

Appendix 2

Correspondence from Government Agencies

(Total No. of pages including blank pages = 18)



This page has intentionally been left blank

From: Colin Phillips <Colin.Phillips@planning.nsw.gov.au>
Sent: Thursday, 2 July 2015 12:12 PM
To: RW Corkery - Brooklyn
Cc: Jacqui McLeod
Subject: Possum Brush Quarry - Modification EA Requirements.

Good Morning Rob,

I refer to the letter from Pacific Blue Metal (PBM), dated 23 June 2015, which you provided in your email of 24 June 2015 to the Department, along with supporting documents.

The Department has reviewed these documents and considers that it is appropriate for PMB to lodge a modification application under section 75W of the *Environmental Planning And Assessment Act 1979*, (EP&A Act) for Stage 2 of the Possum Brush Quarry, generally in the terms described in the draft Chapters 1 to 3 of the Environmental Assessment (EA) that you have provided. As always, any modification application would be assessed on its merits and in accordance with the EP&A Act and the *EP&A Regulation*.

The Department requires that the following matters be addressed in the EA;

1. The matters set out in draft chapters 1 to 3 of the EA provided in your email, including a description of existing operations, the proposed modification, the statutory context of the proposed modification, an assessment of the environmental performance of the quarry to date, and the like;
2. Noise impacts of the all proposed activities on the site in accordance with the Industrial Noise Policy (INP). Any proposed activities taking place before 7 am fall within the Night-time assessment period and would need to be assessed against noise criteria specifically developed for this period. Noise generating activities on the site would include noise generated by vehicles on the quarry access road and the impact of all noise from the site must be considered for those residences on Possum Brush Road that are located close to the entry of the quarry access road;
3. Traffic noise from vehicles of Possum Brush Road should be assessed against the noise criterion applicable under the Road Noise Policy (RNP). This may mean that some residences on Possum Brush Road would need to assessed against criteria developed from both the INP and RNP;
4. An assessment of blasting and vibration impacts;
5. Road Traffic Impact Assessment, in accordance with the relevant Roads and Maritime Services' (RMS) guidelines, including road condition, traffic volumes and road safety issues. This assessment must address truck movements on the worst case basis this is proposed by the Applicant. All truck movements must be accounted for including those associated with the receipt of materials to be blended on site, the operation of the asphalt plant and despatch of quarry products;
6. An air quality impact assessment in accordance with the Environment Protection Authority's guidelines for such assessments;
7. An economic impact assessment of the proposed modification;
8. Other matters at an appropriate level of assessment including visual impacts, surface water impacts, groundwater impacts, proposed rehabilitation;
9. The results of consultation by PBM with relevant stakeholders including residents living close to the quarry or its road haulage route to the Pacific Highway, the EPA, Taree Council, RMS, and NSW Office of Water. You must describe the issues raised during this consultation program and how these have been addressed;

10. How the quarry would be managed to avoid or mitigate environmental impacts; and

11. You must ensure that all assessments presented in the EA are based on realistic maximum or worst-case scenarios. In this regard, if the Applicant proposes a maximum production rate of up to 500,000 tonnes a year, then this rate must be assessed and no provision should be made for an increase in this rate at the discretion of the Secretary of the Department.

Once the EA is received and considered suitable for exhibition it will be distributed to government agencies for their consideration. It is important that the noise, air quality and traffic impact assessments are prepared in accordance with the relevant agency's guidelines so that the information presented in the EA is of sufficient detail to enable these matters to be confidently assessed.

Please contact either myself or Jacqui McLeod (92286454) if you have any questions.

Colin Phillips
Team Leader Mining Projects
Department of Planning and Environment
P: 92286483 colin.phillips@planning.nsw.gov.au

This message is intended for the addressee named and may contain confidential/privileged information. If you are not the intended recipient, please delete it and notify the sender.
Views expressed in this message are those of the individual sender, and are not necessarily the views of the Department.
You should scan any attached files for viruses.



