

Lynwood Quarry Independent Environmental Audit 2023

Audit Report

Prepared for Holcim

March 2024

Lynwood Quarry Independent Environmental Audit 2023

Audit Report

Holcim

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March 2024

Version	Date	Prepared by	Approved by	Comments
V1	26 March 2023	Thomas Frankham	Thomas Frankham	Final

Approved by



Thomas Frankham

Associate Environmental Scientist (Lead Auditor Certification No. 207528)

27 March 2024

Level 3 175 Scott Street

Newcastle NSW 2300

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Independent Audit Report 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 2023
Date	26 March 24

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:

- i. the audit has been undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Compliance Requirements* (Department 2019)
- ii. the findings of the audit are reported truthfully, accurately and completely
- iii. I have exercised due diligence and professional judgement in conducting the audit
- iv. I have acted professionally, objectively and in an unbiased manner
- v. I am not related to any proponent, owner or operator of the project neither as an 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
- vi. 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
- vii. neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit
- viii. I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from 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.

- 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.
- 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	Thomas Frankham
Signature	
Qualification	BEnvSc, Certified Lead Environmental Auditor (Exemplar Global - Certification No. 207528)
Company	EMM Consulting
Company address	Level 3, 175 Scott Street, Newcastle NSW 2300

1 Introduction

1.1 Background

Holcim (Australia) Pty Ltd (Holcim) operates the Lynwood Quarry, located at 278 Stoney Creek Road, Marulan NSW 2579, approximately 3 kilometres (km) west of the town of Marulan, and approximately 27 km north-east of Goulburn, in the Goulburn Mulwaree local government area (LGA).

Lynwood Quarry operates under development consent DA 128-5-2005, granted by the Minister for Planning on 21 December 2005 under section 80 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). The consent has been modified five times.

The approved operations at the site include the extraction and processing of hard rock of up to five million tonnes per annum (Mtpa) and transportation of quarry products by road and rail. The operational life of the quarry is forecast to be 30 years, with operations approved till 2038.

The layout of the quarry is illustrated in Figure 1.1.

Lynwood Quarry also operates pursuant to Environment Protection Licence 12939 which authorises scheduled activities being extractive activities and crushing, grinding and separating processes. The permitted scale of the activities is prescribed as >2,000,000 tonnes annual extraction and >2,000,000 tonnes annual processing.

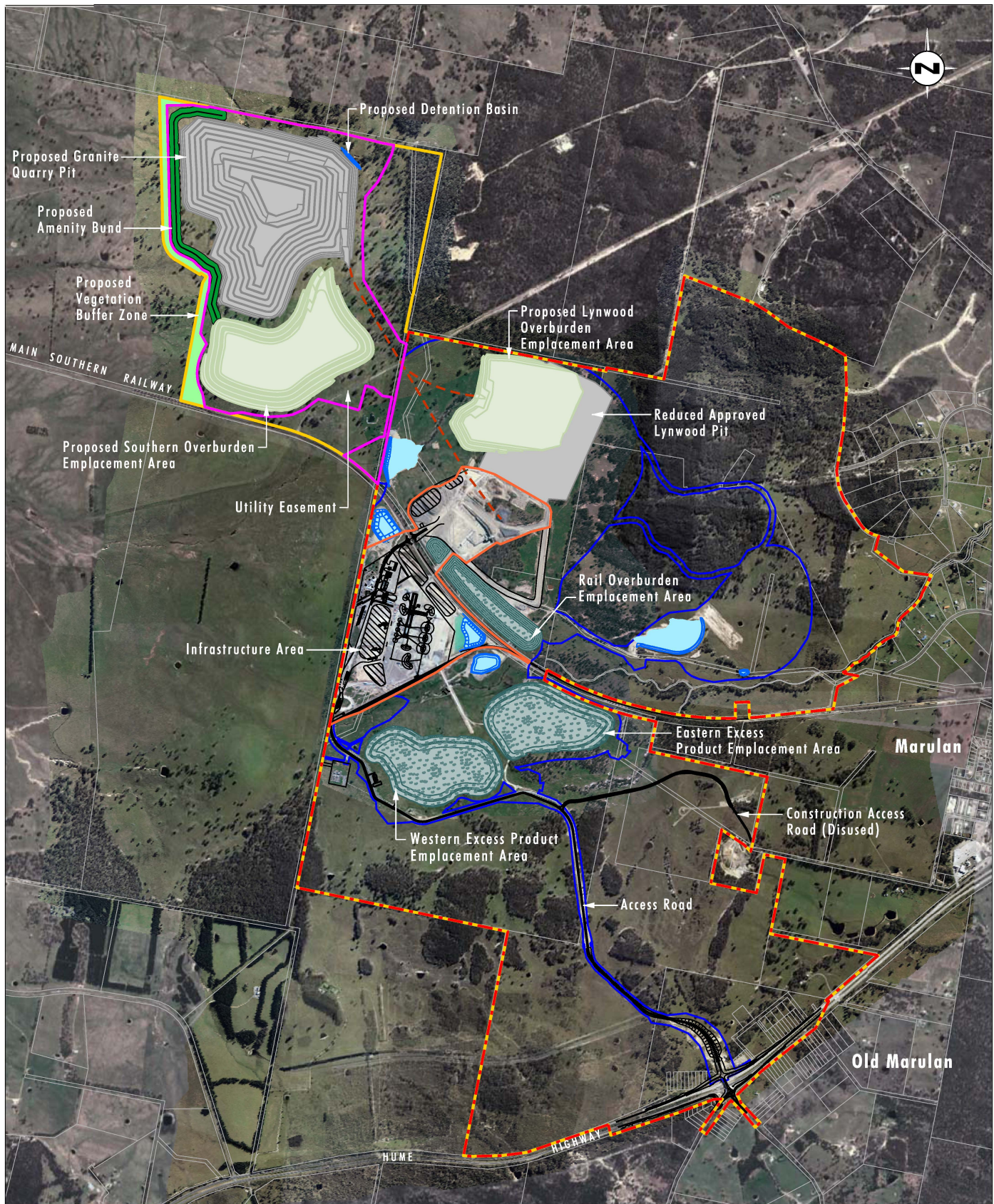


Image Source: Google Earth (2012), Holcim (2012, 2014)
Data Source: LPI (2014), Holcim Australia (2015)

0 0.5 1.0 1.5 km
:30 000

Legend

- | | |
|--|--------------------------------------|
| Approved Project Area | Quarry Pit |
| Modification Project Area | Emplacement Area |
| Lynwood Infrastructure Area | Dam |
| Approved Disturbance Footprint | Proposed Overburden Emplacement Area |
| Proposed Granite Pit Disturbance Footprint | Proposed Vegetation Buffer Zone |
| Lynwood Infrastructure Layout | Proposed Amenity Bund |
| Proposed Haul Road | |

Overview of the
Modification Project

1.2 Audit team

The Independent Environmental Audit (IEA) team includes the team detailed in Table 1.1.

Table 1.1 IEA team

Name	Role	Company	Qualifications	Experience
Thomas Frankham	Lead auditor (Lead Auditor Certification No. 207528)	EMM	BEnvSc, Certified Lead Environmental Auditor (Exemplar Global - Certification No. 207528)	Associate Consultant 12 years' experience
Allan Young	Strategic advisor and project director	EMM	Master of Urban and Regional Planning Registered Environmental Assessment Practitioner Registered Planner (PIA)	Associate Director 27 years' experience

The engagement of Mr Thomas Frankham as lead auditor was endorsed by the Department of Planning, Housing and Infrastructure (DPHI, formerly the Department of Planning and Environment) on 1 December 2023. A copy of the DPHI endorsement is provided within Appendix A.

1.3 Audit objectives

The objective of the IEA is to determine the operational compliance of Lynwood Quarry against the relevant regulatory approvals applicable to the site. The Audit findings are detailed in Section 3.

1.4 Audit scope

The IEA has been completed in accordance with Schedule 5, Condition 11 of development consent DA 92/97 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 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.

Schedule 5, Condition 12 of DA128-5-2005 also states:

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.

The IEA has also been prepared in accordance with Section 3.3. of the DPHI *Independent Audit – Post Approval Requirements* (May 2020).

1.5 Audit period

The audit period for this IEA covers the period between **30 September 2020 to 1 February 2024**. This represents a period commencing the day after the 2020 IEA site inspection was completed, through to the final day of the 2024 IEA site inspection.

It is noted that this period exceeds 3 years following the previous IEA. This was a result of personal circumstances of the audit team and the date on which EMM consulting was engaged to undertake the IEA. The exceedance of the 3 year period is recorded as a non-compliance within this IEA and discussed further in Section 3.

2 Audit methodology

2.1 Selection and endorsement of audit team

Holcim contacted DPHI on 1 December 2023 seeking endorsement of the proposed audit team. On 1 December 2023, DPHI responded endorsing the audit team (identified in Section 1.2).

DPHI did not identify that any further technical experts required to be engaged to inform the audit.

2.2 Audit scope development

The IEA scope was developed in accordance with the DPE *Independent Audit – Post Approval Requirements* (May 2020).

On 5 December 2023, EMM requested from DPHI confirmation of any parties or agencies that are required to be consulted with as part of the IEA, or if there were any areas of compliance or environmental management that DPHI would like EMM to focus on within the scope of the IEA.

DPHI responded on 11 December 2023, with the list of agencies to consult with and aspects to focus on. These are discussed further in Section 3.7.

2.3 Compliance evaluation

Compliance of the operations of Lynwood Quarry were assessed against the approvals and documents listed in Section 3.1.

The process of compliance evaluation involved the following steps:

- review of all approvals applicable to Lynwood Quarry operations
- development of spreadsheet of all relevant conditions
- site visit including:
 - opening meeting with applicable site personnel (Section 3.13)
 - site inspections (Section 3.11)
 - interviews of relevant site personnel (Section 3.12)
 - closing meeting (Section 3.13)
- requesting additional information from site, where required
- review of all information provided by site, site photos taken during the site inspection (Appendix E) and any notes taken during the site inspection
- further discussions with site personnel, as required.

2.4 Site interviews

Lynwood Quarry personnel interviewed as part of the IEA are noted in Table 2.1.

Table 2.1 **Lynwood Quarry site personnel interviews**

Name	Role
Wayne Beattie	Operations Manager
Dozie Egeonu	Environment Manager - NSW & ACT
Mohsen Vafaei Fard	Support Services Supervisor

2.5 Site inspection

The site inspection of Lynwood Quarry was completed 1 February 2024. EMM consulting observed the following locations during the site inspection:

- access road
- infrastructure area (including administration area, workshops, fuel storage, waste management area)
- processing plant
- stockpile areas
- rail and road transport load out facilities
- western and eastern excess product emplacement areas
- Lynwood and Southern overburden emplacement areas
- amenity bund
- granite quarry pit
- supply dam
- sediment dams A, E, F, G1.

2.6 Consultation

Consultation was completed with various government agencies and the community consultative committee (CCC), including:

- Department of Planning, Housing and Infrastructure (DPHI, formerly Department of Planning and Environment)
- Environment Protection Authority (EPA)
- Goulburn Mulwaree Council (Council)
- Department of Climate Change, Energy, Environment and Water (DCCEEW) – Water
- Department of Primary Industries - Fisheries
- all members of the CCC.

A summary of the consultation is included in Section 3.7, with evidence of consultation attached as Appendix B and Appendix C.

2.7 Compliance status descriptors

The compliance status of each compliance requirement in the audit table (Appendix D) has been determined using the relevant descriptors in Table 2.2.

Table 2.2 Compliance status descriptors

Status	Description
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 conditions or requirements have not been complied with within the scope of the audit.
Not triggered	A requirement has an activation or timing trigger that has not been met during the temporal scope of the audit being undertaken (may be a retrospective or future requirement), therefore an assessment of compliance is not relevant.

3 Audit findings

3.1 Approval and document list

The approvals and documents audited as part of this IEA include:

- Development Consent DA 128-5-2005 and the statement of commitments
- Environment Protection Licence (EPL) 12939
- Annual Reviews for 2020, 2021, 2022
- environmental management plans (required under DA 128-5-2005)
- non-compliances of the 2020 IEA.

EMM would have also audited the Water Works Approval 10WA102709 (WWA), Water Access Licence 25575 10AL102708 (WAL) and Water Use Approval 10UA119159 (WUA), however, Holcim advised that the water licences were not relied upon during the audit period. No further information was provided in regards to these water licences, noting that water usage is reported in the Annual Reviews being sourced externally to the held licenses.

3.2 Compliance performance

Table 3.1 lists the total number of compliance requirements assessed as part of this IEA including the total number of compliant, non-compliant and not triggered conditions.

Figure 3.1 shows the project performance in relation to compliance requirements assessed.

Table 3.1 Compliance performance

Aspect	Number
Compliance requirements	426
Compliant	359
Non-compliant	27
Not triggered	40

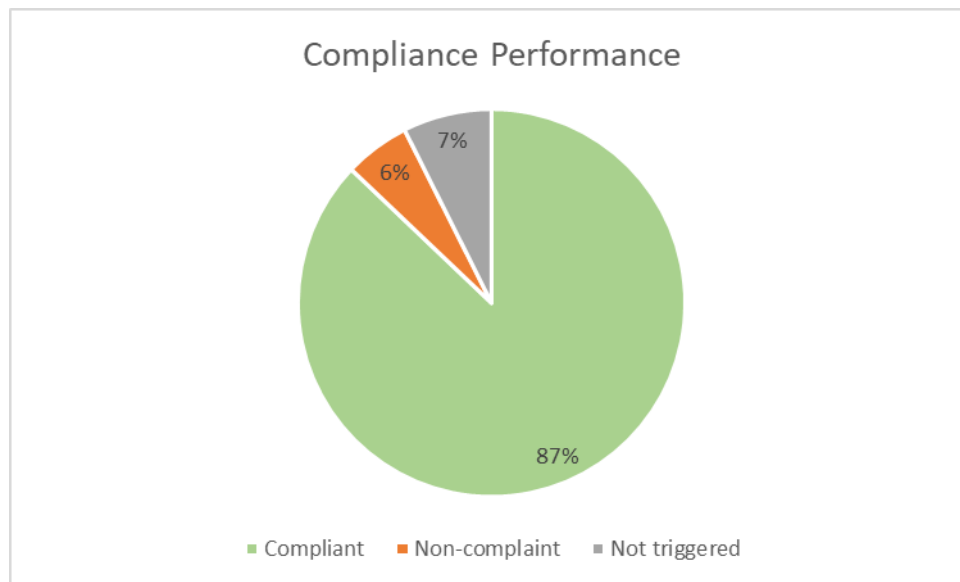


Figure 3.1 Compliance performance

3.3 Summary of agency notices, orders, penalty notices or prosecutions

No orders, penalty notices or prosecutions have been issued during the audit period as reported in the Annual Reviews, EPL register or as advised during site interviews.

It is noted that whilst outside the scope of the IEA, in 2021 Lynwood Quarry received two infringement notices against the operations *Environment Protection and Biodiversity Conservation Act* (EPBC Act) approval (EPBC Approval 2012/6560). The offence was identified on 30 July 2021 and infringement notices issued on 9 November 2021. The offences related to Conditions 2, 7, and 8 of the EPBC Approval 2012/6560. Holcim is working with the Commonwealth Government to address the matter.

3.4 Non compliances

A summary of the non-compliances determined as part of the 2023 IEA are provided in Table 3.2.

Table 3.2 **Non-compliances**

Section	Requirement	Evidence	Findings/recommendations	Unique non-compliance identification number
DA 128-5-2005				
Schedule 2, Condition 13	The Applicant must: (a) provide annual quarry production data to DRG using the standard form for that purpose; and (b) include a copy of this data in the Annual Review.	Sighted extractive industry returns for 2019-20 and 2020-21.	It is noted that uploading of 2021-22 extractive industry return has not been possible as the portal is currently not active as advised by correspondence from Department of Regional NSW to Holcim dated 17 October 2022,. This is non-compliance as the report has not been submitted however the issue rests with Department of Regional NSW. NC1 Recommendation: Ensure annual quarry data is provided to DRG once portal is active.	NC1
Schedule 3, Condition 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.	Annual Review 2020, 2021, 2022. 2023 Quarterly Monitoring Reports.	Noise is monitored quarterly at four locations which are representative of the receivers listed in Table 1. 2020, 21 and 22 AERs states that four quarterly monitoring events took place within each reporting period and found that review of all documents confirmed that operation noise complied with legislative noise emission requirements. In Sept 2023, a negligible exceedance (1dB) was observed at N1 during the evening monitored period with an estimated quarry contribution of 36 LAeq (15min) dBA against a criteria of 35 LAeq (15min) dBA. The LA1 quarry contribution also exceeded the LA1(1min) (dBA) criteria for all locations but it was noted that LA1 was dominated by birds, road traffic and/or a passing train at each location. NC2 Recommendation: Review noise monitoring locations - should road and traffic noise be considered an issue an alternative location may be appropriate.	NC2

Table 3.2 **Non-compliances**

Section	Requirement	Evidence	Findings/recommendations	Unique non-compliance identification number
Schedule 3, 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.	Annual Review 2020, 2021, 2022. 2023 environmental monitoring database. Site observations.	<p>It is noted during the site visit minimal dust was noted and active controls in place. It is also noted that DDG6 has been removed as per correspondence to DPE from Holcim dated June 30 2023.</p> <p>A number of dust exceedances were recorded during the audit period, having been reported in the 2020, 2021, 2022 Annual Reviews and evident in the 2023 monitoring database. Majority of incidents involved missed one off sampling events or likely contamination of samples. Notable exceedances are identified below:</p> <ul style="list-style-type: none"> • DDG6 during 2022 exceed the annual average, recording 4.74(g/m2/month). Reported to DPE, likely contamination of samples. • HVAS1 missed sampling events a total of 8 times during 2022. Reported to DPE, due to inclement weather and solar power issues. • HVAS1 missed sampling events a total of 8 times during 2023. Reported to DPE, due to inclement weather and solar power issues. <p>NC3 Recommendations:</p> <ul style="list-style-type: none"> • Determine root cause of the HVAS failures and appropriately action corrective measures. It is understood that a number of failed sampling events relate to power supply which Lynwood Quarry is currently in the process of improving. However, it is noted that a number of failed sampling attempts related to the run time of the HVAS or the days set. This may be improved by detailed operating procedures to reduce the risk of operator error. • Review DDG data, should a result be contaminated remove the result from the annual average data set as this appears to be artificially increasing the average values. 	NC3

Table 3.2 **Non-compliances**

Section	Requirement	Evidence	Findings/recommendations	Unique non-compliance identification number
Schedule 3, 12, 15 (e)	The Applicant must implement the management plan as approved from time to time by the Secretary.	Air Quality Management Plan (August 2023). Annual Review 2020, 2021, 2022. 2023 environmental monitoring database. Site observations.	Monitoring methods described in current and revised AQMPs (both sighted). Site observations identified air quality management measures are being implemented. It is however noted that during the audit period monitoring a number of failed monitoring events and incidents occurred as noted under Schedule 3, Condition 12. NC4 Recommendation: As per NC3.	NC4
Schedule 3, 19 (a)	Ensure that the water collected in the Sediment Dams is pumped to the supply dams as soon as practicable;	Water Management Plan (November 2020). Site observations.	Water Management Plan (November 2020), Section 6.1.2 notes sediment dams (SDs) will be emptied via pump or gravity systems after rainfall events. During site inspection Sediment Dam F and Sediment Dam E were inspected and whilst not empty given recent rainfall were actively being managed. Sediment Dam G1 was also inspected and at the time of inspection was at capacity, with the water level, level with the spillway. Holcim Representatives D Egeonu and M Vafaei Fard, at the time advised that water discharging from Sediment Dam G1 reported internally to Sediment Dam F and did not discharge from site. NC5 Recommendation: It is recommended event based inspections of SDs be implemented to ensure that adequate capacity is maintained to reduce the risk of discharge events.	NC5
Schedule 3, Condition 4 (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) - Section 3.1.	Section 3.1 of the Rehabilitation and Landscape Management Plan (2018) describes in detail rehabilitation during years 2016 - 2021. NC6 Recommendation: Section 3.1 of the Rehabilitation and Landscape Management Plan (2018) to be updated to account for next 5 years, i.e. 2024 to 2029.	NC6

Table 3.2 **Non-compliances**

Section	Requirement	Evidence	Findings/recommendations	Unique non-compliance identification number
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.	No evidence provided.	No evidence sighted of updates to the Rehabilitation and Landscape Management Plan following the 2020 IEA. NC7 Recommendation: Ensure management plans, following updates if required, are issued to DPHI following IEAs.	NC7
Schedule 3, Condition 48 a, b and c	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: (a) the effects of inflation; (b) any changes to the total area of disturbance; and (c) the performance of the rehabilitation against the completion criteria of the Rehabilitation and Landscape Management Plan.	No evidence provided.	The auditor has not been provided any evidence of a bond review occurring following the previous audit. NC8, NC9, NC10 and NC11 Recommendations: Review and if necessary revise the bond to the satisfaction of the secretary.	NC8, NC9, NC10, NC11

Table 3.2 **Non-compliances**

Section	Requirement	Evidence	Findings/recommendations	Unique non-compliance identification number
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,</p> <p>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>Annual Review 2020, 2021, 2022.</p> <p>Incident notifications to DPE dated 11 December 2023, 22 May 2023, 13 January 2023.</p> <p>Site interviews D. Egeonu.</p>	<p>Sighted correspondence between Holcim and DPE confirm reviews of Management Plans following annual reviews.</p> <p>No evidence sighted of review of plans following incidents or previous audit.</p> <p>2020 Annual Review notes an IEA Action plan is available as Appendix 3 of the document however it notes local funding initiatives not IEA actions</p> <p>NC12 Recommendation:</p> <p>Ensure revisions of management plans, if required, are documented and communicated to DPHI.</p>	NC12
Schedule 5, Condition 10 (i)	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.	Annual Review 2020, 2021, 2022.	<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> <p>NC13 Recommendation:</p> <p>Ensure AERs are issued to Council.</p>	NC13
Schedule 5, Condition 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.	<p>Audit commissioned 4 December 2023, and was originally scheduled for the week the 11th of December 2023. However due to personal circumstances the auditor could not undertake the audit till 11 January 2024.</p> <p>NC14 Recommendation:</p> <p>Ensure IEA lead auditor engaged prior to the end of the audit period in future.</p>	NC14

