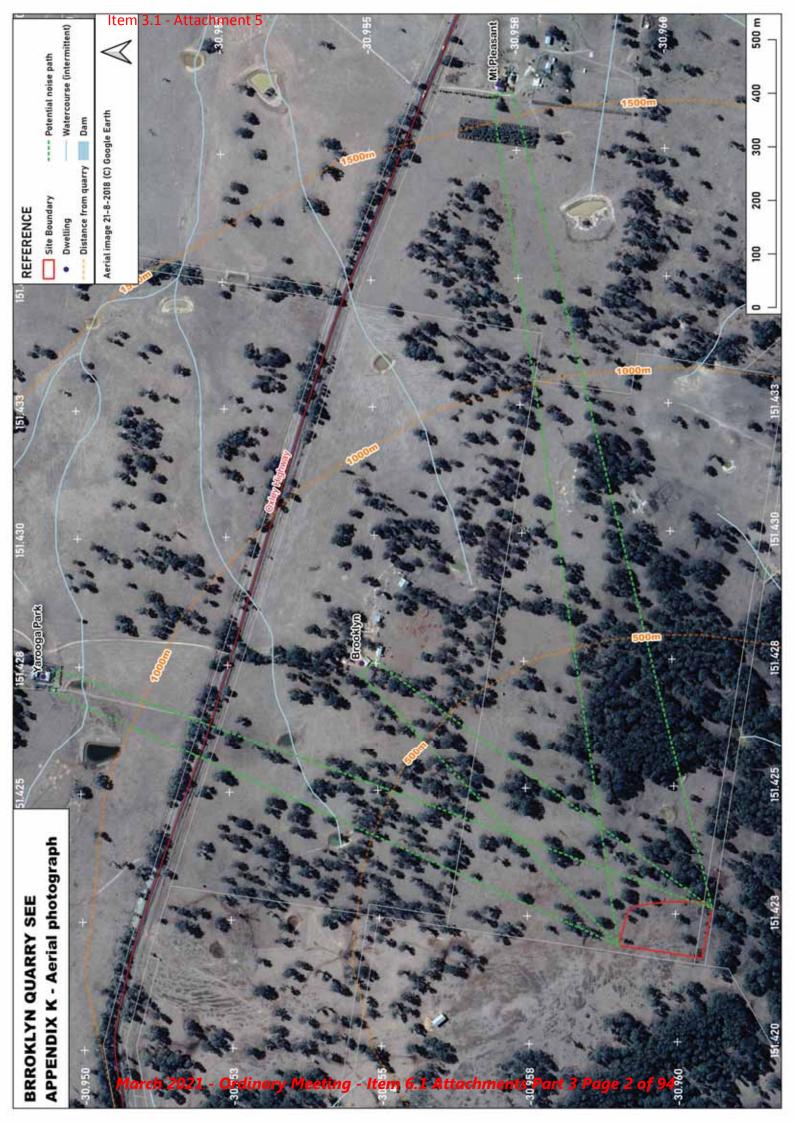


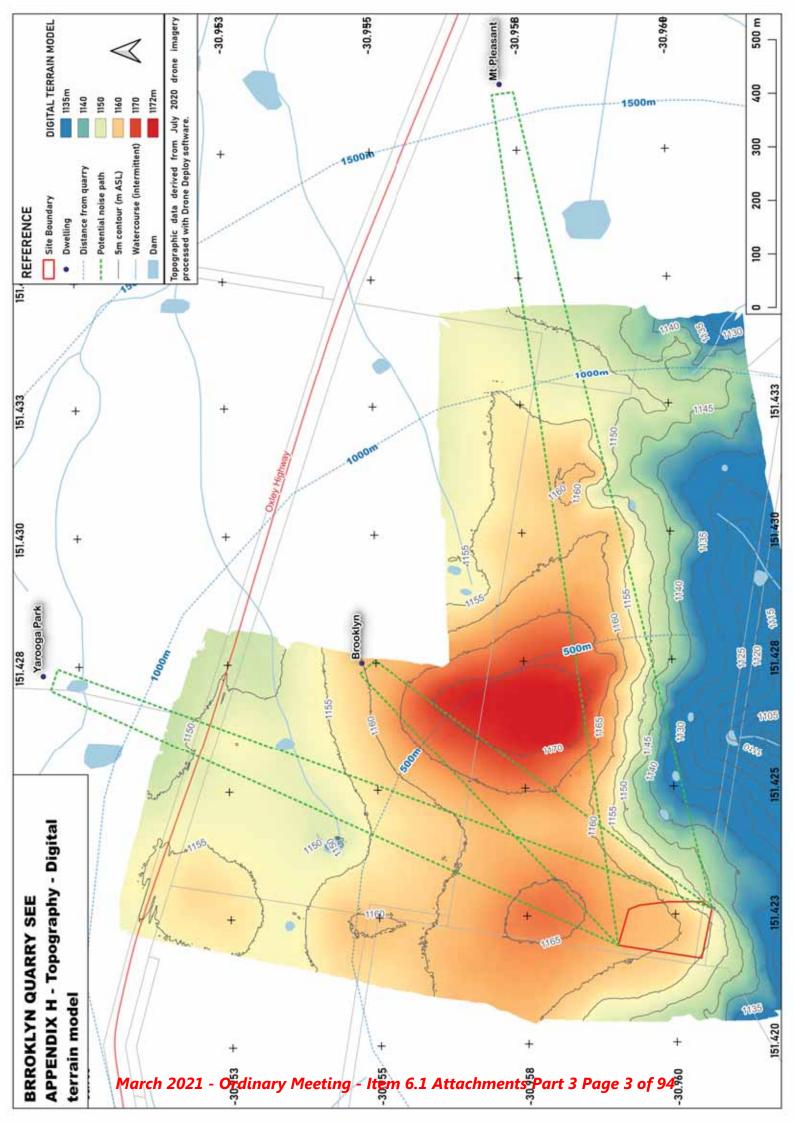
Walcha Council Ordinary Meeting Wednesday, 28 April 2021

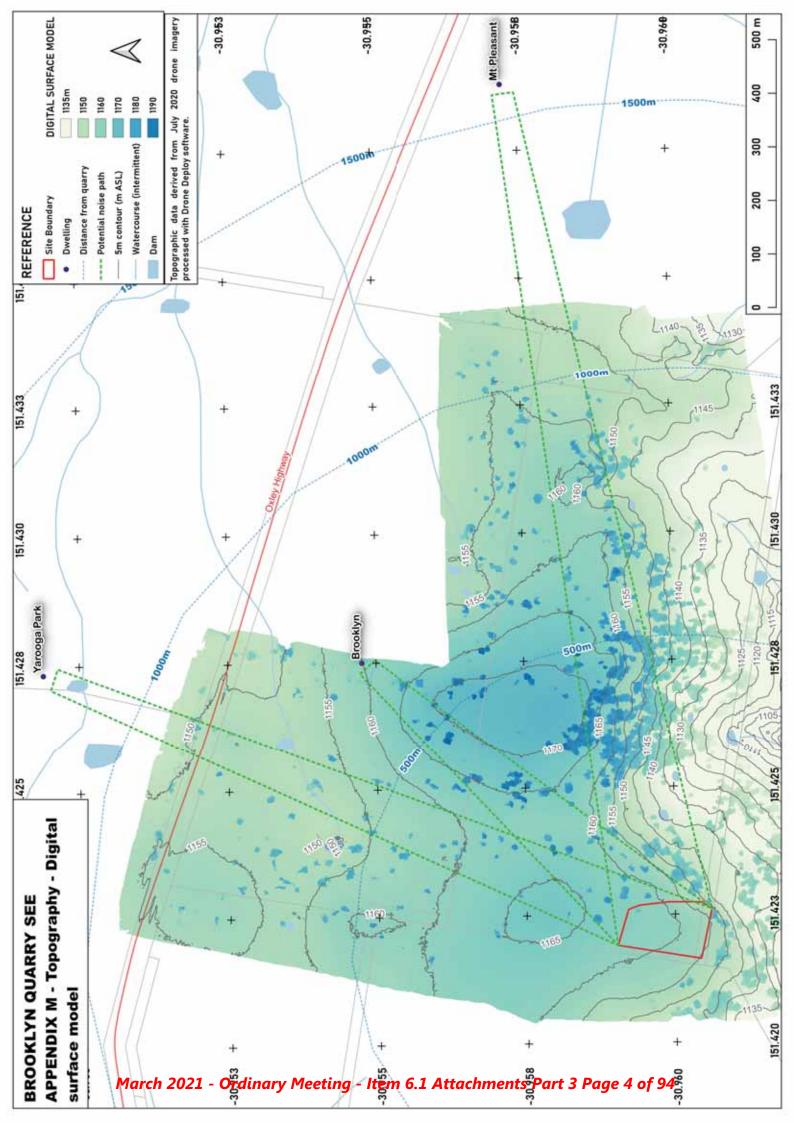
Item 6.1 – Development Application 10.2020.3 – Brooklyn / 1643 Oxley Highway Walcha – Basalt Quarry – Attachments Part 3

Attachments:

- 5. Statement of Environmental Effects Appendix K-M
- 6. Neighbour Letter of Support
- 7. Submission James Norton
- 8. Submission Janet Norton
- 9. Submission Norton & Chevrot
- 10. Submission Omega Planning
- 11. Transport NSW Response
- 12. Geological Survey of NSW Mining, Exploration & Geoscience Response
- 13. Development Assessment Report
- 14. Development Engineers Assessment Report
- 15. Aboriginal Heritage Information Management System (AHIMS)







Strathleigh Grazing Pty Ltd
C/- 137 Beardy St
Armidale NSW 2350

Ph: 0413 206 090

To whom it may concern,

Quarry - "Brooklyn", Walcha

We are writing as the neighbouring landholder of "Brooklyn" Walcha, the property in question which is subject of a DA with Walcha Council currently being applied for.

As a director of Strathleigh Grazing Pty Ltd, I can confirm that I have consulted with Mr John Boughton, shareholder and director of the company with regard to the matter of the quarry on the neighbouring property.

We are both in support of the proposed quarry, based on the information received to date.

Should you require further information, please contact my mobile.

Regards

Nathan Gilbody

Director - Strathleigh Grazing Pty Ltd

Pinnacle Walcha NSW 2354

22nd April 2020

The General Manager Walcha Council 2W Hamilton St Walcha NSW 2354

Per email: council@walcha.nsw.gov.au

Dear Madam/Sir

RE: DA 10.2020.3

Proposed Basalt Quarry at Brooklyn, 1643 Oxley Hwy, Walcha

I currently Lease the property Mt Pleasant from my sister and brother-in-law. This Lease runs for 5 years from the beginning of this year.

The Lease has been based on the carrying capacity of the land, the number of paddocks and the availability of trough water in each paddock and a back up with dams in most paddocks.

The reliability of the bore and the trough system during the last two years has been invaluable as all dams gradually dried up. All dams drying completely hasn't occurred in the more than 50 years the farm has been with my extended family.

Should the bore water supply be negatively affected in any way, the Lease will be broken as the management of the farm will have to change and the carrying capacity will be reduced.

I am concerned that the proposed quarry will pose a risk of interference with the aquifer that supports the Mt Pleasant bore. I therefore object to this development, unless it can be 100% guaranteed by the applicants that the proposed quarry will not pose any threat whatsoever to Mt Pleasant's bore water.

Yours Faithfully

James Norton

Item 3.1 - Attachment 8

Janet Norton Mount Pleasant 1531 Oxley Highway Walcha NSW 2354

Letter of Objection

Submission from Janet Norton, resident at "Mt Pleasant", concerning Development Application No: 10.2020.3 for a Basalt Quarry

I was in complete shock when I received a phone call from Matthew Goodwin who alerted me to my next door neighbour's intention to build a basalt quarry on his property, "Brooklyn". While I now realise that 'extractive industries' are 'permissible' with consent on Rural zoned lands - I strongly object to the quarry development because it will have significant adverse groundwater impacts, dust impacts, noise impacts and traffic/road safety impacts.

As my home is due east of the proposed site and my property boundary 1 km away, my property would be most immediately affected by this development.

The basis for my objections to the DA are as follows.

1. Groundwater

The Statement of Environmental Effects (SEE) lodged in support of the DA does not recognise or address any impacts that the development will have on the existing bores and underground aquifers. The groundwater systems are relied upon heavily by my property and neighbouring farms for stock and domestic water supply. The current systems play an integral role in improving stock health and enhancing grazing and groundcover management. Use of these groundwater systems has been supported by government with financial assistance for infrastructure. These systems have allowed the community and myself to better manage our farms, particularly in times of stress and water scarcity.

The SEE fails to assess any risk that the water supplies could be compromised as a result of the development. If these systems were jeopardised, it would have a devastating impact on the long and short term functionality of our local farm enterprises and significantly impact broader community. My farm, like so many others is heavily reliant on bore water and the trough watering infrastructure that it enables. This water resource allows for improved stock health, improved grazing and groundcover management, and better decision making and resilience in times of stress such as the very recent/current drought. The SEE is not supported by any hydrology report and fails to assess the aquifers in relation to location, extent, depth and recharge areas.

Recently, I spoke with two locals who are familiar with my farm and others surrounding the proposed quarry site. During these conversations, we discussed the cave-like voids that exist underground along the higher ridges to the north of Brooklyn property, their possible susceptibility to vibration from blasting and their connection to water flows. On the property Brooklyn itself I was told that at times, the water rises up to the basalt outcrop and forms shallow pools on the surface. It is

remarkable that this occurs given that the property is located at such a high point, however it clearly demonstrates that there is there is movement in the groundwater at the proposed quarry site. The SEE fails to undertake any detailed expert assessment of this issue, or any adequate consultation with local stakeholders in relation to the operation of the groundwater and aquifer systems in the area.

2. Soil profiling

I visited the proposed quarry site on Saturday 18th April 2020 with Warwick Sivell (geologist) and the author of the SEE, Matthew Goodwin. We looked over the exploratory trenching that had been done on site and examined the rocks and soil that had been thrown up by the excavator. Matt told us that no drilling had been done to assess the actual depth and range of the basalt cap, nor the quality and usefulness of the resource. Accordingly, there are no soil profiles that have been done in relation to the site. The soil descriptions in the SEE are generalised and/or only represent expected profiling, rather than actual profiling. It is unacceptable that these standard initial steps have not been undertaken and I fail to see how a DA can be approved to allow the mining of a resource that has not yet been defined.

3. Dust

The proposed quarry site is located on top of the Great Divide; a high point that is highly exposed to wind. The SEE has only assessed impacts of dust and noise using data taken from the Woolbrook weather station. The Woolbrook weather station is 7.4km west of the proposed quarry site and over 200m lower in elevation. This data does not describe the wind conditions at the proposed site, nor indicate the likely impact of dust and noise that would be produced by the quarry. Accordingly, the conclusion drawn in the SEE that there will be no significant dust impacts is incorrect. I am perplexed as to how a quarry can operate on a windy hill and have no dust. Based on my knowledge of the area and having visited the site, prevailing westerlies will carry dust from blasting and crushing activities and from the movement of heavy machinery and trucks, that will impact my property and other adjacent landholders in the region.

4. Noise

On still days and particularly in mornings and evenings, the noise produced by quarry activities will carry for kilometres. As it is, I can already often hear gears changing in trucks 2-3 km away from my home, brakes being applied or released and dogs barking on the back of utes. Quarry activity will be extremely loud and clear at my property and so many others in the region.

In rural areas, sounds can carry for many kilometres and it seems obvious that noise produced by quarry activities will be heard by neighbouring farms, and probably the residents at Walcha Road. No reasonable attempt has been made in the SEE to determine the actual noise impact on my property and whether it could be reduced to an acceptable level.

5. Traffic and road safety

Approval for a heavy vehicle entrance from Oxley Highway to the proposed site will be required, *prior* to the commencement of any quarrying activity. I presume that the

NSW RMS will need to be involved before the DA can move forward. Any concession will be hazardous to other road users.

The entry/access road will create an imposition on other road users and cause increased traffic on the highway. It must be recognised that the entry will not be used for occasional large truck as with normal farming enterprises but will need to be built based on carting out 34 tonne loads of material on a frequent and regular basis. It is a trucking business as much as a mining one. Accordingly, the requirement to install and maintain signage is inadequate and will cause a risk to other road users. Proper traffic assessments must be undertaken by the Applicant to determine whether for example, a passing or slip lane should be constructed as part of the entrance requirements, to ensure the safety of the community and employees of the quarry.

The proposed future purpose-built entrance to the quarry, west of the current Brooklyn one, is very close to the top of Walcha Road Hill. This section of road is notoriously known for its blind spots travelling East in the early morning and for travelling West in the late afternoon. This section of road is already quite dangerous and the increase in large trucks and traffic will only make it worse, particularly when there are slippery conditions on frosty mornings and after snowfalls. To help alleviate this hazard, a passing or waiting lane would be needed at the proposed entry point.

My house is just 140m from the Oxley Highway and I am very aware of roads and traffic. I have serious concerns that the existing road is not suitable to cater for the increased number of large trucks and inevitable increase in overall traffic that will be caused by the quarry. Currently, there are no passing lanes on the Oxley Highway between Walcha and Bendemeer and I do not believe that the road is wide enough for large quarry trucks to be regularly entering and exiting the highway. On this basis, the development and operation of the quarry poses road safety issues for both the community and road users generally. This impact has not been addressed in the SEE.

I object to the development of the basalt quarry being approved as there are a number of unknowns and impacts which will significantly impact my property, the Walcha community and our surrounding environment.

Janet Norton

Email: janetblythnorton@bigpond.com

Phone: 0427773917 and 02 6775928

Item 3.1 - Attachment 9

Danielle Norton & Paul Chevrot 32 Fowler Crescent Maroubra, NSW, 2035

Letter of Objection

Submission from Danielle Norton and Paul Chevrot, joint owners of "Mt Pleasant", concerning Development Application No: 10.2020.3 for a Basalt Quarry

I am writing on behalf of my husband Paul, and I, to express our objection to the quarry development application No 10.2020.3 on "Brooklyn", the property next door to our property "Mt Pleasant". Our property boundary is only 1km away from the proposed quarry site, and the "Mt Pleasant" residence only 1.5km due East from the proposed site.

Paul and I took over the ownership of "Mt Pleasant" from my mother, Janet Norton, in February 2020. My mother continues to reside on the property and my brother, James Norton, has a 5 year lease (+ 5 year option) on the main part of the property. My husband and I intend on moving to Walcha to live on "Mt Pleasant" with our two daughters in 5-10 years. I am concerned that the proposed quarry development could have adverse affects for us, as owners and future residents of "Mt Pleasant", but also for my mother as current resident, and my brother as lessee.