Contact Christie Jackson
Phone 02 6763 1426
Email christie.jackson@dpi.nsw.gov.au

R.W. Corkery and Co Pty Ltd
PO Box 239
BROOKLYN NSW 2083

Attention: Rob Corkery

Dear Mr Corkery,

Possum Brush Quarry – Stage 2 Operations and Modification (DA283/87)

I refer to your letter seeking the Department of Primary Industries – Water's requirements for the proposed modification of Possum Brush Quarry's Development Consent DA283/97 under Section 75W of the *Environmental Planning and Assessment Act 1979*.

The Department of Primary Industries – Water has reviewed the information provided with our comments outlined below, with further detail provided in **Attachment A**.

It is recommended that the EIS be required to include:

- Details of current water use and source of water used for the quarry, including the identification of an adequate and secure water supply for the life of the project. Also include confirmation that water can be sourced from an appropriately authorised and reliable supply. Outline any current water licences for the operations including monitoring bores.
- A detailed and consolidated site water balance.
- A detailed assessment against the NSW Aquifer Interference Policy (2012) using the NSW Office of Water's assessment framework.
- Assessment of impacts of the quarry and proposed modification on surface and ground water sources (both quality and quantity), related infrastructure, adjacent licensed water users, basic landholder rights, watercourses, riparian land, and groundwater dependent ecosystems, and measures proposed to reduce and mitigate these impacts.
- Details on final quarry depth to groundwater level. Outline if groundwater is expected to be intercepted as a result of Stage 2 Quarry Operations.
- Current and proposed surface and groundwater monitoring activities and methodologies.
- Current and proposed management and disposal of produced or incidental water, if applicable.

- Details surrounding the final landform of the site including rehabilitation measures.
- Assessment of any potential cumulative impacts on water resources, and any proposed options to manage the cumulative impacts.
- Consideration of relevant policies and guidelines.
- A statement of where each element of the SEARs is addressed in the EIS (i.e. in the form of a table).

If you require clarification on any of the above please contact Christie Jackson on (02) 6763 1426 at the Tamworth office.

Yours sincerely,



Mitchell Isaacs
Manager Strategic Stakeholder Liaison
20 July 2015

ATTACHMENT A

**DPI Water Comments on Secretary's Environmental Assessment Requirements
Possum Brush Quarry – Stage 2 Operations and Modification (DA283/87)**

The following detailed assessment requirements are provided to assist in adequately addressing the assessment requirements for this proposal.

For further information visit the DPI Water website, www.water.nsw.gov.au

Key Relevant Legislative Instruments

This section provides a basic summary to aid proponents in the development of an Environmental Impact Statement (EIS), and should not be considered a complete list or comprehensive summary of relevant legislative instruments that may apply to the regulation of water resources for a project.

The EIS should take into account the objects and regulatory requirements of the *Water Act 1912* (WA 1912) and *Water Management Act 2000* (WMA 2000), and associated regulations and instruments, as applicable.

Water Management Act 2000 (WMA 2000)**Key points:**

- Volumetric licensing in areas covered by water sharing plans
- Works within 40m of waterfront land
- SSD & SSI projects are exempt from requiring water supply work approvals and controlled activity approvals as a result of the *Environmental Planning & Assessment Act 1979 (EP&A Act)*.
- No exemptions for volumetric licensing apply as a result of the *EP&A Act*.
- Basic landholder rights, including harvestable rights dams.
- Aquifer interference activity approval and flood management work approval provisions have not yet commenced and are regulated by the *Water Act 1912*.
- Maximum penalties of \$2.2 million plus \$264,000 for each day an offence continues apply under the *WMA 2000*.

Water Act 1912 (WA 1912)**Key points:**

- Volumetric licensing in areas where no water sharing plan applies.
- Monitoring bores.
- Aquifer interference activities that are not regulated as a water supply work under the *WMA 2000*.
- Flood management works.
- No exemptions apply to licences or permits under the *WA 1912* as a result of the *EP&A Act*.
- Regulation of water bore driller licensing.

