



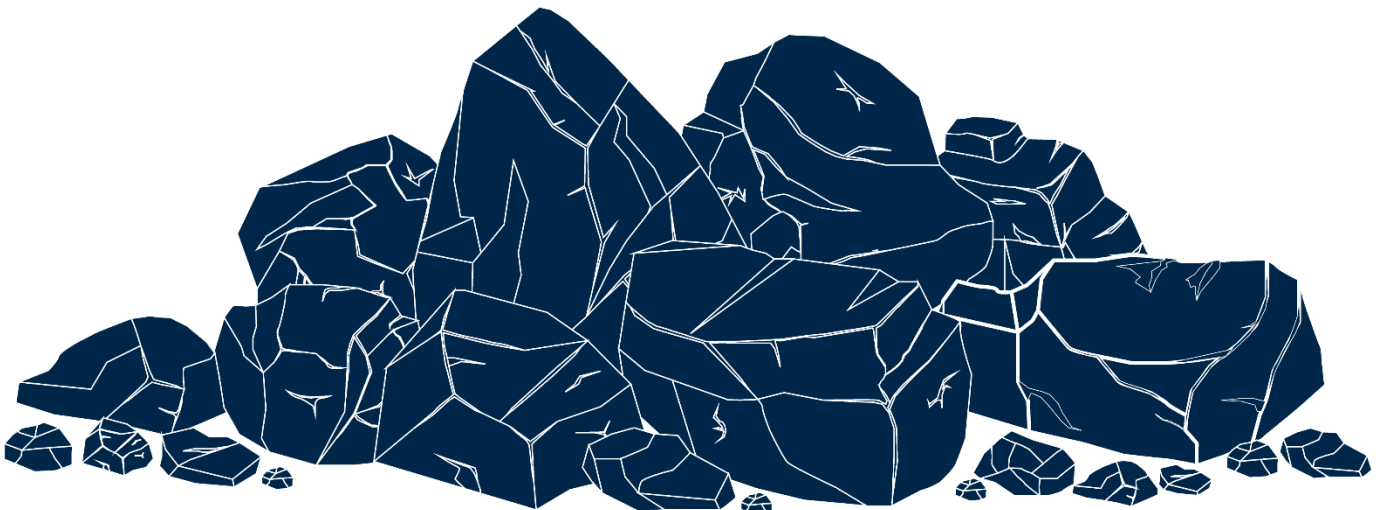
Karuah East Quarry
ABN: 80 141 505 035
Karuah East Quarry Pty Limited
Blue Rock Close, Karuah NSW 2324

W: www.hunterquarries.com.au
E: admin@hunterquarries.com.au
T: 02 4050 0304
P: PO Box 23, Thornton NSW 2322

Karuah East Quarry

Transport Management Plan

November 2024



Revision History

Version	Date Reviewed	Author	Status	Amendment Details
1A	July 2015	Streetwise	Initial Draft	Original Transport Management Plan developed to satisfy Schedule 3, Condition 26 of the Project Approval.
1B	September 2015	Streetwise	Draft for Consultation	Updated for consultation with RMS and MidCoast Council.
1C	December 2015	Streetwise	Approved	Updated for DPE Comments.
2A	May 2024	ADWJ	Draft for Consultation	Comprehensive review following approval of MOD1, MOD2, MOD8, MOD9 and MOD10 to the Project Approval; and the findings of the 2023 Independent Environmental Audit. Update for new Hunter Quarries' document template.
2B	June 2024	ADWJ	Draft for Submission	Updated following consultation with TfNSW (PAE-71464474) and MidCoast Council (PAE-71464471).
2C	September 2024	ADWJ	Draft for Submission	Updated for NSW Planning comments.
2D	November 2024	ADWJ	Draft for Submission	Updated for further NSW Planning comments, including the provision of a TARP.

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Terms, Definitions and Abbreviations

Abbreviation / Term	Meaning
ADWJ	ADW Johnson
CCC	Community Consultative Committee
DA	Development Application
EA	Environmental Assessment
EIS	Environmental Impact Statement
EMS	Environmental Management Strategy
EPA	NSW Environmental Protection Authority
IPC	NSW Independent Planning Commission
KEQ	Karuah East Quarry
KEQPL	Karuah East Quarry Pty Limited
KHRQ	Karuah Hard Rock Quarry
km	Kilometre
MCC	Mid Coast Council
MOD	Modification to Project Approval MP09_0175
NSW Planning	NSW Department of Planning, Housing and Infrastructure
OEMs	Original Equipment Manufacturers
Planning Secretary	Secretary of NSW Department of Planning, Housing and Infrastructure
TARP	Trigger Action Response Plan
TfNSW	Transport for NSW
TIA	Traffic Impact Assessment
TMP	Transport Management Plan
tpa	tonnes per annum

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1.0 Introduction

ADW Johnson (ADWJ) have been engaged by Karuah East Quarry Pty Limited (KEQPL) to prepare this Transport Management Plan to satisfy the requirements outlined in Schedule 3, Condition 26 of the Project Approval (MP09_0175).

1.1 Overview

KEQPL operate the Karuah East Quarry (KEQ), located approximately 5 km northeast of the township of Karuah, in the Mid Coast Local Government Area. KEQ supplies hard rock quarry products to the construction industry, with markets in the Lower and Upper Hunter, Mid Coast, New England and Greater Sydney Regions.

Project Approval (MP09_0175) was granted for the KEQ on 17 June 2014 by the Independent Planning Commission (IPC) (formerly the NSW Planning Assessment Commission) on behalf of the Minister for Planning and Public Spaces (formerly Minister for Planning). Federal Approval (EPBC 2014/7282) was granted for KEQ under the Environment Protection and Biodiversity Conservation Act (EPBC Act 1999) on 20 March 2015.

The KEQ has approval to extract, process, stockpile and transport up to 1.5 million tonnes of andesite material annually until 2034.