Our objection is primarily based on our concerns that the Statement of Environmental Effects (SEE) lodged in support of the DA does not adequately address the potential impacts the proposed development could have on the aquifers in the region, and therefore to the bore water on our property. The SEE does not include a hydrology report and does not assess the effects of the blasting to the aquifers in the area. Both the experts we have engaged, Dr Peter Flood (Hydrogeologist) and professor Warwick Sivell (Geologist) have categorically said that the proposed development could well affect the aquifers in the area, and thus adversely affect the security and reliability of the bore water on Mt Pleasant, and other nearby farms.

This information is of upmost concern to us as my mother went to a lot of trouble and expense in 2014 to re-equip the bore on Mt Pleasant and to reticulate the water to troughs in each paddock on the farm. This bore has proven to be totally reliable for around 50 years, even during the severe drought experienced last year. The bore and the watering system play an integral role in improving stock health and enhancing grazing and groundcover management, particularly during drought.

My husband and I decided to take over the ownership of the property with the understanding that the bore fed watering system in place was a secure and reliable one. The current operations on the property (including the running of stock by James the lessee) are reliant on this bore water. Indeed my brother James signed the 5 year lease (+5 year option) based on the continuity of this secure and reliable water source. If the proposed quarry development negatively affected the aquifer that feeds our bore, this 5 year lease (and 5 year option) would be put into jeopardy – thus leading to a potential problem with our mortgage which is dependent upon this lease.

The SEE for the proposed quarry development does not adequately address the potential noise and dust pollution that will affect the residents at Mt Pleasant. The SEE only briefly assessed the potential impacts of dust and noise using data taken from the Woolbrook weather station, a station that is 7.4km west of the proposed quarry site and over 200m lower in elevation. This data does not describe the wind conditions at the proposed site, nor does it indicate the likely impact of dust and noise that would be produced by the quarry. Any conclusions drawn from this data are therefore insufficient.

What is more, we feel that the potential impacts of this proposed quarry development are unable to be assessed due to insufficient detail in relation to project duration (no end date), and size of development (depth of quarry, volume of aggregate to be extracted, and frequency of blasting etc).

We are also concerned that the that the limited information provided in the SEE is vague and 'conceptual' (using "ideal" and best-case scenarios etc) which results in uncertainty as to what would actually come to pass (including the impact on our ground water and the noise and dust levels etc) should the quarry be allowed to be developed.

We also object to the inadequacy of this SEE in so far as it claims that the applicant will deal with any potential issue at a later stage after development consent has been granted. In terms of water security, this is not nearly sufficient, as we understand that once aquifers have been disturbed or drained, it is near impossible to rectify the problem.

As for future uses of the farm - my husband Paul and I plan to move to Mt Pleasant with our two daughters in the next 5-10 years and live in the residence currently occupied by my mother. We have plans to further develop the business on the farm, all while respecting the food and fibre history of land use in the area. This may include truffle orchards, grass fed pork, beekeeping, native tree plantations and foliage business, or wool fibre/yarn production (or a combination of these). We are looking at a few possibilities but all these future plans are dependent on our secure and reliable aquifer fed bore watering system, and a dust free environment. Our plans also include on farm agritourism and/or eco-tourism...which I would hope could deliver benefits to the community with potential employment opportunities and additional tourism in the district. We fear that regular blasting and possible dust/noise pollution from a quarry are not favourable to developing a successful agritourism/eco-tourism business.

We are also upset about the proposed quarry development as we feel it is in conflict with the rural character of the land in the district. My husband and I took over the ownership of Mt Pleasant with the view to handing the farm down to our daughters in the future. We love the area for its traditional rural characteristics of extensive grazing, the peace and quiet with only intermittent traffic, clean air, picturesque landscapes and sense of community. These are also features of the district that visitors value and talk about. If diminished, these characteristics and the future value and tourism potential of the area are put at risk.

We are also concerned for the health of the current and future occupants of the Mt Pleasant residents should this quarry development go ahead. We fear that the noise and dust pollution from such a quarry would have an adverse affect on the mental health of my mum as she holds dear the peace and quiet of life at the farm. We are also worried that the potential dust pollution from such a development will affect our youngest daughter who suffers from asthma and various respiratory problems. At present we visit Mt Pleasant with our daughters every school holidays for 1-2 weeks (as we have done for the last 8 years). We value the clean air and serenity during our visits to the farm. We are concerned that any dust pollution from a quarry on "Brooklyn" could lead to my daughter having asthma attacks and could further impact her already fragile lungs.

In summation, we object to the development of this quarry on the basis that the SEE provided is inadequate in its assessment of the potential impacts to the aquifers in the region and thus cannot demonstrate that there is no threat to the security and reliability of the bore water on Mt Pleasant (and other farms within the vicinity). This puts the current farming enterprises, and also our future plans for the property, in jeopardy. We also object to this development because the SEE does not adequately evaluate the potential noise and dust pollution for the (current and future) residents on Mt Pleasant. We also think that the project is incompatible with the rural character of the land and current and future rural-residential, agricultural and tourism uses in its vicinity. As such, we feel that the project warrants a much more comprehensive assessment of these matters before any DA can be accepted.

Sincerely, Danielle Norton

For Danielle Norton and Paul Jean Andre Chevrot - Joint owners of the property "Mt Pleasant"

Email: danielle.chevrot@gmail.com / Tel: 0405 605 022

Item 3.1 - Attachment 10

29 April 2020

By email: council@walcha.nsw.gov.au

Anne Modderno
General Manager
Walcha Council
2W Hamilton St
Walcha NSW 2354
Copy to:
Libby Cumming, Council Planning Officer
planning@walcha.nsw.gov.au

Dear Ms Modderno

Letter of Objection

DA 10.2020.3 - Proposed Basalt Quarry at Brooklyn, 1643 Oxley Highway, Walcha

We have been engaged to lodge a submission on the DA on behalf of the owners and occupiers of the property at Mount Pleasant, located at 1531 Oxley Highway, Walcha. Danielle Norton and Paul Chevrot own the property to which Ms Norton's mother, Janet Norton, is the primary resident. Further, Danielle Norton's brother, James Norton, holds a lease over part of the property to carry out cell grazing activities.

The Development Site is located about 1km from the western boundary of our client's property. Our clients are greatly concerned about the potential impact of the proposed quarry on local aquifers, and the potential for this to have material adverse impacts on the reliable bore water that has continued to deliver good quality stock and domestic water to our clients' property (even during the drought) and adjacent properties in the locality. This bore water provides our clients' primary source of water for the property – with Janet Norton relying on the groundwater for domestic purposes and James Norton relying on it to carry out cell grazing activities under his lease. As such, any disruption or contamination of the aquifer would cause serious social, economic and environmental impacts in the locality arising from the sterilisation of existing agricultural use of that land, adverse impacts to our clients' amenity and any likely proposed future uses of the land that will deliver benefits in the locality (such as bee keeping, livestock grazing, plant nurseries, roadside stalls and the potential for an eco-tourist facility). Our clients' are also concerned about the potential adverse dust and noise impacts on the amenity of the property – particularly for Janet Norton who resides at the property.

For the detailed reasons set out in this submission, we submit that the DA should be refused for the following key reasons:

- (a) the proposed quarry will give rise to unacceptable adverse groundwater impacts, dust impacts, noise impacts and traffic safety impacts;
- (b) the proposed quarry is not in the public interest;
- (c) the DA is 'designated development' under the *Environmental Planning and Assessment Act 1979* (**EP&A Act**);
- (d) the DA contains insufficient information in relation to:
 - extraction rates and area there is uncertainty in relation to the maximum depth of the quarry and the lifespan of the quarry;
 - (ii) justification of the need for the proposed quarry including the size and quality of the basalt resource, market demand and alternative sites analysis;
 - (iii) quantitative and qualitative impacts of groundwater impacts, dust impacts, noise impacts and traffic safety impacts; and
 - (iv) social and economic impacts in the locality.

As part of the review of the DA, we have sought the expert opinion of Emeritus Professor Peter Flood (Hydrogeologist) (**Attachment 'A'**), Dr Warwick Sivell (Geologist) (**Attachment 'B'**) and Ben Fuller (Gilbert + Tobin Lawyers) (**Attachment 'C'**).

PART 1. MERIT ISSUES

Section 2.2 – Resource and Section 3.2 Geology

There is an obvious lack of geological investigations at the site and inadequate information provided by the Applicant on both the quantity of the purported basalt deposits as well as its quality. Statements such as "Geological and geophysical observations suggest that there is likely to be a profile of usable rock of about 30 metres", and in "ideal circumstances there may be up to about 450,000 cubic metres of rock and gravel that could be extracted". Clearly, no in depth studies have been undertaken of the stratigraphy, and there is no evidence of any test boreholes having been done. This leads to much uncertainty in this proposal including:

- The size and quality of the usable resource and thus the potential demand and need, if any, for the resource in the locality including whether it can be used by 'local users for concrete production, road sealing, road base and similar purposes'; and
- uncertainty surrounding the scope of activities proposed at the site and thus the extent of noise, dust generation and traffic impacts.

Dr Sivell notes in his report that the proposed quarry site (and indeed the region more broadly) comprises an 'aquifer of relatively unconsolidated Tertiary sediments... immediately underlying basalt flows and fragmental basaltic pyroclastics (ash tuff and volcanic agglomerate)'. In respect of the basalt flows, Dr Sivell has stated that the 'basalt appears very fine grained, indeed glassy, due to rapid quenching, and therefore likely to weather very rapidly, further detracting from its viability'.

Having regard to this, it is apparent that necessary studies have not been undertaken at the site, as the SEE does not sufficiently detail the quantity and quality of the proposed resource in light of its proposed end-use. Therefore, the assessment of other components of the proposal, such as the social and economic benefits put forward in the SEE, are similarly flawed.

Section 2.3 – Extraction Methods.

The proposal states "Under ideal conditions the quarry will reach a maximum depth of 30 metres and a surface area disturbance of 1.98ha". It is not clear what "ideal conditions" are. Indeed, in the absence of any bore samples, it is possible that usable rock could be found at depths greater than 30 metres, thus posing an even more threatening process to local aquifers. The ambiguity in the SEE regarding the amount of cubic meters to be extracted further highlights the uncertainty as to the impacts of the proposal and the measures that would be required to mitigate such impacts.

For example, extraction will involve blasting, and this is obviously a source of noise nuisance. It is noted that the proposed quarry is at a relatively high altitude, and at least one nearby property, Mount Pleasant, has no landforms (hills) between it and the proposed site to attenuate noise. The frequency and extent of extraction measures would therefore greatly influence the noise impacts associated with the proposal.

No technical assessments as to likely noise levels at different receptor points have been provided in the proposal – such information will need to be provided in order for Council to undertake a proper assessment of the noise impacts of the proposal.

The SEE seeks to justify the proposed quarry by reference to the 'likely market for gravel and aggregate' which is not supported by any empirical analysis.

Section 2.4 – Processing.

The onsite processing of rock (splitting and crushing) will also be a source of noise generation. As detailed in my discussion of Section 2.3 above, no attempt has been made to quantify the likely noise generation of such machinery which can, in this author's experience, be quite significant. The SEE does not provide sufficient detail on the proposed processing to occur, simply detailing that 'the site will be subject to some form of processing' including the use of 'hydraulic splitters and/or hydraulic hammers' as well as 'crushing'.

Section 2.7 – Traffic.

Whereas the applicant indicates the need for a new highway access point to be constructed and indeed proposes this, it is not clear if this is to happen prior to operation of the proposed site. The SEE suggests that certain road safety upgrades will only occur once the quarry is economically viable (that exceeds 100,000 cubic metres). This approach to traffic safety impacts is not acceptable for a quarry. Information about the road corridor provided by my client is that the existing property access would be unsafe for use by heavy vehicles, and that the new access would be needed before operations commence.

No adequate traffic safety analysis has been carried out by the applicant. In particular, the Applicant has not provided any detailed assessment of traffic impacts and associated mitigation measures, including a proper assessment of the proposal against the 'vehicular access requirements' at clause 4.5 of the Walcha Development Control Plan 2019. Additionally, the Applicant has not undertaken any traffic surveys or provided a proposed traffic management plan, which would be necessary for a development of this nature. No consultation has been carried out with RMS even though the access road is a main road.

This presents an unacceptable safety risk given the proposed access located on Oxley Highway is notorious for low visibility when travelling east in the early morning, when travelling west in the late afternoon, and for slippery and icy road conditions on frosty mornings and after snow.

In relation to internal access the proposed all-weather soil and gravel access road will be a point of dust generation which is of concern to our clients. This is addressed further in a subsequent section.

Section 2.8 Economic Impacts

The SEE's analysis of this issue is limited to referring to potential social and economic benefits – which are not supported by any empirical analysis of the quality of the resource or market demand in the area.

In particular, the SEE states that 'Currently all high quality aggregate is sourced from other towns in the region.... A local quarry could be expected to significantly reduce such costs'. There is no empirical study or evidence of stakeholder consultation which supports that statement.

There is no attempt by the SEE to consider potential adverse social and economic impacts in the locality that may arise from the proposed quarry such as, among other matters, sterilisation of agricultural land or impacts to existing and likely future land uses in the vicinity of the Development Site.

Section 2.10 End Date

The SEE provides no comfort about the lifespan of the proposed quarry and notes that extraction rates are likely to be highly variable. This will result in a void potentially existing at the property for many decades. The property (and adjacent properties) are currently being used for cattle and sheep grazing. There is no consideration of the potential adverse impacts of the sterilisation of the agricultural use of the land, or adverse impacts to adjacent agricultural uses.

Section 2.11 – Alternatives

The SEE's assessment of alternative sites is materially deficient. It is limited to a consideration of alternative sites within the "Brooklyn" property only. A proper assessment of alternative sites should not be limited in this manner for the purposes of the EP&A Act. There is no consideration of alternative sites within the locality, or analysis of the 'do nothing' scenario.

Section 3.3 – Climate.

Observations for wind speed and direction are provided from the Woolbrook weather station approximately 7km away. It is noted that it is also quite a bit lower in the landscape at 910m (compared to 1160m of the proposed quarry). Local advice is that the prevailing southwest to northwest winds can be quite a bit stronger than those recorded in the valley at Woolbrook. This has the potential to spread any dust plumes much more significantly than the more modest winds at Woolbrook.

Section 3.4 – Water.

Of perhaps most concern in this proposal, is the absence of any substantive test data on the presence (or otherwise) of aquifer(s) that could be at risk from the proposed quarrying operations. The recent drought has reminded us of the extreme importance of reliable good-quality water sources and any proposal which could put these at risk needs to be carefully vetted. This risk is of

pivotal importance for our clients, who are reliant upon the groundwater resource for both stock and domestic uses.

The key issue with the SEE is that it fails to provide any adequate assessment of the groundwater and likely impacts associated with the proposal. To the extent that any statements are made in the SEE they are inconsistent with our clients' expert evidence on this issue made by Professor Flood and Dr Sivell, being experts in this field.

For example, the author of the SEE, Matthew Goodwin, makes the assertion that "no rock units with significant porosity have been identified on or near the quarry site", despite having no hydrogeological qualifications. Professor Flood on the other hand has advised that "Basalt flows commonly have a high level of conductivity i.e. ability for groundwater flow."

Mr Goodwin has also stated that "there are no nearby permanent watercourses, wetlands, springs or other features suggesting the presence of a near surface aquifer". However, he has failed to identify and plot the location of nearby bores that are relied upon by other landowners, evidencing the presence of groundwater. Further, he fails to make relevant geological observations which actually indicate the presence of near surface groundwater. For example, Dr Sivell has observed that the old stream channels of tertiary sediment deposits (where groundwater would be present) 'are likely to be meandering and erratic beneath the basalts.' Further, Dr Sivell observes that 'in places, tertiary sediments crop out at the surface'. This highlights the need for a proper assessment to determine whether, and at what level, groundwater is present at the site, so that the Council can understand the impacts on any groundwater arising from the proposed quarry.

In terms of impacts, Professor Flood has stated that if 'there is a water table and it is above the 1120m level the pit would impact on the groundwater because the cone of depression around the pit... would result in a radial flow in the surrounding area to the North and East of the pit. This could impact on any water bore or water well in the immediate vicinity'.

As stated by Dr Sivell, disruption to the aquifer could have 'catastrophic' consequences for dependent bores such as our clients' – in circumstances where remediation of a damaged aquifer is 'fraught with difficulty, extraordinarily expensive, and generally impossible.'

Therefore, the possibility of adverse impact on the aquifer(s) is of major concern, and we contend that the Applicant has not adequately investigated this risk, nor indicated how they would mitigate it. Section 4.15 of the *Environmental Planning and Assessment Act 1979 No 203* (the EP&A Act) requires, among other things, that consideration must be given to "... the likely impacts of that development, including environmental impacts on both the natural and built environments, and social and economic impacts in the locality...". Further, the Walcha Local Environment Plan 2012 has the aims:

- (a) to encourage the orderly management, development and conservation of resources by protecting, enhancing and conserving—
- (i) land of significance for agricultural production, and
- (ii) timber, minerals, soils, water and other natural resources,...

Clearly, based on the above legislation and environmental planning instrument, it is a requirement that natural resources, and in particular water in this case, must be protected, enhanced and

conserved. Significant and irreversible damage to the aquifer(s) would clearly not satisfy this criterion.

Section 4.1.3 – Dust from excavation and crushing operations.

As noted earlier, the prevailing afternoon winds from a general westerly direction (southwest through northwest) can be quite strong at times (much more so than recorded at the Woolbrook weather station). There is potential for dust to adversely affect our clients' property because Mt Pleasant is located east by north east of the proposed quarry at a distance of around 1,500 metres. The Applicant has undertaken no adequate quantitative or qualitative analysis of dust impacts.

Section 4.1.4 – Noise.

No attempt has been in the SEE at undertaking quantitative or qualitative assessment of the likely noise impacts. Blasting and the use of rock crushing/processing equipment will generate significant noise. The homesteads at both Brooklyn and Yarooga appear from topographic mapping to be shielded by landform (hills intervening) from the proposed quarry, however our clients' premises does not have any such topographic shielding and could well suffer significant noise nuisance.

Section 4.3.1 – Access and Dust.

A new unsealed access road is proposed for hauling from the extraction site to the access road (Oxley Highway). It is proposed to employ four limited strategies to reduce dust generation including the use of a water cart during dry and windy conditions. However, higher traffic volumes during such conditions could generate quite a lot of dust and, as we have seen during recent drought conditions, water sources can be compromised such that no water is available for such purposes. This could lead to significant dust plumes being created and transported during dry and windy weather.

Section 5.5 Consultation

No meaningful consultation with our client has occurred.