Table 3.2 **Non-compliances**

Section	Requirement	Evidence	Findings/recommendations	Unique non-compliance identification number
Schedule 5, Condition 13	<ul style="list-style-type: none"> the Annual Reviews (over the last 5 years); any independent environmental audit, and the Applicant's response to the recommendations in any audit; 	<p>Holcim Lynwood Quarry webpage (accessed 12/1/2024).</p> <p>https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals-reporting</p>	<p>Only 2020, 2021 and 2022 AERs available online. 2012, 2015, 2019, and 2020 IEAs available online. No response to audits available.</p> <p>NC15 and NC16 Recommendation:</p> <ul style="list-style-type: none"> Previous AERs made available on the Holcim website post audit. No further action necessary. Upload response to IEAs to Holcim website if available. 	NC15, NC16
Appendix 7 Detailed Heritage Conditions 9 (e)	The progress on the archaeological works on site is systematically video recorded,	Previous 2020 IEA Audit.	<p>Previous audit identified that Videos are not able to be located and it is understood that photographs were taken instead.</p> <p>Previous audit included action to discuss this matter with DPE. No evidence of action being addressed.</p> <p>NC17 Recommendation:</p> <p>As per previous audit Holcim to action previous recommendation outlined below:</p> <p>Recommendation 20: Close this issue out with DPHI to avoid ongoing on compliance issues at each audit. Ensure videos are taken during any future archaeological works on site.</p>	NC17
Appendix 10, Condition 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.	Quarterly Noise Monitoring reports (Ramboll, MAC).	<p>No reference in reports to reliance of meteorological station required under condition 15A of Schedule 3.</p> <p>NC18 Recommendation:</p> <p>Ensure noise consultant engaged for quarterly assessments relies on meteorological station required under condition 15A of Schedule 3.</p>	NC18

Table 3.2 **Non-compliances**

Section	Requirement	Evidence	Findings/recommendations	Unique non-compliance identification number
Statement of commitments				
Social impact	<p>Monitoring</p> <ul style="list-style-type: none"> Undertake social monitoring as outlined in Table 6.14 of the EA (MOD 4). 	<p>EA (MOD 4) - Table 6.14.</p> <p>CCC Minutes.</p>	<p>Table 6.14 states the following will be completed in regard to social monitoring:</p> <ul style="list-style-type: none"> Completion of periodic community surveys to review community perception over time. Continued implementation of community engagement program including seeking feedback on engagement effectiveness and on the community's preferred engagement mechanisms. Continued effective operation of the CCC. Newsletter content to focus on key community issues identified as of most interest to the community. Community survey outcomes and feedback from the CCC to be used to inform and update engagement and broader business planning. <p>No evidence sighted of periodic community surveys or newsletters during audit period.</p> <p>It is noted CCC operated effectively.</p> <p>NC2 Recommendation:</p> <p>Implement periodic community engagement surveys and community newsletters.</p>	NC19
Rehabilitation	<p>The key elements of the rehabilitation strategy for the Modification Project will include:</p> <ul style="list-style-type: none"> the timely and progressive rehabilitation of disturbed areas 	<p>Rehabilitation and Landscape Management Plan (2018) - Section 3.1.</p>	<p>Section 3.1 of the Rehabilitation and Landscape Management Plan (2018) describes in detail rehabilitation during years 2016 – 2021 only. Plan does not identify planned future rehabilitation works.</p> <p>NC2 Recommendation:</p> <p>As per NC6</p>	NC20

Table 3.2 **Non-compliances**

Section	Requirement	Evidence	Findings/recommendations	Unique non-compliance identification number
EPL 12939				
P1.2	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.	Annual Review 2020, 2021, 2022. 2023 Quarterly Monitoring Reports. Site observations.	<p>2021 All dust deposition (DD) gauges and high volume (HVAS) units were in operation. HVAS 1 failed to operate on 4 occasions during the year and HVAS 2 failed to operate on 1 occasion during the year. (Lynwood Quarry 2021 Annual Review).</p> <p>2022 All dust deposition (DD) gauges and high volume (HVAS) units were in operation. HVAS 1 failed to operate on 8 occasions during the year. (Lynwood Quarry 2022 Annual Review).</p> <p>2023 - All dust deposition (DD) gauges and high volume (HVAS) units were in operation. HVAS 1 failed to operate on 8 occasions during the year and HVAS 2 failed to operate on 2 occasions during the year (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS).</p> <p>In general, all points were monitored during the three year period. Occasional failures occurred at the high volume samplers (reported as LOW NON-COMPLIANCE in 2021 and 2022 Annual Reviews). Dust deposition gauges were not collected in June 2021 due to CV19 restrictions.</p> <p>NC21 Recommendation:</p> <p>As per NC3.</p>	NC21

Table 3.2 **Non-compliances**

Section	Requirement	Evidence	Findings/recommendations	Unique non-compliance identification number
L3.1	Noise generated at the premises must not exceed the noise limits presented in the table below:	<p>2021 - attended monitoring undertaken 4 times in the year at 4 representative locations (closest receivers). All compliant with agreed noise criteria. (Lynwood Quarry 2021 Annual Review / Noise Monitoring Assessment Quarterly Reports from 2021 (Muller Acoustic Consulting Pty Ltd (MAC)).</p> <p>2022- attended monitoring undertaken 4 times in the year at 4 representative locations (closest receivers). All compliant with agreed noise criteria. (Lynwood Quarry 2022 Annual Review / Noise Monitoring Assessment Quarterly Reports from 2022 (Muller Acoustic Consulting Pty Ltd (MAC) / Ramboll).</p> <p>2023 - attended monitoring undertaken 3 times in the year at 4 representative locations (closest receivers). All compliant with agreed noise criteria (Ramboll).</p> <p>(Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS / Noise Monitoring Assessment Quarterly Reports from 2023 (Ramboll)). Exceedance noted within spreadsheet.</p>	<p>4 receivers - representative as they are the closest 4 in each direction were monitored each year. No exceedances of the noise limits set were recorded due to the quarry; however, attended monitoring found occasional exceedance caused by bird noise, road traffic noise and rail (train) noise. These noise events were excluded from the results.</p> <p>In Sept 2023, a negligible exceedance (1dB) was observed at N1 during the evening monitored period with an estimated quarry contribution of 36 LAeq (15min) dBA against a criteria of 35 LAeq (15min) dBA. The LA1 quarry contribution also exceeded the LA1(1min) (dBA) criteria for all locations but it was noted that LA1 was dominated by birds, road traffic and/or a passing train at each location.</p> <p>NC2 Recommendation: As per NC2.</p>	NC22

Table 3.2 **Non-compliances**

Section	Requirement	Evidence	Findings/recommendations	Unique non-compliance identification number
M2.2	Air Monitoring Requirements (Note see EPL 12939 for criteria).	Annual Review 2020, 2021, 2022. (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS.	<p>2021 All dust deposition (DD) gauges were in operation to collect PM g/sqm/month and high volume (HVAS) units were in operation to collect a HV Sample of PM10 for 24 hours every 6 days . HVAS 1 failed to operate on 4 occasions during the year and HVAS 2 failed to operate on 1 occasion during the year. (Lynwood Quarry 2021 Annual Review).</p> <p>2022 All dust deposition (DD) gauges were in operation to collect PM g/sqm/month and high volume (HVAS) units were in operation to collect a HV Sample of PM10 for 24 hours every 6 days. HVAS 1 failed to operate on 8 occasions during the year. (Lynwood Quarry 2022 Annual Review).</p> <p>2023 - All dust deposition (DD) gauges were in operation to collect PM g/sqm/month and high volume (HVAS) units were in operation to collect a HV Sample of PM10 for 24 hours every 6 days. HVAS 1 failed to operate on 8 occasions during the year and HVAS 2 failed to operate on 2 occasions during the year (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS).</p> <p>NC23 Recommendation: As per NC3.</p>	NC23
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	Annual Review 2020, 2021, 2022, 2023. Site Incident management software package. Holcim website.	<p>No evidence of incidents or exceedances reported to EPA of EPL criteria during the audit period. Notable this includes ongoing failures of air quality and noise monitoring events. It is noted that incidents recorded within the information provided are unlikely to have caused environmental harm.</p> <p>NC24 Recommendation: Implement process to ensure EPA is notified of incidents in future.</p>	NC24

Table 3.2 **Non-compliances**

Section	Requirement	Evidence	Findings/recommendations	Unique non-compliance identification number
R2.2	<p>The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.</p> <p>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.</p>	<p>Annual Review 2020, 2021, 2022, 2023.</p> <p>Site Incident management software package.</p> <p>Holcim website.</p>	<p>No evidence of incidents or exceedances reported to EPA of EPL criteria during the audit period. Notable this includes ongoing failures of air quality and noise monitoring events. It is noted that incidents recorded within the information provided are unlikely to have caused environmental harm.</p> <p>NC25 Recommendation:</p> <p>As per NC24.</p>	NC25
U1.2	<p>Monitoring must be undertaken at HVAS1 and HVAS 2 as described in Condition P1.2.</p>	<p>Annual Review 2020, 2021, 20222023 Quarterly Monitoring ReportsSite observations.</p>	<p>2021 All dust deposition (DD) gauges and high volume (HVAS) units were in operation. HVAS 1 failed to operate on 4 occasions during the year and HVAS 2 failed to operate on 1 occasion during the year. (Lynwood Quarry 2021 Annual Review);</p> <p>2022 All dust deposition (DD) gauges and high volume (HVAS) units were in operation. HVAS 1 failed to operate on 8 occasions during the year. (Lynwood Quarry 2022 Annual Review); 2023 - All dust deposition (DD) gauges and high volume (HVAS) units were in operation. HVAS 1 failed to operate on 8 occasions during the year and HVAS 2 failed to operate on 2 occasions during the year (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS). In general, all points were monitored during the three year period. Occasional failures occurred at the high volume samplers (reported as LOW NON-COMPLIANCE in 2021 and 2022 Annual Reviews). Dust deposition gauges were not collected in June 2021 due to CV19 restrictions.</p> <p>NC26 Recommendation:</p> <p>As per NC3.</p>	NC26

Table 3.2 **Non-compliances**

Section	Requirement	Evidence	Findings/recommendations	Unique non-compliance identification number
U1.3	Monitoring must be undertaken using the same methodology as described in Condition M2.2.	Annual Review 2020, 2021, 2022 (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS.	<p>2022 All dust deposition (DD) gauges were in operation to collect PM g/sqm/month and high volume (HVAS) units were in operation to collect a HV Sample of PM10 for 24 hours every 6 days. HVAS 1 failed to operate on 4 occasions during the year and HVAS 2 failed to operate on 1 occasion during the year. (Lynwood Quarry 2021 Annual Review).</p> <p>2022 All dust deposition (DD) gauges were in operation to collect PM g/sqm/month and high volume (HVAS) units were in operation to collect a HV Sample of PM10 for 24 hours every 6 days. HVAS 1 failed to operate on 8 occasions during the year. (Lynwood Quarry 2022 Annual Review).</p> <p>2023 - All dust deposition (DD) gauges were in operation to collect PM g/sqm/month and high volume (HVAS) units were in operation to collect a HV Sample of PM10 for 24 hours every 6 days. HVAS 1 failed to operate on 8 occasions during the year and HVAS 2 failed to operate on 2 occasions during the year (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS).</p> <p>NC27 Recommendation:</p> <p>As per NC3.</p>	NC27

3.5 Previous audit recommendations

Table 3.3 outlines the audit recommendations that were made by Kleinfelder as part of the 2020 IEA.

Table 3.3 **Previous audit recommendations**

Condition reference	Aspect	Recommendation	Response	Completed?
Schedule 2, Condition 13a	Production data	<p>Recommendation 1</p> <p>Provide annual production data to DRG using the standard form for that purpose.</p>	Not actioned, see NC1.	No

Table 3.3 Previous audit recommendations

Condition reference	Aspect	Recommendation	Response	Completed?
Schedule 3, Condition 48, 48 (a), 48 (b), 48 (c)	Rehabilitation and Landscaping - Rehabilitation Bond	Recommendation 9 Review and if necessary, revise the bond to the satisfaction of the Secretary.	Not actioned, see NC8, NC9, NC10, NC11.	No
Schedule 3, Condition 48A (c)	Rehabilitation and Landscaping - Retirement of Biodiversity Credits	Recommendation 10 Consult with DPIE for how to close out the issue of non-retirement of credits.	Address under Modification 5 of DA 128-5-2005. No further credits required to be secured at this time.	Yes
Schedule 5, Condition 10	Reporting - Annual Review	Recommendation 19 A list of agencies that receive the AERs is included in the AERs.	Not actioned, see NC13	No
Appendix 7, 9(e)	Appendix 7: Detailed Heritage Conditions	Recommendation 20 Close this issue out with DPIE to avoid ongoing noncompliance issues at each audit. Ensure videos are taken during any future archaeological works on site.	Not actioned, see NC17	No
Appendix 11	Project Management and Mitigation Measures – Surface Water	Recommendation 21 Review and update the Lockyersleigh Creek Riparian Area Management Plan.	Document reviewed in 2018.	Yes
EPL M4.2	Project Management and Mitigation Measures – Surface Water	Recommendation 29 For each incident recorded, include the actions taken, or if no action taken state why not.	Holcim has implemented during the audit period a new incident and complaint software package across all operations. The requirements of EPL M4.2 are addressed within.	Yes
Schedule 3, Condition 4(b)	Noise - Noise Mitigation Measures	Recommendation 2 Record the detail of the noise complaint and ensure that they are closed out.	Holcim has implemented during the audit period a new incident and complaint software package across all operations. Historic complaints are addressed and closed out within Annual Reviews and incident register.	Yes

Table 3.3 Previous audit recommendations

Condition reference	Aspect	Recommendation	Response	Completed?
Schedule 3, Condition 5	Noise - Operating Hours	Recommendation 3 Ensure incidents listed in InControl are closed out.	Holcim has implemented during the audit period a new incident and complaint software package across all operations. Lead Auditor sighted evidence of incidents raised being closed out via the system.	Yes
Schedule 3, Condition 12	Air Quality -Impact Assessment Criteria	Recommendation 4 Close out all dust complaints in the incident register.	Holcim has implemented during the audit period a new incident and complaint software package across all operations. Historic complaints are addressed and closed out within Annual Reviews and incident register.	Yes
Schedule 3, Condition 18 (a)	Surface and Groundwater - Sediment Dams	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.	A review of Dams completed by GHD confirms dam sizing is consistent with DA128-5-2005. Revised naming conventions are now adopted through document.	Yes
Schedule 3, Condition 19 (b)	Surface and Groundwater - Operating Conditions	Recommendation 6 Suggestion to mark levels at 30 % if feasible or incorporate program for checking levels systematically.	Dam level pegs sighted by Lead Auditor during inspection.	Yes
Schedule 3, Condition 44 (c)	Rehabilitation and Landscaping – Rehabilitation and Landscape Management Plan	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.	Not actioned, see NC6.	No
Schedule 3, Condition 46	Rehabilitation and Landscaping – Rehabilitation and Landscape Management Plan	Recommendation 8 Ensure that the Rehabilitation and Landscape Management Plan is updated to the satisfaction of the secretary within 3 months of this audit.	Not actioned, see NC7.	No

Table 3.3 Previous audit recommendations

Condition reference	Aspect	Recommendation	Response	Completed?
Schedule 3, Condition 54	Waste Management	Recommendation 11 Edit wording of Waste Management and Minimisation Strategy to explicitly capture condition 54.	Action complete. Plan now inclusive of reference to condition.	Yes
Schedule 5, Condition 1A (b), 1A(c), 1A(d)	Evidence of Consultation	Recommendation 12 Append agency consultation to all future revisions of management plans.	Not actioned, see NC12.	No
Schedule 5, Condition 2 (a)	Management Plan Requirements	Recommendation 13 Provide previously collected detailed baseline data in any future management plan revisions.	Baseline data presented in latest revision of management plans.	Yes
Schedule 5, Condition 2 (e)	Management Plan Requirements	Recommendation 14 Provide contingency plans in any future management plan revisions if applicable to the plan.	Management plans detail management corrective actions as required should a non-compliance or event outside of a normal range is identified.	Yes
Schedule 5, Condition 2 (h)	Management Plan Requirements	Recommendation 15 Future updates to plans prepared prior to MOD4 should provide a protocol for periodic review.	Management plans identify review periods in accordance with DA128-5-2005.	Yes
Schedule 5, Condition 5	Revision of Strategies, Plans & Programs	Recommendation 16 Establish a register to ensure accurate tracking of strategy, plan and program updates against required timeframes.	Lead auditor sighted document confirming status of review of each management plan. Document is appended to correspondence to DPHI following submission of the Annual Reviews, confirm the review status.	Yes
Schedule 5, Condition 8	Reporting – Incident Reporting	Recommendation 17 PIRMP should be amended to include notification of the Secretary following an emergency incident, as per the requirements of this condition.	PIRMP includes notification procedures for incidents.	Yes
Schedule 5, Condition 10 (h)	Reporting – Annual Review	Recommendation 18 Future Annual Environmental Reviews should include information on the additional BioBanking (or equivalent) credits that will need to be purchased.	Credits retired and required to be retired consistent with the consent are detailed within the Annual Reviews.	Yes

Table 3.3 Previous audit recommendations

Condition reference	Aspect	Recommendation	Response	Completed?
Appendix 11, SOC	Appendix 11: Statement of Commitments – Modification Project Management and Mitigation Measures – Surface Water	Recommendation 22 The revised WMP (2020) should state if the guidelines for Water Reporting Requirements for Mines (NSW Office of Water, updated) have been used in the WMP (2020) development.	The WMP has been prepared reliant on current guidelines including the internal the Holcim Guideline Water Management. This internal document addresses the requirements of the Water Reporting Requirements for Mines (NSW Office of Water, updated) which is now a superseded guideline.	Yes
Appendix 11, SOC	Appendix 11: Statement of Commitments – Modification Project Management and Mitigation Measures – Surface Water	Recommendation 23 Close out revision to Water Management Plan and include relevant updates to surface water monitoring program.	WMP finalised in November 2020 and issued to DPHI in December 2020.	Yes
Appendix 11, SOC	Appendix 11: Statement of Commitments – Modification Project Management and Mitigation Measures – Surface Water	Recommendation 24 The website should be updated to show most recent revision of the Surface Water Monitoring Program if it was indeed approved.	Most recent version Surface Water Monitoring Program contained within the WMP finalised in November 2020.	Yes
Appendix 11, SOC	Appendix 11: Statement of Commitments – Modification Project Management and Mitigation Measures – Groundwater	Recommendation 25 Update the website to contain the revised Groundwater Management Plan (2018), or 2020 once approved.	Most recent version Groundwater Monitoring Program contained within the WMP finalised in November 2020.	Yes

Table 3.3 Previous audit recommendations

Condition reference	Aspect	Recommendation	Response	Completed?
Appendix 11, SOC	Appendix 11: Statement of Commitments – Modification Project Management and Mitigation Measures – Trust and Reputation	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.	Holcim website regularly updated within boarder company news during the audit period. CCC minutes uploaded quarterly providing an overview of operations, engagement activities and community support activities.	Yes
Appendix 11, SOC	Appendix 11: Statement of Commitments – Modification Project Management and Mitigation Measures – Visual Amenity	Recommendation 27 Close out the complaint from 20/02/2019 Recommendation: Ensure that enough detail is recorded for complaints in InControl.	Historic complaints closed out via Annual Reviews.	Yes
Appendix 11, SOC	Appendix 11: Statement of Commitments – Modification Project Management and Mitigation Measures – Gas Pipeline Hazard	Recommendation 28 Ensure pipelines are designed in accordance with relevant standards.	No gas pipeline interactions or installations during the audit period.	Yes
EPL M5.2	EPL	Recommendation 30 State clearly on the webpage that this number should be used if a community member has a complaint.	The community line is displayed on the Lynwood Quarry website: https://www.holcim.com.au/about-us/community-link/lynwood/contact-details	Yes.

3.6 EMP, sub-plans and compliance documents

To determine the adequacy of the management plans applicable to the operation of Lynwood Quarry, the EMM audit team conducted reviews of the following plans:

- Aboriginal Heritage Management Plan, Caring for Country (2022)
- Air Quality Management Plan (August 2023)
- Blast Management Plan (February 2020)
- Box Gum Woodland Management Plan (September 2013)
- Environmental Management Strategy (February 2020)
- Noise Management Plan (February 2020)
- Pollution Incident Response Management Plan (September 2019)
- Rehabilitation and Landscape Management Plan (May 2018)
 - Riparian Area Management Plan Joarimin Creek Catchment (2021)
 - Riparian Area Management Plan Lockyersleigh Creek Catchment Revision (June 2011)
 - Riparian Area Management Plan Marulan Creek Catchment Area (2011)
- Waste Management and Minimisation Strategy (2019)
- Water Management Plan (2020)
 - Groundwater Monitoring Program (2020)
 - Surface Water Monitoring Program (2020).

The adequacy and implementation of these plans were also assessed during the site inspection. EMM determined these plans to be adequate for operation and implemented appropriately.

Opportunities for improvement are discussed in detail in Section 3.10.

3.7 Consultation outcomes

Consultation was completed with the government agencies and the community consultative committee listed in Section 2.6. A summary of the consultation is included in Table 3.4, with evidence of consultation attached as Appendix B and Appendix C.

Table 3.4 **Consultation**

Agency/CCC member	Date	Method	Aspects/issues raised	Response
DPHI	1 December 2023	Email	Email from Holcim seeking approval of the audit team.	Response received from DPHI on 1 December 2023 – endorsing audit team.
	5 December 2023	Email	Email from Lead Auditor to DPHI, seeking confirmation of agencies to consult and any areas of particular focus to be included within the IEA scope.	<p>The following comments were received from DPE 11 December 2023:</p> <p>The auditor should consult with the following parties or agencies in the development of the IEA scope:</p> <ul style="list-style-type: none"> • Environment Protection Authority (EPA) • Goulburn Mulwaree Council (Council) • Department of Climate Change, Energy, Environment and Water (DCCEEW) – Water • Department of Primary Industries - Fisheries • Community Consultative Committee. <p>In addition, DPHI noted the area of environmental management that should be considered, in particular, includes management of air quality.</p>
	6 December 2023 and 12 December 2023	Email	<p>EMM issued letters to the below agencies and council seeking input to the IEA scope on 12 December 2023, the CCC was also contacted for input of 6 December 2023:</p> <ul style="list-style-type: none"> • Environment Protection Authority (EPA) • Goulburn Mulwaree Council (Council) • Department of Climate Change, Energy, Environment and Water (DCCEEW) – Water • Department of Primary Industries – Fisheries (DPI Fisheries) • Community Consultative Committee. <p>Response received from Council, DCCEEW Water and DPI Fisheries. All responses are summarised within this table. The EPA contacted the lead auditor to organise a teleconference rather than issue correspondence. The Lead</p>	Individual responses are detailed below.

