b) ensure that the accumulated sediment in all the Sediment Dams is kept below 30% of their design capacity;	WMP (2020) states All sediment dams will be managed to ensure that accumulated sediment is kept below 30% of the dam design capacity.	Compliant	Suggestion to mark levels at 30 % if feasible, or incorporate program for checking levels systematically.	Program in place to check the levels by sites. Completed.	-
DA183	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	44 (c)	describe in detail the measures that would be implemented over the next 5 years to rehabilitate and manage the landscape on the site;	The 2018 plan is an update of the 2016 plan which describes rehabilitation between 2016 and 2021.	Compliant	The Rehabilitation and Landscape Management Plan will need to be updated to manage for the next five year period within the next 12 months.	Rehabilitation and Landscape Management Plan will be updated to reflect the 2020 plan.	June 2021
DA193	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	REHABILITATION AND LANDSCAPING - Rehabilitation and Landscape Management Plan	46	Within 3 months of the Independent Environmental Audit (see Condition 11 in Schedule 5), the Applicant shall update the Rehabilitation and Landscape Management Plan to the satisfaction of the Secretary.	The current plan is dated May 2018. The previous audit was scheduled for 2017 but was not finalised until 2019 due to delays. As this current plan was updated during this timeframe and following commencement of the audit process, it is considered adequate, although technically non-compliant.	Compliant	Ensure that the Rehabilitation and Landscape Management Plan is updated to the satisfaction of the secretary within 3 months of this audit.	Forecast and schedule in Compliance planner. Update the Rehabilitation Management Plan with the recent ecology and rehabilitation monitoring of the site (minor edits).	Feb 2021

DA220	SCHEDULE 3 - SPECIFIC ENVIRONMENTAL CONDITIONS	VISUAL IMPACT - Waste Management	54	The Applicant must ensure that all wastes generated or stored at the site are assessed, classified and managed in accordance with the Assessment, Classification and Management of Liquid and Non-liquid Waste (OEH) guideline, or its successor (incorporates OEH GTA).	Waste Management and Minimisation Strategy Section 3.0 purpose and scope) states that "This Waste Management and Minimisation Strategy (WMMS) has been developed to ensure compliance with Condition 53, Schedule 3 of DA 128-5-2005." The document then presents both condition 53 and 54.	Compliant	Edit wording of Waste Management and Minimisation Strategy to explicitly capture condition 54.	Will incorporate in the waste management section	June 2021
DA252	SCHEDULE 5 ENVIRONMENTAL	Evidence of Consultation	1A (b)	(b) submit evidence of this consultation as part of the relevant document;	Various revised Management plans contain 'Consultation' sections. RLMP (2018) now has agency consultation in Appendix 9, Noise Management Plan provides it in Appendix 1. Not all revised plans provide the actual consultation (e.g. blast management plan 2020), but do allude to it in the document.	Compliant	Append agency consultation to all future revisions of management plans.	Compliance planner to include this.	Feb 2021
DA253	SCHEDULE 5 ENVIRONMENTAL	Evidence of Consultation	1A (c)	(c) describe how matters raised by the authority have been addressed and any matters not resolved; and	Various revised Management plans contain 'Consultation' sections which summarise the consultation held. RLMP (2018) now has agency consultation in Appendix 9, Noise Management Plan provides it in Appendix 1. Not all revised plans provide the actual consultation (e.g. blast management plan 2020), but do allude to it in the document.	Complaint	Append agency consultation to all future revisions of management plans.	Compliance planner to include this.	Feb 2021

DA254	SCHEDULE 5 ENVIRONMENTAL	Evidence of Consultation	1A (d)	(d) include details of any outstanding issues raised by the authority and an explanation of disagreement between any public authority and the Applicant.	Various revised Management plans contain 'Consultation' sections which summarise the consultation held. RLMP (2018) now has agency consultation in Appendix 9, Noise Management Plan provides it in Appendix 1. Not all revised plans provide the actual consultation (e.g. blast management plan 2020), but do allude to it in the document and provide pertinent points.	Compliant	Append agency consultation to all future revisions of management plans.	Compliance planner to include this.	Feb 2021
DA255	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (a)	(a) detailed baseline data;	This condition was introduced in MOD4 (May 2016) so does not apply to plans prepared prior to this time. Plans revised since this date contain baseline data.	Compliant	Provide previously collected detailed baseline data in any future management plan revisions.	Incorporate previous data in management plan reviews	-
DA259	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (e)	(e) a contingency plan to manage any unpredicted impacts and their consequences;	This condition was introduced in MOD4 (May 2016) so does not apply to plans prepared prior to this time.	Compliant	Provide contingency plans in any future management plan revisions.	Will be incorporated in future updates.	July 2021
DA262	SCHEDULE 5 ENVIRONMENTAL	MANAGEMENT PLAN REQUIREMENTS	2 (h)	(h) a protocol for periodic review of the plan.	This condition was introduced in MOD4 (May 2016) so does not apply to plans prepared prior to this time.	Compliant	Future updates to plans prepared prior to MOD4 should provide a protocol for periodic review	Will be incorporated in future updates.	July 2021
DA268	SCHEDULE 5 ENVIRONMENTAL	REVISION OF STRATEGIES, PLANS & PROGRAMS	5	Within 3 months of the submission of an: (a) incident report under condition 8 below; (b) Annual Review under condition 10 below; (c) audit report under condition 11 below; and (d) any modifications to this consent, the Applicant must review, and if necessary revise, the strategies, plans, and programs required under this consent, to the satisfaction of the Secretary.	Sighted signed 'Evidence of Internal Review' forms indicating review process of all management plans was underway, or complete with a required action. 2018 AER states: During the 2018 report period, management plans were not updated three months after the submission of the Annual Review. It is noted this was corrected in the following reporting period (2019) so assumed to be closed out.	Note	Establish a register to ensure accurate tracking of strategy, plan and program updates against required timeframes. Master register has these data.	Completed . Compliance Planner for the site with all the program updates and consent and EPL requirements scoped out for each year. All the management plan requirement are also scoped out.	-