Water Management (General) Regulation 2011**Key points:**

- Provides various exemptions for volumetric licensing and activity approvals.
- Provides further detail on requirements for dealings and applications.

Water Sharing Plans – these are considered regulations under the *WMA 2000*.

Access Licence Dealing Principles Order 2004

Harvestable Rights Orders

Water Sharing Plans

The EIS is required to:

- Demonstrate how the proposal is consistent with the relevant rules of the Water Sharing Plan including rules for access licences, distance restrictions for water supply works and rules for the management of local impacts in respect of surface water and groundwater sources, ecosystem protection (including groundwater dependent ecosystems), water quality and surface-groundwater connectivity.
- Provide a description of any site water use (amount of water to be taken from each water source) and management including all sediment dams, clear water diversion structures with detail on the location, design specifications and storage capacities for all the existing and proposed water management structures.
- Provide an analysis of the proposed water supply arrangements against the rules for access licences and other applicable requirements of any relevant WSP, including:
 - Sufficient market depth to acquire the necessary entitlements for each water source.
 - Ability to carry out a "dealing" to transfer the water to relevant location under the rules of the WSP.
 - Daily and long-term access rules.
 - Account management and carryover provisions.
- Provide a detailed and consolidated site water balance.
- Further detail on licensing requirements is provided below.

Relevant Policies and Guidelines

The EIS should take into account the following policies (as applicable):

- NSW Guidelines for Controlled Activities on Waterfront Land (NOW, 2012)
- NSW Aquifer Interference Policy (NOW, 2012)
- Risk Assessment Guidelines for Groundwater Dependent Ecosystems (NOW, 2012)
- Australian Groundwater Modelling Guidelines (NWC, 2012)
- NSW State Rivers and Estuary Policy (1993)
- NSW State Groundwater Policy Framework Document (1997)
- NSW State Groundwater Quality Protection Policy (1998)
- NSW State Groundwater Dependent Ecosystems Policy (2002)
- NSW Water Extraction Monitoring Policy (2007)

DPI Water policies can be accessed at the following links:

<http://www.water.nsw.gov.au/Water-management/Law-and-policy/Key-policies/default.aspx>
<http://www.water.nsw.gov.au/Water-licensing/Approvals/Controlled-activities/default.aspx>

An assessment framework for the NSW Aquifer Interference Policy can be found online at:

<http://www.water.nsw.gov.au/Water-management/Law-and-policy/Key-policies/Aquifer-interference>.

Licensing Considerations

The EIS is required to provide:

- Identification of water requirements for the life of the project in terms of both volume and timing (including predictions of potential ongoing groundwater take following the cessation of operations at the site – such as evaporative loss from open voids or inflows).
- Details of the water supply source(s) for the proposal including any proposed surface water and groundwater extraction from each water source as defined in the relevant Water Sharing Plan/s and all water supply works to take water.

- Explanation of how the required water entitlements will be obtained (i.e. through a new or existing licence/s, trading on the water market, controlled allocations etc.).
- Information on the purpose, location, construction and expected annual extraction volumes including details on all existing and proposed water supply works which take surface water, (pumps, dams, diversions, etc).
- Details on all bores and excavations for the purpose of investigation, extraction, dewatering, testing and monitoring. All predicted groundwater take must be accounted for through adequate licensing.
- Details on existing dams/storages (including the date of construction, location, purpose, size and capacity) and any proposal to change the purpose of existing dams/storages.
- Details on the location, purpose, size and capacity of any new proposed dams/storages.
- Applicability of any exemptions under the *Water Management (General) Regulation 2011* to the project.

Water allocation account management rules, total daily extraction limits and rules governing environmental protection and access licence dealings also need to be considered.