Table 3.4 **Consultation**

Agency/CCC member	Date	Method	Aspects/issues raised	Response
			Auditor coordinate the meeting for 19 December 2023, however EPA representatives did not attend. Responses were not received from CCC members.	
Council	10 January 2024	Email	In response to correspondence from Lead Auditor requesting any advice regarding any areas of compliance or environmental management at Lynwood Quarry, that should be of particular focus and included within the IEA scope. Council noted that nothing has been brought to Council's attention in relation to Holcim's operations of the Lynwood Quarry. Council did note that Council has recently been made aware of potential development creep by Orica who we understand lease part of the site for the purposes of preparing explosive material. Council is in the process of preparing correspondence to Holcim in this regard.	No response required, matters relating to Orica are not subject of the audit.
DCCEEW – Water	15 December 2023	Email	In response to correspondence from Lead Auditor requesting any advice regarding any areas of compliance or environmental management at Lynwood Quarry, that should be of particular focus and included within the IEA scope. DCCEEW – Water requested that the audit address compliance with the following specific elements of the consent conditions and related legislative requirements in a manner consistent with the audit scope: <ul style="list-style-type: none"> The requirement to prepare and implement management plans that relate to water sources and their dependent ecosystems and users, and associated impact management and mitigation. These plans may include: <ul style="list-style-type: none"> Water Management Plans and related sub plans. Extraction Plans and related sub-plans. 	<ul style="list-style-type: none"> Lynwood Quarry operates under Water Management Plan (WMP, November 2020) approved November 2020 by DPHI. The WMP includes Surface and Groundwater Monitoring Programs. An extraction plan is not required. Trigger action response plans are identified within the WMP), and associated Surface and Groundwater Monitoring Programs. Water supply is confirmed in Section 4 of the Water Management Plan (November 2020). Water take at Lynwood Quarry is defined via the Water Balance discussed in Section 5 of the WMP. Take inconsideration of licenses held by Lynwood Quarry is summarised in Annual Reviews. Water meters are installed at all water extraction points being Johnniefields Dam and Supply Dams 1 and 2. Recording date and time and the volume of water taken. This was confirmed via site interviews. Annual reports confirm water take, use and source of water. In addition, Annual Reviews compare result to previous years and identify exceedances and proposed corrective measures as necessary.

Table 3.4 **Consultation**

Agency/CCC member	Date	Method	Aspects/issues raised	Response
			<ul style="list-style-type: none"> • The requirement to prepare and implement trigger action response plans for water source impacts which set clearly defined limits and actions. This is to be reported on within annual and exceedance-based reporting. • Water supply availability is clearly defined for the project. • Water take at the site via storage, diversion, interception or extraction is clearly document and authorised by a relevant Water Access License or exemption under the Wate Management (General) Regulation 2018. • Water metering at the site is in accordance with the NSW Non-Urban Metering Framework where relevant. • Water Access Licence/s used to account for water take by the project nominates the work where the water is being taken from. • Annual reporting clearly documents; 1) water take, use and water source impacts, 2) compares results with previous years, and 3) identifies exceedances and these are managed / mitigated.. 	

Table 3.4 **Consultation**

Agency/CCC member	Date	Method	Aspects/issues raised	Response
DPI - Fisheries	13 December 2023	Email	<p>In response to correspondence from Lead Auditor requesting any advice regarding any areas of compliance or environmental management at Lynwood Quarry, that should be of particular focus and included within the IEA scope.</p> <p>DPI Fisheries requested the IEA consider the following:</p> <ul style="list-style-type: none"> Audit should assess the adequacy of surface water quality treatment measures. In particular, the effectiveness of these measures to mitigate impacts to adjoining/downstream waterways. Event based sampling should be undertaken at downstream instream monitoring points and should be based on the ANZECC Guidelines. This sampling should specifically include TSS. DPI Fisheries recognises that Lynwood Quarry has an approval to discharge sediment basins with a limit of 50mg/L for TSS. However, it should be noted that sediment discharges of 50mg/l (well above ANZECC guidelines) result in detrimental impacts to aquatic habitat. As a matter of best practice Lynwood Quarry should be reviewing and improving their surface water management where levels are being recorded in excess of ANZECC guidelines. The IEA should also consider whether riparian protection measures are in place. 	<ul style="list-style-type: none"> Surface water quality treatments, namely capture and recycling of 'dirty' water, have been reviewed and considered adequate. No discharge of waters to the receiving environment occurred during the audit period. Surface water monitoring occurs at Lynwood Quarry in accordance with the Surface Water Monitoring Program, appended to the WMP and approved November 2022. Lynwood Quarry is approved to discharge water from sediment basins with a limit of 50mg/L for TSS, as noted by DPI Fisheries. This is reflected within WMP. Holcim has advised should a discharge event occur or is predicted to occur measures to reduce sediment load would be implement to reduce TSS levels as far practicable, via measured outlined in Table 4 of the WMP. Riparian protection matters are considered adequate noting the established Marulan Creek Catchment Area, Lockyersleigh Creek Catchment and Joarimin Creek Catchment Riparian Area Management Plans.
CCC Members	6/12/2023	Email	Email from EMM to CCC Members requesting any aspects they would like addressed in the IEA.	No responses received.

3.8 Complaints

A summary of the complaints received over the IEA period are outlined in Table 3.5.

Table 3.5 **Summary of complaints**

Aspect	2020 (after 30 September 2020)	2021	2022	2023	2024 (up to 1 February 2024)
Lighting	0	2	0	0	0

All complaints were satisfactorily followed up in accordance with the complaints management strategy outlined in Section 6.4 of the Environmental Management Strategy (EMS).

In accordance with Schedule 5, Condition 13 of Development Consent DA 128-5-2005, a summary of all complaints are uploaded to the Holcim website.

3.9 Incidents

Table 3.6 provides a summary of the environmental incidents which occurred during the Audit period, as reported within the Annual Reviews covering the audit period.

All incidents were reported within Annual Returns in accordance with Schedule 5, 10 (c) of Development Consent DA 128-5- 2005. Regarding Condition R2.2 of EPL 12939, not all incidents were reported to the EPA within 7 days.

Table 3.6 Incidents

Date	Incident	Action – as per Annual Returns
24 March 2021	Air quality monitoring PM10 sampling event missed on 24 March 2021 due to flooding causing HVAS 1 to become inaccessible.	Holcim notified DPE of an inability to capture Lockersleigh HVAS data due to flooding. As a result there was no data captured for 24 March 2021. DPE acknowledged the receipt of this notification on 7 April 2021.
March – July 2021	Air quality monitoring HVAS 1 did not sample every six days in 2021. 50 24-hour PM10 samples were taken in 2021 at HVAS 1.	HVAS 1 software error impacted sampling schedule, and therefore samples were not taken by unit on the correct dates. Monitoring contractor reported issue and followed up on unit errors across March to July 2021 to resolve the issues. Resolution of unit errors and calibration were delayed due to Covid19 restrictions preventing timely attendance to site.
June 2021	Air quality monitoring Depositional Dust monitoring was missed in June 2021 due to Covid-19 restrictions preventing access to the site.	Depositional dust monitoring is a monthly requirement from the Consent. The June 2021 could not be recorded due to interruptions from Covid-19. However, depositional dust results were consistently below the Consent criteria for all other months in 2021.
Throughout 2021	Water Quality Monitoring pH, TSS, or EC were not monitored at surface monitoring location SW8 on a quarterly basis.	Full monitoring was not undertaken at SW8 across 2021, resulting in some absent results. This is a low non-compliance because the full monitoring schedule outlined in the WMP was not implemented.
Throughout 2022	Air quality monitoring PM10 24-hour missed samples on: <ul style="list-style-type: none"> • 3 May 2022 • 31 May 2022 • 4 July 2022 • 6 July 2022 • 15 July 2022 • 22 July 2022 • 28 July 2022 • 3 August 2022. 	Samples across 2022 were missed due to the sample being invalidated as unit did not run for 24 hours.
Throughout 2022	Quality Monitoring pH, TSS, EC or oil and grease were not monitored at surface monitoring location SW8 on a quarterly basis.	Full monitoring was not undertaken at SW8 across 2022, due to the location being to dry. This is a low noncompliance because the full monitoring schedule outlined in the WMP was not implemented.

Table 3.6 Incidents

Date	Incident	Action – as per Annual Returns
6 December 2022	Noise Monitoring Night monitoring was not recorded at location N3.	Monitoring was not undertaken at location N3 during the night as the location was unable to be accessed.
Throughout 2023	Air Quality Monitoring Multiple invalidated or exceeded samples recorded during the 2023 reporting period. HVAS 1 PM10 missed samples occurred on: <ul style="list-style-type: none"> • 25 April 2023 • 6 July 2023 • 11 August 2023 • 17 August 2023 • 23 August 2023 • 16 September 2023 • 22 September 2023 • 4 October 2023. HVAS1 PM10 exceedance occurred on: <ul style="list-style-type: none"> • 25 April 2023 (58.4 µg/ m3). HVAS2 PM10 missed sample on: <ul style="list-style-type: none"> • 7 May 2023. HVAS 2 PM10 exceedance occurred on: <ul style="list-style-type: none"> • 24 February 2023 (63.4 µg/ m3). 	Samples across 2023 were missed due to the sample being invalidated as unit did not run for 24 hours. This was due to power supply issues to the stations, which has since been resolved. Both HVAS1 and HVAS2 recorded PM10 exceedances. Holcim believes that neither exceedance is due to quarry operations. All incidents were reported.
Multiple dates throughout 2023	Surface Water Management Plan Non-Compliance for failing to notify the Department of surface water exceedances during 2023 reporting period. (pH, and Oil and Grease.)	Holcim failed to notify the DPHI or EPA during the reporting period of consecutive exceedances above criteria levels Holcim will ensure that all consecutive exceedances are reported to Department and EPL in 2024
Multiple dates throughout 2023	Groundwater Monitoring Plan Non-Compliance for failing to notify the Department of ground water exceedances (pH).	Holcim failed to notify the DPHI or EPA during the reporting period of consecutive exceedances above criteria levels Holcim will ensure that all consecutive exceedances are reported to DPHI and EPA in 2024.

Table 3.6 **Incidents**

Date	Incident	Action – as per Annual Returns
September 2023	Independent Environmental Audit Lynwood failed to undertake the 2023 IEA within the time period specified by the development consent.	Holcim acknowledges that the IEA was unable to be conducted by September 2023. On 12 January 2024, EMM undertook the IEA for Lynwood Quarry.
Multiple dates throughout 2023	Incident Notification Holcim failed to notify the department of surface and ground water exceedances during the 2023 reporting period.	Holcim will ensure that any appropriate exceedances detailed in Management Plans will be notified to the Department.

3.10 Actual verses predicted environmental impacts

The 2020, 2021, 2022 and 2023 annual reviews were reviewed in order to undertake an assessment of the compliance between actual and predicted impacts documented in relevant environmental assessments, including an assessment of the physical extent of the development in comparison with the approved boundary and any potential off-site impacts of the development required under the EP&A Act.

The annual reviews confirm the physical extent of Lynwood Quarry lies within the approved boundary.

Section 3.9 outlines environmental incidents which occurred during the audit period, as outlined in annual reviews. The air quality, water and noise incidents outlined in Section 3.9, demonstrate potential for off-site impacts in excess of predicted environmental impacts. The 2020, 2021, 2022 and 2023 confirm corrective actions taken by Lynwood Quarry to reduce the risk of reoccurrence. Recommendations are made within this audit, see Chapter 4, to address any further non-compliances identified as part of this audit.

3.11 Site inspection

Areas inspected during the site inspection are identified within Section 2.5, with evidence collected through the site inspection summarised below.

Photographs of the below noted areas inspected are available in Appendix E.

i Access road

Inspection of the access road was undertaken by the lead auditor during access to and leaving the Lynwood Quarry. The Access Road was well sign posted and fenced. Appropriate signage identifying speed limits, blasting activities and caution regarding animals was sighted.

ii Infrastructure area (including administration area, workshops, fuel storage, waste management area)

Inspection of the Infrastructure area was undertaken by the lead auditor under escort by Lynwood Quarry representatives. The inspection included the site offices, carpark, workshop, wash down bays, store, fuel bay and sumps with waste oil separators. The inspection demonstrated that the Infrastructure area was maintained generally in accordance with approved management plans, being well organised and positive segregation of waste streams. Noting, chemical storage vessels were identified outside appropriately bunded areas.

iii Processing plant and stockpile areas

Inspection of the processing plant was undertaken by the lead under escort by Lynwood Quarry representatives. The inspection included the Run of Mine (ROM) pad, ROM hopper, crusher, transfer conveyors, product stockpiles and associated laydown areas.

The inspection demonstrated that the processing plant, stockpiles and associated infrastructure was maintained generally in accordance with approved management plans, being well organised and maintained. Dust controls were in place including water cart and sprays at the time of inspection.

iv Rail and road transport load out facilities

Inspection of the processing rail and road transport load out facilities was undertaken by the lead under escort by Lynwood Quarry representatives. The inspection included both the rail load out bin, areas in which trucks are loaded via loader and associated refuelling and washdown bay for trucks.

The inspection demonstrated that the rail and road transport load out facilities was maintained generally in accordance with approved management plans, being well organised and maintained. During the audit truck loading and washdown prior to leaving site was sighted. No train loading was sighted during the inspection.

v Western and eastern excess product emplacement areas

Inspection of the western and eastern excess product emplacement areas was undertaken by the lead under escort by Lynwood Quarry representatives.

The inspection demonstrated that the excess product emplacement areas are maintained generally in accordance with approved management plans and actively relied upon by the operations. Stockpiles within the emplacement areas are managed as to reduce dust potential. The emplacement areas are largely located on hard stand and bunded, with surface runoff directed to the quarry water management system.

vi Southern overburden emplacement areas

Inspection of the southern emplacement area was undertaken by the lead under escort by Lynwood Quarry representatives.

The inspection demonstrated that the emplacement area is largely still in use and has not been subject to significant rehabilitation activities consistent with approved management plans. Weeds were sighted during the inspection of the overburden emplacement areas, as was evidence of weed management. Drainage lines within the emplacement areas were subject of erosion, however this is expected noting significant rehabilitation activities have not occurred to date. The southern overburden emplacement area was adequately bunded, catching surface water runoff, and directing to sediment structures.

vii Amenity bund

Inspection of the amenity bund was undertaken by the lead under escort by Lynwood Quarry representatives.

The inspection demonstrated that the amenity bund was maintained generally in accordance with approved management plans, with construction and revegetation occurring during the audit period. Revegetation appeared to have established well, with a diverse mix of grasses and tress species established. Minor weeds were sighted however as was management activities, via spraying.

viii Granite pit

Inspection of the granite pit was undertaken by the lead auditor and assistant auditor under escort by Lynwood Quarry representatives.

The inspection demonstrated that mining activities within the granite pit was undertaken generally in accordance with approved management plans. At the time of inspection, active mining activities were located within the granite pit, with quarry product being transported to the processing plant. Drilling was being undertaken on the bench below mining activities. Mulching and topsoil removal was not being undertaken at the time of inspection, however a previously cleared area prepared for mining activities was sighted, north-west of mining activities, site interviews confirmed this area was cleared prior to the audit period.

ix Supply dam

Inspection of the supply dam was undertaken by the lead auditor under escort Lynwood Quarry representatives.

The inspection demonstrated that the water storages were being operated in accordance with approved management plans.

Inspections of the sediment dams (SDs) A, E, F, and G1 were undertaken by the lead auditor under escort by Lynwood Quarry representatives.

The inspections demonstrated that SDs were being operated generally in accordance with approved management plans. Evidence of active management of sediment load and water levels within the SDs were sighted. SDs were also equipped with dewatering infrastructure, namely hoses with the pump itself shared between SDs. The lead auditor was provided evidence of fortnightly inspections of all SDs.

It is noted SD G1 at the time of inspection was full level with the spillway, following heavy rain in the lead up to the site inspection. Lynwood Quarry representatives, following the inspection, coordinated dewatering of the SD. The level of water within the SD G1 was raised as an internal incident and recorded within the Holcim incident management platform identifying corrective actions.

3.12 Site interviews

The audit site interviews were completed by the EMM audit team on 1 February 2024.. Interviews were conducted with Lynwood Quarry staff to verify compliance with relevant conditions. A summary of interviews conducted is outlined in Table 3.7.

Table 3.7 Site interviews summary

Name	Position	Interview matters
Wanye Beattie	Quarry Manager	<ul style="list-style-type: none"> • Overview of activities undertaken during the audit period. • Overview of Lynwood Quarry mining, processing and transport processes. • Overview of operational management systems to ensure environmental compliance. • Discussion on and provision of evidence to demonstrate compliance with relevant Development Consent and EPL. • Overview of how compliance conditions in regard to Aboriginal cultural heritage are satisfied. • Overview of Lynwood Quarry operational water management systems.
Dozie Egeonu	Environment Manager NSW & ACT	<ul style="list-style-type: none"> • Overview of operational management systems to ensure environmental compliance. • Discussion on and provision of evidence to demonstrate compliance with relevant Development Consent and EPL. • Discussion on and provision of evidence to demonstrate suitable corrective actions in regard to prior audit findings.
Mohsen Vafaei Fard	Support Services Supervisor	<ul style="list-style-type: none"> • Overview of environmental compliance data. • Overview of rehabilitation and biodiversity management practices. • Discussion on and provision of evidence in regard to preliminary non-compliances identified prior to the site visit and receipt of data. • Overview of complaint management process and internal procedures to address. • Overview of biodiversity management practices. • Overview of ground disturbance procedures. • Overview of Lynwood Quarry operational water management systems.

3.13 Opening and closing meetings

Opening and closing meetings were held at the commencement and closure of the site visit. Opening and closing meeting attendees are outlined in Table 3.8.

Table 3.8 Opening and closing meeting attendance

Name	Position
Wanye Beattie	Quarry Manager
Dozie Egeonu	Environment Manager NSW & ACT
Mohsen Vafaei Fard	Support Services Supervisor
Thomas Frankham	Lead Auditor and Associate Environmental Scientist

3.14 Improvement opportunities

Key opportunities for improvements identified during the audit are noted in the following sections.

3.14.1 Air quality

Air quality monitoring during the audit period failed to capture a significant number of sampling events as required un the DA128-5-2005 and EPL 12939. Majority of failed data capture events related to high volume air samplers (HVASs).

It is recommended that Lynwood Quarry, as outlined by the NC3 Recommendation within Table 3.2, investigate the root cause of the HVAS failures and appropriately action corrective measures. It is understood that a number of failed sampling events relate to power supply which Lynwood Quarry is currently in the process of improving. However, it is noted that historically some of the failed sampling attempts related to the run time of the HVAS or the days set. This may be improved by detailed operating procedures to reduce the risk of operator error.

3.14.2 Water management

During the site inspection it was noted that SD G1 was full to level with the spillway.

It is recommended, as outlined by the NC5 Recommendation within Table 3.2, rainfall event-based inspections of SDs be implemented to ensure that adequate capacity is maintained to reduce the risk of discharge events.

It is noted that following the audit period Holcim has revised the fortnightly inspection form to confirm capacities to be maintained.

3.14.3 Waste

A number of 1,000 L pods located around the infrastructure area and processing plant (some full, some mostly empty) were observed outside of appropriate storage areas during the site inspection. It is noted that these largely contained truck wash or dust binding agents, no fuel or oil 1,000 L pods were identified.

It is recommended to minimise potential spill incidents 1,000 L pods are appropriately stored in bunded areas.

3.15 Key strengths

Key strengths of Lynwood Quarry's environmental management and performance identified during the audit are identified in the following sections.

3.15.1 Noise, blast and vibration

The NMP is generally consistent with current best practice, concluding that Lynwood Quarry has been operated and managed in a competent manner from an acoustic perspective. This demonstrated by only one minor non-compliance of criteria under EPL 12939 and no noise complaints received during the audit period.

3.15.2 Air quality

Lynwood Quarry appears to be implementing their dust mitigation measures on-site as stated in their AQMP. Failed sampling events have occurred, however, at the time of the audit inspection minimal dust was observed. In addition it is noted that no dust complaints were received during the audit period. A significant improvement to previous audit periods.

3.15.3 Waste

Lynwood Quarry's segregation of waste streams was noted as a key strength during the site inspection. A number of waste bins of numerous types (i.e. general, steel, paper, oily rags, etc.) were inspected during the audit, with no misplaced waste identified.

4 Recommendations

4.1 Non-compliances

Details of all non-compliances associated with this 2023 IEA can be found in Section 3.4. Where a non-compliance was identified, a recommendation for improvement was made. This is detailed below in Section 4.2.

4.2 Opportunities for improvement

Table 4.1 lists the recommendations made as part of the 2023 IEA.

Table 4.1 Recommendations

Recommendation number	Recommendations
NC1 Recommendation	<ul style="list-style-type: none">• Ensure annual quarry data is provided to DRG once portal is active.
NC2 Recommendation (Note; this recommendation addresses NC6, NC22)	<ul style="list-style-type: none">• Review noise monitoring locations – should road and traffic noise be considered an issue an alternative location may be appropriate.
NC3 Recommendation (Note; this recommendation addresses NC4, NC21, NC23, NC26 and NC27)	<ul style="list-style-type: none">• Determine root cause of the HVAS failures and appropriately action corrective measures. It is understood that a number of failed sampling events relate to power supply which Lynwood Quarry is currently in the process of improving. However, it is noted that a number of failed sampling attempts related to the run time of the HVAS or the days set. This may be improved by detailed operating procedures to reduce the risk of operator error.• Review DDG data, should a result be contaminated remove the result from the annual average data set as this appears to be artificially increasing the average values.
NC5 Recommendation	<ul style="list-style-type: none">• It is recommended event based inspections of SDs be implemented to ensure that adequate capacity is maintained to reduce the risk of discharge events.
NC6 Recommendation	<ul style="list-style-type: none">• Section 3.1 of the Rehabilitation and Landscape Management Plan (2018) to be updated to account for next 5 years, i.e. 2024 to 2029.
NC7 Recommendation	<ul style="list-style-type: none">• Ensure management plans, following updates if required, are issued to DPHI following IEAs.
NC8 Recommendation (Note; this recommendation also addresses NC9, NC10 and NC11)	<ul style="list-style-type: none">• Review and if necessary revise the rehabilitation bond to the satisfaction of the Secretary.
NC12 Recommendation	<ul style="list-style-type: none">• Ensure revisions of management plans, if required, are documented and communicated to DPHI. It is noted this recommendation relates to revision of management plans following IEAs.
NC13 Recommendation	<ul style="list-style-type: none">• Ensure AERs are issued to Council.
NC14 Recommendation	<ul style="list-style-type: none">• Ensure IEA lead auditor engaged prior to the end of the audit period in future.