DA276	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Incident Reporting	8	The Applicant must notify, at the earliest opportunity, the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the development, the Applicant must notify the Secretary and any other relevant agencies as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	Incidents appear to be managed as per the requirements.	Compliant	PIRMP should be amended to include notification of the Secretary following an emergency incident, as per the requirements of this condition.	Completed in Dec 2020 and uploaded on the website. Will include the notification to Secretary emergency pathway.	Feb 2021
DA286	SCHEDULE 5 ENVIRONMENTAL	REPORTING - Annual Review	10 (h)	(h) calculate the number of additional BioBanking (or equivalent) credits that will need to be purchased, before that clearing can be done; and	AERs present how the number of credits required per stage of development have been calculated for the granite pit and how those credits are being progressively retired.	Compliant	Future Annual Environmental Reviews should include information on the additional BioBanking (or equivalent) credits that will need to be purchased or note that no additional credits are required.	Holcim will incorporate these in the Annual Reviews.	March 2021

SOC28	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	N/A (SOC)	<ul style="list-style-type: none"> Monitoring of water imported to site, water used on site and water discharged following the guidelines for Water Reporting Requirements for Mines (NSW Office of Water, undated), where applicable. 	<p>The WMP (2011) states Holcim will monitor all water used on site, imported to site and overflows from sediment dams. The WMP (2011) does not state if this is in line with following the guidelines for Water Reporting Requirements for Mines (NSW Office of Water, undated).</p> <p>The draft revised WMP (2020) lists guideline used in Section 3.2 but does not refer to Water Reporting Requirements for Mines (NSW Office of Water, undated).</p>	Compliant	The revised WMP (2020) should state if the guidelines for Water Reporting Requirements for Mines (NSW Office of Water, undated) have been used in the WMP (2020) development.	The Water Management Plan has been updated and approved in October 2020. New revision will include the guidelines.	Oct 2021
SOC29	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	N/A (SOC)	<ul style="list-style-type: none"> The existing surface water monitoring program will be updated to include four additional sites as shown in Figure 2.2 of the Response to Submissions report. The final details of the proposed surface water monitoring program will be contained within the updated Water Management Plan. 	<p>The WMP has been further revised in 2020 and is still pending approval. The Surface Water Monitoring Program is appended to the revised WMP and awaiting approval.</p> <p>The previous audit found: The Surface Water Monitoring Program (2018) has since been revised and is currently going through the approval process as part of the Water Management Plan 2018*. It does not include SW1 and SW2 surface water monitoring locations which were in the original Figure (Figure 2.2 of the RTS report) as these related to construction of the Hume Highway intersection is complete.</p> <p>The 2018 and 2019 AERs, do not provide evidence that the requirement of SOC 27 has been met during the audit period.</p>	Compliant	Close out revision to Water Management Plan and include relevant updates to surface water monitoring program.	Completed. Comprehensive report with surface and Ground water MP included in 1 report.	-