Section 6.1.2 Mining SEPP 2007

No adequate assessment of impact on land uses has been undertaken for the purposes of the Mining SEPP 2007. The SEE and attached Land Use Conflict Risk Assessment at Appendix A is materially deficient for the following key reasons:

- it fails to identify:
 - 1. existing, approved and likely preferred land uses in the vicinity;
 - 2. whether or not the development is likely to have a significant impact on the uses that, in the opinion of the consent authority having regard to land use trends, are likely to be the preferred uses of land in the vicinity of the development;
 - 3. any ways in which the development may be incompatible with any of those existing, approved or likely preferred uses;
- fails to evaluate and compare the respective public benefits of the development and the land uses referred to above; and
- fails to put forward and evaluate any measures proposed to avoid or minimise any incompatibility.

The SEE states that the proposed quarry is compliant with clause 15 of the SEPP because it will 'extract rock in an orderly manner subject to demand'. That is not the matter for consideration under clause 15 – but rather clause 15 requires Council to consider the efficiency of the development in terms of resource recovery. As set out above, the SEE provides no certainty about extraction rates, area of lifespan of the quarry. Accordingly, the efficiency of the development is unknown.

The SEE also fails to adequately address the requirements of clauses 14, 16 or 17 of the SEPP.

Section 7.1. Biodiversity Offsets Scheme Threshold.

The applicant incorrectly states that as "there is less than 0.5 hectare of remnant woodland ... the proposal will not exceed the area clearing threshold". In fact, "native vegetation" is taken to be defined as follows for the purposes of the Biodiversity Legislation:

- 60B Meaning of "native vegetation"
- (1) For the purposes of this Part, native vegetation means any of the following types of plants native to New South Wales—
- (a) trees (including any sapling or shrub or any scrub),
- (b) understorey plants,
- (c) groundcover (being any type of herbaceous vegetation),
- (d) plants occurring in a wetland.

(Local Land Services Act 2013 No 51).

As native vegetation includes understorey plants and groundcover, then the area of the whole development site (1.98ha) needs to be taken into consideration. This exceeds the trigger area of 1 ha thus triggering the need for formal assessment under this legislation.

PART 2. LEGAL ISSUES

I have sought legal advice form Gilbert + Tobin Lawyers with respect to the proposed quarry. The advice provided has raised 2 key legal issues of concern for Council in its assessment of the development application, discussed below.

Approval Pathway

In the letter of advice received from Gilbert + Tobin Lawyers (see attachment C), it is stated that the SEE has erroneously concluded (at section 6.5.2) that the DA is not a form of 'designated development' for the purpose of the EP&A Act and the *Environmental Planning and Assessment Regulation 2000* (EP&A Regulation). The advice provides that, on a proper construction of the definition of 'designated development', the proposed development triggers the threshold for designated development and therefore, must be assessed as such.

Inadequate information

Gilbert + Tobin have separately advised that the development application, as currently put to Council, fails to provide sufficient information on the nature of the proposed quarry and associated impacts.

Under clause 50(1)(a) of the EP&A Regulation, a development application must provide relevant and sufficient supporting information to allow the consent authority to undertake a proper assessment, before any lawful grant of consent.

A development application will be rendered ineffective, incomplete and incapable of approval, if it does not contain the information required under the relevant planning and environmental legislation. Therefore, the subject development application in its current form (notwithstanding all other issues raised in this submission) must be refused.

Specifically, the proposal as detailed in the SEE fails to provide sufficient information on how the proposal will operate, and associated impacts, relating to:

- the quality and quantity of the basalt resource proposed to be extracted;
- extraction methods and processing;
- traffic;
- dust emissions;
- groundwater; and
- noise.

Concluding Comments

In this submission, we have made the case that the proposed quarry has the potential to give rise to material adverse groundwater, noise, traffic safety and dust impacts. Further, that insufficient investigation has been made of those potential impacts of the development. As such, we submit that Council should refuse the development application, given the serious social and environmental impacts of the proposal and the legal issues with respect to the development application.

Yours faithfully

John Wolfenden Principal Planner By

Emeritus Professor Peter G Flood MSc (UNE), PhD (UQ), IEM (Harvard), MAusIMM Consulting Hydrogeologist 28 April, 2020

OVERIVEW

This Report addresses the requested Brief to comment on:

- (a) whether the Proposed Quarry has the potential to adversely impact groundwater (including groundwater resources on Danielle Norton's property located at 1531 Oxley Highway, Walcha);
- (b) whether the SEE has adequately assessed potential groundwater impacts of the Proposed Quarry including whether it has demonstrated compliance with applicable groundwater planning controls;
- (c) what matters would need to be assessed by the Proponent to undertake a proper assessment of groundwater impacts for the purpose of the EP&A Act; and
- (d) any other matters that are considered relevant to the Council's assessment of groundwater impacts arising from the Proposed Quarry for the purposes of the EP&A Act.

SUMMARY

The short answers to the Questions are:

- (a) The Proposed Quarry has the potential to adversely impact groundwater currently used at Ms Norton's property (and other properties in the immediate vicinity of the quarry pit), depending on the level of the Water Table;
- (b) The SEE does not provide an adequate assessment of the potential groundwater impacts of the Proposed Quarry, including any potential impact on the groundwater resource at Ms Norton's property;
- (c) The proponent would need to, among other matters, determine the presence and elevation of the Water Table in order to then undertake a proper assessment of groundwater impacts; and
- (d) The Applicant will need to determine the hydraulic parameters of the 30m thick basalt unit, in order for Council to undertake any assessment of groundwater impacts arising from the Proposed Quarry.

INADEQUATE DATA/ASSESSMENT

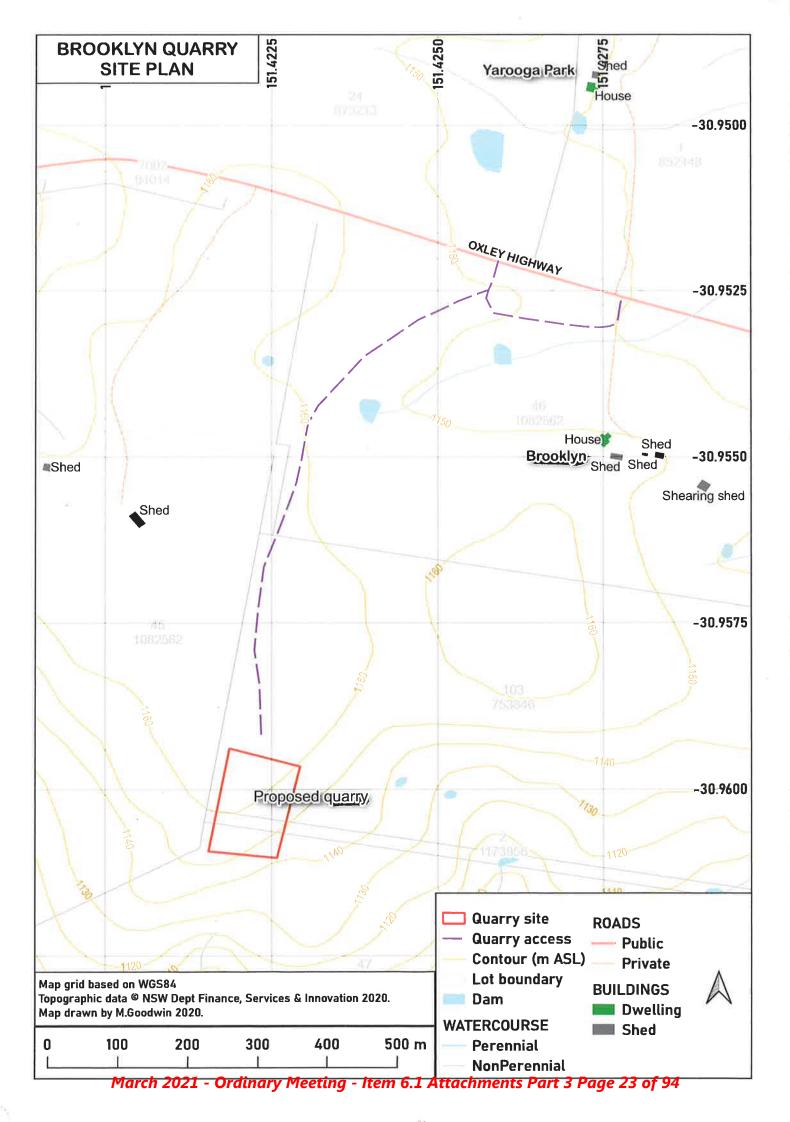
The following comments relate to the inadequate discussion of hydrological impacts associated with the Proposed Quarry to be developed at "Brooklyn" adjacent to the property "Mount Pleasant", West of Walcha, NSW.

- 1. The Statement of Environmental Effects Report is silent regarding the presence of the Water Table and its elevation. The bottom of the pit is to be about 30m below the ground surface or at an elevation of 1120m ASL (Attachment 1). If there is a water table and it is above the 1120m level the pit would impact on the groundwater because the cone of depression around the pit (attachment 2) would result in a radial flow in the surrounding area to the North and East of the pit (Attachment 3). This could impact on any water bore or water well in the immediate vicinity of the pit, including the water well at Ms Norton's property.
- 2. If the water table across the project site of the Proposed Quarry is below 1120m elevation then the Proposed Quarry would likely have minimal impact on groundwater.
- 3. Based on site observations and a preliminary geological assessment undertaken by Dr Warwick Sivell (geologist), it is likely that the aquifer under the site is comprised of relatively unconsolidated tertiary sediments (pebbly sandy layers likely created from old stream channels) immediately underlying basalt flows. The distribution of these old stream channels are likely to be both regionally extensive as well as meandering and erratic beneath the basalt flows making it a possibility that the Proposed Quarry could impact on the groundwater resource at Ms Norton's property.
- 4. There needs to be a study undertaken to determine the level of the water table across the project site, so as to determine and mitigate potential impacts, given that any impacts are potentially significant for the Ms Norton's groundwater resource.
- 5. It is not possible for Council to understand the potential groundwater impacts of the proposed quarry based on the information contained in the SEE.
- 6. There exist standard operational procedures (Reverse Circulation Drilling a vertical hole to 30m) to ascertain the presence of the Water Table and potential groundwater flow and drawdown (Modflow Technique see Attachment 4) caused by the proposed pit.

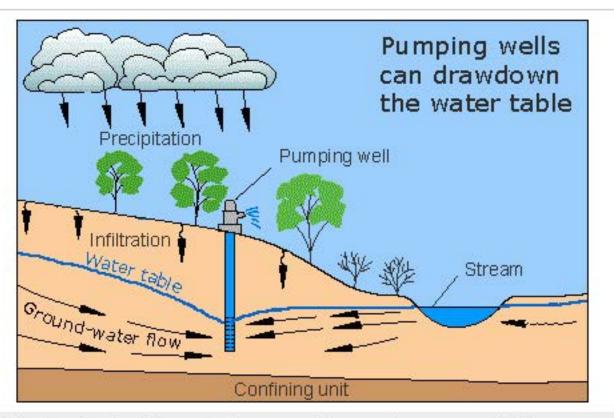
Peter G Flood pflood@une.edu.au 0421903519

Attachments

- 1. Topography Map
- 2. Cone of Depression
- 3. Possible Radial Drainage
- 4. Example (from Google) of Hydrogeological Study by Golders
- 5. Reference 1; acknowledgement of contribution to IESC consideration of "the Water Trigger"
- 6. Reference 2; acknowledgement in assisting the NT Inquiry into Fraccing in the exploitation of Shale Gas and impacts on water resources.



Cone of Depression



Schematic showing development of a cone of depression as a result of heavy pumping

Credit: USGS

Overuse of groundwater does not have to lead to major land subsidence before it causes problems. On a more local scale, over-pumping can result in lowering of the water table in a process called "cone of depression," a generally concentric pattern of water table drawdown. Such over-pumping often results from industry or agriculture but individual landowners often feel the repercussions.

Alternatively, a cone of depression can result when housing developments, particularly those with many small lots, use wells for water supply. A cone of depression can drastically decrease water pressure, or worse, lower the water table below the level of the well, leaving a home or a farm without a water supply. The only solution for this is to drill the well deeper, which can be an expensive proposition for an individual landowner. Left unchecked, a cone of depression can modify the flow of groundwater as well as the distribution of pollutants.

March 2021 - Ordinary Meeting - Item 6.1 Attachments Part 3 Page 24 of 94

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24 April 2012 Project No. 99500

Mr Leon Krynauw

P O Box 11732 Queenswood Pretoria 121

PROPOSED NEW OPENCAST COAL MINE ON GROENVLEI AND LAKENVLEI REVIEW COMMENTS ON THE GEOHYDROLOGICAL REPORT.

Dear Leon

This letter provides a short overview of the "Geohydrological Report for the Proposed Opencast Mining Operation on the Farm Groenvlei and a Portion of the Farm Lakenvlei" prepared by Geo Pollution Technologies Gauteng,. The report ref. is MeGR-11-158 dated June 2011.

The review has been prepared at the request of Leon Krynauw, a property owner in the same area as the proposed mining development.

1.0 LOCATION OF PROPOSED MINE

The proposed William Patrick Bower (WPB) opencast is located on portion 12 of the farm Lakenvlei 355JT and in the far NW corner of the farm Groenvlei 353JT. The proposed open pit itself will be approximately 75ha in extent with a SW-NE axis. The depth of the pit is not mentioned in the report; however, it is judged from the depth to water table and reported drawdown anticipated that the pit will be about 30m deep. The pit footprint lies between 3 abandoned (small) coal mines.

The proposed mine area lies on the watershed between B41A (Olifants catchment) and X21F (Nkomati catchment). The Elandsfonteinspruit lies approximately 1km to the east of the mine area and flows south traversing Groenvlei. An unnamed drainage line rises on Lakenvlei within the mining area and flows south joining the Elandsfonteinspruit on portion 17 of Groenvlei.

The elevation of the opencast mine is about 1900mamsl and is located some 5km N and upslope of the property owned by Leon Krynauw, which lies at an elevation below 1800mamsl.

2.0 BASIS OF REPORT

The report reviewed describes the geological and hydrogeological situation at the mine and immediately surrounding area. Impacts on the surface and groundwater are described for the operational, decommissioning and post mining phases. The impact assessment has been prepared on the basis of a desk study of available information, a hydrocensus of 8 boreholes and 2 surface water bodies, analyses of water samples collected from the boreholes and surface water, ABA of one sample collected from an

unknown exploration corehole, and numerical groundwater flow and solute transport modelling using Modflow. No field work (beyond the hydrocensus and sampling) was done.

3.0 BRIEF OVERVIEW OF THE REPORT FINDINGS

- The hydrocensus covers an area approximately 2km around the mine site. Importantly no boreholes were surveyed to the south of the proposed mine.
- The area is characterised by shallow <12m water table.</p>
- The analyses of the water samples collected indicate the water is generally Class 1 (SANS 241:2006), with poorer quality in the area of the old coal workings.
- The aquifer is classified as comprising a minor aquifer system, with medium vulnerability requiring a medium level of protection. The classifications are based upon the DWA classification system and are realistic.
- The rock and tailings material (overburden) are described as non-acid generating. This is based upon one rock sample on which Acid Base Accounting (ABA) and Nett Acid Generation (NAG) tests were carried out. Drawing this conclusion from one test result implies a high level of uncertainty; this is noted in the report and a more extensive geochemical study is recommended. The mitigation actions recommended in the report assumes AMD will occur.
- The life of mine is not stated.
- A mine plan showing annual depth development of the open pit over the footprint was not available to assist with the numerical modelling.
- Numerical modelling has been undertaken using Modflow, a finite difference modelling code, widely used for groundwater studies.
- The Modflow model covers an area of 131km². The model boundaries selected are sufficiently far from the open pit to not influence the results obtained from the mining. The model comprises 3 layers and is based upon a suitable conceptual hydrogeological model.
- Inflow into the pit during the operational phase has been calculated as 638m³/d based upon the assumption that the entire opencast is dewatered. This is a worst case situation. It appears the flow modelling has been undertaken using a steady state simulation, although this is not stated.
- A maximum of 22m of water level drawdown is predicted at the pit. The cone of depression is calculated as extending approximately 1km from the pit perimeter.
- During the operational phase no groundwater quality impacts are anticipated since the groundwater flow will be towards the pit.
- After closure the pit water levels will recover in the pit. With no mitigation it is reported that decant will occur in the SE portion of the pit footprint at a rate of between 80 and 120m³/d. The quality of the decant is not reported but according to the contamination modelling could well be in excess of 600mg/l as SO4.
- Modelling of plume development and groundwater quality impacts during the post mining phase has been undertaken using SO₄ as a marker. A starting SO₄ concentration of 2 000mg/l has been assumed from the flooded pit. This would appear to be a realistic concentration.
- The plume development is shown as following the topographic gradient migrating mostly to the SE. The maximum extent of the plume is between 1 and 1.5km SE towards the Elandsfonteinspruit after about 50 years. The slow spread of the plume is due to the low permeability of the aquifer strata. A critical assumption made is that there are no preferential flow paths.
- The impact assessment rating for the mine is given as 85 (High impact) with no mitigation and 56 (medium impact) with mitigation.

Several realistic mitigation interventions are recommended to reduce impacts. These include setting up a baseline monitoring programme.

4.0 COMMENTS ON REPORT

The report is well written. It covers all aspect normally considered in preparing an impact assessment. The report acknowledges the limitations inherent in the information gathered and makes recommendations for additional studies, update of the modelling and refinement of the impact assessment and mitigation options, once this information is available.

The report is based upon limited data and the findings. The impact assessment and mitigation recommendations made are preliminary.

Further work is required to confirm the impacts, as recommended by the report authors. This work should include:

- a rigorous geochemical assessment,
- extension of the hydrocensus to the south,
- a thorough definition of the structural network and identification of preferential flow paths,
- drilling and test pumping of boreholes in and around the mining area. These boreholes would then be used for baseline and long term monitoring,
- updating of the numerical model with the new information and final mine plans
- review and confirmation of the mitigation actions.

5.0 HIGH RISK ASPECTS RELATED TO GROUNDWATER AND SURFACE WATER IMPACTS

A number of high risk aspects were identified in the evaluation of the geohydrological report, that could impact on the proposed project sustainability from an environmental and water resources perspective:

- Project location the proposed project is located at the headwaters of two significant catchments, the Olifants River catchment and the Nkomati catchment. The Nkomati catchment has not been impacted by coal mining operations and this proposed mining development presents a specific threat to a relative pristine water resource. The catchment water resource at the headquarters is particularly sensitive since little if any assimilative capacity exists due to the small base flows and the high and unbuffered water quality of the local streams. Even a small amount of mining related pollution would have a significant impact on the downstream water resource and will probably impact the natural aquatic environment and other sensitive water users.
- Mine water quality Little geochemical information is available to indicate whether acid mine drainage (AMD) would be produced by the proposed project. This is a key consideration in the proposed mining development. The limited work done on a single rock sample is not representative of the full geological column and could be misleading. It is, however significant to note that the single water quality sample taken at the proposed mine site is already acidic (Table 6).
- If any form of acid mine drainage is generated, it would mobilise the full spectrum of very undesirable pollutants including metals, with potentially devastating impacts on the downstream ground and surface water resources. The poor and deteriorating water quality of the streams and rivers in the Highveld and Belfast coalfields area is testimony to this.
- Mine water balance The water modelling for the mining and post mining scenarios is based on the DWA weather station located at Nooitgedacht Dam. This weather station is remote from the proposed project site and it is recommended to source climate data from a local weather station. The local rainfall

records indicate a higher rainfall and lower evaporation compared to Nooitgedacht Dam. This will result in a higher ingress and recharge of water to the project area and increased mine water production. Also, the post mining scenario water modelling is based on an assumption of 15% Mean Annual Rainfall (MAR) recharged to the rehabilitated mined areas. This is optimistic and the range of recharge to rehabilitated opencast mining in the Highveld Coalfields area is in the range of 15 to 25% of MAR. It is our opinion that the post mining excess water production is under estimated and needs confirmation.