1.2 Project Site

The KEQ is located off the Pacific Highway (via Blue Rock Close) and is situated on the following lands:

- Lot 12 and 13 DP 1024564 (the KEQ site); and
- Lot 14 and part Lot 13 DP 1024564 and Lot 5 DP 838128 (biodiversity offset area).

The KEQ is well separated from any substantial residential areas and is located adjacent to the existing Karuah Hard Rock Quarry (KHRQ), approved in June 2005 under DA 265-10-2004. The KHRQ is operated by Hunter Quarries Pty Ltd (a company affiliated with KEQ Pty Ltd) however the Karuah East Quarry and the Karuah Hard Rock Quarry are standalone quarry operations.

Figure 1 illustrates the site locality and regional context.

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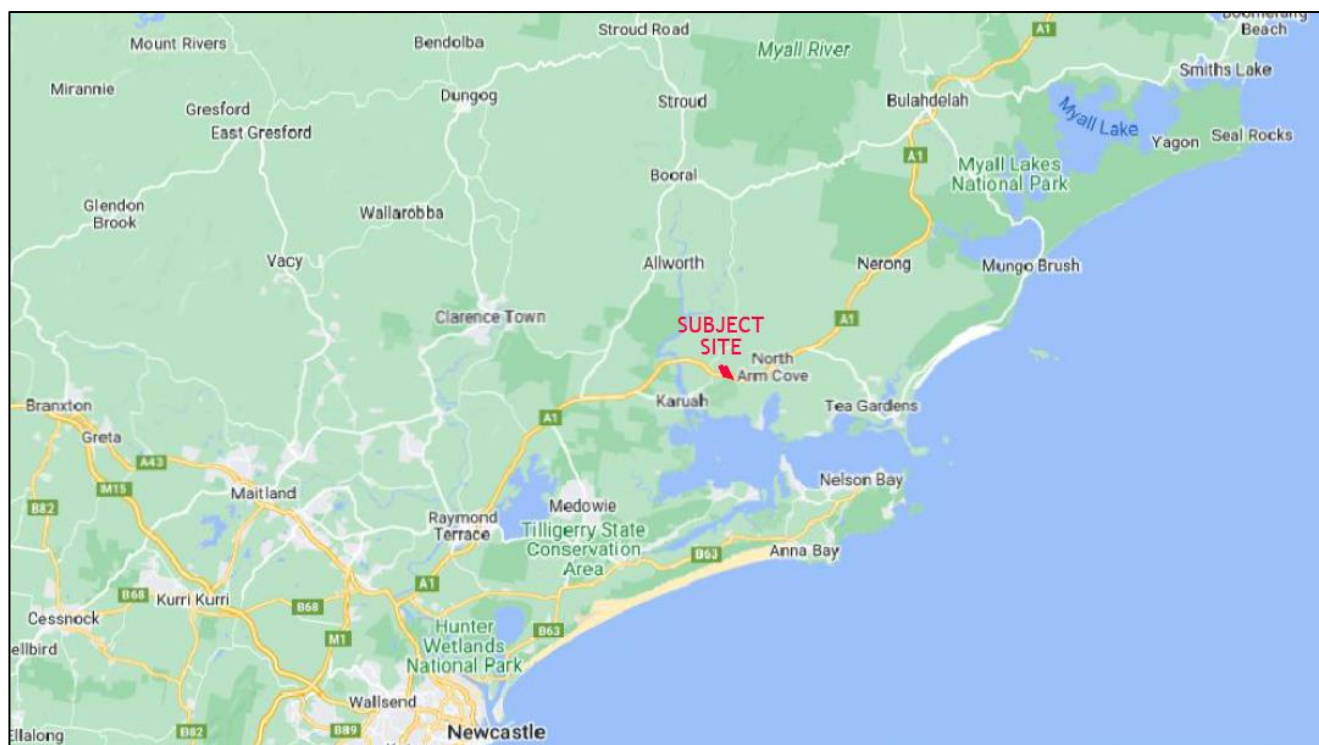


Figure 1 – Regional Context of the Karuah East Quarry site.

1.3 Summary of Project Approval (MP09_0175)

The key features of the Project Approval include the following key elements:

- The extraction (excluding overburden), processing, stockpiling, and transport of quarry products is limited to 1.5 million tonnes in any calendar year;
- Quarrying operation is permitted on the site until 31 December 2034;
- Establishment and use of quarry plant and associated infrastructure;
- Vegetation removal;
- A total permitted disturbance area of 40.18 ha on Lots 12 and 13 DP 1024564;
- Roadworks to secure access to the site including upgrade and extension of Blue Rock Close, realignment of the Andersite Road and Blue Rock Close intersection and adjust road markings at Branch Lane and Andersite Road intersection;
- Establishment of a biodiversity offset area;
- Conditions apply to manage / mitigate potential impacts associated with a range of environmental conditions including noise, blasting, air quality, soil and water, transport, biodiversity, heritage, emergency and hazards management and waste; and
- Progressive rehabilitation of the subject site.

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Quarry Operations

Approved quarrying activities undertaken on the site generally include:

- drilling and blasting of rock material within the quarry pit;
- collection and transportation of blasted material to the crushing & processing area using mobile equipment;
- crushing, processing and screening of quarried material is undertaken using fixed and mobile equipment;
- stockpiling of processed material; and
- stockpiled material is loaded onto trucks and exits the site to market via the weighbridge.

Existing and Approved Site Improvements

Existing and approved site improvements include:

- quarry pit (extraction area);
- crushing plant and processing infrastructure;
- wash plant and workshops;
- stockpiling areas;
- internal haulage roads;
- weighbridge office;
- weighbridge (two weighbridges approved);
- stormwater management infrastructure including three (3) dams;
- parking areas for light and heavy vehicles;
- administration office;
- amenity facilities;
- other minor structures; and
- fencing and access gates.

Figure 2 illustrates the approved project disturbance boundary and site layout.