Table 4.1 Recommendations

Recommendation number	Recommendations
NC15 Recommendation (Note; this recommendation also addresses NC16)	<ul style="list-style-type: none"> • Upload response to IEAs to Holcim website if available. • It is noted previous IEAs, not available online during the audit period, have since been uploaded to the Holcim website requiring no further action.
NC17 Recommendation	<ul style="list-style-type: none"> • As per previous audit Holcim to action previous recommendation outlined below: <i>Recommendation 20 : Close this issue out with DPHI to avoid ongoing on compliance issues at each audit. Ensure videos are taken during any future archaeological works on site.</i>
NC18 Recommendation	<ul style="list-style-type: none"> • Ensure noise consultant engaged for quarterly assessments relies on meteorological station required under condition 15A of Schedule 3.
NC19 Recommendation	<ul style="list-style-type: none"> • Implement periodic community engagement surveys and community newsletters.
NC24 Recommendation (Note; this recommendation addresses NC25)	<ul style="list-style-type: none"> • Implement process to ensure EPA is notified of incidents in future.

5 Conclusion

An independent environmental audit of Lynwood Quarry was undertaken to meet the requirements of Schedule 5, Condition 11 of DA 128-5-2005 as modified originally approved by the Minister for Planning on 21 December 2005 and the relevant policies and guidelines.

Audit evidence was collected during a site inspection on 1 February 2024 and documents provided by Holcim before and after the inspection. The audit period was 30 September 2020 to 1 February 2024. During the audit period the quarry was in normal operational phase.

The matters raised during consultation with agencies at the start of the audit have generally been addressed.

The majority of non-compliances related to:

- documentation not meeting the requirements of DA 128-5-2005 including:
 - notification of incidents or exceedances of criteria to relevant agencies within required timeframes
 - recording/filing of all information required to demonstrate compliance
 - ensuring that all management plans are reviewed and updated within the stipulated timeframes
 - ensuring that the Holcim (Australia) website is kept up to date with all of the required information
- there were also a number of noise, air quality and water non-compliances during the audit period which have been subsequently addressed.

Overall, the quarry operation is generally being undertaken in a responsible manner and, with the exceptions noted above, in accordance with DA 128-5-2005 (including the attached Statement of Commitments) and EPL 12939.

The quarry personnel interviewed generally have a good appreciation of the quarry's DA and EPL conditions, and the quarry's EMS. The requirements of these documents are being applied in a manner that considers protection of the environment within the context of the site.

Recommendations have been provided to address all non-compliances where further actions are considered to be required. A number of recommendations have been provided based on observations that were not related to non-compliances.

Appendix A

DPHI authorisation of lead auditor

Our ref: DA128-5-2005-PA-53

Mr Dozie Egeonu

Environmental Manager

Holcim (Australia) Pty Ltd

Level 7 - 799

Pacific Highway

CHATSWOOD, NSW, 2067

01/12/2023

Sent via the Major Projects Portal only

Dear Mr Egeonu

Lynwood Quarry (DA 128-5-2005)

Independent Environmental Auditor 2023

I refer to your letter of 1 December 2023 seeking approval of Mr Thomas Frankham of EMM Consulting 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 Frankham, the Planning Secretary endorses the appointment of Mr Frankham to undertake the audit in accordance with Schedule 5, Condition 11 of the consent. This approval is conditional on Mr Frankham being independent of the development and maintaining a relevant industry accreditation as lead auditor.

Please ensure this correspondence is appended to the Independent Audit Report.

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 Audit Post Approval Requirements (Department 2020 or as updated). 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:

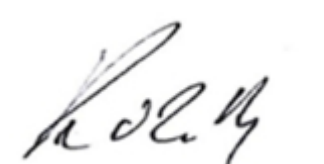
1. consultation with the relevant agencies and the CCC;
2. a compliance table indicating the compliance status of each condition of approval and any relevant EPL;
3. not use the term "partial compliance";
4. recommend actions in response to non-compliances;
5. review the adequacy of plans and programs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

Within 12 weeks of undertaking the site inspection, Holcim is to submit a copy of the audit report to the Planning 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 Planning Secretary, it is recommended that Holcim review the report to ensure it complies with the relevant consent condition.

Failure to meet these requirements will require revision and resubmission of the Audit Report.

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 B

Consultation records – public authorities

Our ref: DA128-5-2005-PA-55
Mr Wayne Beattie
Quarry Manager
Holcim (Australia) Pty Ltd
Level 8 - 799
Pacific Highway
CHATSWOOD, NSW, 2067

11/12/2023

Sent via the Major Projects Portal only
Dear Mr Beattie

**Lynwood Quarry (DA 128-5-2005)
Independent Environmental Audit 2023**

I refer to your letter of 5 December 2023 seeking confirmation of the relevant agencies required to be consulted and any areas of environmental management to be considered 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).

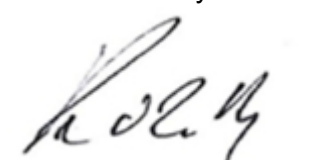
I advise that:

- the relevant agencies to be consulted may include: Environment Protection Authority, Goulburn Mulwaree Council, Department of Primary Industries Fisheries and Water or their successors, and the Community Consultative Committee;
- the area of environmental management that should be considered, in particular, includes management of air quality.

Notwithstanding the above, it is your responsibility to ensure the Independent Environmental Audit is undertaken in accordance with Schedule 5, Condition 11 of the consent.

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



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

12 December 2023

Department of Primary Industries - Fisheries
Via email: information-advisory@dpi.nsw.gov.au

Re: Lynwood Quarry (DA 128-5-2005) - Independent Environment Audit

Dear Officer

EMM Consulting (EMM) has been engaged by Lynwood Quarry to undertake the 2023 Independent Environmental Audit (IEA). The IEA is required in accordance with Schedule 5, Condition 11 of development consent DA 128-5-2005, as modified.

In accordance with Section 3.2 of the Department of Planning and Environment's (the Department) *Independent Audit – Post Approval Requirements* (2020), EMM has sought advice from the Department in regard to other parties or agencies who should be consulted to assist in informing the scope of the IEA. The Department has advised that the Department of Primary Industries - Fisheries (DPI - Fisheries) be consulted and advice sort regarding any areas of compliance or environmental management at Lynwood Quarry, that should be of particular focus and included within the IEA scope.

Broadly the current IEA scope includes:

- assessing the environmental performance of Lynwood Quarry and its compliance with DA 128-5-2005, Environment Protection Licence (EPL 12939), Mining Leases and Water Licences;
- reviewing the adequacy of strategies and all management plans or programs required under DA 128-5-2005 including whether Lynwood Quarry has met the progressive performance and completion criteria; and
- if necessary, recommending appropriate measures or actions to improve the environmental performance.

Scope considerations received from the DPI - Fisheries will be recorded and reported in the IEA, to be submitted to the Department and made publicly available.

It would be appreciated if the DPI - Fisheries could advise EMM of any IEA scope considerations by 19 December 2023, via the contact details provided below.

Thank you for your assistance in this matter.

Yours sincerely



Thomas Frankham
Associate Environmental Scientist | Certified Lead Auditor (Exemplar Global, CN 207528)
tfrankham@emmconsulting.com.au

12 December 2023

Lynwood Quarry – NSW Environmental Protection Authority
Via email: info@epa.nsw.gov.au

CC: Vanessa O'Keefe - Operations Officer

Via email - Vanessa.Keefe@epa.nsw.gov.au

Re: Lynwood Quarry (DA 128-5-2005) - Independent Environment Audit

Dear Officer

EMM Consulting (EMM) has been engaged by Lynwood Quarry to undertake the 2023 Independent Environmental Audit (IEA). The IEA is required in accordance with Schedule 5, Condition 11 of development consent DA 128-5-2005, as modified.

In accordance with Section 3.2 of the Department of Planning and Environment's (the Department) *Independent Audit – Post Approval Requirements* (2020), EMM has sought advice from the Department in regard to other parties or agencies who should be consulted to assist in informing the scope of the IEA. The Department has advised that the NSW Environmental Protection Agency (EPA) be consulted and advice sort regarding any areas of compliance or environmental management at Lynwood Quarry, that should be of particular focus and included within the IEA scope.

Broadly the current IEA scope includes:

- assessing the environmental performance of Lynwood Quarry and its compliance with DA 128-5-2005, Environment Protection Licence (EPL 12939), Mining Leases and Water Licences;
- reviewing the adequacy of strategies and all management plans or programs required under DA 128-5-2005 including whether Lynwood Quarry has met the progressive performance and completion criteria; and
- if necessary, recommending appropriate measures or actions to improve the environmental performance.

Scope considerations received from the EPA will be recorded and reported in the IEA, to be submitted to the Department and made publicly available.

It would be appreciated if the EPA could advise EMM of any IEA scope considerations by 19 December 2023, via the contact details provided below.

Thank you for your assistance in this matter.

Yours sincerely



Thomas Frankham

Associate Environmental Scientist | Certified Lead Auditor (Exemplar Global, CN 207528)

tfrankham@emmconsulting.com.au

12 December 2023

Goulburn Mulwaree Council
Via email: council@goulburn.nsw.gov.au

Re: Lynwood Quarry (DA 128-5-2005) - Independent Environment Audit

Dear Officer

EMM Consulting (EMM) has been engaged by Lynwood Quarry to undertake the 2023 Independent Environmental Audit (IEA). The IEA is required in accordance with Schedule 5, Condition 11 of development consent DA 128-5-2005, as modified.

In accordance with Section 3.2 of the Department of Planning and Environment's (the Department) *Independent Audit – Post Approval Requirements* (2020), EMM has sought advice from the Department in regard to other parties or agencies who should be consulted to assist in informing the scope of the IEA. The Department has advised that the Goulburn Mulwaree Council (Council) be consulted and advice sort regarding any areas of compliance or environmental management at Lynwood Quarry, that should be of particular focus and included within the IEA scope.

Broadly the current IEA scope includes:

- assessing the environmental performance of Lynwood Quarry and its compliance with DA 128-5-2005, Environment Protection Licence (EPL 12939), Mining Leases and Water Licences;
- reviewing the adequacy of strategies and all management plans or programs required under DA 128-5-2005 including whether Lynwood Quarry has met the progressive performance and completion criteria; and
- if necessary, recommending appropriate measures or actions to improve the environmental performance.

Scope considerations received from the Council will be recorded and reported in the IEA, to be submitted to the Department and made publicly available.

It would be appreciated if the Council could advise EMM of any IEA scope considerations by 19 December 2023, via the contact details provided below.

Thank you for your assistance in this matter.

Yours sincerely



Thomas Frankham
Associate Environmental Scientist | Certified Lead Auditor (Exemplar Global, CN 207528)
tfrankham@emmconsulting.com.au

12 December 2023

NSW Department of Planning and Environment, Water Division
via email: water.enquiries@dpie.nsw.gov.au

Re: Lynwood Quarry (DA 128-5-2005) - Independent Environment Audit

Dear Officer

EMM Consulting (EMM) has been engaged by Lynwood Quarry to undertake the 2023 Independent Environmental Audit (IEA). The IEA is required in accordance with Schedule 5, Condition 11 of development consent DA 128-5-2005, as modified.

In accordance with Section 3.2 of the Department of Planning and Environment's (the Department) *Independent Audit – Post Approval Requirements* (2020), EMM has sought advice from the Department in regard to other parties or agencies who should be consulted to assist in informing the scope of the IEA. The Department has advised that the Department of Planning and Environment – Water Division (DPE - Water) be consulted and advice sort regarding any areas of compliance or environmental management at Lynwood Quarry, that should be of particular focus and included within the IEA scope.

Broadly the current IEA scope includes:

- assessing the environmental performance of Lynwood Quarry and its compliance with DA 128-5-2005, Environment Protection Licence (EPL 12939), Mining Leases and Water Licences;
- reviewing the adequacy of strategies and all management plans or programs required under DA 128-5-2005 including whether Lynwood Quarry has met the progressive performance and completion criteria; and
- if necessary, recommending appropriate measures or actions to improve the environmental performance.

Scope considerations received from the DPE - Water will be recorded and reported in the IEA, to be submitted to the Department and made publicly available.

It would be appreciated if the DPE - Water could advise EMM of any IEA scope considerations by 19 December 2023, via the contact details provided below.

Thank you for your assistance in this matter.

Yours sincerely



Thomas Frankham

Associate Environmental Scientist | Certified Lead Auditor (Exemplar Global, CN 207528)

tfrankham@emmconsulting.com.au

DPI Fisheries - comment on scope of Lynwood Quarry - Independent Environmental Audit

Carla Ganassin <carla.ganassin@dpi.nsw.gov.au>

Wed 12/13/2023 9:10 AM

To: Thomas Frankham <tfrankham@emmconsulting.com.au>

CAUTION: This email originated outside of the Organisation.

Dear Thomas,

DPI Fisheries has received your request for advice on the scope of the Independent Environmental Audit to be conducted at Lynwood Quarry (Marulan).

This audit should assess the adequacy of surface water quality treatment measures. In particular, the effectiveness of these measures to mitigate impacts to adjoining/downstream waterways.

Event based sampling should be undertaken at downstream instream monitoring points and should be based on the ANZECC Guidelines. This sampling should specifically include TSS.

DPI Fisheries recognises that Lynwood Quarry has an approval to discharge sediment basins with a limit of 50mg/L for TSS. However, it should be noted that sediment discharges of 50mg/l (well above ANZECC guidelines) result in detrimental impacts to aquatic habitat. As a matter of best practice Lynwood Quarry should be reviewing and improving their surface water management where levels are being recorded in excess of ANZECC guidelines.

The Independent Environmental Audit should also consider whether riparian protection measures are in place.

Regards,

Carla Ganassin

Senior Fisheries Manager, Coastal Systems

DPI Fisheries | Aboriginal Fishing & Marine & Coastal Environments

Department of Regional NSW

T 4222 8342 M 0447 644 357 E carla.ganassin@dpi.nsw.gov.au

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Department of Primary Industries
Department of Regional NSW

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RE: E231253 - Lynwood Quarry IEA - Council Consultation

Scott Martin <Scott.Martin@goulburn.nsw.gov.au>

Wed 1/10/2024 11:53 AM

To: Thomas Frankham <tfrankham@emmconsulting.com.au>

Cc: Allan Young <ayoung@emmconsulting.com.au>; Michelle Frankham <mfrankham@emmconsulting.com.au>; Sarah Ainsworth <sarah.ainsworth@goulburn.nsw.gov.au>

CAUTION: This email originated outside of the Organisation.

Good Morning Tom

Thank you for your correspondence. I can confirm that during the reporting period there has been nothing brought to Council's attention in relation to Holcim's operations of the Lynwood Quarry.

I can advise however, that Council has recently been made aware of potential development creep by Orica who we understand lease part of the site for the purposes of preparing explosive material. Council is in the process of preparing correspondence to Holcim in this regard.

Please advise if you require any further information.

Kind regards



Scott Martin

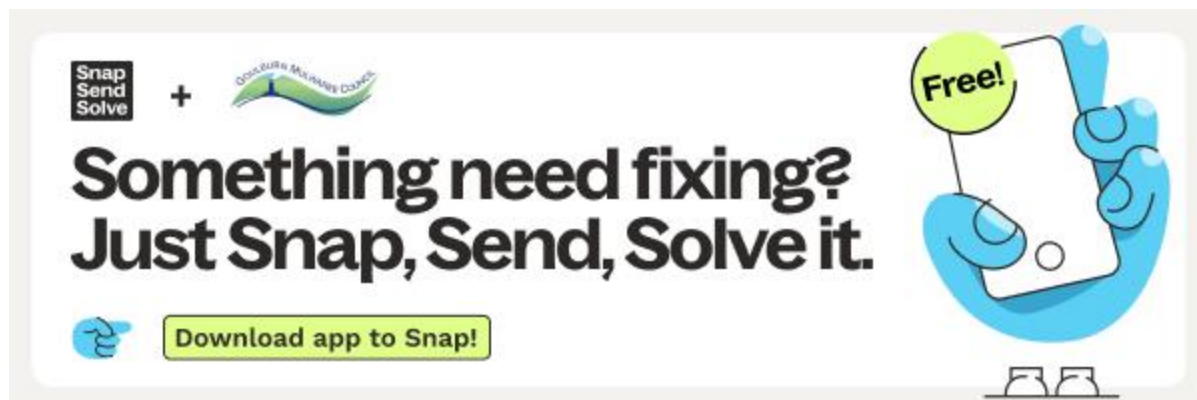
Director Planning & Environment

P 02 4823 4452

E Scott.Martin@goulburn.nsw.gov.au

www.goulburn.nsw.gov.au

Locked Bag 22 | Goulburn NSW 2580



Goulburn Mulwaree Council acknowledge the traditional custodians of the land where the Goulburn Mulwaree Local Government operates today and pay our respects to Elders past, present and emerging.

From: Thomas Frankham <tfrankham@emmconsulting.com.au>
Sent: Tuesday, 12 December 2023 12:47 PM
To: Council <Council@goulburn.nsw.gov.au>
Cc: Allan Young <ayoung@emmconsulting.com.au>; Michelle Frankham <mfrankham@emmconsulting.com.au>
Subject: E231253 - Lynwood Quarry IEA - Council Consultation

Hi,

Please see attached correspondence seeking agency input to the upcoming Holcim – Lynwood Quarry independent environmental audit, in accordance with Section 3.2 of the Department of Planning and Environment's Independent Audit – Post Approval Requirements (2020).

Should you have any questions regarding this correspondence please do not hesitate to contact me via the below details.

Regards,

Tom Frankham

Associate Environmental Scientist | Sector Lead - Critical Minerals



T 02 4907 4800
M 0408 358 854
LI [Connect on LinkedIn](#)
emmconsulting.com.au

NEWCASTLE | Awabakal Country, Level 3, 175 Scott Street, Newcastle NSW 2300



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Department of Planning and Environment

Our ref: OUT23/20418

Tom Frankham

EMM Consulting

Email: tfrankham@emmconsulting.com.au

15th December 2023

Subject: Lynwood Quarry 2023 Independent Environmental Audit (DA 128-5-2005)

Dear Tom,

I refer to your request seeking advice from the Department of Planning and Environment – Water (the department) on an upcoming audit for the above matter. It is understood this consultation is in accordance with conditions of approval for the project.

The department understands that the scope of the audit as outlined under the development consent and the reference guideline, "*Independent Audit Post Approval Requirements (2020)*" extends to at least the following:

- Identification of compliance requirements and documentation of any non-compliances.
- Assessment of the adequacy and implementation of management plans and sub plans.
- Assessment of compliance against relevant regulatory requirements and legislation.
- Assessment of compliance between actual and predicted impacts in the environmental assessment.
- Reporting requirements for management plans.
- Identification of strengths of the project in environmental management and opportunities for improvement.

The department requests that the audit address compliance with the following specific elements of the consent conditions and related legislative requirements in a manner consistent with the above audit scope:

- The requirement to prepare and implement management plans that relate to water sources and their dependent ecosystems and users, and associated impact management and mitigation. These plans may include:
 - Water Management Plans and related sub-plans eg. Site Water Balance, Erosion and Sediment Control Plan, Stormwater Management Plan, Surface and Groundwater Management Plan.
 - Extraction Plans and related sub-plans eg. Water Management Plan, Subsidence Management Plan.

Department of Planning and Environment

- The requirement to prepare and implement trigger action response plans for water source impacts which set clearly defined limits and actions. This is to be reported on within annual and exceedance based reporting.
- Water supply availability is clearly defined for the project.
- Water take at the site via storage, diversion, interception or extraction is clearly documented and is authorised by a relevant Water Access Licence or exemption under the Water Management (General) Regulation 2018.
- Water metering at the site is in accordance with the NSW Non-Urban Metering Framework where relevant.
- Water Access Licence/s used to account for water take by the project nominates the work where the water is being taken from.
- Annual reporting clearly documents; 1) water take, use and water source impacts, 2) compares results with previous year's, and 3) identifies exceedances and how these are managed/mitigated.

Should you have any further queries in relation to this submission please do not hesitate to contact DPE Water Assessments at water.assessments@dpie.nsw.gov.au

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Z. Baker".

Tim Baker
Senior Project Officer
Water Assessments
Department of Planning and Environment – Water

Appendix C

Consultation records – community

6 December 2023

Lynwood Quarry - Community Consultative Committee
Via email

Re: Lynwood Quarry (DA128-5-2005) - Independent Environment Audit

Dear Community Consultative Committee Member

EMM Consulting (EMM) has been engaged by Lynwood Quarry to undertake the 2023 Independent Environmental Audit (IEA). The IEA is required in accordance with Schedule 5 Condition 11 of development consent DA 128-5-2005 as modified, and is required to occur every 3 years. With the purpose of the IEA being to obtain an independent and objective assessment of the environmental performance and compliance status of Lynwood Quarry.

To assist in informing the IEA scope, EMM request that Community Consultative Committee (CCC) members please advise of any areas of compliance or environmental management at Lynwood Quarry, that should be of particular focus and included within the IEA scope.

Broadly the current IEA scope includes:

- to assess the environmental performance of Lynwood Quarry and its compliance with DA 128-5-2005, Environment Protection Licence (EPL 12939), Mining Leases and Water Licences;
- review the adequacy of strategies and all management plans or programs required under DA 128-5-2005 including whether Lynwood Quarry has met the progressive performance and completion criteria; and
- if necessary, recommend appropriate measures or actions to improve the environmental performance.

The IEA is to be conducted and reported to the satisfaction of the Secretary, Department of Planning and Environment (DPE), and will be conducted in accordance with the Independent Audit Post Approval Requirements (DPE, 2020).

Comments received from the CCC will be recorded and reported in the IEA, to be submitted to DPE and made publicly available. It would be appreciated if CCC members could advise of any considerations by 19 December 2023.

Thank you for your assistance in this matter.