The single biggest water resource and environmental issue remains the production of a subsurface or surface decant of acid mine drainage from the mining area. The evidence in the Highveld Coalfields area is that all opencast mining operations produce excess and decant water of poor quality over time. The local water environment has no assimilative capacity to receive mine water, except if treated to a very high level corresponding to the current background water quality. Even in the scenario of treating excess and decant mine water for discharge, several impacts will remain for a very long time: a) unnatural stream flow patterns are set up due to the unnatural pattern of recharged to mined areas, compared to the natural seasonal surface run-off pattern, b) change in the seasonal temperature profile in the local streams which could have an impact on the aquatic and fish life, c) change in the natural chemistry of the water which is still an aspect poorly understood by aquatic chemists and limnologists.

GOLDER ASSOCIATES AFRICA (PTY) LTD.

Graham Hubbert Principal Hydrogeologist PrSciNat

GH/AVN/

Dr Andre van Niekerk Principal.

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THE HON JOSH FRYDENBERG MP MINISTER FOR THE ENVIRONMENT AND ENERGY

MS16-900293

Emeritus Professor Peter Flood 28 Crest Road ARMIDALE NSW 2357 **17** SEP 2016

Dear Professor Flood

I am writing regarding your appointment to the Independent Expert Scientific Committee on Coal Seam Gas and Large Coal Mining Development (IESC) from 26 November 2012 to 30 September 2016.

Your contribution over the last fours year in establishing the IESC as an independent and valued scientific advisor to government has been greatly appreciated. The IESC has a strong foundation for its future thanks to the important work that you and your colleagues have delivered. In particular your geological expertise has contributed to a number of the IESC's key achievements, namely:

- Publication and revision of the Information Guidelines for use by regulators and proponents to ensure adequate water-related data and tools are used in assessing proposed developments;
- Provision of expert scientific advice on 92 requests from the Commonwealth, New South Wales, Queensland and South Australian regulators on large coal mining and coal seam gas development proposals; and
- Provision of advice to the Australian Government on bioregional assessments, including endorsing the methodology for their delivery, and providing advice on research priorities and projects commissioned by the Office of Water Science.

I take this opportunity to thank you for your contribution and wish you well for the future.

Yours sincerely

JOSH FRYDENBERG

Professor Peter Flood Emeritus Professor University of New England

pflood@une.edu.au

Dear Peter

RE: HYDRAULIC FRACTURING INQUIRY COMMUNITY MEETINGS

On behalf of the Scientific Inquiry Panel I would like to express our gratitude regarding your involvement in the community meetings held from 6-9 March 2017 for the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory.

Your presentation and knowledge on Hydraulic Fracturing was of vital importance to the various communities' understanding and provided the perfect platform for their involvement in the community engagement process.

The subsequent observations made by the public and the information gathered during the engagement process will be of significant benefit to the Inquiry going forward.

Yours sincerely

THE HON JUSTICE RACHEL PEPPER

Chair

28 March 2017

Report of Dr Warwick J Sivell BSc (Hons), PhD (1982)

Re: Development Application 10.2020.3 (DA) Proposed Brooklyn Quarry, 1643 Oxley Highway, Walcha

This Report sets out my comments on whether the proposed quarry has the potential to adversely impact bore water in the vicinity of the quarry site.

In preparing this Report I have reviewed the DA and supporting Statement of Environmental Effects dated February 2020 (**SEE**). I have also had the benefit of an inspection of the quarry site on Monday, 20 April 2020.

I am a geologist and have taught at the University of New England for over 30 years. I have written and contributed to numerous research studies and publications including papers relating to the metamorphism and crustal considerations in the Harts Range in Australia, Geotechnical and Nd-isotopic systematics of the Permo-Traissic Gympie Group and branded amphilbolites of the harts range meta-igneous complex.

The key issue is that the Tertiary rocks and unconsolidated Tertiary sediments which most likely comprise the aquifer which is the continuous and presently reliable long-term source of groundwater (bore water) for the Mount Pleasant property (and adjacent properties in the region) and which traverse directly beneath the proposed quarry, should not be disrupted in any way.

A. Geomorphology and groundwater overview

It is likely, but by no means certain without undertaking expensive drilling, that the aquifer is comprised of relatively unconsolidated tertiary sediments (pebbly sandy layers), immediately underlying basalt flows and fragmental basaltic pyroclastics (ash tuff and volcanic agglomerate) both at the proposed quarry site and the broader region.

At some locations, the tertiary sediments are very distinctive, which likely represents old stream channels prior to basalt eruption. The sediments have transformed into very hard impermeable red silicified "ironstone" in which the grains and pebbles are cemented together by silica and iron oxides due to percolating fluids. The inspection of these sediments clearly highlights some of the locations of the old stream channels.

The distribution of these old channels and the Tertiary sediment deposits, although regionally extensive, are likely to be meandering and erratic beneath the basalts. It is probable that only a particular former channel is actually tapped by any one bore, making disruption to that part of the aquifer potentially catastrophic for dependent bores.

The precise distribution, lateral connectivity/continuity, and thickness of the likely aquifer deposits are not known and have not been adequately considered in the SEE. In addition, the geographic location of the zone of recharge (surface or near surface) for the groundwater in the aquifer is also unknown as has not been considered in the SEE.

B. Potential groundwater and contamination impact

In certain locations, the tertiary sediments crop out at the surface, for example directly beneath the basalt at the proposed quarry site. In addition, there is the possibility that porous and permeable fragmental basaltic pyroclastics, of the sort encountered at the proposed quarry site, form part of the recharge infrastructure for and above the aquifer. These easily weathered fragmental pyroclastics appear to make up a significant proportion of the basalt resource at the proposed quarry site. In my opinion, this would detract considerably from the resources' product quality and value. The basalt

resource at the proposed quarry site also appears to be very fine grained and glassy, due to rapid quenching. The excavated resource is therefore likely to weather very rapidly, further detracting from its viability.

The surface water flow in the area is to the east and south from the proposed site. It is understood that the groundwater movement in the aquifer sediments would shift similarly, flowing toward Mount Pleasant and other surrounding properties.

Any thought of possible remediation of a damaged aquifer (due to drilling, blasting of basalt immediately overlying the aquifer rocks, or removal of overburden) is fraught with difficulty, extraordinarily expensive, and generally impossible. Given the immense dependence of presently successful rural properties on the bore water, any risk of aquifer degradation should not be entertained, especially in view of the somewhat suspect quality (fragmental weathered phreatomagmatic eruptives) of some of the basalt resource likely to be exploited.

C. Conclusion

I conclude that the proposed quarry has the potential to cause significant adverse impacts to the existing aquifer which would have detrimental and long-term impacts on the bore water supply for the Mount Pleasant property and other properties in the region. There is no reasonably likelihood of being able to repair any such damage to the aquifer. The SEE does not undertake any adequate assessment of groundwater impacts from the proposed quarry.

Dr Warwick Sivell, Geologist

28 April 2020

 Partner
 Ben Fuller

 Contact
 Ben Fuller

 T +61 2 92

 Our ref
 BF:1040785

24 April 2020

By email: info@aoplanning.com.au

Copy to:

Danielle Chevrot-Norton

John Wolfenden

Principal Planner Alpha Omega Town Planning 5 Dorothy Avenue Armidale NSW 2350

Dear John

Proposed Basalt Quarry – Designated Development Advice DA 10.2020.3 (DA) 1643 Oxley Highway, Walcha NSW 2354

We refer to your request for advice in relation to the construction and operation of a new basalt quarry (the **Proposed Quarry**) located at 1643 Oxley Highway, Walcha NSW 2354, comprising:

- Lot 47 on Deposited Plan 1082562;
- · Lot 2 on Deposited Plan 1173956; and
- Lot 103 on Deposited Plan 753846,

(together, the Site).

We have been asked to advise on whether the Proposed Quarry is 'designated development' under the *Environmental Planning and Assessment Act 1979 (NSW)* (**EP&A Act**).

1 Definition of 'Designated Development'

The term 'designated development' is defined in section 4.10 of the EP&A Act as follows:

- '(1) Designated development is development that is declared to be designated development by an environmental planning instrument or the regulations.
- (2) Designated development does not include State significant development despite any such declaration.'

Clause 4(1) of the *Environmental Planning and Assessment Regulation 2000* (NSW) (**EP&A Regulation**) provides that development described in Part 1 of Schedule 3 to the

EP&A Regulation is declared to be designated development for the purposes of the EP&A Act.

Clause 19 of Schedule 3 to the EP&A Regulation provides that extractive industries are designated development if the following threshold tests are satisfied:

- (1) Extractive industries (being industries that obtain extractive materials by methods including excavating, dredging, tunnelling or quarrying or that store, stockpile or process extractive materials by methods including washing, crushing, sawing or separating):
 - (a) obtain or process for sale, or reuse, more than 30,000 cubic metres of extractive material per year, or
 - (b) disturb or will disturb a total surface area of more than 2 hectares of land by -
 - (i) the clearing or excavating, or
 - (ii) constructing dams, ponds, drains, roads or conveyors, or
 - (iii) storing or depositing overburden, extractive material or tailings, or
 - (c) are located -
 - (i) in or within 40 metres of a natural waterbody, wetland or an environmentally sensitive area, or
 - (ii) within 200 metres of a coastline, or
 - (iii) in an area of contaminated soil or acid sulphate soil, or
 - (iv) on land that slopes at more than 18 degrees to the horizontal, or
 - (v) if involving blasting, within 1,000 metres of a residential zone or within 500 metres of a dwelling not associated with the development, or
 - (vi) within 500 metres of the site of another extractive industry that has operated during the last 5 years.'

Is the Proposed Quarry designated development?

The DA was accompanied by a Statement of Environmental Effects dated February 2020 (SEE).

The SEE's analysis of whether the Proposed Quarry is designated development is limited to the following statements [at section 6.5.2]:

'The nearest known extractive industry site is a quarry in the 9 Mile Stock Reserve, located about 3.4 kilometres to the East, operated on a sporadic basis for road gravel.

The proposed quarry will not exceed any threshold for "designated development".

Therefore, other than a high-level analysis of the threshold trigger in clause 19(1)(c)(vi), the SEE does not give any detailed consideration of any of the other potential triggers in Clause 19, of Schedule 3 to the EP&A Regulation.

Case law provides that the process of determining whether a development application is designated development involves the task of characterising the development application in the context of the list of development declared to be designated (*Penrith City Council v Waste Management Authority* (1990) 72 LGRA 376, *Residents Against Improper Development Inc v Chase Property Investments Pty Ltd* [2006] NSWCA 323). Further, questions of fact and degree are involved in assigning a particular development proposal to a category of development identified in Schedule 3 (*S J Connelly CPP Pty Ltd v Ballina Shire Council* [2010] NSWLEC 128 at paragraph [28]).

It is without doubt that the Proposed Quarry is characterised as an extractive industry for the purposes of the broad category of development captured by clause 19 of Schedule 3 to the EP&A Regulation because it will comprise obtaining extractive materials by methods of quarrying.

In light of the above, it is necessary to consider each of the threshold triggers contained within clause 19(1)(a) to (c) to determine whether it is 'designated development'. In this regard, and as set out above, clause 19(1)(b) provides that an extractive industry will be designated development if it will:

- (b) disturb or will disturb a total surface area of more than 2 hectares of land by -
 - (i) the clearing or excavating, or
 - (ii) <u>constructing</u> dams, ponds, drains, <u>roads</u> or conveyors, or
 - (iii) storing or depositing overburden, extractive material or tailings, or'

Section 2.3.1 of the SEE states that the Proposed Quarry will have a 'surface disturbance area of 1.98 hectares'.

However, that assessment does not reflect the actual surface area of land that will be disturbed for the purposes of the Proposed Quarry as it does not include the area being disturbed to construct the 'new access road'. Section 2.7.1 of the SEE provides that the Proposed Quarry will comprise the construction of a 'new access road'. The SEE provides that the 'new access road' will consist of 'an all-weather surface at least 4m wide' (section 2.7.1) and about '0.9km long' (section 2.7.2). Based on the dimensions set out in the SEE, the construction of the new road will disturb a total surface area of about 3,600m² (which is equivalent to .36 hectares).

In our view, the 'new access road' is clearly a 'road' captured by clause 19(1)(b)(ii) of Schedule 3 to the EP&A Regulation because it is a new road being constructed solely for the purposes of the Proposed Quarry, and construction of the new road will result in the disturbance of the surface area of the land. That is, the 'new access road' forms part of the Proposed Quarry for the purposes of determining whether the DA is designated development pursuant to clause 19(1) of Schedule 3 to the EP&A Regulation (*Penrith City Council v Waste Management Authority* (1990) 71 LGRA 376).

In light of the above, the actual surface area of land that will be disturbed by the Proposed Quarry for the purposes of clause 19(1)(b) of Schedule 3 to the EP&A Regulation is 2.34 hectares - which exceeds the 2 hectare threshold trigger for designated development. Further, the exclusions set out in Parts 2 and 3 of Schedule 3 do not apply.

The effect of the above is that the Proposed Quarry will exceed the two-hectare threshold and is properly characterised as 'designated development' for the purposes of the EP&A Act. Further, the DA must (among other matters) be accompanied by an Environmental Impact Statement. In the absence of any Environmental Impact Statement it would be open to Council to lawfully reject, or refuse, the DA in its current form under the EP&A Act.

Yours faithfully Gilbert + Tobin

Ben Fuller Partner

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Ben Hayward

Lawyer T +61 2 9263 4772

bhayward@gtlaw.com.au



26 May 2020

File No: NTH00/00103/02 Your Ref: DA 10.2020.3

The General Manager Walcha Council PO BOX 2 WALCHA NSW 2354

Attention: Libby Cummings – Contract Planning Officer

Dear Sir / Madam,

Re: Development Application 10.2020.3 – Extractive Industry, Basalt Quarry 1643 Oxley Highway, Walcha Road

I refer to your email of 5 May 2020 requesting comment from Transport for NSW in relation to the abovementioned development application.

Roles and Responsibilities

From 1 December 2019, all functions and responsibilities of Roads and Maritime Services will now be vested in an integrated Transport for NSW (TfNSW). Our key interests are for the safety and efficiency of the transport network, the integrity of State infrastructure and the integration of land use and transport in accordance with *Future Transport Strategy 2056*.

Oxley Highway is a classified (State) road under the *Roads Act 1993* (Roads Act). Walcha Council is the Roads Authority for all public roads (other than freeways or Crown roads) in the local government area pursuant to Section 7 of the Roads Act. TfNSW is the roads authority for freeways and can exercise roads authority functions for classified roads in accordance with the Roads Act. Any proposed works on a classified (State) road will require the consent of TfNSW and consent is provided under the terms of a Works Authorisation Deed (WAD).

In accordance with Clause 101 of the *State Environmental Planning Policy (Infrastructure)* 2007 (ISEPP) the Consent Authority is to have consideration for the safety, efficiency and ongoing operation of the classified road as the development has frontage to a classified road.

In accordance with Clause 16 of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007*, TfNSW is given the opportunity to review and provide comment on the subject development application.

Transport for NSW Response

TfNSW understands Council has requested further information from the applicant and has received a further updated SEE. It is noted that the SEE is not supported by a formal Traffic Impact Assessment, prepared in accordance with the Austroads Guide to Traffic Management Part 12: Traffic Impacts of Developments and RTA Guide to Traffic Generating Developments.

Notwithstanding, TfNSW has reviewed the referred information and provides the following comments to assist the consent authority in making a determination;

• The development application does not provide sufficient detail of measures to mitigate the impacts of the proposed development on the classified road.

TfNSW recommends that the Consent Authority should be satisfied that the application has sufficiently explained the impacts of the development and justified all proposed mitigation measures.

The SEE identifies trip generation for the development in terms of annual, monthly and
weekly vehicle movements. It is considered likely the trips generated by the proposed
development will vary in response to demand for extracted materials. Typically, the impact
on the site access to the classified road, should be considered in terms of daily and peak
hourly movements, and that campaigns can be distributed entirely to the East or the West
of the site access.

TfNSW recommends the consent authority condition the maximum daily and hourly movements generated by the development.

• The SEE proposes a new rural property access driveway to replace the existing residential property access. Given the proposed development is of a commercial nature and will generate regular heavy vehicle movements, further consideration must be given to the impact of vehicles entering and leaving the property within the context of background traffic. The design of the access needs to be appropriate for the frequency of heavy vehicles accessing the site and provide appropriate treatments to manage the safety of vehicles turning to and from the classified road.

TfNSW recommends that the Consent Authority request an assessment of turn treatment warrants in accordance with the Austroads Guide to *Traffic Management Part 6* and Austroads Guide to *Road Design Part 4A* for the site access, identifying the existence of the minimum basic turn treatments and addressing the need for any warranted higher order treatments.

TfNSW further recommends the consent authority condition all redundant accesses to be legally and physically closed prior to commencement of use of the new access.

- Strategic (2D) design drawings of all proposed improvements to public roads and the site
 access to mitigate the traffic and road safety impacts of the development should be
 submitted to Council prior to the Consent Authority's determination. These drawings should
 demonstrate the functionality and constructability of the access and road improvements,
 available sight distances, and swept path analysis for the design vehicle.
- The SEE states that Clause 16 of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007*, requires the Consent Authority to consider the imposition of conditions relating to transport.

TfNSW recommends that the Consent Authority condition that a Traffic Management Plan (TMP) be developed addressing the construction, operation and decommission phases of

the proposed development. It is recommended that any TMP include a Driver Code of Conduct that includes;

- A map of the primary haulage route/s highlighting critical locations.
- Safety initiatives for impacts residential areas and/or school zones.
- An induction process for vehicle operators and regular toolbox meetings.
- A complaint resolution and disciplinary procedure.
- Any community consultation measures proposed for peak periods.
- Council should consider the need for any regulatory signage (truck turning signs) and where
 necessary seek the endorsement of the Local Traffic Committee prior to Council approval
 the signage. Please refer to A guide to the delegation to councils for the regulation of traffic.