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ver.	date	comment	surveyed	drawn	checked	pm	co-ordinate information	level information	scale (A1 original size)	page
A	13.05.2024	INITIAL ISSUE	--	Z.J.	M.R.	M.R.	CO-ORDINATE SYSTEM: M.G.A. ZONE 56	DATUM: A.H.D.		1 OF 1
B	27.05.2024	UPDATE TITLE BLOCK	--	M.K.	M.R.		FOR PLAN CONTENT GDA94	ORIGIN OF LEVELS: LIDAR DATA		
						ORIGIN OF CO-ORDINATES: P.M.		CONTOUR INTERVAL: N/A		

FIGURE 2 - APPROVED DISTURBANCE AREA AND SITE LAYOUT
KEQ APPROVED DISTURBANCE AREA (MP09_0175)

PLAN OF:
KARUAH EAST QUARRY

location: LOT 12 D.P.1024564,
LOT 13 D.P.1024564
BLUE ROCK CLOSE,
KARUAH, NSW, 2324

council: MID COAST

dwg ref: 11819-TMP-001-B

client:



central coast office ph: (02) 4305 4300
hunter office ph: (02) 4978 5100
sydney office ph: (02) 8046 7411

www.adwjohanson.com.au

1.4 Modifications to Project Approval (MP09_0175)

The Project Approval has been modified five times as summarised by **Table 1**.

Table 1 *Summary of Modifications to the Project Approval.*

MOD	Approval Date	Summary
1	27/04/2018	MOD 1 approved a nominal expansion to the approved area of disturbance by 2,500 m ² to allow for improved vehicle manoeuvring in proximity of the crushing plant and processing area.
2	19/12/2018	MOD 2 approved a 1.133 Ha increase to the site disturbance area to allow for improved environmental management and improved operational safety (for quarry vehicles).
3 – 7 withdrawn		
8	22/12/2020	MOD 8 approved revised operational acoustic criteria in line with the <i>NSW Noise Policy for Industry 2017</i> . MOD 8 also formalised a number of industry best practice acoustic mitigation measures that have been installed at the quarry. No change to disturbance footprint occurred.
9	02/12/2021	MOD 9 extended the approved operating hours of the KEQ. No change to disturbance footprint occurred.
10	18/05/2023	MOD 10 provides approval to increase the disturbance area of the KEQ by 7.17 Ha (bringing the total disturbance area of the KEQ to 40.18 Ha). The purpose of MOD 10 was to increase the approved disturbance area to establish additional stockpiling areas, facilitate improved surface water management, construct a new administrative building and expand the vehicle manoeuvring and parking at site.

1.5 Purpose

This document has been prepared to provide KEQPL with a consistent approach to the management of quarry related traffic and other transport movements; and sets out the minimum standards and processes to achieve this intended level of management. The Transport Management Plan (TMP) applies only to the KEQ site described in **Section 1.2** and illustrated in **Figure 2**.

1.6 Authorship

In accordance with Schedule 3, Condition 26(a) of the Project Approval, this TMP has been prepared by Ian Brown of ADWJ on behalf of KEQPL, who have been endorsed by the Planning Secretary as suitably qualified and experienced persons (refer **Appendix B**).

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1.7 Agency Consultation for this Management Plan

This TMP has been prepared in accordance with the requirements of the Project Approval, including the requirement for consultation with Transport for NSW (TfNSW) and MidCoast Council (formerly Great Lakes Council).

Transport for NSW

Consultation with TfNSW (formerly Roads and Maritime Services) was originally conducted in September 2015; and on 13 October 2015, TfNSW advised that the TMP was considered to satisfactorily meet the requirements of the Project Approval, as provided in **Appendix A**.

Further consultation was again undertaken in June 2024 via the NSW Major Projects Portal (PAE-71464474). TfNSW confirmed that it considered the KEQ MOD10 Project had no significant impacts on the nearby State Road network, and as such had no objection to the TMP.

MidCoast Council

Consultation with MidCoast Council (formerly Great Lakes Council) was originally conducted in September 2015; and on 09 October 2015, Council confirmed that no objection was raised to the TMP, as provided in **Appendix A**.

Further consultation was again undertaken in June 2024 via the NSW Major Projects Portal (PAE-71464471). However, no response was received.

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2.0 Regulatory Requirements of the Project Approval

The requirements of the Project Approval are summarised by **Table 2**.

Table 2 Summary of Relevant Conditions of the Project Approval.