The Harvestable Right gives landholders the right to capture and use for any purpose 10 % of the average annual runoff from their property. The Harvestable Right has been defined in terms of an equivalent dam capacity called the Maximum Harvestable Right Dam Capacity (MHRDC). The MHRDC is determined by the area of the property (in hectares) and a site-specific run-off factor. The MHRDC includes the capacity of all existing dams on the property that do not have a current water licence. Storages capturing up to the harvestable right capacity are not required to be licensed but any capacity of the total of all storages/dams on the property greater than the MHRDC may require a licence.

For more information on Harvestable Right dams, including a calculator, visit:

<http://www.water.nsw.gov.au/Water-licensing/Basic-water-rights/Harvesting-runoff/Harvesting-runoff>

Dam Safety

Where new or modified dams are proposed, or where new development will occur below an existing dam, the NSW Dams Safety Committee should be consulted in relation to any safety issues that may arise. Conditions of approval may be recommended to ensure safety in relation to any new or existing dams.

See www.damsafety.nsw.gov.au for further information.

Surface Water Assessment

The predictive assessment of the impact of the proposed project on surface water sources should include the following:

- Identification of all surface water features including watercourses, wetlands and floodplains transected by or adjacent to the proposed project.
- Identification of all surface water sources as described by the relevant water sharing plan.
- Detailed description of dependent ecosystems and existing surface water users within the area, including basic landholder rights to water and adjacent/downstream licensed water users.
- Description of all works and surface infrastructure that will intercept, store, convey, or otherwise interact with surface water resources.
- Assessment of predicted impacts on the following:
 - flow of surface water, sediment movement, channel stability, and hydraulic regime,

- water quality,
- flood regime,
- dependent ecosystems,
- existing surface water users, and
- planned environmental water and water sharing arrangements prescribed in the relevant water sharing plans.

Groundwater Assessment

To ensure the sustainable and integrated management of groundwater sources, the EIS needs to include adequate details to assess the impact of the project on all groundwater sources including:

- Works likely to intercept, connect with or infiltrate the groundwater sources.
- Any proposed groundwater extraction, including purpose, location and construction details of all proposed bores and expected annual extraction volumes.
- Bore construction information is to be supplied to DPI Water by submitting a "Form A" template. DPI Water will supply "GW" registration numbers (and licence/approval numbers if required) which must be used as consistent and unique bore identifiers for all future reporting.
- A description of the watertable and groundwater pressure configuration, flow directions and rates and physical and chemical characteristics of the groundwater source (including connectivity with other groundwater and surface water sources).
- Sufficient baseline monitoring for groundwater quantity and quality for all aquifers and GDEs to establish a baseline incorporating typical temporal and spatial variations.
- The predicted impacts of any final landform on the groundwater regime.
- The existing groundwater users within the area (including the environment), any potential impacts on these users and safeguard measures to mitigate impacts.
- An assessment of groundwater quality, its beneficial use classification and prediction of any impacts on groundwater quality.
- An assessment of the potential for groundwater contamination (considering both the impacts of the proposal on groundwater contamination and the impacts of contamination on the proposal).
- Measures proposed to protect groundwater quality, both in the short and long term.
- Measures for preventing groundwater pollution so that remediation is not required.
- Protective measures for any groundwater dependent ecosystems (GDEs).
- Proposed methods of the disposal of waste water and approval from the relevant authority.
- The results of any models or predictive tools used.

Where potential impact/s are identified the assessment will need to identify limits to the level of impact and contingency measures that would remediate, reduce or manage potential impacts to the existing groundwater resource and any dependent groundwater environment or water users, including information on:

- Any proposed monitoring programs, including water levels and quality data.
- Reporting procedures for any monitoring program including mechanism for transfer of information.
- An assessment of any groundwater source/aquifer that may be sterilised from future use as a water supply as a consequence of the proposal.
- Identification of any nominal thresholds as to the level of impact beyond which remedial measures or contingency plans would be initiated (this may entail water level triggers or a beneficial use category).
- Description of the remedial measures or contingency plans proposed.
- Any funding assurances covering the anticipated post development maintenance cost, for example on-going groundwater monitoring for the nominated period.