Any future roadwork on the classified (State) road will need to be designed and constructed in accordance with the current Austroads Guidelines, Australian Standards and TfNSW Supplements.

The developer will be required to enter into a Works Authorisation Deed (WAD) with TfNSW for any roadwork deemed necessary on the classified (State) road. The developer will be responsible for all costs associated with the roadwork and administration for the WAD. It is recommended that developers familiarise themselves with the requirements of the WAD process. Further information can be accessed using the following link:

http://www.rms.nsw.gov.au/projects/planning-principles/index.html

Advice to the Consent Authority

TfNSW highlights that in determining the application under the *Environmental Planning and Assessment Act 1979*, it is the Consent Authority's responsibility to consider the environmental impacts of any road works which are ancillary to the development. This includes any works which form part of the proposal and/or any works which are deemed necessary to include as requirements in the conditions of project approval.

Upon determination of the application it would be appreciated if Council could forward a copy of the approval for our records. If you have any further enquiries regarding the above comments please do not hesitate to contact Katrina Wade, Development Assessment Officer on (02) 6640 1362 or via email at: development.northern@rms.nsw.gov.au

Yours faithfully,

for Matt Adams

Manager Land Use Assessment, Northern

Elizabeth Cumming Walcha Council PO Box 2

Walcha NSW 2354

Our ref: DOC21/109670 Your ref: DA 10.2020.3

Emailed: via Planning Portal

26 February 2021

Dear Elizabeth

Subject: Development Application Referral – DA 10.2020.3 Proposed Brooklyn Quarry

Thank you for the opportunity to provide advice on the above matter. This is a response from the NSW Department of Regional NSW – Mining, Exploration & Geoscience (MEG) – Geological Survey of NSW (GSNSW).

GSNSW has reviewed the Statement of Environmental Effects for the above DA and have no issues or concerns to raise. We request that the proponent provide annual production data to the Department for the site as a condition of consent.

Queries regarding the above information should be directed to the GSNSW - Land Use team at landuse.minerals@geoscience.nsw.gov.au.

Yours sincerely,

Steven Palmer

Manager, Land Use Assessment

Geological Survey of NSW – Mining, Exploration & Geoscience.

Item 3.1 - Attachment 13

Development Assessment Report

DA Number: 10.2020.3 **Council:** Walcha

Location: 1643 Oxley Highway, Walcha Road **Development Description:** Basalt Rock Quarry - 29,000m³/annum

Title Details: Lot 103 DP753846, Lot 2 DP1173956, Lots 46 & 47 DP1082562

Proposal Overview

The proposed development is a production – total resource may consist of 450,000m³. Will be developed further if market demand is founded. This will require additional DA approval.

It is planned to market gravel and aggregate within a radius of about 100 kilometres of the quarry. More distant customers are unlikely given significant transport costs and the availability of alternative sources of quarry products.

Maximum disturbance areas arising from quarry related operations will be 1.9878 hectares.

DOMAIN	DISTURBANCE	DIMENSIONS	AREA (Ha)
Quarry	Quarry void, stockpiles, crushing equipment, office/amenities	Odd shape shown in Figure 3.	1.6455
Access track	Quarry access track from Brooklyn boundary to edge of	Existing 928m. 3.5m wide	0.3248
Access track passing bays	Passing bays at 185m intervals along quarry access track.	50m long & 3.5m wide. Five bays	0.0175
		TOTAL	1.9878

Excavation of the basalt rock will be undertaken using earth-moving machinery such as an excavator, front-end loader and/or bulldozer, on a sporadic basis in response to customer orders. It will be necessary to drill and blast all rock prior to excavation.

The quarry void will reach a maximum:

- Depth of 30 metres.
- Surface extent about 100 metres (east-west) by 160 metres (north-south), with a roughly rectangular shape.

The maximum expected frequency of blasting is once per week. No on site explosives storage is proposed. All explosives will be delivered to the site for immediate, or following day, use. Delivery will be via a dangerous goods licensed, purpose built truck, operated by a commercial explosives supplier.

Initially it is proposed to establish quarry benches about 5 metres high by 5 metres wide, although it is expected that bench height will probably be increased over time to 10 metres. Bench heights will only be changed after consideration of all relevant factors, including:

- Geotechnical issues:- Ground stability is determined by a combination of factors including layering (thickness, composition & strength), jointing (natural crack patterns) and faults/fractures.
- Worker safety.
- Productivity.

Most of the basalt excavated will be subject to processing, including one or more of the following:

- Using grizzly bars to separate over size boulders from soil and rock.
- Splitting over size boulders using hydraulic splitters and/or hydraulic hammers.
- Crushing and screening to produce a range of sized aggregates.

Material that may be stockpiled within the quarry site includes:

- Excavated basalt, gravel, soil and processed aggregate.
- Waste rock that is not suitable for sale. This material may be useful for rehabilitation, such as battering the edges of the quarry.
- Top soil, for future rehabilitation.

Initially staff amenities will consist of a portable toilet and/or ATCO style portable lunch room/amenities building (<25 square metres). If subsequent circumstances warrant, an office area (<25 square metres) may be added (or combined) with the amenities area.

Actual traffic volumes will depend on the demand for quarry products, which is expected to fluctuate significantly from year to year and cannot be reliably predicted at this time.

Estimated quarry traffic at various production levels.

		TRUCKS (2 way)	STAFI (2 wa		CONTRCTR (2 way)	TOTAL	VEHICLES /WRK DAY
LCM (m3)	TONNES	year	FTE	year	year	VEHICLES	261/YR
1,000	2,400	130	0.2	100	20	250	1
5,000	12,000	649	1	500	30	1,179	5
10,000	24,000	1,297	2	1,000	50	2,347	9
20,000	48,000	2,595	4	2,000	84	4,679	18
29,000	69,600	3,762	5.8	2,900	118	6,780	26

The applicants propose to establish a new access driveway from the Oxley Highway into Brooklyn that will improve vehicle visibility, access and safety. The existing access will be decommissioned and fenced off. The design has been developed to be consistent with Transport for NSW requirements documented in a letter to Walcha Council dated 26 May 2020.

The proponent is committed to establishing the new highway access consistent with Council and Traffic for NSW requirements within 6 months of the guarry achieving 5,000m³ in commercial sales.

The threshold is proposed on the basis that it would be unreasonable to require compliance with all Traffic for NSW standards prior to significant commercial activity, when:

- The initial impacts of the development on the highway will be relatively minor during the commencement phases of the development.
- Staged compliance will facilitate the viability of the development.

The 5,000m³ threshold is equivalent to about 12,500 tonnes of quarry product at a density of about 2.5 tonnes per cubic metre. If the product is shipped within a year, this equates to about 337 trucks per year (~37 tonnes each) or 1.3 trucks per working day (~250 work days/year).

Several trees in the immediate vicinity of the proposed new Oxley Highway access will impair visibility between the access track and Highway.

Clearing of trees for rural infrastructure, such as fences and tracks, is permitted on the "Brooklyn" holding without any other approval under Part 5A and schedule 5A of the Local Land Services Act 2013. Item 31(b) in schedule 5A allows 30m clearing for fence, effectively 15m within "Brooklyn" holding.

Initial activities will be undertaken on a sporadic basis in response to orders, hence there may be significant periods of negligible or relatively small scale activities. If a consistent demand for quarry products can be developed, then activities will be maintained in a manner consistent with the maximum hours in Table below.

Proposed maximum hours of operation.

ACTIVITY	MON TO FRI	SAT & SUN	PUBLIC HOLIDAYS
Blasting	8:00 to 17:00	No activity	No activity
Drilling, extraction & processing	sing Daylight hours		
Loading trucks & product shipping	Daylight Hours		
Maintenance	24 hours per day, when required		

Property Details/History					
	Checked	Comments			
File History	Yes ⊠ No □	It is assumed this has been checked by Council administration staff lodgement.			
Title Plan	Yes ⊠ No □				
Check Ownership	Yes ⊠ No □				
		Applic	ation Type		
Is this application	n an Integrated D	Development Appl	ication?	Yes □ No ⊠	
Is this applicatio	n a Designated D	Development Appl	ication?	Yes \square No \boxtimes	
Is this applicatio	n for State Signif	icant Developmer	nt?	Yes \square No \boxtimes	
Is this applicatio	n submitted by/o	n behalf of a Publ	ic Authority?	Yes \square No \boxtimes	
Is this applicatio	n a staged Devel	opment?		Yes \square No \boxtimes	
Is this applicatio	n a section 96 an	nendment?		Yes \square No \boxtimes	
Date of origina	l development c	onsent:			
Concurrence/Referral Section 4.13 – EP & A Act					
Does this applic	Does this application require concurrence referral? Yes ⊠ No □				
Does this applic	ation require cou	rtesy comment?		Yes ⊠ No □	
Department	Concurrence	currence Courtesy Comments/Issues Raised			
Geological Survey of NSW – Mining, Exploration & Geoscience	Yes □ No ⊠	Yes ⊠ No □	GSNSW has reviewed the Statement Effects for the above DA and have no concerns to raise. They requested tha provide annual production data to the the site as a condition of consent.	issues or It the proponent	
Transport for NSW	Yes ⊠ No □	Yes □ No ⊠	TfNSW highlights that in determining under the <i>Environmental Planning a Act 1979</i> , it is the Consent Authority's consider the environmental impacts of which are ancillary to the development any works which form part of the promotive works which are deemed necessar requirements in the conditions of promotive promotive to the development with recommendations: The Consent Authority explained the impacts of and justified all proposed mitigation managements.	and Assessment is responsibility to if any road works int. This includes posal and/or any to include as ject approval. No h the following ority: application has the development	
			 condition the maximum domovements generated by the develop request an assessment of warrants in accordance with the Austraffic Management Part 6 and Austraffic Management 4A for the site action. 	ment. turn treatment stroads Guide to stroads Guide to	

order treatments.

the existence of the minimum basic turn treatments and addressing the need for any warranted higher

 condition all redundant accesses to be legally and physically closed prior to commencement of use of the new access.
 prior to determination have strategic (2D) design drawings of all proposed improvements to public roads and the site access to mitigate the traffic and road safety impacts of the development.
 condition that a Traffic Management Plan (TMP) be developed addressing the construction, operation and decommission phases of the proposed development.
 consider the need for any regulatory signage (truck turning signs) and where necessary seek the endorsement of the Local Traffic Committee prior to Council approval the signage.
• any future roadwork on the classified (State) road will need to be designed and constructed in accordance with the current Austroads Guidelines, Australian Standards and TfNSW Supplements. The developer will be required to enter into a Works Authorisation Deed (WAD) with TfNSW for any roadwork deemed necessary on the classified (State) road. The developer will be responsible for all costs associated with the roadwork and administration for the WAD.
The above response was forwarded onto the developer who included information to address these issues in the revised Statement of Environmental Effects.

Does this application require referral for decision by Council?

Yes ⊠ No □

Local Environmental Plan

Section 4.15(1)(a)(i) and Section 4.15(a((ii) – EP & A Act

This land is zoned:

Development as per

RU1 Primary Production

Development as per Standard Definitions:

This development is considered to be an extractive industry.

extractive industry means the winning or removal of extractive materials (otherwise than from a mine) by methods such as excavating, dredging, tunnelling or quarrying, including the storing, stockpiling or processing of extractive materials by methods such as recycling, washing, crushing, sawing or separating, but does not include turf farming.

Note — Extractive industries are not a type of **industry**—see the definition of that term in this Dictionary.

extractive material means sand, soil, gravel, rock or similar substances that are not minerals within the meaning of the Mining Act 1992.

	List the relevant clause/clauses applicable under the LEP			
Clause	Compliance	Comment		
Land Use Table	Yes ⊠ No □	This is permissible development.		
6.1 Earthworks	Yes ⊠ No □	An erosion & Sediment Control Plan was submitted as part of the application. It was reviewed by GSNSW who had not comment to make regarding any deficiency.		

Is there a draft LEP or draft LEP amendment which may affect this proposal?

Yes □ No ⋈

Do 'existing use' provisions (Sections 4.65-4.70 of the EP&A Act) apply to this development?

Yes □ No ⋈

development?

Development Control Plan

Section 4.15(1)(a)(iii) & Section 4.15(3A) – EP & A Act

Is there a DCP which applies to this land/proposal?

Yes	∇	NI_	
Y 42 S	IXI	131(1)	- 1

List the relevant clause/clauses under the applicable DCP				
Clause	Control	Compliance	Comment	
4.4(i)	Sewage	Yes ⊠ No □	A Section 68 Application will be required.	
4.4(j)	Bushfire	Yes ⊠ No □	No residential use of the quarry site will occur, most of the provisions of Planning for Bushfire Protection, published by the NSW Rural Fire Service, are not relevant to this proposal. However those applicable have been complied with.	
4.4 (I)	Koala Habitat	Yes ⊠ No □	Site contains remnant mature Red Stringy Bark (Eucalyptus macrorhyncha) and woolybutt (Eucalyptus banksii) trees. Neither species identified as a koala feed tree in Schedule 2 of State Environmental Planning Policy 44. Highly disturbed nature of site means that site is quite unlikely to be used by species in any ongoing manner.	
4.5	Vehicular Access Requirements	Yes ⊠ No □	Compliance can be achieved with the use of appropriate conditioning. See comments from TfNSW and Engineering Assessment	
4.6 (a)	Slopes >20%	Yes ⊠ No □	Maximum slope of site along southern boundary is 18% (10°).	
4.8	Land Use Buffers	Yes ⊠ No □	 The closest unrelated residences are: "Yarooga Park", more than 1,150 metres to the north. "Mt Pleasant", more than 1,500 metres to the north east. "Yarooga", more than 1,700 metres to the north west. Village of Walcha Road, more than 2,200 metres to the north west. The proposed quarry site is not visible from any dwelling or the Oxley Highway due to natural screening by a mix of topography (Appendix L) and vegetation (Appendix M & Appendix K). The NSW Department of Primary Industries recommends a minimum buffer of 1,000m between extractive industries using blasting and neighbouring unrelated residences as a conflict avoidance strategy. This proposal is clearly compliant with the NSW Department of Primary Industries recommendation. 	

Has a variation to the DCP been requested?

Yes	\Box	Nο	∇

Is there a draft DCP which may affect this proposal?

Yes	П	Nο	X

Regional Environmental Plan

There is no REP applicable to this area.

State Environmental Planning Policy

Is this proposal affected by a SEPP?

Yes \boxtimes No \square

<u>List all relevant SEPPs</u>			
SEPP	Compliance	Comment	
SEPP 19 — Bushland in Urban Areas	Not Applicable ⊠ Applicable □	The SEPP aims to protect and preserve bushland within the urban areas because of its value to the community as part of the natural heritage, its aesthetic value, and its value as a recreational, educational and scientific resource.	
SEPP 21 – Caravan Parks	Not Applicable ⊠ Applicable □	The SEPP ensures that where caravan parks or camping grounds are permitted under an environmental planning instrument, movable dwellings, as defined in the Local Government Act 1993, are also permitted.	
SEPP 33 — Hazardous and Offensive Development	Not Applicable □ Applicable ⊠	The SEPP provides considerations for consent for hazardous & offensive development.	
Complies	Yes No Comment Only	Definition hazardous industry means a development for the purposes of an industry which, when the development is in operation and when all measures proposed to reduce or minimise its impact on the locality have been employed (including, for example, measures to isolate the development from existing or likely future development on other land in the locality— (a) to human health, life or property, or (b) to the biophysical environment. offensive industry means a development for the purposes of an industry which, when the development is in operation and when all measures proposed to reduce or minimise its impact on the locality have been employed (including, for example, measures to isolate the development from existing or likely future development on other land in the locality), would emit a polluting discharge (including, for example, noise) in a manner which would have a significant adverse impact in the locality or on the existing or likely future development on other land in the locality. A hazardous industry' under SEPP 33 is one which, when all locational, technical, operational and organisational safeguards are employed continues to pose a significant risk. A proposal is 'potentially offensive industry' consent authorities need to determine whether, in the absence of safeguards, the proposal would emit a polluting discharge which would cause a significant level of offence. This development is not considered to be either offensive all hazardous as all impact can be controlled with mitigation measures.	
SEPP 36 – Manufactured Homes Estates	Not Applicable ⊠ Applicable □	The SEPP helps establish well-designed and properly serviced manufactured home estates in suitable locations.	

SEPP 44 — Koala	Not Applicable □	This SEPP applies to land across NSW that is greater than	
Habitat Protection	Applicable ⊠	one (1) hectare and is not a National Park or Forestry Reserve. The SEPP encourages the conservation and management of natural vegetation areas that provide habitat for koalas to ensure permanent free-living populations will be maintained over their present range.	
Complies	Yes ⊠ No □ Comment Only □	This policy applies to this Local Government Area as it is listed in Schedule 1 of this SEPP and the property is more than 1 ha in area.	
		Site contains remnant mature Red Stringy Bark (<i>Eucalyptus macrorhyncha</i>) and woolybutt (<i>Eucalyptus banksii</i>) trees. Neither species identified as a koala feed tree in Schedule 2 of State Environmental Planning Policy 44. Highly disturbed nature of site means that site is quite unlikely to be used by species in any ongoing manner.	
SEPP 47 – Moore Park Showground	Not Applicable ⊠	Applies to the land shown edged heavy black on the map marked "Moore Park Showground Amendment No 1."	
SEPP 50 Canal Development	Not Applicable ⊠ Applicable □	This SEPP bans new canal estates from the date of gazettal, to ensure coastal and aquatic environments are not affected by these developments.	
SEPP 55 — Remediation of Land	Not Applicable □ Applicable ⊠	This SEPP applies to land across NSW and states that land must not be developed if it is unsuitable for a proposed use because of contamination.	
Complies	Yes ⊠ No □ Comment Only □	This SEPP requires consideration of whether there have been any activities carried out on land in the past that may have resulted in contamination. If contamination may be present, the proponent is required to undertake suitable investigation and, if necessary, remediation works.	
		It is considered that there have been no prior contaminating land uses and the site is suitable for the proposed use.	
		No significant sources of contamination were observed on the proposed development site or nearby during inspections. A targeted search was made for evidence of issues commonly associated with grazing land, such as:	
		Rubbish & rubbish dumps (eg tyres, lead batteries, wire, glass, car bodies, asbestos building materials, herbicide containers, pesticide containers, etc).	
		Sheep/cattle dips (contamination from arsenic, organophosphates, etc).	
		Fuel tanks/workshops (oil and diesel spills).	
SEPP 64 — Advertising and Signage	Not Applicable ⊠ Applicable □	The SEPP aims to ensure that outdoor advertising is compatible with the desired amenity and visual character of an area, provides effective communication in suitable locations and is of high-quality design and finish.	
SEPP 65 — Design Quality of Residential Flat Development	Not Applicable ⊠ Applicable □	The SEPP relates to residential flat development across the state through the application of a series of design principles. Provides for the establishment of Design Review Panels to provide independent expert advice to councils on the merit of residential flat development.	