No	Requirements	Section										
Schedule 2 – Administrative Conditions												
Condition 7	<u>Hours of Operation</u> The Applicant must comply with the operating hours in Table 1. Table 1: Operating hours	Section 4.3										
	<table><tr><th>Activity</th><th>Operating Hours</th></tr><tr><td>Quarrying Operations</td><td>7:00 am to 9:00 pm, Monday to Friday; 7:00 am to 10:00 pm, Monday to Friday on 50 calendar days per year; 7:00 am to 6:00 pm, Saturday. No drilling 6:00 pm to 10:00 pm Monday to Friday; or 1:00 pm to 6:00 pm Saturday. No quarrying operations on Sundays or Public Holidays.</td></tr><tr><td>Product Loading and Dispatch</td><td>5:00 am to 9:00 pm, Monday to Friday; 5:00 am to 10:00 pm, Monday to Friday on 50 calendar days per year; 6:00 am to 6:00 pm, Saturday. No product loading and dispatch on Sundays or Public Holidays.</td></tr><tr><td>Construction Activities</td><td>7:00 am to 6:00 pm, Monday to Friday; and 8:00 am to 1:00 pm, Saturdays, unless noise from these activities does not exceed 40 dB(A) $L_{Aeq(15min)}$ at any privately-owned residence.</td></tr><tr><td>Maintenance Activities</td><td>24 hours a day, 7 days per week, provided maintenance activities are inaudible at any privately-owned residence.</td></tr></table>		Activity	Operating Hours	Quarrying Operations	7:00 am to 9:00 pm, Monday to Friday; 7:00 am to 10:00 pm, Monday to Friday on 50 calendar days per year; 7:00 am to 6:00 pm, Saturday. No drilling 6:00 pm to 10:00 pm Monday to Friday; or 1:00 pm to 6:00 pm Saturday. No quarrying operations on Sundays or Public Holidays.	Product Loading and Dispatch	5:00 am to 9:00 pm, Monday to Friday; 5:00 am to 10:00 pm, Monday to Friday on 50 calendar days per year; 6:00 am to 6:00 pm, Saturday. No product loading and dispatch on Sundays or Public Holidays.	Construction Activities	7:00 am to 6:00 pm, Monday to Friday; and 8:00 am to 1:00 pm, Saturdays, unless noise from these activities does not exceed 40 dB(A) $L_{Aeq(15min)}$ at any privately-owned residence.	Maintenance Activities	24 hours a day, 7 days per week, provided maintenance activities are inaudible at any privately-owned residence.
	Activity		Operating Hours									
	Quarrying Operations		7:00 am to 9:00 pm, Monday to Friday; 7:00 am to 10:00 pm, Monday to Friday on 50 calendar days per year; 7:00 am to 6:00 pm, Saturday. No drilling 6:00 pm to 10:00 pm Monday to Friday; or 1:00 pm to 6:00 pm Saturday. No quarrying operations on Sundays or Public Holidays.									
	Product Loading and Dispatch		5:00 am to 9:00 pm, Monday to Friday; 5:00 am to 10:00 pm, Monday to Friday on 50 calendar days per year; 6:00 am to 6:00 pm, Saturday. No product loading and dispatch on Sundays or Public Holidays.									
	Construction Activities		7:00 am to 6:00 pm, Monday to Friday; and 8:00 am to 1:00 pm, Saturdays, unless noise from these activities does not exceed 40 dB(A) $L_{Aeq(15min)}$ at any privately-owned residence.									
	Maintenance Activities		24 hours a day, 7 days per week, provided maintenance activities are inaudible at any privately-owned residence.									
NOTE: This condition does not apply in the event of a direction from police or other relevant authority for safety or emergency reasons regarding works which may need to be undertaken to avoid loss of life, property loss and/or to prevent environmental harm.												
Condition 11	<u>Developer Contributions</u> The Applicant must pay Council, in accordance with Council’s Great Lakes Wide Developer Contributions Plan (November 2007) – Amended: a) a one-off Headquarters Building contribution of \$1.00 per \$1,000.00 of capital value of the development; and b) annual road maintenance contributions of \$0.037 per tonne per km, for every tonne of quarry products transported from the site on local roads in accordance with Council’s Great Lakes Wide Developer Contributions Plan (November 2007) – Amended. Each payment must be: i. paid to council at the end of each calendar year; ii. based on weighbridge records of the quantity of quarry products transported from the site; and iii. increased annually over the life of the development in accordance with CPI.	Section 3.4										
	NOTE: If the parties are not able to agree on any aspect of the road maintenance contributions, either party may refer the matter to the Planning Secretary for resolution.											

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No	Requirements	Section
Schedule 3 – Environmental Performance Conditions		
Condition 22	<u>Roadworks</u> The Applicant must, at its own cost, complete the following roadworks shown conceptually in Figure 2 of Appendix 1, prior to transporting quarry products from the site: a) extending Blue Rock Close, with tar seal and appropriate pavement, road markings and advance warning signage, to the satisfaction of Council and TfNSW; b) realigning and upgrading the Blue Rock Close / Andersite Road intersection with appropriate road markings, pavement thickening and advance warning signage, to the satisfaction of Council; c) upgrading the Branch Lane / Andersite Road intersection with appropriate road markings and advance warning signage to the satisfaction of council; d) constructing the site access road on Lots 12 and 13 DP1024564 with appropriate pavement and advance warning signage, to the satisfaction of Council; and e) installing a wheel-wash facility on the site.	Section 3.1
Condition 23	<u>Monitoring of Product Transport</u> The Applicant must keep accurate records of all laden truck movements to and from the site (including time of arrival and dispatch) and publish a summary of records on its website every 6 months and in the Annual Review.	Section 4.3
Condition 24	<u>Parking</u> The Applicant must provide sufficient parking on-site for all development-related traffic, in accordance with Council's parking codes, to the satisfaction of the Planning Secretary.	Section 3.2
Condition 25	<u>Operating Conditions</u> The Applicant must ensure that all development-related heavy vehicles: a) enter and exit the site in a forward direction; and b) exit the site with loads covered.	Section 3.3
Condition 26	<u>Transport Management Plan</u> The Applicant must prepare a Transport Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:	–
	a) be prepared by a suitably qualified traffic consultant whose appointment has been approved by the Planning Secretary;	Section 1.6
	b) be prepared in consultation with TfNSW and Council, and submitted to the Planning Secretary for approved prior to the commencement of construction activities;	Section 1.7
	c) include a Driver Code of Conduct;	Section 4.2
	d) describe the measures that would be implemented to ensure: ■ compliance with the relevant conditions of this consent; ■ that drivers of development-related heavy vehicles are aware of potential safety issues along the haulage routes; and ■ that drivers of development-related heavy vehicles comply with the Driver Code of Conduct; and	Whole Document, Section 4.2 & 7.0
	e) include a program to monitor the effectiveness of these measures.	Section 4.3
	The Applicant must implement the plan as approved by the Planning Secretary.	–