Groundwater Dependent Ecosystems

The EIS must consider the potential impacts on any Groundwater Dependent Ecosystems (GDEs) at the site and in the vicinity of the site and:

- Identify any potential impacts on GDEs as a result of the proposal including:
 - the effect of the proposal on the recharge to groundwater systems;
 - the potential to adversely affect the water quality of the underlying groundwater system and adjoining groundwater systems in hydraulic connections; and
 - the effect on the function of GDEs (habitat, groundwater levels, connectivity).
- Provide safeguard measures for any GDEs.

Watercourses, Wetlands and Riparian Land

The EIS should address the potential impacts of the project on all watercourses likely to be affected by the project, existing riparian vegetation and the rehabilitation of riparian land. It is recommended the EIS provides details on all watercourses potentially affected by the proposal, including:

- Scaled plans showing the location of:
 - wetlands/swamps, watercourses and top of bank;
 - riparian corridor widths to be established along the creeks;
 - existing riparian vegetation surrounding the watercourses (identify any areas to be protected and any riparian vegetation proposed to be removed);
 - the site boundary, the footprint of the proposal in relation to the watercourses and riparian areas; and
 - proposed location of any asset protection zones.
- Photographs of the watercourses/wetlands and a map showing the point from which the photos were taken.
- A detailed description of all potential impacts on the watercourses/riparian land.
- A detailed description of all potential impacts on the wetlands, including potential impacts to the wetlands hydrologic regime; groundwater recharge; habitat and any species that depend on the wetlands.
- A description of the design features and measures to be incorporated to mitigate potential impacts.
- Geomorphic and hydrological assessment of water courses including details of stream order (Strahler System), river style and energy regimes both in channel and on adjacent floodplains.

Drill Pad, Well and Access Road Construction

- Any construction activity within 40m of a watercourse, should be designed by a suitably qualified person, consistent with the *NSW Guidelines for Controlled Activities on Waterfront Land* (July 2012).
- Construction of all wells must be undertaken in accordance with the *Minimum Construction Requirements for Water Bores in Australia* (3rd edition 2012) by a driller holding a bore drillers' licence valid in New South Wales.
- The length of time that a core hole is maintained as an open hole should be minimised.

Landform rehabilitation (including final void management)

The Environmental Impact Statement report should include:

- Justification of the proposed final landform with regard to its impact on local and regional surface and groundwater systems;

- A detailed description of how the site would be progressively rehabilitated and integrated into the surrounding landscape;
- Outline of proposed construction and restoration of topography and surface drainage features if affected by the project;
- Detailed modelling of potential groundwater volume, flow and quality impacts of the presence of an inundated final void (where relevant) on identified receptors specifically considering those environmental systems that are likely to be groundwater dependent;
- An outline of the measures to be put in place to ensure that sufficient resources are available to implement the proposed rehabilitation; and
- The measures that would be established for the long-term protection of local and regional aquifer systems and for the ongoing management of the site following the cessation of the project.

END ATTACHMENT A

From: Petula Bowden <Petula.Bowden@gtcc.nsw.gov.au>
Sent: Monday, 27 July 2015 11:48 AM
To: Chris Dickson
Subject: Possum Brush Quarry- Stage 2 Operatuions - Modification of consent

Chris,

I refer to a recent email to Ms Arna Fotheringham of Council outlining the issues proposed to be addressed in the modification application. I have reviewed the documentation you sent through and am happy that the issues listed are comprehensive and applicable. I do however also note that s75W has been repealed along with all of the Part 3A provisions.

The subject application may be amended via the provisions of s96, and a s96 application must be accompanied by an Environmental Performance Report for Stage 1 operations and all relevant information for the proposed Stage 2 operations. Such report is to be prepared in consideration of the requirements of the Director-General.

I trust that this advice adequately respond to your email. Please do not hesitate to contact myself or Arna further for any additional information.