SEPP 70 – Affordable Housing (Revised Schemes)	Not Applicable ⊠ Applicable □	This SEPP identifies that there is a need for affordable housing across the whole of the State and describes the kinds of households for which affordable housing may be provided and makes a requirement with respect to the imposition of conditions relating to the provision of affordable housing.
Aboriginal Land 2019	Not Applicable ⊠ Applicable □	This SEPP provides for development delivery plans for areas of land owned by Local Aboriginal Land Councils to be considered when development applications are considered, and declares specified development carried out on land owned by Local Aboriginal Land Councils to be regionally significant development.
Affordable Rental Housing 2009	Not Applicable ⊠ Applicable □	The SEPP provides for an increase in the supply and diversity of affordable rental and social housing in NSW.
Building Sustainability Index: BASIX 2004	Not Applicable ⊠ Applicable □	The SEPP provides for the implementation of BASIX throughout the State.
Coastal Management 2018	Not Applicable ⊠ Applicable □	This SEPP promotes an integrated and co-ordinated approach to land use planning in the coastal zone in a manner consistent with the objects of the Coastal Management Act 2016, including the management objectives for each coastal management area.
Concurrences 2018	Not Applicable ⊠	This SEPP allows the Planning Secretary to act as a concurrence authority.
Educational Establishments and Child Care Facilities 2017	Not Applicable ⊠ Applicable □	This SEPP facilitates the effective delivery of educational establishments and early education and care facilities across the state.
Exempt and Complying Development Codes 2008	Not Applicable ⊠ Applicable □	The SEPP provides exempt and complying development codes that have State-wide application, identifying, in the General Exempt Development Code, types of development that are of minimal environmental impact that may be carried out without the need for development consent; and, in the General Housing Code, types of complying development that may be carried out in accordance with a complying development certificate.
Gosford City Centre 2018	Not Applicable ⊠	This SEPP applies to the Gosford City Centre.
Housing for Seniors or People with a Disability 2004	Not Applicable ⊠ Applicable □	The SEPP aims to encourage provision of housing for seniors, including residential care facilities. The SEPP provides development standards.
Infrastructure 2007	Not Applicable □ Applicable ⊠	The SEPP provides a consistent approach for infrastructure and the provision of services across NSW, and to support greater efficiency in the location of infrastructure and service facilities.
Complies	Yes ⊠ No □ Comment Only □	The Oxley Highway is a NSW Roads and Maritime Services "classified road", hence Council is required to comply with clause 101 of State Environmental Planning Policy (Infrastructure) 2007 when considering this Development Application. Sub-clause 101(2) is the most relevant part, as reproduced below: (2) The consent authority must not grant consent to development on land that has a frontage to a classified road unless it is satisfied that— (a) where practicable and safe, vehicular access to the land is provided by a road other than the classified road, and

		 (b) the safety, efficiency and ongoing operation of the classified road will not be adversely affected by the development as a result of— (i) the design of the vehicular access to the land, or (ii) the emission of smoke or dust from the development, or (iii) the nature, volume or frequency of vehicles using the classified road to gain access to the land, Matters arising from sub-clause 101(2) are: (2)(a) – There is no alternative road via which vehicular access is practicable. (2)(b)(i) – The proponent has outlined a proposal for improved Oxley Highway access in section 2.6 and provided preliminary designs (Appendix I) consistent with Transport for NSW requirements (Appendix H). (2)(b)(ii) – The proposed quarry site is located more than 700 metres (direct line) from the Oxley Highway at the closest point, hence significant dust impacts from quarry operations are quite unlikely. Potential dust from trucks transporting quarry products through the "Brooklyn" property onto the
		Oxley Highway will be managed as outlined in section 4.3.1. • (2)(b)(iii) – Quarry traffic estimates have for various levels of production have been prepared and included as Appendix G. The actual number is expected to fluctuate significantly from year to year depending on the actual number of orders and the volume of product required, as noted previously. These estimates have been used to prepare appropriate designs for highway access (Appendix 1)
Kosciuszko National Park – Alpine Resorts 2007	Not Applicable ⊠	This SEPP applies to part of Kosciuszko national park, and to Kosciuszko Road and the Alpine Way. The part of Kosciuszko Park to which the policy applies is the land described as the ski resort area in Part 8A of Schedule 6 to the Act.
Kurnell Peninsula 1989	Not Applicable ⊠	This SEPP applies to land within the Shire of Sutherland, known as Kurnell Peninsula, and adjacent waterways.
Mining, Petroleum Production & Extractive Industries 2007	Not Applicable □ Applicable ⊠	The SEPP aims to provide proper management of mineral, petroleum and extractive material resources and ESD.
Complies	Yes ⊠ No □ Comment Only □	Clause 12 of State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007 requires the consent authority, Walcha Council, to consider the compatibility of the proposed quarry with existing, approved and likely preferred land uses in the vicinity, amongst other things. The proposal is compatible with such uses given that: • The quarry is located within a RU1 Primary Production zone. • Council does not have any publicly available planning proposals or policy documents indicating that it is considering rezoning any land in the vicinity.

		 On a local, regional and state wide basis quarries are predominantly located in RU1 Primary Production zones along with a mix of agricultural, forestry and resource extraction industries. The quarry will provide a source of gravel and aggregate for the local community. The quarry has a substantial buffer of more than 1 kilometre to the nearest unrelated dwelling. Clause 15 of the SEPP requires the consent authority to consider the efficiency the development in terms of resource recovery. The proposed quarry will extract rock in an orderly manner subject to demand, which is typical of such quarries in similar settings. Clauses 14, 16 and 17 require the consent authority to consider the imposition of conditions relating to natural resource management, environmental management, transport and rehabilitation.
Miscellaneous Consent Provisions 2007	Not Applicable ⊠ Applicable □	This SEPP provides for the erection of temporary structures and the use of places of public entertainment while protecting public safety and local amenity.
Penrith Lakes Scheme 1989	Not Applicable ⊠	This SEPP applies to the land shown edged heavy black on the structure plan relating to Penrith Lakes.
Primary Production and Rural Development 2019	Not Applicable □ Applicable ⊠	This SEPP facilitates the orderly economic use and development of lands for primary production; reduce land use conflict and sterilisation of rural land.
Complies	Yes ⊠ No □ Comment Only □	The development would meet the aims of this SEPP particularly (b) in that the site is located where there will be minimal land use conflict or sterilisation of primary production land.
State and Regional Development 2011	Not Applicable ⊠ Applicable □	This SEPP identifies development that is State significant development or State significant infrastructure and critical State significant infrastructure and to confer functions on joint regional planning panels to determine development applications.
State Significant Precincts 2005	Not Applicable ⊠ Applicable □	This SEPP facilitates the development, redevelopment or protection of important urban, coastal and regional sites of economic, environmental or social significance to the State so as to facilitate the orderly use, development or conservation of those State significant precincts for the benefit of the State, and facilitates service delivery outcomes for a range of public services and to provide for the development of major sites for a public purpose or redevelopment of major sites no longer appropriate or suitable for public purposes.
Sydney Drinking Water Catchment 2011	Not Applicable ⊠ Applicable □	This SEPP provides for healthy water catchments that will deliver high quality water while permitting compatible development.
Sydney Region Growth Centres 2006	Not Applicable ⊠	This SEPP co-ordinates the release of land for residential, employment and other urban development in the Orth West Growth Centre, the South West Growth Centre and the Wilton Growth Area.
Three Ports 2013	Not Applicable ⊠	This SEPP provides a consistent planning regime for the development and delivery of infrastructure on land in Port Botany, Port Kembla and the Port of Newcastle

Urban Renewal 2010	Not Applicable ⊠ Applicable □	This SEPP establishes the process for assessing and identifying sites as urban renewal precincts, and facilitates the orderly and economic development and redevelopment of sites in and around urban renewal precincts,
Vegetation in Non- Rural Areas 2017	Not Applicable ⊠ Applicable □	This SEPP protects the biodiversity values of trees and other vegetation in non-rural areas of the State, and to preserves the amenity of non-rural areas of the State through the preservation of trees and other vegetation.
Western Sydney Employment Area 2009	Not Applicable ⊠	This SEPP protects and enhances the land known as the Western Sydney Employment Area for employment purposes.
Western Sydney Parklands 2009	Not Applicable ⊠	This SEPP puts in place planning controls that will enable the Western Sydney Parklands Trust to develop the Western Parklands into a multi-use urban parkland for the region of western Sydney.

		region of western Sydney.				
	<u>List all relevant Draft SEPPs</u>					
SEPP	Compliance	Comment				
SEPP 55 — Remediation of Land	Not Applicable □ Applicable ⊠	The proposed SEPP will provide a state—wide planning framework for the remediation of land; require consent authorities to consider the potential for land to be contaminated when determining development applications; clearly list the remediation works that require development consent; and introduce certification and operational requirements for remediation works that can be undertaken without development consent.				
Complies	Yes ⊠ No □ Comment Only □	See Comment above.				
SEPP - Environment	Not Applicable ⊠ Applicable □	 This consolidated SEPP proposes to simplify the planning rules for a number of water catchments, waterways, urban bushland, and Willandra Lakes World Heritage Property. Changes proposed include consolidating the following seven existing SEPPs: State Environmental Planning Policy No. 19 – Bushland in Urban Areas State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011 State Environmental Planning Policy No. 50 – Canal Estate Development Greater Metropolitan Regional Environmental Plan No. 2 – Georges River Catchment Sydney Regional Environmental Plan No. 20 – Hawkesbury-Nepean River (No.2-1997) Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005 Willandra Lakes Regional Environmental Plan No. 1 – World Heritage Property. 				
SEPP – Housing Diversity	Not Applicable ⊠ Applicable □	This SEPP aims to facilitate the delivery of diverse and affordable housing to meet the needs of the State's growing population and support the development of a build-to-rent sector. It introduces new definitions for build-to-rent housing, student housing and co-living; • amends some state-level planning provisions, particularly for boarding house and seniors housing development; • amends some state-level planning provisions to				

		support social housing developments up the NSW Land and Housing Corporation government-owned land; and consolidates three housing-related SEF State Environmental Planning Policy Rental Housing) 2009 State Environmental Planning Policy Seniors and People with a Disability, State Environmental Planning Policy Affordable Housing (Revised Scheme	n (LAHC) on Ps (Affordable (Housing for 2004 No 70 –	
SEPP (State & Regional Development)	Not Applicable ⊠ Applicable □	The proposed changes will: Remove the \$30 million capital investment for upgrades of water treatment facilities as an existing facility. • Fast-track the approval process so drowwater treatment facility upgrades can be quicker. • Allow Sydney Water to respond to future conditions. The proposed changes will allow facilities a significant environmental impact on the elebe assessed by water supply public author a longer State Significant Infrastructure as process. Any new water treatment facilities will still a State Significant infrastructure. The propose won't apply to desalination plants, new water facilities or water storage facilities.	aght related e delivered e drought unlikely to have environment to dities, instead of sessment de assessed as seed changes	
SEPP (Infrastructure)	Not Applicable ⊠ Applicable □	This amendment aims to clarify and stream planning assessment for the extension and of the Wild Dog Fence. The proposed amendment includes: Extension: amend Clause 132 to allow the fence to be considered as State Sig Infrastructure (subject to a detailed assereplacing the need to seek multiple gove approvals for different parts of the fence that permit routine maintenance of the fearming out as exempt development.	an extension of nificant essment) ernment e.	
	Section ement in force under	Aning Agreement 4.15(1)(a)(iiia) – EP & A Act section 93F of the EP&A Act?	Yes □ No ⊠	
Has a Planning Agreeme		er this development? egic Planning Statement	Yes □ No ⊠	
Walcha	a Community Str	ategic Plan Alignment	Applicable	
<u>Transport</u>				
CSP 1.1 Walcha will be serviced by an integrated and efficient transport network. Yes ⊠ No □				

Business & Jobs	
CSP 2.1 - Commercial and tourist development will be promoted and encouraged to grow in harmony with the natural environment, to take maximum advantage of commercial opportunities and to increase local employment.	Yes ⊠ No □
<u>Health</u>	
CSP 3.1 - Health services and facilities will be provided and where appropriate managed locally to meet the needs of the community.	Yes □ No ⊠
CSP 3.2 - The public health and wellbeing of the community will be protected and enhanced.	Yes □ No ⊠
Education and Training	
CSP 4.1 - Education and training opportunities will be provided that deliver the skills and knowledge needed to advance the community.	Yes □ No ⊠
<u>Stronger Community</u>	
CSP 5.1 - Social services will be planned, maintained and coordinated so that they meet the current and future needs of all groups in the community.	Yes □ No ⊠
CSP 5.2 - The existing strong community spirit and pride will be protected and promoted.	Yes \square No \boxtimes
CSP 5.3 - Walcha's cultural identity will be enhanced.	Yes \square No \boxtimes
CSP 5.4 - Walcha's Aboriginal communities will be supported and strengthened.	Yes \square No \boxtimes
CSP 5.5 - Young people will be retained and supported to live in Walcha.	Yes \square No \boxtimes
CSP 5.6 - People of all ages and abilities will be encouraged to participate in cultural, recreational and sporting activities.	Yes □ No ⊠
CSP 5.7 - Community members will be given the opportunity to develop their leadership skills so that they can better participate in the leadership of the community.	Yes □ No ⊠
Local Environment & Liveable Communities	
CSP 6.1 - Walcha's distinct and diverse natural and built environment will be protected and enhanced.	Yes ⊠ No □
CSP 6.2 - Solid waste will be managed in a sustainable manner with a continuing reduction in waste generation and disposal to landfill.	Yes □ No ⊠
CSP 6.3 - Water supply and sewerage services will be physically and environmentally sensitive.	Yes □ No ⊠
CSP 6.4 - Walcha will increase the use and production of renewable energy.	Yes \square No \boxtimes
CSP 6.5 - Agricultural activities will be environmentally sustainable.	Yes \square No \boxtimes
CSP 6.6 - The character of Walcha and its surrounding villages will be maintained while protecting the productivity of our rural land.	Yes □ No ⊠
Keeping People Safe	
CSP 7.1 - Police stations and staff numbers will be provided to effectively control and reduce crime and antisocial behaviour and to keep our community safe.	Yes □ No ⊠
CSP 7.2 - Emergency Services will be provided to ensure the safety of our community and visitors.	Yes □ No ⊠
Better Government	
CSP 8.1 - Walcha Council will exemplify good leadership, mutual respect and trust by being inclusive, ensuring open information and communication and encouraging active anticipation at all levels.	Yes □ No ⊠
CSP 8.2 - Council rate funding for local government projects will be supplemented by income generated from other sources.	Yes \square No \boxtimes

CSP 8.3 - The boundaries of the Walcha Local Government Area will be modified to Yes \square No \boxtimes reflect existing and developing communities of interest.

Planning Priority	Applicable
PP 1 - Encourage diversification in grazing agriculture, horticulture and agribusiness to grow these sectors and respond to domestic and international opportunities	Yes □ No ⊠
PP 2 -Foster resilience and diversification in the agricultural industry to respond to the ageing farming workforce and climate change	Yes \square No \boxtimes
PP 3 -Expand nature-based adventure and cultural tourism places and enhance visitor experiences	Yes □ No ⊠
PP 4 - Deliver a variety of housing options in Walcha and promote development that contributes to the unique character of Nowendoc, Walcha Road and Woolbrook	Yes □ No ⊠
PP 5 - Raise the area's profile and awareness of employment, business development and lifestyle opportunities, particularly for younger people and provide services for the ageing population	Yes □ No ⊠
PP 6 -Continue to develop access and logistics infrastructure on appropriate sites to encourage new industry opportunities	Yes $oxtimes$ No $oxtimes$
PP 7 - Protect and celebrate our unique sense of place	Yes \square No \boxtimes
PP 8 - Identify and promote wind, solar and other renewable energy production opportunities; manage and support the transition to renewable energy	Yes □ No ⊠
New England North West Regional Plan Alignment	Applicable
Direction 1 - Expand agribusiness and food processing sectors	Yes \square No \boxtimes
Direction 2 – Build agricultural activity	Yes \square No \boxtimes
Direction 3 - Protect and enhance productive agricultural lands	Yes ⊠ No □
Direction 4 – Sustainably manage mineral resources	Yes □ No ⊠
Direction 5 - Grow New England North West as the renewable energy hub of NSW	Yes □ No ⊠
Direction 6 – Deliver new industries of the future	Yes □ No ⊠
Direction 7 - Build strong economic centres	Yes $oxtimes$ No $oxtimes$
Direction 8 – Expand tourism and visitor opportunities	Yes \square No \boxtimes
Direction 9 - Coordinate growth in the cities of Armidale and Tamworth	Yes \square No \boxtimes
Direction 10 - Sustainably manage and conserve water resources	Yes \square No \boxtimes
Direction 11 – Protect areas of potential high environment value	Yes \square No \boxtimes
Direction 12 - Adapt to natural hazards and climate change	Yes \square No \boxtimes
Direction 13 - Expand emerging industries through freight and logistics connectivity	Yes \square No \boxtimes
Direction 14 - Enhance transport and infrastructure networks	Yes $oxtimes$ No $oxtimes$
Direction 15 – Facilitate air and public transport infrastructure	Yes \square No \boxtimes
Direction 16 – Coordinate infrastructure delivery	Yes \square No \boxtimes
Direction 17 – Strengthen community resilience	Yes \square No \boxtimes
Direction 18 - Provide great places to live	Yes \square No \boxtimes
Direction 19 – Support healthy, safe, socially engaged and well connected communities	Yes □ No ⊠
Direction 20 - Deliver greater housing diversity to suit changing needs	Yes \square No \boxtimes
Direction 21 - Deliver well planned rural residential housing	Yes \square No \boxtimes

Direction 22	f Aboriginal Communities	Yes □ No ⊠			
Directions 2 Aboriginal c	Yes □ No ⊠				
Direction 24	- Protect the region's historic heritage assets		Yes \square No \boxtimes		
	Strategy	Action			
Ge	enerate new industry opportunities	The condition and capability of the road network to support the freight sector, increase connectivity, and accommodate new industry opportunities.			
Has the applicant submitted any supporting planning assessments? Yes ⊠ No □					
Comment:	comment: Statement of Environmental Effects – Version 1.2 August 2020				
Subdivision					
Is this applica	s this application for subdivision? Yes □ No				
Comment: Consolidation of lots will be required as a condition of development consent. This is to ensure that the quarry only sits on a single lot.					
Environmental Impacts Section 4.15(1)(b) – EP & A Act					
	·	· · · · · · · · · · · · · · · · · · ·	·		