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No	Requirements	Section
Schedule 5 – Environmental Management, Reporting and Auditing		
Condition 3	<u>Management Plan Requirements</u> <i>The Applicant must ensure that the Management Plans required under this consent are prepared in accordance with any relevant guidelines, and include:</i>	
	a) Detailed baseline data;	N/A
	b) A description of: - The relevant statutory requirements (including any relevant approval, licence or lease conditions); - Any relevant commitments or recommendations identified in the documents listed in condition 2(d) of Schedule 2; - 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;	Section 2.0
	c) A description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	Section 3.0, 4.0, 5.0 & 6.0
	d) A program to monitor and report on the: - Impacts and environmental performance of the development; and - Effectiveness of any management measures (see (c) above);	Section 6.2
	e) A contingency plan to manage any unpredicted impacts and their consequences;	Section 4.3
	f) A program to investigate and implement ways to improve the environmental performance of the project over time;	Section 6.3
	g) A protocol for managing and reporting any: - Incidents; - Complaints; - Non-compliances with statutory requirements; and - Exceedances of the impact assessment criteria and/or performance criteria; and	Section 5.3
	h) A protocol for periodic review of the plan.	Section 6.3
	NOTE: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.	–
Condition 5	<u>Revision of Strategies, Plans and Programs</u> <i>Within 3 months of:</i> - the submission of an annual review under Condition 4 above; - the submission of an incident report under Condition 7 below; - the submission of an audit report under Condition 9 below; or - any modification to the conditions of this consent, (unless the conditions require otherwise), <i>the Applicant must review the strategies, plans, and programs required under this consent, to the satisfaction of the Planning Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted for the approval of the Planning Secretary.</i> Note: The purpose of this condition is to ensure that strategies, plans and programs are regularly updated to incorporate any measures recommended to improve environmental performance of the development.	Section 5.2

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No	Requirements	Section
Condition 11	<u>Access to Information</u> <i>The Applicant must:</i> a) <i>make the following information publicly available on its website:</i> ■ <i>the documents referred to in condition 2(d) of Schedule 2 of this consent;</i> ■ <i>any statutory approvals for the development;</i> ■ <i>approved strategies, plans and/ programs;</i> ■ <i>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;</i> ■ <i>a complaints register, updated quarterly;</i> ■ <i>minutes of CCC meetings;</i> ■ <i>annual reviews;</i> ■ <i>any independent environmental audit, and the Applicant's response to the recommendations in any audit; and</i> ■ <i>any other matter required by the Planning Secretary; and</i> <i>keep this information up-to-date, to the satisfaction of the Planning Secretary.</i>	Section 5.1

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3.0 Infrastructure Requirements

3.1 Pre-Construction Roadworks

Schedule 3, Condition 22 of the Project Approval required a number of roadworks, including extending Blue Rock Close; realignment and upgrade of Blue Rock Close/Andersite Road and Andersite Road/The Branch Lane intersections, provision of appropriate roadway signage; and provision of a wheel-wash facility on the site, as illustrated by **Figure 3**.

These upgrades were completed to the satisfaction of TfNSW (RMS Plan Registration No DS2015/002929) prior to the commencement of operations. A Construction Completion Certificate was issued by TfNSW in 2017.



Figure 3 – Existing Site Access Arrangement

3.2 On-Site Parking

Schedule 3, Condition 24 of the Project Approval requires sufficient on-site parking for all development-related traffic in accordance with Council's parking codes. Mid Coast Council's (MCC) Development Control Plan does not specify parking rates for extractive industries.

KEQPL currently provides safe and suitable on-site parking for all light vehicles associated with employees, contractors, and visitors at all times during the quarry's operation including dedicated visitor parking bays and staff parking areas at the weighbridge and at the plant/processing area.

Suitable heavy vehicle parking, waiting bays, and load-adjustment areas are also provided for heavy vehicles on site. Given the size of the subject site, ample space is available for parking and manoeuvring.

The approved KEQ MOD10 Project, as illustrated by **Figure 4**, includes the establishment of the following:

- New light vehicle carpark adjacent to a new administration office. The light vehicle carpark will contain 28 new spaces.
- New heavy vehicle parking area for ten (10) trucks. This area will be restricted to parking of KEQPL heavy vehicles.

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Figure 4 – Extract of the Approved KEQ MOD10 Project Showing New Carparking Areas to be Established

3.3 Heavy Vehicle Operating Conditions

Schedule 3, Condition 25 of the Project Approval requires development related heavy vehicles to enter and exit the site in a forward direction. This is achieved through the site layout, with marking and signage of internal roadways, u-turn facilities, and clear exit routes via the weighbridge and wheel-wash as illustrated by **Figure 5**.

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Figure 5 – Heavy Vehicle Directional Operating Rules Around the Site Entry and Weighbridge.

3.4 Road Maintenance Developer Contributions

Schedule 2, Condition 11 of the Project Approval requires KEQPL to provide contributions to Council to assist with the operation and maintenance of local roads within the MidCoast LGA. It is, therefore, Council's responsibility to ensure haulage routes used by KEQPL to be suitably maintained.

Contributions will be based upon \$0.037 per tonne per km indexed annually in accordance with CPI from 2014. Payments to Council will be made at the conclusion of each financial year to synchronise contributions with those for the adjacent Karuah Hard Rock Quarry (KHRQ).

Council has raised no issues with this timing.

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4.0 Traffic Management Measures

4.1 Operating Hours

In accordance with Schedule 2, Condition 7 of the Project Approval product loading and dispatch to heavy vehicles will be limited to the following hours, with no activity permitted on Sundays or Public Holidays:

- 5:00 am to 9:00 pm Monday to Friday; and
- 6:00 am to 6:00 pm Saturdays.

An additional allowance to operate until 10:00 pm Monday to Friday may be enacted on up to 50x days per calendar year to assist with servicing major project campaigns.

However, these hours may be exceeded in event that works may be required during safety or environmental emergencies to avoid the loss of life, property loss or to prevent environmental harm in accordance with a direction from an appropriate public authority or emergency service.

Other planned temporary extensions of hours may be sought in writing from the Planning Secretary and/or NSW EPA for specific significant projects.

4.2 Driver Code of Conduct

A summary of the Driver Code of Conduct commitments is provided in **Table 3**. The Driver Code of Conduct will be reviewed and signed by drivers upon completion of site induction and a KEQPL representative.