Regards,

Petula Bowden

Team Leader Development Services | **Regulatory Services**

t: 02 6592 5259 | f: 02 6592 5311

e: petula.bowden@gtcc.nsw.gov.au | w: www.gtcc.nsw.gov.au



Greater Taree
City Council

This e-mail has been scanned for viruses by MCI's Internet Managed Scanning Services - powered by MessageLabs. For further information visit <http://www.mci.com>



5 August 2015

SF2015/114129
CR2015/003222
TR

Rob Corkery
R.W. Corkery & Co
1st Floor, 12 Dangar Road
BROOKLYN NSW 2083

Attention: Mr Rob Corkery

**THE PACIFIC HIGHWAY (A1): POSSUM BRUSH QUARRY – STAGE 2 OPERATIONS AND
THE MODIFICATION OF DEVELOPMENT CONSENT DA 283/97**

Dear Mr Corkery,

I refer to your email dated 14 July 2015 regarding the requirements of the Secretary Environmental Assessment Required for the preparation of an Environmental Impact Statement (EIS) for the modification of the existing hard rock quarry which was forwarded to Roads and Maritime Services for consideration.

Roads and Maritime understand that a proposed Environmental Assessment is to be prepared for the modification of the Possum Brush Quarry's Development Consent DA 283/97 under Section 75W of the *Environmental Planning and Assessment Act 1979*. The modification involves increasing production and bringing forward the commencement of Stage 2 operations previously due to start in 2019.

Roads and Maritime Responsibilities and Obligations

Transport for NSW and Roads and Maritime's primary interests are in the road network, traffic and broader transport issues, particularly in relation to the efficiency and safety of the classified road system, the security of property assets and the integration of land use and transport.

In accordance with the *Roads Act 1993*, Roads and Maritime has powers in relation to road works, traffic control facilities, connections to roads and other works on the classified road network. The Pacific Highway (A1) is a classified (State) road. Roads and Maritime concurrence is required for connections to the road with Council consent, under Section 138 of the Act. Roads and Maritime consent is also required for traffic control signals and facilities under Section 87 of the Act.

Roads & Maritime Services

Level 1, 59 Darby Street, Newcastle NSW 2300 | Locked Bag 2030 Newcastle NSW 2300

www.rms.nsw.gov.au

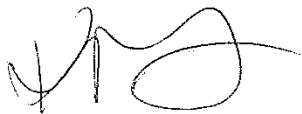
Roads and Maritime Response and Requirements

Roads and Maritime shall require the developer to undertake a Traffic Impact Study to identify likely traffic impacts and any subsequent road upgrade requirements. The study shall be prepared in accordance with the RTA *Guide to Traffic Generating Developments 2002* and is to include, but not be limited to, the following:

- Identification of the relevant vehicular traffic routes and intersections for access to/from the subject site.
- Current traffic counts for the above traffic routes and intersections.
- The anticipated additional vehicular traffic generated (both light and heavy vehicles) from the construction and operational stages.
- Consideration of the traffic impacts on the existing intersections and the capacity of the local and classified road network including The Pacific Highway to safely and efficiently cater for the vehicular traffic generated by the proposed development during the construction and operational stages. The study shall also give consideration to the cumulative traffic impacts of other proposed and approved developments in the area.
- Traffic analysis of any major / relevant intersections, using SIDRA or similar traffic model (if required), including:
 - Current traffic counts and 10 year traffic growth projections, allowing a 2% background growth on the classified road network
 - With and without development scenarios considered
 - 95th percentile back of queue lengths
 - Delays and level of service on all legs for the relevant intersections
 - Use of SIDRA or similar traffic model
 - Electronic input/output data files for RMS review
- Any other impacts on the regional and state road network including consideration of pedestrian, cyclist and public transport facilities and provision for service vehicles.
- Details of any measures proposed to manage and / or mitigate impacts as a result of the proposal identified in traffic and transport study.

Please contact me on 4924 0688 if you require further advice.