Does this proposal have any potential impact on:

Bood time propor	sal have any potent	ı	JII.					
	Impact	Comment						
Social	Yes ⊠ No □	No significant negative social impacts are expected given the:						
		 Rural setting of the quarry, within a RU1 Primary Production zone. 					oduction	
			Substantia neighbour				arry and reside	ences of
Economical	Yes ⊠ No □	Positive I	mpact					
		Initially direct employment levels at the quarry are expected to be in the vicinity of one full time equivalent position, per 5,000 loose cubic metres (LCM) of annual production.						
		Estimate	d full time	e equival	ent e	mployees (FTE	<u>).</u>	
		ANI	NUAL PROE	DUCTION	Q	UARRY FTE		
		LCM	to	nnes				
		1,000 2,400			0.2			
		5,000 12,000 1						
		10,000 24,000 2						
		20,0	000 48	3,000		4		
		29,000 69,600 5						
		Estimate	d contrac	tor days	per a	nnum.		
		ANNUAL PRODUCTION		MAINTE	ANT NAN	EXPLOSIVES USE	CRUSHING &	TOTA
		3	tonnes	CE		& TRANSPORT	SCREENIN G	L
		1,000	2,400	4		1	1	1 0
		5,000	12,000	8		1.5	5	1 5
		10,000	24,000	1		3	1	2

		20,000	48,000	1	6	2	4
		29,000	69,600	2	9	3	5
		A local quarry will substantially reduce freight costs, hence the overall cost of construction for any project requiring significant amounts of aggregate or road base. For example, transport costs for aggregate used to manufacture concrete at Walcha are expected to be reduced by more than 80%.					of gate
Siting & Configuration	Yes □ No ⊠	The propo	osal is co	nsistent with N	SW Department		
Setbacks	Yes □ No ⊠	using blas	sting and r	eighbouring r	esidences.		
Privacy	Yes □ No ⊠						
Overshadowin g	Yes □ No ⊠						
Solar Access	Yes □ No ⊠						
Visual	Yes □ No ⊠		ellings. W	hen standing ir	dey Highway, no the proposed q		rom any
Significant Views	Yes □ No ⊠						
Water	Yes □ No ⊠	Significant quarry under quarry under spring surface. No root the quarry the quarry by the quarry by the propose than 1500 identified by the propose identified by th	groundwaler typical of are no new sor other sew aquifer. It warry is loo part of the Groundwaler sites were groundwaler of the	ter flows area to perating conductors arby permaner features suggeth significant posterior and the end of approximates are the NSW Aquities and the maximum of the proposed fated that standard from the maximum of the	a Brooklyn for durilikely to be endicated to a main basalt within the subject of a control of the first within 2km of the identified both excavation. A ding water levels of a control of the identified both excavation. A ding water levels of a control of the identified both excavation. A ding water levels of a control of the identified both excavation. A ding water levels of and was within the ement unit to the identified both excavation. A ding water levels of and was within the ement unit to the identified both excavation.	wetlands, nce of a near n identified on ed ridge that ng the drilling of detailed reports. ssessment — a ximum depth he quarry footpoorte. The pan aquifer interpolicy (2012). The pan aquifer interpolicy (2012). The proposed of the propos	or near of 5 bore the of 1130 of 1130 print at a proposed erference ater data fors and e site. or cultural quarry. radius of ted more for the swere at on. The proposed atchment

Five monitoring bores were installed within or close to the footprint of the proposed quarry excavation. Groundwater levels were measured at each bore. Failing head and rising head slug tests were performed on four of the five bores to assess hydraulic conductivity of aquifer material within and surrounding the proposed quarry excavation.

A conceptual site model was developed based on available groundwater and topographical data. The proposed quarry excavation would be located approximately 200m south of the Great Dividing Range. The ground surface around the proposed quarry falls steeply to the south east, south and west. The surface elevation was more than 100m below the base of the proposed excavation less than 500m to the south east and south of the quarry. Groundwater elevation data showed a steep groundwater gradient to the south east, south and west of the proposed quarry, consistent with steeply sloping surface topography.

An analytical model was adopted to predict steady state drawdown impacts and groundwater inflow to the open excavation at the completion of quarrying. The model predicted drawdown impacts would extend approximately 132m north of the proposed excavation. Groundwater inflow was estimated to be 1.16m³/day.

Model prediction showed good agreement with observed real world drawdown in basalt within the quarry footprint, which was already draining to the south due to the presence of natural void (a deep valley) to the south.

The modelled groundwater inflow to the excavation is less than the expected evaporation rate from the open excavation. There is also potential for any groundwater inflow to drain through the floor of the excavation, as the base of the proposed excavation remains elevated above the valley to the south. Mechanical dewatering of the excavation is unlikely to be required. Any water accumulation in the excavation could be used in quarry operations or used as stock water at the completion of the development.

Direct take (eg: pumping for beneficial use) or indirect take of groundwater (eg: losses to evaporation) are required to be licenced. The annual groundwater inflow to the open excavation would be less than 2ML. The Applicant would need to source commercial use entitlement to take 2ML from the New England Fold Belt (Murray Darling Basin) groundwater management unit prior to intersecting the water table. The NSW Department of Industry Planning and Environment website (https://www.industry.nsw.gov.au/water/allocations-availability/water-

<u>accounting/usage-dashboard</u>, 7 August 2020) indicates that there is 11384ML allocated within the New England Fold Belt (Murray Darling Basin) groundwater unit. It would be possible for the Applicants to obtain the required groundwater entitlement prior to intersecting the water table.

The project involves blasting, crushing and screening of excavated rock. The proposed activities have little if any potential to add contaminants that could adversely change groundwater quality. Operation of plant and machinery and use of nitrogen containing explosives poses a similar risk to groundwater quality as existing agricultural use of the Site and adjoining land. Potential risks to water quality can be managed by implementing appropriate procedures for storage and use of chemicals, refuelling and maintenance of plant and machinery and implementing appropriate spill response plans.

The information presented in this report indicates that the groundwater impacts associated with the proposed development would not exceed the Level 1 "minimum impact consideration" outlined in the NSW Aquifer Interference Policy (NSW DPI, 2012b). Therefore, groundwater impacts associated with the project are acceptable.

Dust

Yes ⊠ No □

NSW Health <u>advice</u> indicates that the vast majority of dust from mining/quarry activities consists of coarse particles (around 40 per cent) and particles larger than PM10, generated from natural activities such

mechanical disturbance of rock and soil materials, for example by blasting, crushing and vehicles driving on dirt roads. Particles are also generated when wind blows over bare ground and different types of stockpiles. Larger particles can have amenity impacts as well as health impacts.

Fine particles from vehicle exhausts and mobile equipment are also produced at mine/quarry sites, though they only account for about 5 per cent of the particles emitted during the mining process. Fine particles are manly from vehicle and mobile equipment exhausts.

It is expected that the primary sources of dust associated with the operation of the proposed quarry will be:

- Drilling rock.
- Blasting rock (see section 4.7 for more information).
- Crushing & screening rock.
- Transport trucks accessing the site.

Basalt will be the primary material being excavated, which is comparatively hard. There are no significant amounts of friable rock or earth present in the geological profile below about 2 metres.

To ensure worker safety a mixture of dust mitigation measures will be applied and amended in response to weather conditions, rock moisture content, plant location, etc. Those measures will be consistent with industry standards and include:

- Application of chemical surfactants.
- Enclosing conveyor transfer points.
- Implementation of water truck procedures.
- Installation of sprays at conveyor transfer points.
- Operator training and fit testing for respiratory protective equipment.
- Programmed maintenance of spray nozzles, pumps and plumbing.
- Regular inspections of operating dust controls.

The performance objective will be to ensure that:

- Quarry operations are conducted in accordance with the NSW Resource Regulator's 2020 workplace safety standards specified in the "Dust Safety in the Metals and Extractives Industries" document.
- No significant dust resulting from quarry operations is present more than 500 metres from the site boundary.

Trucks hauling quarry products via the access track within the property is a potential source of dust that could impact residents of the "Brooklyn" dwelling. The proposed track passes within 290m of the dwelling, hence it will need to need to be used and maintained in an appropriate manner to avoid impacts, especially in dry and windy conditions.

Strategies that will be used to minimise potential dust impacts associated with the quarry access track include:

- Constructing and maintaining the track with a firm all weather surface.
- Signposting and restricting quarry truck speeds to a maximum of 20km/h on the track.
- Mandatory site induction for all staff which highlights compulsory signposted speed limit for quarry site and access road.
- If the above measures become inadequate during dry and/or windy conditions, then additional strategies will be applied, including one or more of the following:
 - Reducing quarry truck speeds to a maximum of 10km/h
 - Using a water cart to suppress dust along sections of the track which may impact the "Brooklyn" dwelling or neighbours.

		Applying a dust suppression coating to the track, such as a polymer or bitumen based emulsion.
		The performance objective will be to ensure that no significant dust resulting from quarry traffic is present more than 500 metres from the quarry access track, or on the site of any dwelling.
Noise	Yes ⊠ No □	EPA Noise Policy
		Noise associated with new developments is regulated under the 'Noise Policy for Industry', published in 2017 by the NSW Environmental Protection Authority (NSW EPA). A key intent of the policy is to apply all feasible and reasonable measures to reduce predicted noise levels to the "project noise trigger levels" when predicted noise levels are above these levels.
		The "project noise trigger level" is the lower (most stringent) value of two different noise levels:
		 An "intrusiveness noise level" which limits the extent to which a noise source can exceed the background level (that is, background plus 5 decibels [dB]) above a minimum threshold.
		2. A "project amenity noise level" provides an overall noise-level cap for different land uses.
		In this case the levels are:
		1. "Intrusiveness noise level" – Determined by rating background level (RBL) plus 5 dBA. The minimum RBL is 40 dBA during daylight hours in a RU1 Primary Production zones (Policy Table 2.1). The final intrusiveness noise level in this case is 45 dBA.
		2. "Noise amenity level" — During daylight hours is 50dBA when measured at an unrelated rural residential dwelling (Policy Table 2.2). Cumulative industrial noise is not relevant in this case as further industrial development is unlikely in the area.
		Ultimately the relevant "project noise trigger level" for this development, measured at unrelated rural dwellings, is the 45 dBA "Intrusiveness noise level".
		It is relevant to note the NSW EPA 'Noise Policy for Industry' states:
		"The reaction to noise varies widely from individual to individual. Because of this, it is not possible to set noise levels that will guarantee no one will experience an impact.

There will usually be some members of the community who find any noise unacceptable, regardless of whether it meets the project noise trigger level, and others who will not be bothered by noise even if it is above the project noise trigger level."

Access

At the peak level of quarry operations Over an 8 hour day this will result in about 1 truck movement each 30 minutes and occasionally multiple vehicles would use the access at a similar time.

Indicative maximum noise levels from single and multiple vehicles accessing the quarry are:

Maximum expected vehicle noise from quarry access

EQUIPMENT USIN ESS	IG SWL LAe (dB(A))	q SPL @7m (dB(A))	SPL @ 300m L Aeq (15 min) (dB(A))
1 Truck (>20 tonne)	1 0	8 1	4 0
1 Light vehicle (eg 4WD)	1 0	7 8	3 7
2 trucks & 1 light vehicle	1 1	8 2	4 4

For this development the "Project noise trigger level" measured at unrelated rural dwellings is 45 L Aeq (15 min) (dB(A))

As noted in section 2.6.1, 2011 NSW Roads and Maritime traffic volume data for the Oxley Highway indicates that there are about 105 truck movements per day in either direction. If the quarry reaches peak production levels, then there will be an average of about 15 additional truck movements per day along the highway, increasing truck movements by up to 14%.

Overall the available information indicates that transport activities associated with the quarry on the access road and highway are quite unlikely to substantially increase existing noise levels in the vicinity.

Strategies that will be used to minimise potential noise impacts from use of the quarry access track include:

- Only transporting quarry products during daylight hours.
- Signposting and restricting all quarry truck speeds to a maximum of 20km/h on the track.
- Ensuring a consistent moderate gradient on the access track and highway access point to minimise the potential need for the use of exhaust braking.

Quarry Machinery

Quarry machinery and related noise will primarily arise from excavation, crushing and screening activities.

Expected quarry machinery noise levels

An estimate of maximum quarry noise level over a 15 minute interval at dwellings in the vicinity has been prepared using the NSW RMS Construction and Noise Estimator Tool

Maximum quarry noise at dwellings

	DISTANCE	ATTENUATION dB(A)			SPL L Aeq
SCENARIO/LOCATION	metres	TYPE	LIKELY	APPLIED	(15
All quarry machinery listed in Table 12 operating simultaneously		N i I	Nil	Nil	102
"Brooklyn" dwelling	660	Ridge	5-10	Nil	50
"Yarooga Park" dwelling	>1,150	Ridge	5-10	Nil	43
"Mount Pleasant" dwelling	>1,500	Ridge & trees	5-10	Nil	
"Yarooga" dwelling	>1,700	Ridge & trees	>10	Nil	
Walcha Road village	2,200	Ridge & trees	>10	Nil	

The "Project noise trigger level" measured at unrelated rural dwellings is 45 L Aeq (15 min) (dB(A))

Based on the indicative modelling data within Tables 12 and 13, the "Intrusiveness Noise Level" specified by the NSW EPA will not be exceeded at any unrelated dwellings.

Furthermore, the modelled levels are likely to be significantly overestimated given that no provision was made for attenuation (reduction) of noise levels by land-form or vegetation. There is no line of sight between the quarry site and any dwellings, hence no direct path for sound to travel.

		Noise associated with the operation of quarry machine by:	ery will be mitigated
		 Only using excavating and processing n daylight hours, as outlined in Table 3. 	nachinery during
		Restricting days of operation, as noted previous	•
		 Ensuring all machinery is fitted and maintain mufflers. 	ained with suitable
		These strategies can be ensured by the use of conditingation measures and recommendations as stated Environmental Effects are undertaken.	
Land Degradation	Yes ⊠ No □	Upon cessation of quarry operations the void will be create a safe and stable landform consistent with requirements. This is expected to involve one or more strategies:	the landowner's
		 Pre-stripping and stockpiling top soil from the site. used to facilitate re-vegetation of disturbed areas. Battering the edges of the quarry void to reduce the either by excavation or by suitable placement of when the Ripping and/or applying a veneer of topsoil to the reduced to the redu	the slope of walls, aste rock.
		 compacted soil associated with the quarry void. Using the quarry void to retain water for domes drink from. This may require some earthwork appropriate access paths and slopes. 	ks to facilitate
		 Using appropriate earthworks to ensure surface we cause significant soil erosion after cessation of open 	
Tree Loss	Yes □ No ⊠	The proposed development will not significantly re fragment any established vegetation as:	emove, modify or
Flora	Yes □ No ⊠	No habitat of a threatened species or ecological been identified on the site or proposed access traci	
Fauna	Yes □ No ⊠	Less than 0.5 hectare of scattered mature tred cleared from a highly disturbed area.	
		Existing isolated trees are quite vulnerable to diek various factors including insect attack, mistletoc livestock, wind, altered soil structure & chemistry, e	e, ringbarking by
		No significant fragmentation or isolation will occur the proposed development.	as a result of
		A review of the Areas of Outstanding Biodiversity Value on 31 January 2020 showed four areas, none of within 200km of the proposed development site. In proposal is very unlikely to have any adverse effect, indirectly.	which are located n that context the
		<u>Conclusion</u> : The proposed development or acti significantly affect any threatened species or ecologitheir habitats. In that context a biodiversity develoreport is not warranted in this case.	cal communities, or
Has a Threatene	ed Species Impac	t Assessment been prepared?	Yes ⊠ No □
Are there any sp	oecies/communitie	es listed under the TSC Act?	Yes □ No ⊠
Are there any ke	ey threatening pro	cesses?	Yes ⊠ No □

Comment:

Given the scale, type and context of the proposed development, it is unlikely to make any significant adverse environmental impact for a listed key threatening process.

THREATENING PROCESS	COMMENTS		
Aggressive exclusion of birds from woodland & forest habitat by abundant Noisy Miners, Manorina	Development is unlikely to facilitate any significant opportunities for this species.		
Anthropogenic Climate Change.	Currently all aggregate used in the Walcha Shire is transported via trucks from other local government areas. A new local aggregate source will substantially reduce diesel fuel consumption associated with aggregate consumption in the Walcha Shire. In these circumstances the development is expected to make a small reduction in carbon dioxide and other diesel exhaust pollutants within the Walcha Shire.		
Bushrock removal (as	"Bushrock removal" involves the disturbance and extraction of weathered outcrops of rock that provide habitat niches for animals. The listing does not apply to "the removal of rock from approved mining or quarrying activities". The impact on bushrock and associated species will not be significant as: There is no scree, sheet like rock, or other rock formations likely to provide		
described in the final determination of Scientific Committee).	 significant shelter niches for flora or fauna. Basalt rock does outcrop and occur loose in the soil, but it lacks significant cracks, voids, slab like structures or scree formations that provide significant habitat niches for vertebrate animals. 		
	 No flora or fauna species listed in the final determination as threatened species which would be adversely affected by "bushrock removal" are known from the site. 		
Clearing of native vegetation (as described in the final determination of the Scientific Committee).	Proposed development will remove about 12 mature Eucalyptus sp. trees in a highly disturbed habitat. Overall this is unlikely to significantly increase the extent or magnitude of the impact of this key threatening process.		
Competition and grazing by the feral European Rabbit, Oryctolagus cuniculus.	Development is unlikely to facilitate any significant change in existing local population of this species.		
Invasion of native plant communities by exotic perennial	Of the exotic perennial grass species listed in the declaration, serrated tussock (Nassella trichotoma) is the most significant one known to occur in the Northern Tablelands. Landholder advises that he is not aware of any occurrences of this species on "Brooklyn" or adjoining properties.		
grasses.	The proposed development is not expected to facilitate the establishment or spread of any exotic perennial grasses.		
Loss of hollow-bearing trees.	Development will remove about 12 mature Eucalyptus sp. trees in a highly disturbed habitat. Overall this is unlikely to significantly increase the extent or magnitude of this key threatening process.		
Predation by the European Red Fox, Vulpes vulpes.	Development unlikely to facilitate predation by this species.		
Predation by the Feral Cat Felis catus.	Development is unlikely to facilitate predation by this species.		
Removal of dead wood and dead trees	Development will remove a small amount of dead wood and trees in a highly disturbed habitat. Overall this is unlikely to significantly increase the extent or magnitude of this key threatening process.		

Does the proposed development require approval under the EPBC Act

Yes \square No \boxtimes

Heritage	Impact	Comment
European	Yes □ No ⊠	
Aboriginal	Yes □ No ⊠	An Aboriginal Heritage Information Management System (AHIMS) search was carried for the land including a 50metre buffer. No sites are recorded or places declared either on the land or within the 50 metre buffer. See Attachment.