Table 3 *Summary of the Driver Code of Conduct Commitments.*

Aspect	Code of Conduct Commitments
General	■ Have undertaken a Site Induction carried out by an approved member of staff. ■ Hold a valid driver's licence for the class of vehicle that you operate. ■ Operate the vehicle in a safe manner within and external to the site. ■ Comply with the direction of authorised site personnel when within the site.
Speed Limits	■ Observe signposted speed limits at all times, including: ○ 50 km/h along Blue Rock Close and Andersite Road, ○ 30 km/h along quarry haul roads, ○ 20 km/h along site entry road to weighbridge, and ○ 10 km/h in the weighbridge, stockpile and plant / processing areas ○ 5 km/h upon entry to the weighbridge.
Drug & Alcohol	■ All drivers will comply with NSW Drug & Alcohol limits and those adopted by their own Drug & Alcohol policies. ■ All drivers acknowledge daily alcohol breath testing will be required at the commencement of each shift. ■ All drivers acknowledge random drug testing will be undertaken at the site.
Driver Fatigue	■ All drivers are to be aware of their own adopted fatigue management system and operate within its requirements.
Compression Braking	■ The use of compression braking will be limited as far as reasonably practicable (i.e. only when needed to maintain safety) to minimise excessive noise.
Hours of Operation	■ Only operate within designated hours, unless directed to do so by a public authority or emergency service, such as Police, Rural Fire Service, NSW Planning or the NSW EPA.
Departure & Arrival	■ All heavy vehicles entering or exiting the site are to do so in a forward motion.

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Aspect	Code of Conduct Commitments
Load Covering	- All trucks arriving at or departing from the site must be always covered with an appropriate tarp for the duration of the trip. The load covering may be removed upon arrival at the site for product loading, dispatch, load adjustment and product delivery. - All care is to be taken to ensure that all loose debris from the vehicle body and wheels is removed prior to leaving the site and again after unloading. - Drivers must ensure that the tailgate is locked before leaving the site.
Erosion & Sediment Control Management	All heavy vehicles leaving stockpile / extraction areas will use provided wheel wash and/or cattle grid infrastructure to minimise the generation of dust and sediment leave site on public roads.
Noise Management	Reduce speed when traversing cattle grids, potholes, pavement ruts and/or other road defects as far as reasonably practicable to reduce noise emissions, particularly when unloaded.
Breakdowns & Incidents	- In the case of a breakdown, the vehicle must be towed to the nearest breakdown point as soon as possible. All breakdowns must be reported to the Transport Supervisor / Weighbridge Officer and the vehicle protected in accordance with the Heavy Vehicle Drivers handbook. - If there is a product spill while loading/unloading or en-route the driver must: - Immediately warn persons in the area who may be at risk; - The Quarry Manager must be immediately informed so that emergency services can be contacted and a clean-up initiated. - All spills must be adequately cleaned up and waste disposed of in an acceptable and environmental manner; - Put out warning triangles where it is safe to do so.
Communication	- All drivers are to use the following UHF channels: - Channel 15 when on the KEQ site and travelling along Blue Rock Close; - Channel 17 when in the KEQ extraction area; - Channel 25 when on the HQ (Karuah Quarry) site; - Use and carry two-way UHF radios at all times while on-site. - Maintain open UHF channels at all times where possible. - All drivers will immediately report any potential safety or environmental incident, hazard or other issue to the Quarry Manager (or delegate).
Overtaking	- There is to be no overtaking of road registered vehicles on public roads between the site and the Pacific Highway. - If overtaking is required, such as due to a breakdown, radio positive communication must be received prior to commencing the overtaking manoeuvre.

4.3 Transport Monitoring & Compliance Program

Compliance Measures

Incidents and complaints will be recorded in a designated incident register as per the process outlined by **Section 5.3**.

Monitoring Measures

Formal reviews of compliance will be conducted annually as part of the Annual Review reporting processes to identify any emerging trends requiring remedial actions.

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Contingency Plan

Where repeated transport-related exceedances, incidents and/or community complaints occur, an investigation will be undertaken to determine the causes(s) of the identified issue(s). Corrective actions will be implemented to avoid or reduce the risks of further reoccurrence.

For organisational matters, site processes and further staff training will be conducted, whilst for individual matters, disciplinary action will be conducted with escalating enforcement as required.

Detailed action items are summarised by the Trigger Action Response Plan (TARP) provided by **Table 4**.

Table 4 *Transport Management Trigger Action Response Plan (TARP)*

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
Driver failure to comply with relevant road rules, regulations, codes or similar.	Trigger	No non-compliance.	Minor non-compliance (demerit point or show-cause or warning letter issued to KEQPL or contractor).	Major non-compliance (instant suspension or loss of licence).
	Response	- No response required. - Continue to implement Driver's Code of Conduct and annual monitoring & review program.	- Investigate the root causes of the non-compliance and implement recommendations to prevent recurrence. - Implement disciplinary action commensurate to the results of the investigation.	- Immediate stand-down of driver. - Investigate the root causes of the non-compliance and implement recommendations to prevent recurrence. - Implement disciplinary action commensurate to the results of the investigation.
Vehicle failure to comply with relevant road rules, regulations, codes or similar.	Trigger	No non-compliance.	Non-safety critical defect identified.	Safety critical defect identified.
	Response	- No response required. - Continue to service and maintain vehicles in accordance with OEM requirements. - Continue to implement Driver's Code of Conduct and annual monitoring & review program.	- Implement monitoring regime until repairs completed. - Remove from service if issue progresses to safety critical level. - Arrange for repairs at next scheduled maintenance service.	- Remove from service until repairs are completed. - Investigate the root causes of the defect (or non-compliance) and implement recommendations to prevent recurrence.

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
Traffic Incident, Accident or Complaint	Trigger	No reported traffic incident or complaint.	Near miss or minor incident resulting in low-level property damage and no personal injuries.	Major incident resulting in personal injury or significant property damage.
	Response	- No response required. - Continue to service and maintain vehicles in accordance with OEM requirements. - Continue to implement Driver's Code of Conduct and annual monitoring & review program.	- Enact incident response and reporting procedures. - Investigate the root causes of the incident, accident or complaint and implement recommendations to prevent recurrence.	- Enact incident response and reporting procedures. - Cooperate with any external investigation by regulatory authorities. - Investigate the root causes of the incident, accident or complaint and implement recommendations to prevent recurrence. - Implement disciplinary action commensurate to the results of the investigation.
Product Transport Limits	Trigger	Monthly production and transport below 125,000 tonnes per month.	Monthly production and transport exceeds 125,000 tonnes per month.	Cumulative Year-to-Date production and transport exceeds pro-rata limits.
	Response	No response required.	- Review cumulative production and transport data for the reporting period to-date. - If below, cumulative pro-rata limit, no further action required. - If above, review forecasts for the balance of the reporting period.	- Review forecasts for the balance of the reporting period. - Reduce sales to remain within product transport limits.