Yours sincerely,



Kellee McGilvray
Manager Land Use Assessment
Hunter Region

CC: General Manager
Greater Taree City Council

Table A2.1
Relevant Matters to be Addressed Raised by Government Agencies

Page 1 of 3

Government Agency	Paraphrased Requirement	Relevant EA Section(s)
GENERAL		
DPE	<ul style="list-style-type: none"> Include a description of existing operations; 	2.1
	<ul style="list-style-type: none"> the proposed modification; 	3
	<ul style="list-style-type: none"> the statutory context of the proposed modification; 	3.1, 4.3
	<ul style="list-style-type: none"> an assessment of the environmental performance of the quarry to date; 	2.3
	<ul style="list-style-type: none"> Undertake consultation with relevant stakeholders including: <ul style="list-style-type: none"> Surrounding residents close to the quarry or transport route, EPA, Taree City Council, RMS and DPI – Water (previously NSW Office of Water). You must describe the issues raised during this consultation program and how these have been addressed; 	4.3
	<ul style="list-style-type: none"> Address how the quarry would be managed to avoid or mitigate environmental impacts; 	5
	<ul style="list-style-type: none"> Ensure that all assessments presented in the EA are based on realistic maximum or worst-case scenarios (i.e. 500 000tpa); 	5.3, 5.3.4
EPA	<ul style="list-style-type: none"> Include a proposed monitoring plan to assess the impact on the environment and surrounding receivers over time. 	5
	<ul style="list-style-type: none"> Include an assessment of the cumulative impacts associated with this proposal and other quarry operations in the local area. 	5.3
	<ul style="list-style-type: none"> Describe actions that will be taken to avoid or mitigate impacts or compensate for unavoidable impacts associated with proposed quarry operations. 	5
TRAFFIC		
DPE	<ul style="list-style-type: none"> Include a Road Traffic Impact Assessment, in accordance with RMS guidelines, on a worst case basis, including: <ul style="list-style-type: none"> road condition, traffic volumes road safety issues. 	Appendix 4
RMS	<ul style="list-style-type: none"> Undertake a Traffic Impact Study in accordance with <i>RTA Guide to Traffic Generating Developments 2002</i>, to identify likely traffic impacts and any subsequent road upgrade requirements. Include: <ul style="list-style-type: none"> relevant vehicular traffic routes and intersections, including current traffic counts; additional vehicular traffic generated from construction and operational stages; traffic impacts on existing intersections, and the capacity of the local and classified road network including the Pacific Highway to safely and efficiently cater for the vehicular traffic generated by the quarry, including cumulative impacts from other proposed developments Include traffic analysis of any major / relevant intersections using SIDRA or similar traffic model, including growth projections, development scenarios, queue lengths and delays and level of service at all relevant intersections 	Appendix 4