Yours sincerely



Thomas Frankham

Associate Environmental Scientist | Certified Lead Auditor

tfrankham@emmconsulting.com.au

Appendix D

Audit compliance tables

Table A.1 - Development Consent DA 128-5-2005

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
SCHEDULE 2 - 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.	EMM did not note any permanent environmental harm during the site inspection.	No material and environmental harm occurred during the audit period.	Compliant	
TERMS OF APPROVAL					
2	The Applicant must carry out the development: (a) generally in accordance with the EIS, EA (Mod 1), EA (Mod 2), EA (Mod 3), EA (Mod 4) and EA (Mod 5); and (b) in accordance with the Development Layout Plan, the Statement of Commitments and the conditions of this consent. Notes: The Development Layout Plan is included in Appendix 2 The Statement of Commitments is included in Appendix 11	EIS, EA (MOD 1), EA (MOD 2), EA (MOD 3), EA (MOD 4), EA (MOD5) Project layout plans. Statement of Commitments.	The development was carried out in accordance with the approvals and Statement of Commitments.	Compliant	
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.	Review of approval documentation and consent.	EMM did not identify any inconsistencies with the requirements of the consent during the audit period.	Not triggered	
4	The Applicant shall comply with any reasonable requirement/s of the Secretary arising from the Department’s assessment of: (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent (including any stages of these documents); (b) any reviews, reports or audits commissioned by the Department regarding compliance with this consent; and (c) the implementation of any actions or measures contained in these documents.	Holcim confirmed that no requirements have been received from the Department during the audit period. Sighted evidence of submission of management plans to the Department annually during the audit period.	Holcim confirmed that no requirements have been received from the Department during the audit period. Sighted evidence of submission of management plans to the Department annually during the audit period.	Compliant	
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>	Site observation	Audit period within approved operating years.	Compliant	
6	Deleted	Notes			
7	The Applicant must not transport more than 5 million tonnes of products from the site in a year.	Annual Review 2020, 2021, 2022. Sighted 2023 monthly tonnages report.	Annual reports and 2023 monthly tonnages reports confirm product transported from the site was under 5 MT.	Compliant	
8	The Applicant must not transport more than 1.5 million tonnes of product from the site in a year by road.	Annual Review 2020, 2021, 2022. Sighted 2023 monthly tonnages report.	Annual reports and 2023 monthly tonnages reports confirm product transported from the site via road was under 1.5 MT.	Compliant	
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.	Annual Review 2020, 2021, 2022. Confirmed by Holcim no construction activates in 2023.	Minor upgrades to the processing plant and its equipment noted in the Annual Review 2021. Holcim confirmed this did not trigger any further approvals given the nature of the works related to the equipment not the structure.	Compliant	
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.	Annual Review 2020, 2021, 2022. Confirmed by Holcim no demolition activates in 2023.	N/A	Not triggered	
PROTECTION OF PUBLIC INFRASTRUCTURE					
11	Unless the Applicant and the applicable authority agree otherwise, the Applicant must: (a) repair, or pay all reasonable costs associated with repairing any public infrastructure that is damaged by the development; and (b) relocate, or pay all reasonable costs associated with relocating any public infrastructure that needs to be relocated as a result of the development.	Annual Review 2020, 2021, 2022 do not any damage to public infrastructure of requirement to pay costs. Confirmed by Holcim no demolition activates in 2023.	N/A	Not triggered	
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: (a) maintained in a proper and efficient conditions; and (b) operated in a proper and efficient manner.	Plant inspection sheets and OEM reports sighted. Sited maintenance activities during sight inspection.	OEM and plant inspection reports confirm equipment is received by site in working order and maintained.	Compliant	
PRODUCTION DATA					
13	The Applicant must: (a) provide annual quarry production data to DRG using the standard form for that purpose; and (b) include a copy of this data in the Annual Review.	Sighted extractive industry returns for 2019-20 and 2020-21.	It is noted that uploading of 2021-22 extractive industry return has not been possible as the portal is currently notactive as advised by correspondence from Department of Regional NSW to Holcim dated 17 October 2022,. This is non-complaine as the report has not been submitted however the issue rests with Department of Regional NSW.	Non-compliant	NC1
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.	Sighted induction materials.	Induction materials included acknowledgement of the consent and relevant environmental awareness considerations. Lead auditor also provided visitor induction which included acknowledgement of the Consent.	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: (a) engage an independent registered surveyor: • survey the boundaries of the approved limit of extraction; and • submit a survey plan of these boundaries to the Department; (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 these limits.	While no additional surveys were identified to the auditor, it is understood that the previous audit findings indicate compliance prior to development occurring. Appropriate identification of operation boundary sighted by auditor during site inspection.	Sighted previous audit findings and appropriate operational are fencing.	Compliant	
DEVELOPMENT IN THE RIPARIAN ZONE					
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).	Rehabilitation and Landscape Management Plan / Riparian Area Management Plan and associated approval letter.	Whilst approval has been secured no works within the noted riparian zones has been undertaken. Confirmed via site inspection of areas of Joarminim and Marulan Creek.	Compliant	
NOISE (Incorporates OEH GTA)					
Noise Limits					

	The Applicant must implement the management plan as approved from time to time by the Secretary.	Annual Review 2020, 2021, 2022. 2023 quarterly monitoring reports. Site observations.	The measures listed in the Noise Management Plan (2020) appear to have been implemented.	Compliant	
BLASTING AND VIBRATION (Incorporates OEH GTA)					
Airblast Overpressure Criteria					
7	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.	Annual Review 2020, 2021, 2022. 2023 monitoring results.	Annual reviews reported compliance. Monitoring data demonstrates compliance for 2023.	Compliant	
Ground Vibration Impact Assessment Criteria					
8	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.	Annual Review 2020, 2021, 2022. 2023 monitoring results.	Annual reviews reported compliance. Monitoring data demonstrates compliance for 2023.	Compliant	
	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.	Advised by Holcim no agreement exists	N/A	Not triggered	
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 DPE on 03/04/2020	Compliant	
9 (a)	(a) ensure that no fly rock leaves the site;	Blast Management Plan (February 2020)	No reports of fly rock leaving site. No complaints recorded regarding fly rock. Section 7 of Blast Management Plan notes that blast are designed to minimise fly rock.	Compliant	
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	
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) - specifically the Blast fume management Protocol, see Section 7.1 of BMP. Community complaints register. Sighted completed pre blast checklist. Annual Review 2020, 2021, 2022. 2023 monitoring results.	The 2021 and 2022 AERs and the 2023 monitoring data report compliance with the blast management plan. 3 community complaints received within the auditor period in 2020. Incident identified as closed.	Compliant	
Public Notice					
10	During the development, the Applicant must:				
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 notification produce and sighted examples dated 12.1.24 and 3.3.23 - notification sent via email to neighbours, nominated persons and staff.	Blast Management Plan (2020) states operational control is 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. Sighted evidence of blast notification on 12.1.24 and 3.3.23 - notification sent via email to neighbours, nominated persons and staff.	Compliant	
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/communitylink/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. Hotline tested 12/1 - Answered by Quarry Manager who provided details on blasting activities	Compliant	
10 (c)	(c) keep the public informed about this hotline (or any alternative system).	Blast Management Plan (February 2020) Blasting hotline phone number on Holcim's website; https://www.holcim.com.au/about-us/communitylink/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	
	to the satisfaction of the Secretary.	Blast Management Plan (February 2020)	The Blast management Plan has been updated and the updated plan was approved by DPE on 03/04/2020	Compliant	
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:	Blast Management Plan (February 2020) DPE approval of BMP from DPE dated 3/4/2020 (Approval letter)	Section 2 of BMP noted plan issued to DPE November 2016 and that further consultation has occurred annual in accordance with regular reviews.	Compliant	
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)	Section 2 of BMP noted plan issued to DPE November 2016 - original approval sits outside audit term.	Compliant	
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)	Section 8, BMP addresses Condition 11 (b)	Compliant	
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)	Section 8, BMP addresses Condition 11 (c)	Compliant	
11 (d)	(d) include a protocol for investigating and responding to complaints.	Blast Management Plan (February 2020)	Section 9.3, BMP addresses Condition 11 (b)	Compliant	

	The Applicant must implement the management plan as approved from time to time by the Secretary.		Blast Management Plan (February 2020)	Blast occurred on site during audit - blasting appeared to occur in accordance with BMP. Lack of blast related complaints suggested compliance.	Compliant																																								
AIR QUALITY (Incorporates OEh GTA)																																													
Impact Assessment Criteria																																													
12	<div>The Applicant must ensure that the criteria listed in Tables 6-8 at any residence that is located on privately-owned land.</div> <div><table><tr><th></th><th>Peak particle velocity (mm/s)</th><th>Allowable exceedance</th></tr><tr><td></td><td>5</td><td>5% of the total number of blasts over a period of 12 months</td></tr><tr><td></td><td>10</td><td>0%</td></tr></table><p>Construction works</p><p>Table 4: Ground vibration impact assessment criteria for residences on privately-owned land</p><table><tr><th></th><th>Peak particle velocity (mm/s)</th><th>Infrastructure</th></tr><tr><td>Topsoil/ overburden drilling</td><td></td><td></td></tr><tr><td>Blasting</td><td>25</td><td>Main Southern Railway Line Reservoir</td></tr><tr><td></td><td></td><td>Pipeline</td></tr></table><table><tr><th>Pollutant</th><th>Averaging period</th><th>Criterion</th></tr><tr><td>Total suspended particulate (TSP) matter</td><td>Annual</td><td>90 µg/m³</td></tr><tr><td>Particulate matter < 10 µm (PM10)</td><td>Annual</td><td>30 µg/m³</td></tr></table><p>Table 6: Long term impact assessment criteria for particulate matter</p><p>Notes:</p><ul style="list-style-type: none">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.Construction works within the Hume Highway reserve may be undertaken outside the hours specified in<table><tr><th>Pollutant</th><th>Averaging period</th><th>Criterion</th></tr><tr><td>Particulate matter < 10 µm (PM10)</td><td>24 hour</td><td>50 µg/m³</td></tr></table><p>Table 7: Short term impact assessment criteria for particulate matter</p><p>Table 8: Long term impact assessment criteria for deposited dust</p><table><tr><th>Pollutant</th><th>Averaging period</th><th>Maximum increase in deposited dust level</th><th>Maximum total deposited dust level</th></tr><tr><td>Deposited dust</td><td>Annual</td><td>2 g/m²/month</td><td>4 g/m²/month</td></tr></table><p>Table 8: Long term impact assessment criteria for deposited dust</p><p>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 Particulate Deposited Matter. Gravimetric Method</p></div> <div>Annual Review 2020, 2021, 2022. 2023 environmental monitoring database. Site observations.</div> <div>It is noted during the site visit minimal dust was noted and active controls in place. It is also noted that DDG6 has been removed as per correspondence to DPE from Holcim dated June 30 2023. A number of dust exceedances were recorded during the audit period, having being report in the 2020, 2021, 2022 Annual Reviews and evident in the 2023 monitoring database. Majority of incidents involved missed one off sampling events or likely contamination of samples. Notable exceedances are identified below: - DDG6 during 2022 exceed the annual average, recording 4.74(g/m2/month). Reported to DPE, likely contamination of samples. - HVAS1 missed sampling events a total of 8 times during 2022. Reported to DPE, due to inclement weather and solar power issues. -HVAS1 missed sampling events a total of 8 times during 2023. Reported to DPE, due to inclement weather and solar power issues.</div> <div>Non-compliant</div> <div>NC3</div>		Peak particle velocity (mm/s)	Allowable exceedance		5	5% of the total number of blasts over a period of 12 months		10	0%		Peak particle velocity (mm/s)	Infrastructure	Topsoil/ overburden drilling			Blasting	25	Main Southern Railway Line Reservoir			Pipeline	Pollutant	Averaging period	Criterion	Total suspended particulate (TSP) matter	Annual	90 µg/m³	Particulate matter < 10 µm (PM10)	Annual	30 µg/m³	Pollutant	Averaging period	Criterion	Particulate matter < 10 µm (PM10)	24 hour	50 µg/m³	Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level	Deposited dust	Annual	2 g/m²/month	4 g/m²/month
	Peak particle velocity (mm/s)	Allowable exceedance																																											
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Deposited dust	Annual	2 g/m²/month	4 g/m²/month																																										
Operating Conditions (Incorporates OEh GTA)																																													
13	The Applicant must:																																												
13 (a)	(a) implement best practice management to minimise the dust emissions of the development;	Air Quality Management Plan (August 2023). Annual Review 2020, 2021, 2022. 2023 environmental monitoring database. Site observations.		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																																								
13 (b)	(b) carry out periodic air quality monitoring to determine whether the development is complying with the relevant conditions of this consent;	Air Quality Management Plan (August 2023). Annual Review 2020, 2021, 2022. 2023 environmental monitoring database. Site observations.		Ongoing monitoring is in place.	Compliant																																								
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;	Air Quality Management Plan (August 2023). Annual Review 2020, 2021, 2022. Site interviews. Proposed relocation options for HVAS2 at Lynwood Quarry (Ramboll 2023)		Annual Review 2020, 2021 and 2022 include review of air quality and meteorological monitoring data. Evidence of review of 2023 data within monitoring database. Observed review of data during site visit. Sighted Ramboll 2023 report assessing relocation options for HVAS2. Noting this was in appreciation of EPL condition U2.2	Compliant																																								
13 (d)	(d) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events; and	Air Quality Management Plan (August 2023). Annual Review 2020, 2021, 2022. 2023 environmental monitoring database. Site observations.		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																																								
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		Sighted outcomes of rehabilitation works on the visual bund. Sighted tree planting in previously disturbed areas. Disturbance activities in active mining areas appear to be minimised as far as practicable. Overburden emplacement are stabilised. The Air Quality Management Plan has been revised, submitted and pending approval at the time of audit.	Compliant																																								
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:	Site interviews		Not triggered confirmed by Holcim	Not triggered																																								
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	Site interviews		Not triggered confirmed by Holcim	Not triggered																																								
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.	Site interviews		Not triggered confirmed by Holcim	Not triggered																																								
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:	Air Quality Management Plan (August 2023).		The Air Quality Management Plan was revised in August 2023, with the 2022 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																																								
15 (a)	(a) be submitted to the Secretary for approval by 30 November 2016, unless otherwise agreed by the Secretary;	Air Quality Management Plan (August 2023).		Original approval outside of audit period, however is noted in the Air Quality Management Plan	Compliant																																								

15 (b)	(b) be prepared in consultation with the EPA;	Air Quality Management Plan (August 2023).	Section 2 of the revised Air Quality Management Plan states it was prepared in consultation with the EPA.	Compliant													
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;	Air Quality Management Plan (August 2023).	Section 3 and 6 of the revised Air Quality Management Plan	Compliant													
15 (d)	(d) describe the proposed air quality management system; and	Air Quality Management Plan (August 2023).	Section 6 of the revised Air Quality Management Plan	Compliant													
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	Air Quality Management Plan (August 2023).	Section 7 and 8 of the revised Air Quality Management Plan	Compliant													
	The Applicant must implement the management plan as approved from time to time by the Secretary.	Air Quality Management Plan (August 2023). Annual Review 2020, 2021, 2022. 2023 environmental monitoring database. Site observations.	Monitoring methods described in current and revised AQMPs (both sighted). Site observations identified air quality management measures are being implemented. It is however noted that during the audit period monitoring a number of failed monitoring events and incidents occurred as noted under Schedule 3, Condition 12.	Non-compliant	NC4												
METEOROLOGICAL MONITORING (Incorporates OEH GTA)																	
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.	Air Quality Management Plan (August 2023). Annual Review 2020, 2021, 2022. 2023 environmental monitoring database. Site observations.	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. The station uses telemetry to provide real time site weather data.	Compliant													
Greenhouse Gas Emissions																	
15B	The Applicant must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.	Site interviews.	There are a number of energy-saving programs on site including automatic lights. Holcim reports to the Department of the Environment and Energy - National Pollution Inventory (NPI) with a list of all emissions leaving the site. Management of greenhouse gas emissions is not mentioned in Holcim's Lynwood Quarry Air Quality Management Plan (August 2023), or the 2020, 2021, 2022 Annual Reviews.	Compliant													
SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs)																	
	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.	Site interviews.	Groundwater is not extracted at the site. Water is not extracted from water courses.	Not triggered													
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.	Annual Review 2020, 2021, 2022. 2023 environmental monitoring database.	No discharge events were reported in the 2020, 2021, 2022 Annual Reviews, nor reported to DPE during the audit period.	Compliant													
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><tr><th>Pollutant</th><th>Unit of measure</th><th>100 Percentile concentration limit</th></tr><tr><td>Total suspended solids</td><td>mg/L</td><td>50</td></tr><tr><td>PH</td><td>pH</td><td>6.5-8.5</td></tr><tr><td>Oil and grease</td><td>mg/L</td><td>10 or none visible</td></tr></table> Table 10: Surface Water Discharge Limits	Pollutant	Unit of measure	100 Percentile concentration limit	Total suspended solids	mg/L	50	PH	pH	6.5-8.5	Oil and grease	mg/L	10 or none visible	Annual Review 2020, 2021, 2022. 2023 environmental monitoring database.	No discharge events were reported in the 2020, 2021, 2022 Annual Reviews, nor reported to DPE during the audit period.	Compliant	
Pollutant	Unit of measure	100 Percentile concentration limit															
Total suspended solids	mg/L	50															
PH	pH	6.5-8.5															
Oil and grease	mg/L	10 or none visible															
Sediment Dams																	
18	The Applicant must ensure that:																
18 (a)	(a) Sediment Dams A, B and F are capable of treating the 90th percentile 5 day rainfall event; and	Previous 2019 IEA Audit Water Management Plan (November 2020) Site observations	Previous 2019 IEA identified compliance via letter from GHD to Holcim dated 21 May 2012. Water Management Plan (November 2020) notes sizing of dams, see Table 5, however is incomplete. Dam A design criteria is not identified and Dam B, not yet constructed is not acknowledged.	Compliant	REC1												
18 (b)	(b) Sediment Dams C, D and E are capable of treating the 1:20 year ARI Critical Duration Storm Event.	Previous 2019 IEA Audit Water Management Plan (November 2020) Site observations	Previous 2019 IEA identified compliance via letter from GHD to Holcim dated 21 May 2012. Water Management Plan (November 2020) notes sizing of dams against individual criteria. Dams C, D, and E are all listed as having Minimum Design Criteria that meet critical storm duration.	Compliant													
	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).	Previous 2019 IEA Audit Water Management Plan (November 2020) Site observations		Compliant													
Operating Conditions																	
19	The Applicant must:																
19 (a)	(a) ensure that the water collected in the Sediment Dams is pumped to the supply dams as soon as practicable;	Water Management Plan (November 2020) Site observations	Water Management Plan (November 2020), Section 6.1.2 notes sediment dams will be emptied via pump or gravity systems after rainfall events. During site inspection Sediment Dam F and Sediment Dam E were inspected and whilst not empty given recent rainfall were actively being managed. Sediment Dam G1 was also inspected and at the time of inspection was at capacity, with the water level, level with the spillway. Holcim Representatives D Egoneo and M Vafaei Fard, at the time advised that water discharging from Sediment Dam G1 reported internally to Sediment Dam F and did not discharge from site.	Non-compliant	NC5												

19 (b)	(b) ensure that the accumulated sediment in all the Sediment Dams is kept below 30% of their design capacity;	Water Management Plan (November 2020) Site observations Dam inspection forms	WMP (2020) states All sediment dams will be managed to ensure that accumulated sediment is kept below 30% of the dam design capacity Sighted multiple dam inspection forms following rainfall event triggers. Form includes consideration of sediment build up. Sighted evidence of dredging at Dam E.	Compliant	
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 interviews Water Management Plan (November 2020) Annual Review 2020, 2021, 2022. 2023 environmental monitoring database. Site interviews	Site observations demonstrated appropriate storage of chemicals. Bunded containers are in use. Spill response kits were sighted.	Compliant	
19 (d)	(d) not use any flocculants on site for water pollution control treatment without the written approval of OEH. <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 only	WMP (2020) states: Any proposed flocculent system will be discussed with the EPA prior to use. No reported discharges within the audit period or use within sediment dams within the audit period as reported by Holcim.	Compliant	
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 (November 2020)	Section 5.3 of the WMP (2020) describes the site water balance and Section 5.4 describes the process for external water licencing. Site interviews confirmed during audit period suitable water has been available to the operation, not exceeding predictions.	Compliant	
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:	Water Management Plan (November 2020)		Compliant	
20 (a)	(a) be prepared in consultation with the EPA, WaterNSW, DPI Water and DPI Fisheries;	Water Management Plan (November 2020) - Appendix 4	Holcim has consulted with all relevant agencies in preparing the 2020 Water Management Plan. Comments received on the draft plan were addressed and the final plan submitted to DPE in 2020.	Compliant	
20 (b)	(b) be submitted to the Secretary for approval by 30 November 2016, unless otherwise agreed by the Secretary;	Water Management Plan (November 2020) - Appendix 4	Original approval of the WMP sits outside of the audit term. It is understood the 2018 version of the plan was the last version of the plan to be formally endorsed by DPE. The WMP was updated in 2020 and issued to DPE for approval following receipt of comments from stakeholders. The most recent revision is from 2020 which is currently pending approval following inclusion of agency feedback. This is consistent with the previous audit findings.	Compliant	
20 (c)	(c) include a Water Balance;	Water Management Plan (November 2020) - Section 5.3	Sighted.	Compliant	
20 (d)	(d) include an Erosion and Sediment Control Plan;	Water Management Plan (November 2020) - Section 6	Sighted.	Compliant	
20 (e)	(e) include a Surface Water Monitoring Program;	Water Management Plan (November 2020) - Appendix 2	Sighted.	Compliant	
20 (f)	(f) include a Ground Water Monitoring Program; and	Water Management Plan (November 2020) - Appendix 3	Sighted.	Compliant	
20 (g)	(g) include a Surface and Ground Water Response Plan to address any potential adverse impacts associated with the development.	Water Management Plan (November 2020) - Section 8	Sighted.	Compliant	
	The Applicant must implement the management plan as approved from time to time by the Secretary.	Noted			
21	The Water Balance must:	Noted			
21 (a)	(a) include details of all water extracted (including water make), dewatered, transferred, used and/or discharged by quarry; and	Water Management Plan (November 2020) - Section 5	Sighted.	Compliant	
21 (b)	(b) describe measures to minimise water use by the development.	Water Management Plan (November 2020) - Section 5.5	Sighted.	Compliant	
22	The Erosion and Sediment Control Plan must:	Noted			
22 (a)	(a) be consistent with the requirements of the Landcom's <i>Managing Urban Stormwater: Soils and Construction manual</i> ;	Water Management Plan (November 2020)	Water Management Plan (2020) states works are consistent with Managing Urban Stormwater – Soils and Construction, Volume 1 (the Blue Book) (Landcom 2004)	Compliant	
22 (b)	(b) identify activities that could cause soil erosion and generate sediment;	Water Management Plan (November 2020) - Section 6	Sighted.	Compliant	
22 (c)	(c) describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters;	Water Management Plan (November 2020) - Section 6	Sighted.	Compliant	
22 (d)	(d) describe the location, function, and capacity of erosion and sediment control structures; and	Water Management Plan (November 2020) - Section 6	Sighted.	Compliant	
22 (e)	(e) describe what measures would be implemented to maintain (and if necessary decommission) the structures over time.	Water Management Plan (November 2020) - Section 9	Sighted.	Compliant	
23	The Surface Water Monitoring Program must include:	Noted			
23 (a)	(a) detailed baseline data on surface water flows and quality in Joarimin Creek, Lockyersleigh Creek, and Marulan Creek;	Water Management Plan (November 2020) - Appendix 2, Section 2.	Sighted.	Compliant	
23 (b)	(b) surface water impact assessment criteria;	Water Management Plan (November 2020) - Appendix 2	Sighted.	Compliant	
23 (c)	(c) a program to monitor surface water flows and quality;	Water Management Plan (November 2020) - Appendix 2	Sighted.	Compliant	
23 (d)	(d) a protocol for the investigation of identified exceedances of the surface water impact assessment criteria; and	Water Management Plan (November 2020) - Appendix 2	Sighted.	Compliant	
23 (e)	(e) a program to monitor the effectiveness of the Erosion and Sediment Control Plan.	Water Management Plan (November 2020) - Section 10	Sighted.	Compliant	
	<i>Note: Monitoring of surface flows to be completed by visual assessment.</i>	Noted			
24	The Ground Water Monitoring Program must include:	Water Management Plan (November 2020) - Appendix 3	Sighted.	Compliant	
24 (a)	(a) detailed baseline data on ground water levels, flows, and quality, based on statistical analysis;	Water Management Plan (November 2020) - Appendix 3	Sighted.	Compliant	
24 (b)	(b) groundwater impact assessment criteria for monitoring bores;	Water Management Plan (November 2020) - Appendix 3	Sighted.	Compliant	
24 (c)	(c) a program to monitor regional ground water levels and quality; and	Water Management Plan (November 2020) - Appendix 3	Sighted.	Compliant	
24 (d)	(d) a protocol for the investigation of identified exceedances of the groundwater impact assessment criteria.	Water Management Plan (November 2020) - Appendix 3	Sighted.	Compliant	
	<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 (November 2020) - Appendix 2 and 3	Water Management Plan (2020) Appendix 2 and Appendix 3 state the programs must be consistent wit the current version Approved Methods for the Sampling and Analysis of Water Pollutants in New South Wales.	Compliant	
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 Previous 2019 IEA Audit	Construction of the crossing was outside of the audit period. However, the 2019 IEA determined compliance.	Compliant	
TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs)					
Construction Traffic					
26	The Applicant must ensure that:	Noted			
26 (a)	(a) construction traffic on the temporary construction access is kept to a minimum;	Site Observations Site interviews	Construction/commissioning phase completed on 5 October 2015 outside of the audit period	Compliant	
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 Site interviews	Construction/commissioning phase completed on 5 October 2015 outside of the audit period	Compliant	
26 (c)	(c) all other traffic uses the construction site access prior to the commissioning of the proposed Hume Highway Interchange; and	Site Observations Site interviews	Access road used as other access option, Stoney Creek Rd, is now locked.	Compliant	
26 (d)	(d) where practicable, no heavy vehicle construction traffic movements occur on George Street during school zone times (ie between 8:00am to 9:30am and 2:30pm to 4:00pm on school days);	Site Observations Site interviews	Construction/commissioning phase completed on 5 October 2015 outside of the audit period	Compliant	