5.0 Monitoring and Reporting

5.1 Public Reporting

Schedule 3, Condition 23 of the Project Approval requires transport monitoring to be completed for all laden truck movements. On a six-monthly basis, transport monitoring reports are completed and uploaded the Hunter Quarries website; which are also subsequently included in the Annual Review reports.

Schedule 5, Condition 11 of the Project Approval requires all significant documents to be published to the Hunter Quarries website, including this Management Plan.

Schedule 5, Condition 8 of the Project Approval requires all monitoring results and other environmental performance data to be made publicly available on the Hunter Quarries website (www.hunterquarries.com.au/reporting/). This information is currently produced on a monthly basis through monthly Environmental Monitoring Reports (EMR's).

Schedule 5, Condition 4 of the Project Approval outlines the requirement for annual reporting through the Annual Review reporting process.

5.2 Periodic Management Plan Reviews

The TMP will be reviewed and revised / updated in accordance with Schedule 5, Condition 5 of the Project Approval within 3-months of any of the following:

- The submission of an annual review;
- The submission of an incident report;
- The submission of an audit report; and
- Any Modification to the Project Approval.

A review of the TMP will also take place if monitoring records indicate that it is warranted or in the event of any significant change to operations at KEQ.

The KEQ management team will discuss and review the status of all management plans on an annual basis, but unless required all site environmental management plans will be reviewed and updated every three years.

5.3 Complaints Handling and Incident Response

Complaints Handling

All complaints received regarding quarry-related traffic will be acknowledged within 24 hours by appropriate personnel and investigated as soon as reasonably practicable. The complainant will be kept updated at key milestones of the investigation and will be notified of the outcome once available.

KEQ will operate a telephone complaints line for the purposes receiving complaints from members of the public in relation to activities conducted at the premises as outlined in the KEQ Environmental Management Strategy (EMS).

KEQ will keep a record of any complaints made to the quarry in relation to the Project site for at least four years after the complaint was made. Additionally, the record will be available to any authorised officer of the EPA who wishes to view them.

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Records will include:

- date and time of complaint;
- method by which the complaint was made;
- personal details of the complainant (if provided);
- nature of the complaint;
- weather conditions corresponding to the time of the complaint;
- action taken by the quarry and any follow up actions; and
- if no action was taken, the reason why no action was taken.

For further details on complaint management refer to the KEQ EMS. Additionally, Condition M5 of the EPL outlines the process for recording pollution complaints.

Non-Compliance and Incident Response

Schedule 5, Condition 7 of the Project Approval requires:

The Applicant must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing via the Major Projects Website and identify the development (including the development application number and name) and set out the location and nature of the incident.

Schedule 5, Condition 7A of the Project Approval requires:

Within seven days of becoming aware of a non-compliance, The Applicant must notify the Department of the non-compliance. The notification must be in writing via the Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.

It should be noted that an identified issue associated with transport conditions will be typically classified as a non-compliance rather than an incident.

Where a significant pollution incident occurs which causes an impact or material harm, reference will be made to the KEQ Pollution Incident Response Management Plan (PIRMP).

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6.0 Community Consultation and Improvement

6.1 Community Consultative Committee

In accordance with Schedule 5, Condition 6 of the Project Approval, KEQ has established and operates a Community Consultative Committee (CCC). The CCC is operated in general accordance with the Community Consultative Committee Guideline, State Significant Projects, June 2023 (NSW Planning).

The CCC is an advisory committee to facilitate communication, consultation and information sharing between the KEQ and the local community. Further details of the CCC are provided in the EMS and on KEQ's website (www.hunterquarries.com.au).

6.2 Performance Monitoring

Compliance of this TMP with the Project Approval and any other relevant agency requirements will be measured according to the following performance indicators:

- Compliance with relevant product and truck movement limits.
- Compliance with Australian Standards as required.
- The frequency and nature of complaints reported to the quarry in relation to transport matters.
- Contractor and employee awareness of the company's Environmental Policy and this TMP.
- Compliance with this TMP, as indicated by statutory reporting.

6.3 Continual Improvement

Through the effective application of best practice principles to on-site activities including, where cost-effective and practicable, the adoption of best practice technologies and control measures, the KEQ will continue to improve environmental performance with progress to be monitored against the performance indicators outlined in this TMP.

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7.0 Roles and Responsibilities

It is the responsibility of the Business Development Manager and the Environment & Development Manager for the implementation of the TMP. **Table 5** outlines the responsible positions and accountable tasks.

Table 5 ***Roles & Responsibilities.***

Position	Responsibility
Quarry Manager	To authorise this plan.
Business Development Manager	- Provide sufficient resources for the effective implementation of this TMP; - Maintain procedures to ensure potential issues are identified; - Ensure that personnel and contractors carry out work in accordance with this TMP; and - Ensure the Code of Conduct is implemented.
Transport Supervisor	Implement and maintain the Driver's Code of Conduct.
Sales Manager (or suitable delegate)	- Maintain and compile accurate transport records and production data for monthly and six-monthly external reporting. - Calculate the annual Council Contributions Levies.
Environment & Development Manager (or suitable delegate)	- Organise revisions of this TMP as required; - Implement the actions contained in this TMP; - Maintain product transport records; - Review and respond to any complaints; - Coordinate and conduct training to ensure all relevant personnel are aware of TMP practices; - Coordinate incident investigation processes including associated reporting requirements in accordance with regulatory requirements and incident reporting procedures; - Coordinate the implementation of corrective actions and evaluate their effectiveness; - Ensure all internal and external reporting requirements are met; - Ensure TMP is publicly available on company website; - Provide input regarding the effectiveness of the TMP; and - Complete annual compliance reviews of the TMP in the Annual Review process.
Quarry Supervisors and Quarry Operators	- Coordinate, advise and assist with the implementation of the TMP; and - Report any incidents or complaints immediately.
Finance & Administration Manager	Ensure all Council Contribution Levies are paid in a timely fashion.