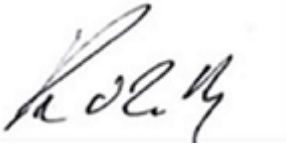
SOC30	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Surface Water	N/A (SOC)	<ul style="list-style-type: none"> The water quality parameters and frequency of sampling will remain as for the existing approved operations. Flow monitoring will continue to be undertaken by visual observation of the flows during water quality sampling (flow, no-flow). 	<p>The auditor has only been provided the 2011 revision of the Surface Water Monitoring Program. The previous audit suggests the most recent revision is from 2018 and suggest compliance.</p> <p>The website contains only the 2011 revision of the Surface Water Monitoring Program.</p>	Compliant	The website should be updated to show most recent revision of the Surface Water Monitoring Program if it was indeed approved.	Completed (WMP)	-
SOC31	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Groundwater	N/A (SOC)	<p>Holcim Australia will extend the current groundwater monitoring program, which includes both groundwater level and quality, to include the new monitoring piezometers that were constructed for the Granite Pit during the exploration drilling phase. Details of these locations are provided in Appendix 9 of the EA (MOD 4). These bores will be monitored until they are progressively removed by the progression of the Granite Pit or as otherwise refined via the Water Management Plan.</p>	<p>The previous IEA indicates that the Groundwater Management Plan was updated in compliance with the commitment, however the updated plan has not been published on the Holcim website. The auditor was not provided the 2018 revision of the GWMP. The wider Water Management Plan (2020) has been updated and is pending approval. A groundwater Monitoring Program is appended to this.</p>	Compliant	Update the website to contain the revised Groundwater Management Plan (2018), or 2020 once approved.	Completed - Comprehensive WMP. Uploaded on the webpage.	-

SOC37	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Trust and Reputation	N/A (SOC)	<ul style="list-style-type: none"> Existing engagement to continue as appropriate, with a focus on respectful, honest and open communications. 	<p>CCC feedback: The committee is working well and acting as an important conduit for community issues and communicating the environmental compliance for the construction and operations of the quarry. This sentiment is also held by members, who appreciate the opportunity to provide feedback to Holcim's project team and management.</p> <p>Holcim always provides the CCC with a thorough update on the quarry, including any milestones, planning updates, construction works, environmental performance, site operations and community relations activities.</p>	Compliant	Last update to 'Information Updates' page online appears to be 2015. This page should be updated or merged with other pages that provide the more recent information such as Annual Reviews etc or with the 'Community Link' Lynwood Page which has the most recent update of December 2019.	No, the webpage was upto date. https://www.holcim.com.au/about-us/community-link/lynwood/our-community	-
SOC45	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Visual Amenity	N/A (SOC)	<ul style="list-style-type: none"> Lighting – quarry operations on the surface including topsoil stripping, overburden extraction and overburden emplacement will be daytime operations only (consistent with current development consent conditions) and therefore do not have any potential to result in lighting impacts. 	One complaint has been recorded in InControl regarding fugitive light emissions on 20/02/2019. No details of the complaint are recorded, and it is not stated to be 'closed'. It is unclear if this complaint relates to topsoil stripping.	Complaint	Close out the complaint from 20/02/2019 Recommendation: Ensure that enough detail is recorded for complaints in InControl.	Completed	-
SOC61	APPENDIX 11	APPENDIX 11: STATEMENT OF COMMITMENTS (Final May 2016) - Modification Project Management and Mitigation Measures - Gas Pipeline Hazards	N/A (SOC)	<ul style="list-style-type: none"> pipelines will be designed in accordance with relevant standards 	The auditor has not been provided a copy of any specifications of the pipelines. It is assumed that this would be covered by construction certificates which are up to date. Considered closed by compliance in previous audit.	Compliant	Ensure pipelines are designed in accordance with relevant standards.	Noted.	-

EPL38	N/A EPL	N/A EPL	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.	Environmental or community enquiries phone number is featured on Holcim's website: http://www.holcim.com.au/about-us/community-link/lynwood/contact-details (viewed 23/10/20)	Compliant	State clearly on the webpage that this number should be used if a community member has a complaint	Active complaints line number has been clearly stated on the webpage. Web page updated.	-
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Should you have any enquiries in relation to this matter, please contact Georgia Dragicevic, Senior Compliance Officer, on (02) 4247 1852 or by email to Georgia.Dragicevic@planning.nsw.gov.au.

Yours sincerely

A handwritten signature in black ink, appearing to read 'K. O'Reilly', enclosed in a thin black rectangular border.

Katrina O'Reilly
Team Leader - Compliance
Compliance
As nominee of the Planning Secretary

Appendix 2 – Rehabilitation and Landscape Management Plan – Approval Letter 2018



Planning & Environment

**Planning Services
Resource Assessments**

Contact: Philip Nevill

Phone: 8275 1036

Email: philip.nevill@planning.nsw.gov.au

Ms Alana White
Senior Environment & Community Liaison
Holcim (Australia) Pty Ltd
PO Box 76
Marulan NSW 2579

Dear Ms White

**Lynwood Quarry (DA 128-5-2005)
Rehabilitation and Landscape Management Plan**

I refer to the Rehabilitation and Landscape Management Plan (RLMP) dated May 2018 and prepared by Umwelt, which was submitted for the Secretary's approval in accordance with condition 44 of Schedule 3 of the above-mentioned consent.

The Secretary has approved the RLMP.

Should you have any enquiries in relation to this matter, please contact Philip Nevill on the details above.

Yours sincerely,

Howard Reed

Director

Resource Assessments

as nominee of the Secretary

11.7.18