26 (e)	(e) heavy vehicle construction traffic using George Street does not exceed 40kph; and	Site Observations Site interviews	Construction/commissioning phase completed on 5 October 2015 outside of the audit period	Compliant	
26 (f)	(f) no traffic uses the construction site access once the proposed Hume Highway Interchange has been commissioned.	Site Observations Site interviews	The Hume Highway Interchange is used exclusively to access the site.	Compliant	
	<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>	Noted			
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.	Site Observations Site interviews	Construction/commissioning phase completed on 5 October 2015 outside of the audit period. The Hume Highway Interchange is now used exclusively to access the site.	Compliant	
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	Site Observations Site interviews	Construction/commissioning phase completed on 5 October 2015 outside of the audit period	Compliant	
Hume Highway Interchange					
29	The Applicant must:	Noted			
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 Site interviews	Construction/commissioning phase completed on 5 October 2015, outside of the audit period. The Hume Highway Interchange is now used exclusively to access the site.	Compliant	
29 (b)	(b) close the existing median and proclaimed access point on the Hume Highway,	Site Observations	Construction/commissioning phase completed on 5 October 2015, outside of the audit	Compliant	
	<i>Notes:</i> • 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 • 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.	Noted			
	• 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.	Noted			
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.	Site Observations Site interviews	Construction/commissioning phase completed on 5 October 2015, outside of the audit period. The Hume Highway Interchange is now used exclusively to access the site.	Compliant	
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.	Site interviews	No further works undertaken during audit period requiring approval.	Compliant	
Road Haulage					
32	The Applicant must ensure that all loaded vehicles entering or leaving the site are covered at all times.	Site Observations	Sighted truck leaving sighted with load covered	Compliant	
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 Site interviews	No debris was observed on roads leading to the site. Wheel wash was observed in operation on	Compliant	
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.	Annual Review 2020, 2021, 2022. Site Observations - Sighted hard copy transport records and digital tracking platform.	Hard copies of documents are archived at the weighbridge. Laden truck movements for each month are provided in the 2020, 2021, 2022 Annual Reviews. Digital tracking platform updated daily.	Compliant	
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.	Lynwood Quarry Aboriginal Heritage Management Plan, Caring for County (Umwelt 2022) Site Observations Site interviews	Exclusion fencing was observed throughout the site and is clearly signed as areas of cultural significance.	Compliant	
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:	Lynwood Quarry Aboriginal Heritage Management Plan, Caring for County (Umwelt 2022) Correspondence Holcim to DPE dated 30 June 2023, regarding management plan reviews.	Sighted current Aboriginal Heritage Management Plan, Caring for County (Umwelt 2022) and correspondence to DPE confirm no revision to the plan following the 2022 Annual Review.	Compliant	
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	Compliant	
35 (b)	(b) be prepared in consultation with OEH and local Aboriginal stakeholders;	Lynwood Quarry Aboriginal Heritage Management Plan, Caring for County (Umwelt 2022)	Section 1.3 of the approved Lynwood Quarry Aboriginal Heritage Management Plan (2022) confirms consultation with Register Aboriginal Parties. Section 1.4 of the approved Lynwood Quarry Aboriginal Heritage Management Plan (2022) confirms consultation with government agencies.	Compliant	
35 (c)	(c) be submitted to the Secretary for approval by 30 November 2016, unless the Secretary agrees otherwise;	Previous 2020 IEA Audit	Outside of audit period, previous 2019 IEA Audit confirms compliance.	Compliant	
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;	Lynwood Quarry Aboriginal Heritage Management Plan, Caring for County (Umwelt 2022)	Site observations sighted sign-posted and cordoned-off cultural heritage management zones.	Compliant	
	• a detailed archaeological salvage program for Aboriginal sites/objects will be managed and protected; and	Lynwood Quarry Aboriginal Heritage Management Plan, Caring for County (Umwelt 2022)	Section 3.1 of the Lynwood Quarry Aboriginal Heritage Management Plan, Caring for County (Umwelt 2022)	Compliant	
	• a description of the measures that would be implemented for:	Noted.		Compliant	
	protecting, monitoring and managing Aboriginal sites outside the approved disturbance area;	Lynwood Quarry Aboriginal Heritage Management Plan, Caring for County (Umwelt 2022)		Compliant	
	maintaining and managing reasonable access for Aboriginal stakeholders to cultural heritage items on site;	Lynwood Quarry Aboriginal Heritage Management Plan, Caring for County (Umwelt 2022)		Compliant	
	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;	Lynwood Quarry Aboriginal Heritage Management Plan, Caring for County (Umwelt 2022)		Compliant	
	ongoing consultation with local Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage; and	Lynwood Quarry Aboriginal Heritage Management Plan, Caring for County (Umwelt 2022)		Compliant	

	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.	Lynwood Quarry Aboriginal Heritage Management Plan, Caring for Country (Umwelt 2022) Site induction	Induction provided to auditor prior to inspecting site, induction inclusive of heritage considerations	Compliant	
	The Applicant must implement the management plan as approved from time to time by the Secretary.	Site Observations Site interviews		Compliant	
36	<i>deleted</i>				
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. Notes: <ul style="list-style-type: none">This monitoring only relates to topsoil stripping, not quarrying operations.For safety reasons, topsoil stripping may be undertaken before the commencement of development.	Annual Review 2020, 2021, 2022. Lynwood Quarry Aboriginal Heritage Management Plan, Caring for Country (Umwelt 2022) Site Observations Site interviews - W Beattie	No topsoil stripping occurred during the audit period. Lynwood Quarry Aboriginal Heritage Management Plan, Caring for Country (Umwelt 2022) does not reference Condition 37.	Compliant	
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 2020 IEA Audit	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/\$65/11. Confirmed by Heritage Branch 22/10/09)"	Compliant	
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	
	<i>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.</i>	Note			
40	In seeking this approval, the Applicant must submit the following information to the NSW Heritage Council:	Note			
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 2020 IEA Audit	Considered complete as per previous audit	Compliant	
40 (b)	(b) an Archaeological Assessment of the area to be impacted by the proposed interchange, that includes the:	Note			
	• nomination of an Excavation Director and archaeology team which will be approved by the Director of the NSW Heritage Office;	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	
	• assessment of the significance of the archaeological remains to be impacted within the development area,	Previous Audit Evidence: Nonindigenous archaeology assessment, Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak) 2006	Considered complete as per previous audit	Compliant	
	• plans and details of the location and depth of excavation works and assessment of the exact impact on potential archaeological remains;	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	
	• identification of research themes and identification of both site specific and general research questions,	Previous Audit Evidence: Nonindigenous archaeology assessment, Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak) 2006	Considered complete as per previous audit	Compliant	
	• 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: Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak) 2006	Considered complete as per previous audit	Compliant	
	• details of the proposed post-excavation methodology; and	Previous Audit Evidence: Nonindigenous archaeology assessment, Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak) 2006	Considered complete as per previous audit	Compliant	
	• details of the Interpretation Plan for the entire Old Marulan Township precinct.	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	
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 as per previous audit	Compliant	
Operating Conditions					
41	The Applicant must ensure that:	Note.			
41 (a)	(a) the development does not have any impact on: <ul style="list-style-type: none">the archaeological remains within the former Lot 1, DP210885;	Annual Review 2020, 2021, 2022.	The AERs report on European Heritage. The 2020, 21 and 22 AERs report no additional European Heritage management actions were undertaken during the report periods	Compliant	
	• heritage items MRNH1, MRNH2, and MRNH3;	Site interviews Previous Audit Evidence: Sighted letter from Heritage Branch_SheepDipMRNH1_ArtefactPolicy_20090907a_ltrLTR_CWC_Cess Pit_OldMarulan_August 2011	No activities undertaken within the area during the audit period. Considered complete as per previous audit.	Compliant	
	• 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	
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	
41 (c)	(c) the movement of machines across archaeologically sensitive areas is kept to a minimum.	Site Observations Site interviews	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	
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	Compliant	
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 Site interviews	Significant rehabilitation has not yet commenced.	Not triggered	
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	
44 (a)	(a) describe in general the short, medium, and long-term measures that would be implemented to:	Noted.			
	• rehabilitate the site;	Rehabilitation and Landscape Management Plan (2018) - Section 3		Compliant	
	• 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	
	• 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 2022) Ecological Monitoring of Nest Boxes Winter 2023 (SLR 2023)	59 nest boxes installed and were monitored by SLR in 2023. An additional 9 next boxes were monitored during the audit period, in excess of the hollow-bearing tress cleared.	Compliant	REC2
	• manage the remnant vegetation and habitat on the site; and	Rehabilitation and Landscape Management Plan (2018) - Section 3		Compliant	
	• landscape the site to mitigate any visual impacts of the development;	Rehabilitation and Landscape Management Plan (2018) - Section 3.5		Compliant	
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;	Rehabilitation and Landscape Management Plan (2018) - Section 3.6		Compliant	
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) - Section 3.1	Section 3.1 of the Rehabilitation and Landscape Management Plan (2018) describes in detail rehabilitation during years 2016 - 2021.	Non-compliant	NC6
44 (d)	describe how the performance of these measures would be monitored over time; and	Rehabilitation and Landscape Management Plan (2018) - Section 4		Compliant	
44 (e)	set completion criteria for the rehabilitation of the site.	Rehabilitation and Landscape Management Plan (2018) - Section 5		Compliant	
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 IEA 2020: Letter from Director-General DP&I approving management plans (4/4/2012), which included Riparian Area Management Plans Riparian Management Plan, Joarimin Creek Catchment Area, Rev 2, May 2018. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, May 2018. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.	Current version of plans updated by approved person Susan Shields.	Compliant	
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, May 2018. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, May 2018. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	
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, May 2018. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, May 2018. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	
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, May 2018. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, May 2018. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	
45 (d)	details of proposed staging of the works;	Riparian Management Plan, Joarimin Creek Catchment Area, Rev 2, May 2018. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, May 2018. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	
45 (e)	completion criteria for the rehabilitation of the riparian area;	Riparian Management Plan, Joarimin Creek Catchment Area, Rev 2, May 2018. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, May 2018. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	
45 (f)	a protocol for monitoring the performance of the rehabilitation over time.	Riparian Management Plan, Joarimin Creek Catchment Area, Rev 2, May 2018. Riparian Management Plan, Lockyersleigh Creek Catchment Area, Rev 2, May 2018. Riparian Management Plan, Marulan Creek Catchment Area, Rev 2, June 2011.		Compliant	

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.	No evidence provided.	No evidence sighted of updates to the Rehabilitation and Landscape Management Plan following the 2020 IEA.	Non-compliant	NC7
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)		Compliant	
	Notes: • 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.	Noted.			
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.	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	NC8
48 (a)	(a) the effects of inflation;	No evidence provided.	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	NC9
48 (b)	(b) any changes to the total area of disturbance; and	No evidence provided.	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	NC10
48 (c)	(c) the performance of the rehabilitation against the completion criteria of the Rehabilitation and Landscape Management Plan.	No evidence provided.	The auditor has not been provided any evidence of a bond review occurring following the previous audit.	Non-compliant	NC11
Retirement of Biodiversity Credits					
	Table 11. Biodiversity Credits to be retired				
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:	Previous audit evidence: Letter from DPIE 9 July 2018 Annual Review 2020, 2021, 2022.	The latest correspondence regarding the retirement of credits is as per the previous audit from July 2018. 2022 AER confirms no credits have been retired since this time.	Compliant	
48A (a)	(a) acquiring or retiring credits under the Biobanking Scheme in the TSC Act;	Note.			
48A (b)	(b) making payments into an offset fund that has been developed by the NSW Government; or	Note.			
48A (c)	(c) providing supplementary measures.	Note.			
	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).	Annual Review 2020, 2021, 2022.	AERs provide comment on number of credits retired in the reporting year.	Compliant	
	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	Annual Review 2020, 2021, 2022.	AERs confirm offsets are secured in relation to level of clearing undertaken. Consistent with M	Compliant	
	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	Annual Review 2020, 2021, 2022.	Total number of credits retired in 2018.	Compliant	
	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	Annual Review 2020, 2021, 2022.	AERs confirm offsets are secured in relation to level of clearing undertaken. Consistent with M	Compliant	
	Credit type: Ecosystem credits: Total: 3038 (2124 + 881 + 33)	Annual Review 2020, 2021, 2022.	AERs confirm offsets are secured in relation to level of clearing undertaken. Consistent with M	Compliant	
	Credit type: Species Credits: Squirrel Glider (Petaurus norfolcensis) Credits to be retired: 1725	Annual Review 2020, 2021, 2022.	Total number of credits retired in 2018.	Compliant	
	Credit type: Species Credits: Total: 1725	Annual Review 2020, 2021, 2022.	Total number of credits retired in 2018.	Compliant	
	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.	Note.			
VISUAL IMPACT					
Visual Amenity					
49	The Applicant must minimise the visual impacts of the development to the satisfaction of the Director-General.	Site observations Site interviews	Sighted earthen visual bund and sail bund approximate to the administration area. Lighting equipment installed as to avoid light spill.	Compliant	
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 Site interviews	Sighted earthen visual bund and sail visual bund approximate to the administration area. Lighting equipment installed as to avoid light spill.	Compliant	
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	
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	Nil sighted during site inspection	Compliant	
WASTE MANAGEMENT					
53	The Applicant must:				
53 (a)	(a) monitor the amount of waste generated by the development;	Annual Review 2020, 2021, 2022. Waste tracking records and invoices	The AERs report on the volumes of waste generated.	Compliant	
53 (b)	(b) investigate ways to minimise waste generated by the development;	Waste Management and Minimisation Strategy 2019		Compliant	
53 (c)	(c) implement reasonable and feasible measures to minimise waste generated by the development; and	Waste Management and Minimisation Strategy 2019		Compliant	
53 (d)	(d) report on waste management and minimisation in the Annual Review.	Annual Review 2020, 2021, 2022.		Compliant	
	to the satisfaction of the Secretary.	Noted			
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).	Site observations Site interviews	Waste removed from site by licensed contractor. Sighted evidence of appropriate waste segregation.	Compliant	
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 Sighted Dangerous Goods Register - only diesel volume is the trigger	Site observations indicated that materials are securely stored in specified locations.	Compliant	
Safety					
56	The Applicant must secure the development to ensure public safety to the satisfaction of the Director-General.	Site Observations	Audit did not identify any examples of concern. Sighted good signage and operation fenced.	Compliant	
Bushfire Management					

57	The Applicant must:	Note.			
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	
57(b)	assist the rural fire service and emergency services as much as possible if there is a fire on-site.	Site interviews	Waste removed from site by licensed contractor. Sighted evidence of appropriate waste segregation.	Compliant	
58	<i>deleted</i>	Note.			
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:	Site observations DA128-5-2005	Quarry approved to operate till 1 January 2038, as such condition not triggered during audit period.	Not triggered	
59 (a)	define the objectives and criteria for quarry closure;	Site observations DA128-5-2005	Quarry approved to operate till 1 January 2038, as such condition not triggered during audit period.	Not triggered	
59 (b)	investigate options for the future use of the site, including any final void/s;	Site observations DA128-5-2005	Quarry approved to operate till 1 January 2038, as such condition not triggered during audit period.	Not triggered	
59 (c)	describe the measures that would be implemented to minimise or manage the ongoing environmental effects of the development; and	Site observations DA128-5-2005	Quarry approved to operate till 1 January 2038, as such condition not triggered during audit period.	Not triggered	
59 (d)	describe how the performance of these measures would be monitored over time.	Site observations DA128-5-2005	Quarry approved to operate till 1 January 2038, as such condition not triggered during audit period.	Not triggered	
SCHEDULE 4 ADDITIONAL PROCEDURES					
NOTIFICATION OF LANDOWNERS					
1	As soon as practicable after obtaining monitoring results shown:				
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	Annual Review 2020, 2021, 2022. Incident notifications to DPE dated 11 December 2023, 22 May 2023, 13 January 2023	Exceedances reported in AERs, and those reported to DPE did not result in impacts to neighbouring landholders.	Not triggered	
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).	Annual Review 2020, 2021, 2022. Incident notifications to DPE dated 11 December 2023, 22 May 2023, 13 January 2023	Exceedances reported in AERs, and those reported to DPE did not result in impacts to neighbouring landholders. Incidents either a result of contamination or failed sample runs.	Not triggered	
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.	Annual Review 2020, 2021, 2022. Site interview - W Beattie	No such request made during the audit period as reported in AERs and confirmed via site int	Not triggered	
3	If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision the Applicant must:	Annual Review 2020, 2021, 2022. Site interview - W Beattie	No such request made during the audit period as reported in AERs and confirmed via site int	Not triggered	
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; andif the development is not complying with these criteria then identify measures that could be implemented to ensure compliance with the relevant criteria; and	Annual Review 2020, 2021, 2022. Site interview - W Beattie	No such request made during the audit period as reported in AERs and confirmed via site int	Not triggered	
3 (b)	(b) give the Secretary and landowner a copy of the independent review.	Annual Review 2020, 2021, 2022. Site interview - W Beattie	No such request made during the audit period as reported in AERs and confirmed via site int	Not triggered	
SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, MONITORING, AUDITING AND REPORTING					
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)	Previous IEA confirm Secretary approval of the document. Sighted correspondence to DPE dated 30 June 2023 issuing confirm no updates to the plan following submission of the 2022 Annual Review.	Compliant	
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;	Previous IEA 2020	Original approval outside of audit period, considered compliant on basis of findings of previo	Compliant	
1 (b)	(b) provide the strategic framework for the environmental management of the development;	Lynwood Quarry Environmental Management Strategy (Feb 2020) - Section 4		Compliant	
1 (c)	(c) identify the statutory approvals that apply to the development;	Lynwood Quarry Environmental Management Strategy (Feb 2020) - Section 3		Compliant	
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) - Section 6.1		Compliant	
1 (e)	(e) describe the procedures that would be implemented to:	Lynwood Quarry Environmental Management Strategy (Feb 2020)		Compliant	
	• keep the local community and relevant agencies informed about the operation and environmental performance of the development;	Lynwood Quarry Environmental Management Strategy (Feb 2020) - Section 6		Compliant	
	• receive, handle, respond to, and record complaints;	Lynwood Quarry Environmental Management Strategy (Feb 2020) - Section 6.4		Compliant	
	• resolve any disputes that may arise during the course of the development;	Lynwood Quarry Environmental Management Strategy (Feb 2020) - Section 6.4.2		Compliant	
	• respond to any non-compliance; and	Lynwood Quarry Environmental Management Strategy (Feb 2020) - Section 6 and 7		Compliant	
	• respond to emergencies; and	Lynwood Quarry Environmental Management Strategy (Feb 2020) - Section 6.7		Compliant	
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; anda clear plan depicting all the monitoring required to be carried out under the conditions of this consent.	Lynwood Quarry Environmental Management Strategy (Feb 2020) - Section 5.2		Compliant	
	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	
Evidence of Consultation					
1A	Where consultation with any public authority is required by the conditions of this consent, the Applicant must:	Note.			