Table A2.1
Relevant Matters to be Addressed Raised by Government Agencies

Page 2 of 3

Government Agency	Paraphrased Requirement	Relevant EA Section(s)
TRAFFIC (continued)		
RMS (con't)	<ul style="list-style-type: none"> impacts on the regional and state road network including consideration of pedestrians, cyclists, public transport facilities and provision for service vehicles details of any measures proposed to manage and/or mitigate traffic impacts. 	Appendix 4
NOISE AND VIBRATION		
DPE	<ul style="list-style-type: none"> Address noise impacts of all proposed activities on the site in accordance with the Industrial Noise Policy (INP); <ul style="list-style-type: none"> Any proposed activities taking place before 7 am fall within assessed against noise criteria specifically developed for this period; Include noise generated by vehicles on the quarry access road and the impact of all noise from the site must be considered for those residences on Possum Brush Road that are located close to the entry of the quarry access road; Traffic noise from vehicles of Possum Brush Road should be assessed against the noise criterion applicable under the Road Noise Policy (RNP). This may mean that some residences on Possum Brush Road would need to assessed against criteria developed from both the INP and RNP; 	Appendix 6
	<ul style="list-style-type: none"> Include an assessment of blasting and vibration impacts; 	5.4
EPA	<ul style="list-style-type: none"> Assess noise impacts associated with the operations including noise from all vehicles on the haul road, crusher activities, and impacts on sensitive receivers 	5.3
	<ul style="list-style-type: none"> Assess noise from vehicles associated with the operations on public roads and impacts on sensitive receivers. 	5.3
	<ul style="list-style-type: none"> Assess blasting and vibration impacts associated with the operations. 	5.4
WATER MANAGEMENT		
DPE	<ul style="list-style-type: none"> Include surface water impacts at an appropriate level of assessment. 	5.5
	<ul style="list-style-type: none"> Include groundwater impacts at an appropriate level of assessment. 	5.6
DPI - Water	<ul style="list-style-type: none"> Include details of current water use and source of water used for the quarry, including the identification of an adequate and secure water supply for the life of the project. 	3.10
	<ul style="list-style-type: none"> Include confirmation that water can be sourced from an appropriately authorised and reliable supply. 	5.6.4
	<ul style="list-style-type: none"> Outline any current water licences for the operations including monitoring bores. 	N/A
	<ul style="list-style-type: none"> Provide a detailed and consolidated site water balance. 	5.6.4
	<ul style="list-style-type: none"> Provide a detailed assessment against the NSW Aquifer Interference Policy (2012) using the NSW Office of Water's assessment framework. 	5.7

Table A2.1
Relevant Matters to be Addressed Raised by Government Agencies

Page 3 of 3

Government Agency	Paraphrased Requirement	Relevant EA Section(s)
WATER MANAGEMENT (continued)		
DPI – Water (con't)	<ul style="list-style-type: none"> Assess impacts of the quarry and proposed modification on surface and ground water sources (both quality and quantity), related infrastructure, adjacent licensed water users, basic landholder rights, watercourses, riparian land, and groundwater dependent ecosystems, and measures proposed to reduce and mitigate these impacts. 	5.6
	<ul style="list-style-type: none"> Provide details on final quarry depth to groundwater level, and outline if groundwater is expected to be intercepted as a result of Stage 2 Quarry Operations. 	5.7
	<ul style="list-style-type: none"> Provide Current and proposed surface and groundwater monitoring activities and methodologies. 	2.3.2.3
	<ul style="list-style-type: none"> Include current and proposed management and disposal of produced or incidental water, if applicable. 	3.7
	<ul style="list-style-type: none"> Assess any potential cumulative impacts on water resources, and any proposed options to manage the cumulative impacts. 	N/A
	<ul style="list-style-type: none"> Include a statement detailing where department matters are addressed in the EIS (i.e. in the form of a table). 	Table A2.1
EPA	<ul style="list-style-type: none"> Describe and assess water management on site. Include: <ul style="list-style-type: none"> Sedimentation ponds Potential for discharge Sensitivity of surrounding environment 	3.3.1, 3.4.1,5.6
AIR QUALITY		
DPE	<ul style="list-style-type: none"> Include an air quality impact assessment in accordance with the Environment Protection Authority's guidelines for such assessments; 	Appendix 5
EPA	<ul style="list-style-type: none"> Assess air quality impacts. <ul style="list-style-type: none"> Include a description of all emissions. 	Appendix 5
	<ul style="list-style-type: none"> Include a specific description of proposed dust management strategies. 	5.3.4
REHABILITATION		
DPE	<ul style="list-style-type: none"> Include proposed rehabilitation at an appropriate level of assessment; 	3.13
DPI - Water	<ul style="list-style-type: none"> Provide details surrounding the final landform of the site including rehabilitation measures. 	3.13
OTHER		
DPE	<ul style="list-style-type: none"> Include an economic impact assessment of the proposed modification; 	5.10
	<ul style="list-style-type: none"> Include visual impacts at an appropriate level of assessment; 	3.13, 4.2, 6.2.2
EPA	<ul style="list-style-type: none"> Assess any implication for waste storage and recovery activities undertaken at the premises 	3.7
N/A = Not Applicable		