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8.0 References

ADW Johnson (2018). Karuah East Quarry Section 75W Application (MOD 1) Minor Increase to Approved Disturbance Area prepared by ADW Johnson Pty Ltd dated March 2018;

ADW Johnson (2018). Karuah East Quarry 75W Application (MOD 2) Minor Increase to Approved Disturbance Area prepared by ADW Johnson Pty Ltd dated August 2018;

ADW Johnson (2019). Karuah East Quarry S4.55 (1A) Modification Report Proposed Modification to Operational Noise Criteria and Implementation of Improved Acoustic Mitigation Measures. Prepared by ADW Johnson Pty Ltd June 2019 (referred to as MOD 8);

ADW Johnson (2021). Karuah East Quarry s4.55(1A) Modification Report Proposed Modification to Extend Hours of Operation Project Approval 09_0175. Prepared by ADW Johnson Pty Ltd April 2021 (referred to as MOD 9).

ADW Johnson (2022). Karuah East Quarry s4.55(2) Modification Report Proposed Increase to Approved Disturbance Area Modification 10 (MOD 10). Prepared by ADW Johnson Pty Ltd June 2022 (referred to as MOD 10).

Environmental Assessment Report – Proposed Karuah East Hard Rock Quarry prepared by ADW Johnson Pty Ltd dated 31 January 2013.

Intersect Traffic (2021). Traffic Impact Statement – Karuah East Quarry – Proposed MOD 9 to MP 09_0175 prepared by Intersect Traffic dated 11th March 2021 and addendum dated 20th May 2021.

TPK & Associates (2011). Traffic Assessment Report – Proposed Quarry Development prepared by TPK & Associates dated June 2011.

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Appendix A: Agency Consultation

From: MCGILVRAY Kellee A <Kellee.MCGILVRAY@rms.nsw.gov.au>
Sent: Tuesday, 13 October 2015 4:21 PM
To: Blake Almond
Subject: Karuah East Quarry Project - Management Plans

Hi Blake

Roads and Maritime have reviewed the Management Plan for the Karuah East Quarry Project submitted in September 2015, and considers the plan to be satisfactory in meeting the measures as outlined in Condition 26 of the Project Approval dated 17 June 2014.

Kind regards
Kellee

Kellee McGilvray
Manager Land Use Assessment
Network NSW | Journey Management
T 02 4924 0242 M 0429 565 985
www.rms.nsw.gov.au
Every journey matters

Roads and Maritime Services
Level 1 59 Darby St Newcastle NSW 2300



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12 June 2024

File No: NTH24/00355/002
Your Ref: MP09_0175-PA-48

Scott Ellerton
Hunter Quarries
via NSW Major Projects Portal

Attention: Scott Ellerton

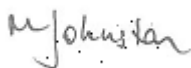
Pacific Highway (HW10): MP09_0175-PA-48, Post Approval Consultation, Revised Transport Management Plan for Karuah East Quarry Project.

I refer to the Post Approval Consultation email, dated 31 May 2024, requesting advice from Transport for NSW (TfNSW) in relation to a revised Transport Management Plan (TMP) for the above mentioned approved Karuah East Quarry (KEQ) Project, a State Significant Development.

TfNSW has reviewed the revised TMP prepared by ADW Johnson, dated May 2024 and raises no objection to or requirements for the updated TMP, supporting the approved Karuah East Quarry Project (KEQ), (MOD 10), as it is considered there will be no significant impacts on the nearby classified (State) road network.

Should you require further information please contact Katrina Wade, Development Services Case Officer, on 1300 207 783 or by emailing development.north@transport.nsw.gov.au.

Yours faithfully



Marg Johnston
Team Leader Development Services
North Region | Community & Place
Regional & Outer Metropolitan

OFFICIAL

From: Wayne Burgess [<mailto:Wayne.Burgess@greatlakes.nsw.gov.au>]
Sent: Friday, 9 October 2015 2:42 PM
To: Blake Almond <Blake.Almond@hunterquarries.com.au>
Subject: Karuah East Quarry Project - Management Plans.

Hi Blake,

I refer to your email dated 16 September 2015 in relation to the above matter.

The draft management plans have been referred to relevant Council staff.

No objection is raised to the management plans in relation to conditions 12, 16 and 26.

In relation to conditions 28, 29, 32, and 33, please see the attached memo from Council's Senior Ecologist (Mat Bell) dated 1 October 2015.

Regards.

Wayne Burgess.
Manager Development Assessments.
Great Lakes Council.

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Appendix B: Correspondence with NSW Planning

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Scott Ellerton
Environment and Development Manager
Hunter Quarries
PO Box 23
Karuah, NSW, 2324

03/06/2024

Subject: Appointment of Ian Brown to prepare the Transport Management Plan

Dear Mr Ellerton

I refer to your request dated 28 May 2024 for the Planning Secretary's approval of Ian Brown from ADW Johnson Pty Ltd as a suitably qualified person to prepare the Transport Management Plan for Karuah East Quarry in accordance with condition 26 (a) of Schedule 3 of the consent (MP09_0175).

The Department has reviewed the nomination and information you have provided and is satisfied that Ian Brown is suitably qualified and experienced. Accordingly, I can advise that the Planning Secretary approves the appointment of Ian Brown as a suitably qualified person to prepare the Transport Management Plan for Karuah East Quarry.

If you wish to discuss the matter further, please contact Kristina Robinson on (02) 9860 1543 or at Kristina.Robinson@dpie.nsw.gov.au.

Yours sincerely



James McDonough
Team Leader
Resource Assessments

As nominee of the Planning Secretary

PLACEHOLDER – NSW Planning MP Approval Letter

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