1A (a)	(a) consult with the relevant public authority prior to submitting the required document to the Secretary for approval;	Air Quality Management Plan (Aug 2023) Aboriginal Heritage Management Plan (November 2022)	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.	Compliant	
1A (b)	(b) submit evidence of this consultation as part of the relevant document;	Air Quality Management Plan (Aug 2023) Aboriginal Heritage Management Plan (November 2022) Site interviews - D. Egeonu	Air Quality Management Plan (Aug 2023) - consultation with agencies outlined in Section 2 Aboriginal Heritage Management Plan (November 2022) - consultation with agencies outlined in Section 1.4 Neither management plan identifies feedback from consulted agencies nor was the auditor made aware during site interviews that feedback had been received.	Compliant	
1A (c)	(c) describe how matters raised by the authority have been addressed and any matters not resolved; and	Air Quality Management Plan (Aug 2023) Aboriginal Heritage Management Plan (November 2022) Site interviews - D. Egeonu	Air Quality Management Plan (Aug 2023) - consultation with agencies outlined in Section 2.3 outlies matters raised by EPA during reporting period and notes comments have been addressed in the revised document. Aboriginal Heritage Management Plan (November 2022) - consultation with agencies outlined in Section 1.4 - No feedback from agencies identified nor was the auditor made aware during site interviews that feedback had been received.	Compliant	
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.	Air Quality Management Plan (Aug 2023) Aboriginal Heritage Management Plan (Nov 2022) Site interviews - D. Egeonu	No outstanding matters identified in management plans updated during the audit period or identified via site interviews.	Compliant	
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:	Note.			
2 (a)	(a) detailed baseline data;	Air Quality Management Plan (Aug 2023) Aboriginal Heritage Management Plan (Nov2022) Lynwood Quarry Environmental Management Strategy (Feb 2020) Rehabilitation and Landscape Management Plan (2018) (RLMP). Noise Management Plan (Feb 2023) Blast Management Plan (Feb 2020) Water Management Plan (November 2020)		Compliant	
2 (b)	(b) a description of: <ul style="list-style-type: none"> the relevant statutory requirements (including any relevant approval, licence or lease conditions); any relevant limits or performance measures/criteria; and the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures; 	Air Quality Management Plan (Aug 2023) Aboriginal Heritage Management Plan (Nov2022) Lynwood Quarry Environmental Management Strategy (Feb 2020) Rehabilitation and Landscape Management Plan (2018) (RLMP). Noise Management Plan (Feb 2023) Blast Management Plan (Feb 2020) Water Management Plan (November 2020)		Compliant	
2 (c)	(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	Air Quality Management Plan (Aug 2023) Aboriginal Heritage Management Plan (Nov2022) Lynwood Quarry Environmental Management Strategy (Feb 2020) Rehabilitation and Landscape Management Plan (2018) (RLMP). Noise Management Plan (Feb 2023) Blast Management Plan (Feb 2020) Water Management Plan (November 2020)		Compliant	
2 (d)	(d) a program to monitor and report on the: <ul style="list-style-type: none"> impacts and environmental performance of the development; and effectiveness of any management measures (see (c) above) 	Air Quality Management Plan (Aug 2023) Aboriginal Heritage Management Plan (Nov2022) Lynwood Quarry Environmental Management Strategy (Feb 2020) Rehabilitation and Landscape Management Plan (2018) (RLMP). Noise Management Plan (Feb 2023) Blast Management Plan (Feb 2020) Water Management Plan (November 2020)		Compliant	
2 (e)	(e) a contingency plan to manage any unpredicted impacts and their consequences;	Air Quality Management Plan (Aug 2023) Aboriginal Heritage Management Plan (Nov2022) Lynwood Quarry Environmental Management Strategy (Feb 2020) Rehabilitation and Landscape Management Plan (2018) (RLMP). Noise Management Plan (Feb 2023) Blast Management Plan (Feb 2020) Water Management Plan (November 2020)		Compliant	

2 (f)	(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	Air Quality Management Plan (Aug 2023) Aboriginal Heritage Management Plan (Nov2022) Lynwood Quarry Environmental Management Strategy (Feb 2020) Rehabilitation and Landscape Management Plan (2018) (RLMP). Noise Management Plan (Feb 2023) Blast Management Plan (Feb 2020) Water Management Plan (November 2020)		Compliant	
2 (g)	(g) a protocol for managing and reporting any: <ul style="list-style-type: none"> incidents; complaints; non-compliances with statutory requirements; and exceedances of the impact assessment criteria and/or performance criteria; and 	Air Quality Management Plan (Aug 2023) Aboriginal Heritage Management Plan (Nov2022) Lynwood Quarry Environmental Management Strategy (Feb 2020) Rehabilitation and Landscape Management Plan (2018) (RLMP). Noise Management Plan (Feb 2023) Blast Management Plan (Feb 2020) Water Management Plan (November 2020)		Compliant	
2 (h)	(h) a protocol for periodic review of the plan.	Air Quality Management Plan (Aug 2023) Aboriginal Heritage Management Plan (Nov2022) Lynwood Quarry Environmental Management Strategy (Feb 2020) Rehabilitation and Landscape Management Plan (2018) (RLMP). Noise Management Plan (Feb 2023) Blast Management Plan (Feb 2020) Water Management Plan (November 2020)		Compliant	
	<i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i>	Note.			
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.			
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.			
	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.			
	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.			
REVISION OF STRATEGIES, PLANS & PROGRAMS					
5	Within 3 months of the submission of an: <ul style="list-style-type: none"> (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.	Annual Review 2020, 2021, 2022. Incident notifications to DPE dated 11 December 2023, 22 May 2023, 13 January 2023 Site interviews D. Egeonu	Sighted correspondence between Holcim and DPE confirm reviews of Management Plans following annual reviews. No evidence sighted of review of plans following incidents or previous audit. 2020 Annual Review notes an IEA Action plan is available as Appendix 3 of the document however is notes local funding initiatives not IEA actions	Non-compliant	NC12
	<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.			
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.			
	Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity:	Note.			
6 (a)	take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur;	Annual Review 2020, 2021, 2022. Incident notifications to DPE dated 11 December 2023, 22 May 2023, 13 January 2023	Sighted AERs and DPE incident notification letters for the audit period, each of which shows actions taken to minimise/control/report on exceedances. Proportionate to the exceedance identified.	Compliant	
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	Annual Review 2020, 2021, 2022. Incident notifications to DPE dated 11 December 2023, 22 May 2023, 13 January 2024	Sighted AERs and DPE incident notification letters for the audit period, each of which shows actions taken to minimise/control/report on exceedances. Proportionate to the exceedance identified.	Compliant	
6 (c)	implement remediation measures as directed by the Secretary,	Site interviews - D. Egeonu	No directions given during audit period.	Not triggered	
	to the satisfaction of the Secretary.	Note.			
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).	Annual Review 2020, 2021, 2022. CCC Meeting Minutes	AERs and CCC minutes identify meetings have occurred consistent with consent. CCC meetings pivoted to an online format during audit period in respect of Covid-19 lockdowns.	Compliant	
	Notes: <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.			
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 Annual Review 2020, 2021, 2022, 2023 Incident notifications to DPE dated 11 December 2023, 22 May 2023, 13 January 2024	Incidents appear to be managed as per the requirements. No incidents triggering the PRIMP or presenting material environmental harm identified during the audit period. It is noted Lynwood Quarry failed to notify DPHI of monitoring event incidents, these failures to notify are captured within the individual monitoring consent conditions. This conditions is interpreted as to relate to the triggering of the PIRMP or incidents which have caused or threaten to cause material environmental harm.	Compliant	
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 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals-reporting	Annual reports, monitoring data and management plans are provided on the Holcim website, along with community information.	Compliant	
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. <u>This review must:</u>	Annual Review 2020, 2021, 2022.	The Annual Review reporting period is agreed to be 1 January to 1 December each year.	Compliant	
10 (a)	(a) describe the development (including rehabilitation) that was carried out in the previous financial year, and the development that is <u>proposed to be carried out over the current financial year;</u>	Annual Review 2020, 2021, 2022, 2023		Compliant	
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; andthe relevant conditions in the documents listed in condition 2(a) of Schedule 2.	Annual Review 2020, 2021, 2022, 2023		Compliant	
10 (c)	(c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	Annual Review 2020, 2021, 2022, 2023		Compliant	
10 (d)	(d) identify any trends in the monitoring data over the life of the development;	Annual Review 2020, 2021, 2022, 2023		Compliant	
10 (e)	(e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any <u>significant discrepancies;</u>	Annual Review 2020, 2021, 2022, 2023		Compliant	
10 (f)	(f) describe what measures will be implemented over the current financial year to improve the environmental performance of the development.	Annual Review 2020, 2021, 2022, 2023		Compliant	
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;	Annual Review 2020, 2021, 2022, 2023		Compliant	
10 (h)	(h) calculate the number of additional BioBanking (or equivalent) credits that will need to be purchased, before that clearing can be done; <u>and</u>	Annual Review 2020, 2021, 2022, 2023		Compliant	
10 (i)	(i) report on the number of BioBanking (or equivalent) credits that have been purchased to allow ongoing clearing and completion of <u>stages.</u>	Annual Review 2020, 2021, 2022, 2023		Compliant	
10 (i)	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.	Annual Review 2020, 2021, 2022, 2023	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	NC13
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 4 December 2023, and was originally scheduled for the week the 11th of December 2023. However due to personal circumstances the auditor could not undertake the audit till 11 January 2024.	Non-compliant	NC14
11 (a)	(a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;	DPE Letter dated 1 December 2023, approving audit team.		Compliant	
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	
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);	This audit.	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	
11 (d)	(d) review the adequacy of any approved strategy, plan or program required under the these approvals;	This audit.	The adequacy of approved strategies, plans and programs required under the these approvals	Compliant	
11 (e)	(e) recommend measures or actions to improve the environmental performance of the development, and/or any assessment, plan or <u>program required under these approvals; and</u>	This audit.	Recommendations provided in the audit report.	Compliant	
11 (f)	(f) be conducted and reported to the satisfaction of the Secretary.		To be confirmed by DPHI following submission of the audit.	Compliant	
	<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.			
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 <u>in the audit report.</u>		Audit submitted within 12 weeks of site inspection.	Compliant	
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:				
13 (a)	a) make the following information publicly available on its website:	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals-reporting	Documents available online	Compliant	
	• the documents listed in condition 2(a) of Schedule 2;	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals-reporting	Documents available online	Compliant	
	• current statutory approvals for the development;	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals-reporting	Documents available online	Compliant	
	• approved strategies, plans or programs;	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals-reporting	Documents available online	Compliant	

	• 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;	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Documents available online	Compliant	
	• a complaints register, which is to be updated on a quarterly basis;	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Documents available online	Compliant	
	• the Annual Reviews (over the last 5 years);	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Only 2020, 2021 and 2022 AERs available online	Non-compliant	NC15
	• any independent environmental audit, and the Applicant's response to the recommendations in any audit;	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	2012, 2015, 2019, and 2020 IEAs available online. No response to audits available.	Non-compliant	NC16
	• any other matter required by the Secretary; and	Note.			
	• keep this information up-to-date,	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Website up to date when accessed 12 January 2023.	Compliant	
	to the satisfaction of the Secretary.	Note.			
APPENDIX 1: SCHEDULE OF LAND					
	Includes a list of all Lot, DP numbers as well as Owner details	Note.			
APPENDIX 2: DEVELOPMENT LAYOUT [Map figure]					
APPENDIX 3: NOISE RECEIVER LOCATIONS [Map figure]					
APPENDIX 4: LOCATION OF SEDIMENT DAMS [Map figure]					
APPENDIX 5: CONSTRUCTION TRAFFIC ROUTES [Map figure]					
APPENDIX 6: CULTURAL HERITAGE MANAGEMENT ZONE [Map figure]					
APPENDIX 7: DETAILED HERITAGE CONDITIONS					
	These conditions apply to the portion of the State Heritage Register Area within the site that is impacted by the development.	Note.			
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	
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	
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	
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.	Site interview - W Beattie	No substantial intact archaeological deposits and/or State significant relics identified in any reporting.	Compliant	
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	
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.	Site interview - W Beattie	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	
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	
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.	As per previous audit: Heritage Branch sign off (16/12/2010).		Compliant	
9	Throughout the archaeological excavation works and post-excavation analysis, the Applicant must ensure that:	Note.			
9(a)	Appropriate signage to explain the history of the site and the archaeological excavation works is placed at the site during the work,	Site observations Site interview - W Beattie	There are no signs. However, there are no appropriate publicly accessible locations to place t	Compliant	
9(b)	A local public information program is implemented including press releases to ensure the public is informed about the project and its outcomes,	Site observations Site interview - W Beattie	No activities occurred during reporting period. Considered compliant on basis of previous au	Compliant	
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,	Site interview - W Beattie Old Marulan 2007 - Final Report	No activities occurred during reporting period. Considered compliant on basis of previous au	Compliant	
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	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Old Marulan 2007 - Final Report details all works completed, available via Holcim website. No works were undertaken during the audit period. Considered complaint on basis of final report and previous audit.	Compliant	
9(e)	The progress on the archaeological works on site is systematically video recorded,	Previous 2020 IEA Audit	Previous audit identified that Videos are not able to be located and it is understood that photographs were taken instead. Previous audit included action to discuss this matter with DPE. No evidence of action being addressed.	Non-compliant	NC17
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	
9(g)	The Heritage Office is notified weekly, in writing, of the progress of work during excavation and monthly during post excavation analysis,	Previous 2020 IEA Audit	Previous audit found that while the auditor did not sight any evidence of reports, correspondence with Heritage Office does not identify any issues with excavation.	Compliant	

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 2020 IEA Audit: Heritage Branch sign off on 16/12/2010 prior to initial bulk excavation.		Compliant	
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 2020 IEA Audit: Umwelt letter to OEH, dated 29 June 2011 regarding Old Marulan Township - Road Reserve Works		Compliant	
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.	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Old Marulan 2007 - Final Report available online. No further works were conducted during the audit period.	Compliant	
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 2020 IEA Audit: letter from Heritage Branch_Well MRNH8_InterpPlan_20090305 - stating Heritage Branch satisfied with public interpretation	Considered closed following previous audit finding.	Compliant	
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 2020 IEA 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	
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.	Previous 2020 IEA Audit Site interview - W Beattie	No further evidence of records provided since previous audit. Archaeological works are not currently occurring.	Compliant	
14	The Applicant is responsible for the safe-keeping of all relics recovered from the site.	Previous 2020 IEA Audit: Heritage Branch letter detailing Artefact management policy is appropriate (7/9/09)		Compliant	
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/	Compliant	
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.	Previous 2020 IEA Audit: Heritage Branch letter detailing Artefact management policy is appropriate (7/9/09)	No continued archaeological excavation occurring. Areas of heritage interest are fenced and/	Compliant	
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 2020 IEA Audit: End of fieldwork 500 word report - final (2) (D. Gojak, Banksia Heritage + Archaeology, 15/3/08).	Considered closed.	Compliant	
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 2020 IEA Audit: 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	Considered closed.	Compliant	
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.	Previous 2020 IEA Audit: Umwelt letter to Heritage Division, OEH, providing the final excavation report and electronic data, dated 20 May 2015	Considered closed.	Compliant	
20	The Applicant must ensure that the information presented in a final excavation report includes the following:	Note.			
20(a)	(a) An executive summary,	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Old Marulan 2007 - Final Report available online. No further works were conducted during the audit period.	Compliant	
20(b)	(b) Due credit to the client paying for the excavation on the title page,	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Old Marulan 2007 - Final Report available online. No further works were conducted during the audit period.	Compliant	
20(c)	(c) An accurate site location and site plan,	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Old Marulan 2007 - Final Report available online. No further works were conducted during the audit period.	Compliant	
20(d)	(d) Historical research, references, and bibliography,	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Old Marulan 2007 - Final Report available online. No further works were conducted during the audit period.	Compliant	
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,	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Old Marulan 2007 - Final Report available online. No further works were conducted during the audit period.	Compliant	
20(f)	(f) Detailed response to research questions,	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Old Marulan 2007 - Final Report available online. No further works were conducted during the audit period.	Compliant	
20(g)	(g) Nominated repository for the items,	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Old Marulan 2007 - Final Report available online. No further works were conducted during the audit period.	Compliant	

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	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community-link/Lynwood/planning-approvals reporting	Old Marulan 2007 - Final Report available online. No further works were conducted during the audit period.	Compliant	
20(i)	(i) Details of how this information about this excavation has been publicly disseminated.	Holcim Lynwood Quarry webpage (accessed 12/1/2024) https://www.holcim.com.au/about-us/community link/Lynwood/planning-approvals reporting	Old Marulan 2007 - Final Report available online. No further works were conducted during the audit period.	Compliant	
APPENDIX 8: CONCEPTUAL REHABILITATION PLAN [Map figure]					
APPENDIX 9. HABITAT MANAGEMENT AREAS [Map figure]					
APPENDIX 10. NOISE COMPLIANCE ASSESSMENT					
Applicable Meteorological Conditions					
1	The noise criteria in Table 1 apply under all meteorological conditions except the following:	Note.			
1 (a)	monitoring locations for the collection of representative noise data;	Annual Review 2020, 2021, 2022. Site Observations 2023 Monitor data	AERs and Noise Monitoring Reports during the audit period demonstrate noise monitoring performed as required.	Compliant	
1 (b)	wind speeds greater than 3 metres/second at 10 metres above ground level; or	Annual Review 2020, 2021, 2022. Site Observations 2023 Monitor data	AERs and Noise Monitoring Reports during the audit period demonstrate noise monitoring performed as required.	Compliant	
1 (c)	stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or	Annual Review 2020, 2021, 2022. Site Observations 2023 Monitor data	AERs and Noise Monitoring Reports during the audit period demonstrate noise monitoring performed as required.	Compliant	
1 (d)	stability category G temperature inversion conditions.	Annual Review 2020, 2021, 2022. Site Observations 2023 Monitor data	AERs and Noise Monitoring Reports during the audit period demonstrate noise monitoring performed as required.	Compliant	
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.	Quarterly Noise Monitoring reports (Ramboll, MAC)	No reference in reports to reliance of meteorological station required under condition 15A of	Non-compliant	NC18
Compliance Monitoring					
3	Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.	Note.			
4	Unless otherwise directed by the Secretary, attended quarterly monitoring is to be used to evaluate compliance with the relevant conditions of this consent.	Annual Review 2020, 2021, 2022. Quarterly Noise Monitoring reports (Ramboll, MAC)	AERs and Noise Monitoring Reports during the audit period demonstrate noise monitoring performed as required.	Compliant	
	<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.			
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:	Quarterly Noise Monitoring reports (Ramboll, MAC)	Reports confirm monitoring activities are carried out in accordance with the Noise Policy for	Compliant	
5 (a)	monitoring locations for the collection of representative noise data;	Quarterly Noise Monitoring reports (Ramboll, MAC)	The quarterly Noise Monitoring Reports describe the locations for the collection of noise data;	Compliant	
5 (b)	meteorological conditions during which collection of noise data is not appropriate;	Quarterly Noise Monitoring reports (Ramboll, MAC)	Reports confirm monitoring activities are carried out in accordance with the Noise Policy for	Compliant	
5 (c)	equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and	Quarterly Noise Monitoring reports (Ramboll, MAC)	Reports confirm conformance with the following standards: Australian Standard AS 1055:2018 Acoustics — Description and measurement of environmental noise (Standards Australia, 2018). IEC 60942 Ed. 3.0 b:2003 Electroacoustics - Sound calibrators (Standards Australia, 2003).	Compliant	
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.	Quarterly Noise Monitoring reports (Ramboll, MAC)	The quarterly Noise Monitoring Reports describe the locations for the collection of noise data;	Compliant	

Table A.2 - DA 128-5-2005 Statement of Commitments (including Mod 1 (21/12/05) , Mod 2 (22/3/11), Mod 3 (17/8/11), Mod 4 (5/2016) and Mod 5 (5/2017)

Environmental aspect	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
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.			
	Modification Project Management and Mitigation Measures				
Management Plans	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.	1. Air Quality Management Plan (August 2023) 2. Riparian Area Management Plan Lockyersleigh Creek Catchment Revision (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 (2022) 8. Rehabilitation and Landscape Management Plan (May 2018) 9. Water Management Plan (2020) 10. Waste Management and Minimisation Strategy (2019) 11. Pollution Incident Response Management Plan (September 2019) 12. Riparian Area Management Plan Joarimin Creek Catchment (2021). 13. Box Gum Woodland Management Plan (September 2013) 14. Groundwater Monitoring Program (2020) 15. Surface Water Monitoring Program (2020) Sighted correspondecne to DPE confirm reviews following Annual Reviews.	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.	Compliant	
Noise	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 (February 2020)	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	
	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 quality over the life of the Modification Project to further minimise noise impacts:	Noise Management Plan (February 2020)	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	
	• The use of broad band reversing alarms instead of beeper style alarms on all mobile equipment.	Site obersvations	Auditor sighted broad band reversing beacons on equipment	Compliant	
	• 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: 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).	Noise Management Plan (February 2020) - Table 5 Sighted shift reports confirming modifications being made to operations during adverse weather conditions.		Compliant	
	• Regular inspection and maintenance of noise attenuation systems on quarry equipment.	Noise Management Plan (February 2020) - Table 5 Site obersations of OEM inspections		Compliant	
	• Implementation of a process for periodic review of noise performance of equipment.	Noise Management Plan (February 2020) - Table 5		Compliant	
Blasting	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:	Blast Management Plan (February 2020)		Compliant	
	• 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	Blast Management Plan (February 2020) - Table 8		Compliant	
	• a pre-blast review of environmental conditions (including weather conditions) to avoid blasting in conditions which may significantly increase blasting impacts or dust impacts	Blast Management Plan (February 2020) - Table 8 Sighted pre-blast check list		Compliant	
	• 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	Blast Management Plan (February 2020) - Table 8 Sighted pre-blast check list		Compliant	
	• 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 (February 2020) - Table 8 Sighted pre-blast check list Sighted blast monitoring data		Compliant	
	• 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 (February 2020) - Table 8 Sighted pre-blast check list - incorporating prenotification requirements. Sighted blast notification signage.		Compliant	
	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.	Conisdered complaint on basis of previous audit finding.		Compliant	
Air Quality	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 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 (August 2023) - Section 6 and 7 Air Quality Management Plan (August 2023) - Figure 1	Noting Depositional Dust Guage location update in consult with DPE.	Compliant	
Biodiversity	Biodiversity				
	Holcim Australia will implement the following biodiversity controls: • 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	Note. Rehabilitation and Landscape Management Plan (September 2018) - Section 3.1.1		Compliant	

	<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 (September 2018) - Section 3.8.2		Compliant	
	<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 (September 2018) - Section 3.1.2		Compliant	
	<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 (September 2018) - Section 3.1.2		Compliant	
	<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	Sighted signage, speed limits and exclusion fencing.	Compliant	
	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) - Section 3.8.1 Box Gum Woodland Management Plan (September 2013) - Section 2		Compliant	
Surface Water	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.	Water Management Plan (2020) Riparian Area Management Plan Lockyersleigh Creek Catchment (May 2018)	Water Management Plan (2020) - has been regularly reviewed during the audit period. The Riparian Area Management Plan Lockyersleigh Creek Catchment (May 2018) document has been reviewed since its inception in 2011.	Compliant	
	Key surface water management controls for the Modification Project will include:	Note.			
	<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). 	Water Management Plan (2020) - Section 6		Compliant	
	<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. 	Water Management Plan (2020) - Section 3.2 and 5.5	The WMP (2020) 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). Section 3.2 refers to guidelines the WMP adheres to but does not refer to Water Reporting Requirements for Mines (NSW Office of Water, undated).	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.
	<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. 	Water Management Plan (2020) Surface Water Monitoring Program (2020)	Figure 6 of the WMP identifies the four additional surface water monitoring locations as per the MOD 4 Response to Submission Figure 2.2.	Compliant	
	<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). 	Water Management Plan (2020) Surface Water Monitoring Program (2020)		Compliant	
Groundwater	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.	Water Management Plan (2020) Groundwater Monitoring Program (2020)		Compliant	
Social impact	Social Impact and Opportunities Holcim Australia will implement the following measures in relation to mitigating social impacts and maximising opportunities:	Note.			
	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. • <u>Implementation of the visual management measures outlined later in this section.</u> 	Site Interviews - W Beattie CCC Consultation Site Observations	Community engagement facilitated via the CCC. Visual mitigation works including visual bund and signs installed.	Compliant	
	Land Management <ul style="list-style-type: none"> • Where appropriate, consult with neighbouring landholders when undertaking pest and weed management activities. 	Sighted pest management notifications around boundaries Sighted evidence of engagement of vertebrate pest management services Pest management reported through Annual Reviews and CCC		Compliant	
	Population Change (infrastructure and services) <ul style="list-style-type: none"> • Continue implementation of the community fund. 	Site Interviews - W Beattie	Site interview confirmed Holcim still continuing to implement community fund initiatives	Compliant	
	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 Interviews - W Beattie	Local tourist industry considered when assessing community funding.	Compliant	
	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		Compliant	
	<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 	CCC Consultation		Compliant	
	<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		Compliant	
	<ul style="list-style-type: none"> • Utilise additional communication channels such as local newsletter, updates and local blogs. 	Holcim website, including general company and community updates. Sighted Holcim contributions to Marulan Messenger - a local monthly community newsletter.		Compliant	
	Monitoring <ul style="list-style-type: none"> • Undertake social monitoring as outlined in Table 6.14 of the EA (MOD 4). 	EA (MOD 4) - Table 6.14 CCC	Table 6.14 states the following will be completed in regard to social monitoring: <ul style="list-style-type: none"> • Completion of periodic community surveys to review community perception over time. • Continued implementation of community engagement program including seeking feedback on engagement effectiveness and on the community's preferred engagement mechanisms. • Continued effective operation of the CCC. • Newsletter content to focus on key community issues identified as of most interest to the community. • Community survey outcomes and feedback from the CCC to be used to inform and update engagement and broader business planning. No evidence sighted of periodic community surveys or newsletters during audit period. It is noted CCC operated effectively.	Non-compliant	NC19
Visual	Visual Amenity The following measures will be implemented as part of the Modification Project to minimise visual impacts:	Note.			

	<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. 	Site observations	Sighted complete Amentity Bund.	Compliant	
	<ul style="list-style-type: none"> • Lighting – there will be no fixed lighting in the Granite Pit Area. 	Site observations		Compliant	
	<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. 	Site observations Shift reports	Sighted shift reports confirming complaince	Compliant	
	<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. 	Site observations Shift reports	Sighted shift reports confirming complaince	Compliant	
	<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. 	Site observations	Sithed complete bund.	Compliant	
	<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) 	Site observations Previous IEA	Overburden emplacement area constructed prior to audit period, assumed complaint on basis of previous audit findings.	Compliant	
	<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. 	Site observations Site interviews - W Beattie	Overburden emplacement areas still active, seeding has been undertaken on areas which will be left in the current state for extended periods of time.	Compliant	
	<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. 	Site observations Site Interviews - W Beattie	Final shaping yet to commence, overburden emplacement areas still active.	Not triggered	
	<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. 	Site observations Site Interviews - W Beattie	Amenity bund will mask western facing benches. Benches have been contoured in preparation for rehab.	Compliant	
	<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 observations	Amentity bund seeded with well established vegetation. Minor erosion sighted.	Compliant	REC3
	<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.			
ACH	Aboriginal Cultural Heritage				
	Holcim Australia will update the Aboriginal Cultural Heritage Management Plan (ACHMP) for Lynwood Quarry.	Lynwood Quarry Aboriginal Heritage Management Plan, Caring for County		Compliant	
	Holcim Australia will implement the Aboriginal Cultural Heritage management actions detailed in Section 6.9.9 of the EA (MOD 4).	(Umwelt 2022)			
HH	Historic Heritage				
	The historic heritage management measures to be implemented for the Modification Project are as follows:	Note.			
	<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)	Section 8, BMP addresses Condition 11 (b)	Compliant	
	<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	
	<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. 	Site Interviews - W Beattie		Not triggered	
	<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. 	Site Interviews - W Beattie		Not triggered	
Gas Pipeline	Gas Pipeline Hazards	OUTSIDE AUDIT PERIOD			
	The key technical control measures to be implemented as part of the Modification Project include:	Note.			
	<ul style="list-style-type: none"> • pipelines will be designed in accordance with relevant standards 	Site Interviews - W Beattie	No interaction with the Gas Pipeline during the audit period.	Not triggered	
	<ul style="list-style-type: none"> • geotechnical assessment will be undertaken to determine soil stability at pipeline crossing location prior to construction activities 	Site Interviews - W Beattie	No interaction with the Gas Pipeline during the audit period.	Not triggered	
	<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 	Site Interviews - W Beattie	No interaction with the Gas Pipeline during the audit period.	Not triggered	
	<ul style="list-style-type: none"> • use of appropriate equipment to minimise the impact on the pipes in the event of contact 	Site Interviews - W Beattie	No interaction with the Gas Pipeline during the audit period.	Not triggered	
	<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. 	Sighted internal permit system required to be completed prior to any distrubance.		Compliant	
	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:			Not triggered	
	<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. 	Site Interviews - W Beattie	No interaction with the Gas Pipeline during the audit period.		
GHG	Greenhouse Gas and Energy				
	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:	Sighted overarching Holcim Greenhouse Gas Reduction Strategy	There are a number of energy-saving programs on site including automatic lights.	Compliant	
	<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 	Site Interviews - W Beattie	Holcim reports to the Department of the Environment and Energy - National Pollution Inventory (NPI) with a list of all emissions leaving the site		
Rehabilitation	Rehabilitation				
	The key elements of the rehabilitation strategy for the Modification Project will include:	Rehabilitation and Landscape Management Plan (2018) - Section 3.1	Section 3.1 of the Rehabilitation and Landscape Management Plan (20	Non-compliant	NC20
	<ul style="list-style-type: none"> • the timely and progressive rehabilitation of disturbed areas 				
	<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 (2018) - Section 3.2.2	Final shaping of the Southern Overburden Emplacement Area and the Lynwood Overburden Emplacement area is not yet complete noting they are active emplacment areas.	Not triggered	REC4
		Site observations Site Interviews - W Beattie			

• 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	Site observations Site interviews - W Beattie	Sighted topsoil stockpile appear in compliance. It is noted the majority of top soil has been relied on to rehabilitate the amenity bund.	Compliant	
• shaped areas will be covered with topsoil where practicable	Rehabilitation and Landscape Management Plan (2018) - Section 3.2.2 Site observations Site Interviews - W Beattie	Amentity bund covered with topsoil following construction.	Compliant	
• 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 (2018) - Section 3.2.2 Site observations Site Interviews - W Beattie	Amentity bund deeded and direct planted.	Compliant	
• 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 Site Interviews - W Beattie	Materials recovered and stockpiled for future rehabilitation activieis.	Compliant	
• 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 <u>native vegetation communities</u>	Rehabilitation and Landscape Management Plan (2018)		Not triggered	
• 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 (2018)		Not triggered	

Table A.3 - EPL 12939 - Variation 27-Oct-2023

Section		Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance																																																																																										
P1.2	<p>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.</p> <table><tr><th colspan="4">Air</th></tr><tr><th>EPA Identification no.</th><th>Type of Monitoring Point</th><th>Type of Discharge Point</th><th>Location Description</th></tr><tr><td>11</td><td>Dust Monitoring</td><td></td><td>Dust deposition gauge identified as DD5 in the map attached to the document titled "EPA Monitor Relocation Letter February 2020", received by EPA from the licensee on 6 February 2020 (DOC20/98576-1).</td></tr><tr><td>14</td><td>PM10 Dust Monitoring</td><td></td><td>Dust deposition gauge labelled as HVAS1 in Figure 1 Revised Monitoring Locations, received by EPA 8 November 2016 (DOC16/565661).</td></tr><tr><td>15</td><td>PM10 Dust Monitoring</td><td></td><td>Dust deposition gauge labelled as HVAS2 in Figure 1 Revised Monitoring Locations, received by EPA 8 November 2016 (DOC16/565661).</td></tr><tr><td>16</td><td>Dust Monitoring</td><td></td><td>Dust deposition gauge labelled as DD8 in Figure 1 Revised Monitoring Locations, received by EPA 8 November 2016 (DOC16/565661).</td></tr><tr><td>17</td><td>Dust monitoring</td><td></td><td>Dust deposition gauge labelled as DD11 in Figure 1 Revised Monitoring Locations, received by EPA 8 November 2016 (DOC16/565661).</td></tr><tr><td>18</td><td>Dust monitoring</td><td></td><td>Dust deposition gauge DD12, as identified in map supplied by Holcim to the EPA on 28 August 2019 (DOC19/370662-10).</td></tr><tr><td>19</td><td>Dust monitoring</td><td></td><td>Dust deposition gauge labelled as DD13 in Figure 1 Revised Monitoring Locations, received by EPA 8 November 2016 (DOC16/565661).</td></tr></table>	Air				EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description	11	Dust Monitoring		Dust deposition gauge identified as DD5 in the map attached to the document titled "EPA Monitor Relocation Letter February 2020", received by EPA from the licensee on 6 February 2020 (DOC20/98576-1).	14	PM10 Dust Monitoring		Dust deposition gauge labelled as HVAS1 in Figure 1 Revised Monitoring Locations, received by EPA 8 November 2016 (DOC16/565661).	15	PM10 Dust Monitoring		Dust deposition gauge labelled as HVAS2 in Figure 1 Revised Monitoring Locations, received by EPA 8 November 2016 (DOC16/565661).	16	Dust Monitoring		Dust deposition gauge labelled as DD8 in Figure 1 Revised Monitoring Locations, received by EPA 8 November 2016 (DOC16/565661).	17	Dust monitoring		Dust deposition gauge labelled as DD11 in Figure 1 Revised Monitoring Locations, received by EPA 8 November 2016 (DOC16/565661).	18	Dust monitoring		Dust deposition gauge DD12, as identified in map supplied by Holcim to the EPA on 28 August 2019 (DOC19/370662-10).	19	Dust monitoring		Dust deposition gauge labelled as DD13 in Figure 1 Revised Monitoring Locations, received by EPA 8 November 2016 (DOC16/565661).		Annual Review 2020, 2021, 2022 2023 Quarterly Monitoring Reports Site observations	2021 All dust deposition (DD) gauges and high volume (HVAS) units were in operation. HVAS 1 failed to operate on 4 occasions during the year and HVAS 2 failed to operate on 1 occasion during the year. (Lynwood Quarry 2021 Annual Review); 2022 All dust deposition (DD) gauges and high volume (HVAS) units were in operation. HVAS 1 failed to operate on 8 occasions during the year. (Lynwood Quarry 2022 Annual Review); 2023 - All dust deposition (DD) gauges and high volume (HVAS) units were in operation. HVAS 1 failed to operate on 8 occasions during the year and HVAS 2 failed to operate on 2 occasions during the year (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS). In general, all points were monitored during the three year period. Occasional failures occurred at the high volume samplers (reported as LOW NON-COMPLIANCE in 2021 and 2022 Annual Reviews). Dust deposition gauges were not collected in June 2021 due to CV19 restrictions.	Non-compliant	NC21																																																						
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L3.1	<p>Noise generated at the premises must not exceed the noise limits presented in the table below:</p> <table><tr><th>Noise Assessment Location</th><th>Day</th><th>Evening</th><th>Night</th><th>Night</th></tr><tr><td></td><td>LAeq (15 minute)</td><td>LAeq (15 minute)</td><td>LAeq (15 minute)</td><td>LA1 (1 minute)</td></tr><tr><td>Location 1</td><td>35</td><td>35</td><td>35</td><td>45</td></tr><tr><td>Location 2</td><td>35</td><td>35</td><td>35</td><td>45</td></tr><tr><td>Location 3</td><td>35</td><td>35</td><td>35</td><td>45</td></tr><tr><td>Location 4</td><td>35</td><td>37</td><td>35</td><td>46</td></tr><tr><td>Location 5</td><td>35</td><td>35</td><td>35</td><td>46</td></tr><tr><td>Location 6</td><td>35</td><td>37</td><td>36</td><td>46</td></tr><tr><td>Location 7</td><td>38</td><td>38</td><td>35</td><td>55</td></tr><tr><td>Location 8</td><td>39</td><td>38</td><td>36</td><td>55</td></tr><tr><td>Location 9</td><td>39</td><td>39</td><td>37</td><td>56</td></tr><tr><td>Location 10</td><td>42</td><td>42</td><td>40</td><td>53</td></tr><tr><td>Location 11</td><td>35</td><td>35</td><td>36</td><td>47</td></tr><tr><td>Location 12</td><td>37</td><td>37</td><td>36</td><td>47</td></tr><tr><td>Location 13</td><td>40</td><td>38</td><td>37</td><td>47</td></tr><tr><td>Location 14</td><td>35</td><td>35</td><td>35</td><td>47</td></tr><tr><td>Location 15</td><td>35</td><td>35</td><td>35</td><td>47</td></tr><tr><td>Location 16</td><td>35</td><td>35</td><td>35</td><td>45</td></tr></table>	Noise Assessment Location	Day	Evening	Night	Night		LAeq (15 minute)	LAeq (15 minute)	LAeq (15 minute)	LA1 (1 minute)	Location 1	35	35	35	45	Location 2	35	35	35	45	Location 3	35	35	35	45	Location 4	35	37	35	46	Location 5	35	35	35	46	Location 6	35	37	36	46	Location 7	38	38	35	55	Location 8	39	38	36	55	Location 9	39	39	37	56	Location 10	42	42	40	53	Location 11	35	35	36	47	Location 12	37	37	36	47	Location 13	40	38	37	47	Location 14	35	35	35	47	Location 15	35	35	35	47	Location 16	35	35	35	45		2021 - attended monitoring undertaken 4 times in the year at 4 representative locations (closest receivers). All compliant with agreed noise criteria. (Lynwood Quarry 2021 Annual Review / Noise Monitoring Assessment Quarterly Reports from 2021 (Muller Acoustic Consulting Pty Ltd (MAC)); 2022- attended monitoring undertaken 4 times in the year at 4 representative locations (closest receivers). All compliant with agreed noise criteria.(Lynwood Quarry 2022 Annual Review / Noise Monitoring Assessment Quarterly Reports from 2022 (Muller Acoustic Consulting Pty Ltd (MAC) / Ramboll); 2023 - attended monitoring undertaken 3 times in the year at 4 representative locations (closest receivers). All compliant with agreed noise criteria (Ramboll). (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS / Noise Monitoring Assessment Quarterly Reports from 2023 (Ramboll)). Exceedance noted within spreadsheet	4 receivers - representative as they are the closest 4 in each direction were monitored each year. No exceedances of the noise limits set were recorded due to the quarry; however, attended monitoring found occasional exceedance caused by bird noise, road traffic noise and rail (train) noise. These noise events were excluded from the results. In Sept 2023, a negligible exceedance (1dB) was observed at N1 during the evening monitored period with an estimated quarry contribution of 36 LAeq (15min) dBA against a criteria of 35 LAeq (15min) dBA. The LA1 quarry contribution also exceeded the LA1(1min) (dBA) criteria for all locations but it was noted that LA1 was dominated by birds, road traffic and/or a passing train at each location.	Non-compliant	NC22
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M2.2	<p>Air Monitoring Requirements</p> <p>POINT 11,16,17,18,19</p> <table><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>Particulates - Deposited Matter</td><td>grams per square metre per month</td><td>Monthly</td><td>AM-19</td></tr></table> <p>POINT 14,15</p> <table><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>PM10</td><td>micrograms per cubic metre</td><td>Special Frequency 1</td><td>AM-22</td></tr></table> <p>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.</p>	Pollutant	Units of measure	Frequency	Sampling Method	Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19	Pollutant	Units of measure	Frequency	Sampling Method	PM10	micrograms per cubic metre	Special Frequency 1	AM-22		Annual Review 2020, 2021, 2022 (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS	2021 All dust deposition (DD) gauges were in operation to collect PM g/sqm/month and high volume (HVAS) units were in operation to collect a HV Sample of PM10 for 24 hours very 6 days . HVAS 1 failed to operate on 4 occasions during the year and HVAS 2 failed to operate on 1 occasion during the year. (Lynwood Quarry 2021 Annual Review); 2022 All dust deposition (DD) gauges were in operation to collect PM g/sqm/month and high volume (HVAS) units were in operation to collect a HV Sample of PM10 for 24 hours very 6 days. HVAS 1 failed to operate on 8 occasions during the year. (Lynwood Quarry 2022 Annual Review); 2023 - All dust deposition (DD) gauges were in operation to collect PM g/sqm/month and high volume (HVAS) units were in operation to collect a HV Sample of PM10 for 24 hours very 6 days. HVAS 1 failed to operate on 8 occasions during the year and HVAS 2 failed to operate on 2 occasions during the year (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS).	Non-compliant	NC23																																																																										
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R2.1	<p>Notifications must be made by telephoning the Environment Line service on 131 555.</p>		Annual Review 2020, 2021, 2022, 2023 Site Incident management software package Holcim website	No evidence of incidents or exceedances reported to EPA of EPL criteria during the audit period. Notable this includes ongoing failures of air quality and noise monitoring events. It is noted that incidents recorded within the information provided are unlikely to have caused environmental harm.	Non-compliant	NC24																																																																																										
R2.2	<p>The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident. <i>Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.</i></p>		Annual Review 2020, 2021, 2022, 2023 Site Incident management software package Holcim website	No evidence of incidents or exceedances reported to EPA of EPL criteria during the audit period. Notable this includes ongoing failures of air quality and noise monitoring events. It is noted that incidents recorded within the information provided are unlikely to have caused environmental harm.	Non-compliant	NC25																																																																																										

U1.2			Annual Review 2020, 2021, 2022 2023 Quarterly Monitoring Reports Site observations	2021 All dust deposition (DD) gauges and high volume (HVAS) units were in operation. HVAS 1 failed to operate on 4 occasions during the year and HVAS 2 failed to operate on 1 occasion during the year. (Lynwood Quarry 2021 Annual Review); 2022 All dust deposition (DD) gauges and high volume (HVAS) units were in operation. HVAS 1 failed to operate on 8 occasions during the year. (Lynwood Quarry 2022 Annual Review); 2023 - All dust deposition (DD) gauges and high volume (HVAS) units were in operation. HVAS 1 failed to operate on 8 occasions during the year and HVAS 2 failed to operate on 2 occasions during the year (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS). In general, all points were monitored during the three year period. Occasional failures occurred at the high volume samplers (reported as LOW NON-COMPLIANCE in 2021 and 2022 Annual Reviews). Dust deposition gauges were not collected in June 2021 due to CV19 restrictions.	Non-compliant	NC26
U1.3	Monitoring must be undertaken at HVAS1 and HVAS 2 as described in Condition P1.2.		Annual Review 2020, 2021, 2022 (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS	2022 All dust deposition (DD) gauges were in operation to collect PM g/sqm/month and high volume (HVAS) units were in operation to collect a HV Sample of PM10 for 24 hours very 6 days . HVAS 1 failed to operate on 4 occasions during the year and HVAS 2 failed to operate on 1 occasion during the year. (Lynwood Quarry 2021 Annual Review); 2022 All dust deposition (DD) gauges were in operation to collect PM g/sqm/month and high volume (HVAS) units were in operation to collect a HV Sample of PM10 for 24 hours very 6 days. HVAS 1 failed to operate on 8 occasions during the year. (Lynwood Quarry 2022 Annual Review); 2023 - All dust deposition (DD) gauges were in operation to collect PM g/sqm/month and high volume (HVAS) units were in operation to collect a HV Sample of PM10 for 24 hours very 6 days. HVAS 1 failed to operate on 8 occasions during the year and HVAS 2 failed to operate on 2 occasions during the year (Lynwood (EPL 12939) - Live Monitoring Worksheet 2023.XLS).	Non-compliant	NC27

Appendix E

Site Inspection Photographs



Photograph E.1 **Water fill point**



Photograph E.2 **Water cart in operation**



Photograph E.3 **IPC located outside of bunded areas**



Photograph E.4 **Pump station**



Photograph E.5 Visual amenity wall



Photograph E.6 Water supply dam



Photograph E.7 Excess product stockpile



Photograph E.8 Amenity bund



Photograph E.9 Water supply dam



Photograph E.10 **Granite Pit**



Photograph E.11 **Granite Pit**



Photograph E.12 **Amenity bund plant establishment**



Photograph E.13 **Sediment Dam G1 - Spillway**



Photograph E.14 **Sediment Dam G1**



Photograph E.15 **Water supply dam**



Photograph E.16 **Depositional Dust Gauge**



Photograph E.17 **Sprayed black berry bush**



Photograph E.18 **Joarmin Creek**



Photograph E.19 **Joarmin Creek**



Photograph E.20 **Sediment Dam F**



Photograph E.21 **Workshop facilities**



Photograph E.22 Excavator



Photograph E.23 Bunded oil container



Photograph E.24 Bunded oil container



Photograph E.25 **Refuelling facilities**



Photograph E.26 **Sump**



Photograph E.27 **Sump oily water separator**



Photograph E.28 **Bunded hydrocarbon storage**



Photograph E.29 Bunded container storages for hydrocarbons



Photograph E.30 Spill kits



Photograph E.31 Processing area



Photograph E.32 **Workshop facilities**



Photograph E.33 **Administration area**



Photograph E.34 **Processing plant and stacker**



Photograph E.35 **Conveyors**



Photograph E.36 **Processing plant**



Photograph E.37 **Enclosed crusher**



Photograph E.38 **Active water sprays on processing facility**



Photograph E.39 **Stacker and stockpile**



Photograph E.40 **Stockpiles**



Photograph E.41 **Product stockpiles**



Photograph E.42 **Product stockpiles**



Photograph E.43 **Dust suppressant and associated pump**



Photograph E.44 **Refuelling facility**



Photograph E.45 **Sediment Dam E**



Photograph E.46 **Sediment E**



Photograph E.47 **Truck weight station**



Photograph E.48 **Internally banded area of truck refuelling station**



Photograph E.49 **Road vehicle refuelling station**



Photograph E.50 Quarry signage on access road



Photograph E.51 Quarry blasting signage on access road

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