Is this land classified	Yes \square No \boxtimes				
Is there an impact on heritage?	and adjoining or i	n close vicinity to an item of environmental	Yes □ No ⊠		
Is this proposal in a he	eritage conservati	on Zone?	Yes \square No \boxtimes		
Is this proposal in an	adjoining or in clo	se vicinity to a conservation zone?	Yes \square No \boxtimes		
Has a Heritage Impac	t Statement been	prepared for this proposal?	Yes \square No \boxtimes		
Has an Archaeologica	al Survey been pre	epared for this proposal?	Yes \square No \boxtimes		
		Flooding Section 4.15(1)(b) – EP & A Act			
Is this property flood a	affected?		Yes □ No ⊠		
		Bush Fire Prone Land Section 4.15(1)(b) – EP & A Act			
Is this property bush f	ire prone as per tl	ne Bush Fire Prone Map?	Yes ⊠ No □		
Is this property bush f	ire prone as per a	ny draft Bush Fire Prone Map?	Yes $oxtimes$ No $oxtimes$		
Has a Bush Fire Mana	agement Plan bee	en Prepared?	Yes \square No \boxtimes		
Does this developmen	nt comply with Pla	nning for Bushfire 2019?	Yes $oxtimes$ No $oxtimes$		
		Contaminated Land Section 4.15(1)(b) – EP & A Act			
Has this land been ide	entified as being o	contaminated land by Council?	Yes □ No ⊠		
Does this land require	remediation?		Yes \square No \boxtimes		
Has a Contaminated Land Site Investigation been completed? Yes ⊠ No [Yes $oxtimes$ No $oxtimes$		
Is a referral required t	o NSW Environm	ent Protections Authority?	Yes \square No \boxtimes		
Is it a possibility this la	and may be conta	minated?	Yes \square No \boxtimes		
Is this land in the close vicinity or adjoining a known contaminated site? Yes \square No \boxtimes					
Infrastructure Section 4.15(1)(b) – EP & A Act					
Is an engineering ass	essment required	?	Yes $oxtimes$ No $oxtimes$		
Has an engineering a	ssessment been o	completed?	Yes $oxtimes$ No $oxtimes$		
Who completed the E	ngineering Asses	sment?			
Engineering Departme	ent 🛛 Assess	ing Officer ☐ Other ⊠ Peter Murray			
Does this proposal ha	ve any potential i	mpact on:			
Impact Comment					
Sewer	Yes □ No ⊠				
Water	Yes □ No ⊠				
Drainage	Yes ⊠ No □	Minimal. Stormwater will be managed through out the smaintained by the use of appropriate conditionin Surface water drainage from the site flows to the into the Surveyors Creek catchment, then the about 6.5km down slope of the site.	g. he east and south		
		The quarry access track through "Brooklyn" w			

will be some change to natural stormwater flow paths. Table drains and culverts along the proposed access tracks will be used to direct stormwater flows into existing natural drainage hollows and existing dams on the "Brooklyn" holding. Diversion channels and/or earth bunds will be used to divert stormwater flows around the perimeter of the guarry into existing. and/or new, dams for domestic livestock. Stormwater redirection will be necessary to prevent the quarry void filling with water, as well as minimising potential soil erosion and sedimentation issues Diversion channels and/or earth bunds will be used to divert stormwater flows around the perimeter of the quarry into existing, and/or new, dams for domestic livestock. Stormwater redirection will be necessary to prevent the quarry void filling with water, as well as minimising potential soil erosion and sedimentation issues. Key strategies that will be applied include ensuring that stormwater diversion channel: Beds are predominantly composed of bedrock, where feasible. Where bedrock is absent and the channel has a relatively high gradient, the bed and sides are lined with suitable rock. Flows into a dam, or existing gully with a natural base in bedrock. Stormwater within the quarry site may contain elevated levels of sediment derived from soil and aggregate stockpiles. No significant contaminants are known, or are likely, within the basalt rock or associated soils that will be disturbed by the quarry. All stormwater flows from the quarry site will directed to, and held within, a sump in the quarry floor. Sediment will be able to settle within the sump and the water used for dust suppression activities. The sump will be relocated within the site over time as quarry operations progress. Access Yes ⊠ No □ See comments above from TfNSW. Engineering assessment agreed with TfNSW and incorporated wording as per their recommendation. **Engineering Assessment** The SEE further proposes that: 1. Existing access continues despite the limited site distance on Oxley Highway until the 5000m3 threshold is reached. 2. The access is relocated to a location approximately 150m west of the existing within 6 months of achieving 5000m3 of quarry sales. With regard the access standard, the SEE states: "separate letter and plans from Planit Consulting dated 24-7-2020 providing Turn Warrants Assessment and 2D concept drawing for proposed site access into the proposed Brooklyn Quarry off the Oxley Highway in response to Transport for NSW letter dated 26 May 2020" Whilst an email was received on 7/9/2020, the attachments were not downloaded when TRIM'ed and are no longer available However given that the SEE states that the "Visibility between this access and the highway is partially obscured by trees and the rising slope will impede trucks entering the highway" it is difficult to support the proposed staging concept given the additional truck movements generated.

		Consequently, I recommend the following of those detailed in the Transport for NSV 2020: 1. Prior to quarry production commend Access Standards — Articulated Drive constructed at the location at approxime existing access. 2. Within 6 months of the facility product products from production commencinupgraded to a Basic Right Turn (BARAUSTROADS Part 4 of the Guide to R. 2017a).	V letter dated 26 May cing, a "Typical Rural eways" access is to be nately 150m west of the cing 5,000m3 of quarry g, the access is to be R) intersection meeting			
Kerb & Gutter	Yes □ No ⊠					
Upgrade Existing Road	Yes ⊠ No □	See Comment Above				
Road Network	Yes ⊠ No □	Contribution applied to cater for the increas created by this development. See below.	sed traffic generation			
Existing Easements	Yes □ No ⊠					
Electricity	Yes □ No ⊠					
Telecommunications	Yes □ No ⊠					
Pedestrian Access	Yes □ No ⊠					
Loading & Unloading	Yes □ No ⊠					
Parking	Yes □ No ⊠					
Energy Conservation	Yes □ No ⊠					
Does the developmen	t require any new	easements?	Yes □ No ⊠			
Has an Erosion and S	oil Control Plan b	een submitted?	Yes \square No \boxtimes			
Comment: This wil	I be conditioned.		_			
	Co	onstruction Assessment				
Is a Construction Cert	ificate Required?		Yes \square No \boxtimes			
	5	Section 68 Assessment				
Is a section 68 assess	sment required?		Yes $oxtimes$ No $oxtimes$			
Has a section 68 asse	essment been con	npleted?	Yes $oxtimes$ No $oxtimes$			
Was a section 68 app	lication submitted	with this application?	Yes \square No \boxtimes			
What is required?		Ons	site sewer management			
Does this system requ	uire connection to	a Council maintained system?	Yes □ No ⊠			
	D	eveloper Contributions				
Does this proposal red	Does this proposal require any Developer Contribution? Yes ⊠ No □					
Is the contribution for	a subdivision?		Yes \square No \boxtimes			
Is the contribution for	a special purpose	relating only to this proposal?	Yes $oxtimes$ No $oxtimes$			
Comment: Traffic (Comment: Traffic Generation on Oxley Highway and local road.					

Contribution Plan	Levy	Rate (\$)		Comment		
Not Applicable	Tonne or M ³	\$0.20 Or \$0.60	This is contribution rate development and is to be Oxley Highway and imprincreased traffic general	oe used for the mo	aintenance of s due to the	
			Signage			
Does this proposal re	Does this proposal require signage? Yes \boxtimes No \square					
Has this application i	Has this application included signage? Yes □ No ⊠					
Should a restriction b	oe placed on the	e amount/ty	pe of signage?		Yes ⊠ No □	
Comment: 1. 2. 3.	Emergency C	ontact Sign				
		N	otification			
Does this application	require notifica	tion/adverti	sing?		Yes ⊠ No □	
Is this application an	advertised dev	elopment ap	oplication under the EP &	A Act?	Yes \square No \boxtimes	
Was this application ☐ EP& A A		sed as per tl ⊠ CCP	ne provisions of?		Yes ⊠ No □	
Was this application	notified/advertis	sed for publi	c interest purposes only?)	Yes □ No ⊠	
Dates Notification Ur	ndertaken	Commen	ced 2 April 2020	Finished	29 April 2020	
Were there any writte	en submissions	received?			Yes $oxtimes$ No $oxtimes$	
If Yes, what was the	number of subr	nissions rec	eived?		4	
Did the applicant have submission/s?	ve the opportuni	ity to respor	nd to the issues raised wit	thin the	Yes ⊠ No □	
	dified Statement sues raised with		nental Effects was subminissions.	tted to Council wh	nich addressed	
Submission	James Norto	_				
Maker:			n as Mt Pleasant			
Issue:	Quarry will pose a risk of interference to the aquifer that supports the Mt Pleasant bore.					
Applicant Response:	Applicant The quarry will have a maximum depth of 30m and will expose layers (flows) of			ted in section		
	other fea	ntures sugg	permanent watercourses esting the presence of a r	near surface aquii	fer.	
	site.		gnificant porosity have be			
	the Grea	t Dividing F	•	-	•	
	has been und	dertaken an	npact Assessment, includ d is the subject of a detail	ed report.	·	
		-	- Groundwater Impact A	Assessment – 11	August 2020	
	The propose Groundwater elevation of	was identii approximat	vill be excavated to a fied in basalt within the tely 1146m AHD. The and is an aquifer interf	quarry footprint proposed dev	t at a maximum elopment would	

NSW Aguifer Interference Policy (2012).

Ground Doctor assessed the site setting and available groundwater data to identify existing groundwater users, environmental receptors and culturally sensitive groundwater features within a 2km radius of the site.

High priority groundwater dependent ecosystems or high priority cultural groundwater sites were not identified within 2km of the proposed quarry.

Four existing groundwater works were identified within a 2km radius of the proposed quarry excavation. The identified bores were located more than 1500m from the proposed excavation. Available data for the identified bores indicated that standing water levels in the bores were at least 20m lower than the maximum proposed depth of excavation. The bore identified within "Mt Pleasant" was separated from the proposed quarry by the Great Dividing Range and was within a different catchment and a different groundwater management unit to the proposed quarry.

Five monitoring bores were installed within or close to the footprint of the proposed quarry excavation. Groundwater levels were measured at each bore. Failing head and rising head slug tests were performed on four of the five bores to assess hydraulic conductivity of aquifer material within and surrounding the proposed quarry excavation.

A conceptual site model was developed based on available groundwater and topographical data. The proposed quarry excavation would be located approximately 200m south of the Great Dividing Range. The ground surface around the proposed quarry falls steeply to the south east, south and west. The surface elevation was more than 100m below the base of the proposed excavation less than 500m to the south east and south of the quarry. Groundwater elevation data showed a steep groundwater gradient to the south east, south and west of the proposed quarry, consistent with steeply sloping surface topography.

An analytical model was adopted to predict steady state drawdown impacts and groundwater inflow to the open excavation at the completion of quarrying. The model predicted drawdown impacts would extend approximately 132m north of the proposed excavation. Groundwater inflow was estimated to be 1.16m³/day.

Model prediction showed good agreement with observed real world drawdown in basalt within the quarry footprint, which was already draining to the south due to the presence of natural void (a deep valley) to the south.

The modelled groundwater inflow to the excavation is less than the expected evaporation rate from the open excavation. There is also potential for any groundwater inflow to drain through the floor of the excavation, as the base of the proposed excavation remains elevated above the valley to the south. Mechanical dewatering of the excavation is unlikely to be required. Any water accumulation in the excavation could be used in quarry operations or used as stock water at the completion of the development.

Direct take (eg: pumping for beneficial use) or indirect take of groundwater (eg: losses to evaporation) are required to be licenced. The annual groundwater inflow to the open excavation would be less than 2ML. The Applicant would need to source commercial use entitlement to take 2ML from the New England Fold Belt (Murray Darling Basin) groundwater management unit prior to intersecting the water table. The NSW Department of Industry Planning and Environment website (https://www.industry.nsw.gov.au/water/allocations-availability/water-

<u>accounting/usage-dashboard</u>, 7 August 2020) indicates that there is 11384ML allocated within the New England Fold Belt (Murray Darling Basin) groundwater unit. It would be possible for the Applicants to obtain the required groundwater entitlement prior to intersecting the water table.

The project involves blasting, crushing and screening of excavated rock. The proposed activities have little if any potential to add contaminants that could adversely change groundwater quality. Operation of plant and machinery and use of nitrogen containing explosives poses a similar risk to groundwater quality as existing agricultural use of the Site and adjoining land. Potential risks to water quality can be managed by implementing appropriate procedures for storage and use of chemicals, refuelling and maintenance of plant and machinery and implementing appropriate spill response plans.

	The information presented in this report indicates that the groundwater impacts associated with the proposed development would not exceed the Level 1 "minimum impact consideration" outlined in the NSW Aquifer Interference Policy (NSW DPI, 2012b). Therefore, groundwater impacts associated with the project are acceptable.
Comment:	To quantify this concern, Geological Survey of NSW – Mining, Exploration & Geoscience were asked to review the full application and submissions. Their response was:
	GSNSW has reviewed the Statement of Environmental Effects for the above DA and have no issues or concerns to raise.
	It is therefore assumed that the applicant has adequately addressed this matter.

	it is therefore assumed that the applicant has adequately addressed this matter.		
Submission Maker:	Janet Norton – Objection Resides on Property Known as Mt Pleasant		
Issue:	SEE fails to address risk to water supplies There is no hydrology report. No adequate consultation with local stakeholders in relation to the operation of the groundwater and aquifer systems in the area.		
Comment:	Please see applicant response and comment above for James Norton.		
Issue:	Soil Profiling No drilling had been undertaken to assess the actual depth and range of the basalt cap, nor the quality and usefulness of the resource.		
Applicant Response:	Drilling and costeaning work combined with geological and geophysical observations indicate there is a profile of usable rock of more than 30 metres. Under ideal circumstances there may be up to about 450,000 cubic metres of rock that could be extracted Trenching and drilling of the quarry site has a generally shallow reddish clay soil immediately overlying relatively fresh (unweathered) Tertiary basalt, as represented in Figure 8 and Plate 3 below. Five drill holes were drilled during July 2020 at the locations shown Figure 7. They showed that the basalt is up to 37.0 metres (hole MB 1) in the immediate vicinity of the quarry site. All of the basalt is likely to be suitable for commercial use, unless there are significant geological variations. Known variations include some minor proportions of volcaniclastic/pyroclastic rocks (ash and agglomerate) exposed during test trenching and drilling. Drilling indicates there is a relatively persistent layer of clay underlying the basalt at about 1124m ASL on the quarry site. The clay typically shows a mottled colour and texture similar to highly weathered volcaniclastic rocks observed in excavator costeans. This clay layer is about 7m below the maximum depth of		
Comment:	the proposed quarry. To quantify this concern, Geological Survey of NSW – Mining, Exploration & Geoscience were asked to review the full application and submissions. Their response was: GSNSW has reviewed the Statement of Environmental Effects for the above DA and have no issues or concerns to raise. It is therefore assumed that the applicant has adequately addressed this matter.		
Issue:	Dust SEE has only assessed impacts of dust and noise using data taken from the Woolbrook weather station. The Woolbrook weather station is 7.4km west of the proposed quarry site and over 200m lower in elevation. This data does not describe the wind conditions at the proposed site, nor indicate the likely impact of dust and noise that would be produced by the quarry.		
Applicant Response:	NSW Health advice indicates that the vast majority of dust from mining/quarry activities consists of coarse particles (around 40 per cent) and particles larger than		

PM10, generated from natural activities such mechanical disturbance of rock and soil materials, for example by blasting, crushing and vehicles driving on dirt roads. Particles are also generated when wind blows over bare ground and different types of stockpiles. Larger particles can have amenity impacts as well as health impacts.

Fine particles from vehicle exhausts and mobile equipment are also produced at mine/quarry sites, though they only account for about 5 per cent of the particles emitted during the mining process. Fine particles are manly from vehicle and mobile equipment exhausts.

It is expected that the primary sources of dust associated with the operation of the proposed quarry will be:

- Drilling rock.
- Blasting rock (see section 4.7 for more information).
- Crushing & screening rock.
- Transport trucks accessing the site.

Basalt will be the primary material being excavated, which is comparatively hard. There are no significant amounts of friable rock or earth present in the geological profile below about 2 metres.

To ensure worker safety a mixture of dust mitigation measures will be applied and amended in response to weather conditions, rock moisture content, plant location,

etc. Those measures will be consistent with industry standards⁹ and include:

- Application of chemical surfactants.
- Enclosing conveyor transfer points.
- Implementation of water truck procedures.
- Installation of sprays at conveyor transfer points.
- Operator training and fit testing for respiratory protective equipment.
- Programmed maintenance of spray nozzles, pumps and plumbing.
- Regular inspections of operating dust controls.

The performance objective will be to ensure that:

- Quarry operations are conducted in accordance with the NSW Resource Regulator's 2020 workplace safety standards specified in the "Dust Safety in the Metals and Extractives Industries" document.
- No significant dust resulting from quarry operations is present more than 500 metres from the site boundary.

Trucks hauling quarry products via the access track within the property is a potential source of dust that could impact residents of the "Brooklyn" dwelling. The proposed track passes within 290m of the dwelling, hence it will need to need to be used and maintained in an appropriate manner to avoid impacts, especially in dry and windy conditions.

Strategies that will be used to minimise potential dust impacts associated with the quarry access track include:

- Constructing and maintaining the track with a firm all weather surface.
- Signposting and restricting quarry truck speeds to a maximum of 20km/h on the track.
- Mandatory site induction for all staff which highlights compulsory signposted speed limit for guarry site and access road.
- If the above measures become inadequate during dry and/or windy conditions, then additional strategies will be applied, including one or more of the following:
 - o Reducing quarry truck speeds to a maximum of 10km/h
 - Using a water cart to suppress dust along sections of the track which may impact the "Brooklyn" dwelling or neighbours.
- Applying a dust suppression coating to the track, such as a polymer or bitumen based emulsion.

The performance objective will be to ensure that no significant dust resulting from quarry traffic is present more than 500 metres from the quarry access track, or on the site of any dwelling.

Comment:

To quantify this concern, Geological Survey of NSW - Mining, Exploration & Geoscience were asked to review the full application and submissions. Their response was:

GSNSW has reviewed the Statement of Environmental Effects for the above DA and have no issues or concerns to raise.

It is therefore assumed that the applicant has adequately addressed this matter.

These strategies can be ensured by the use of conditioning in that the mitigation measures and recommendations as stated in the Statement of Environmental Effects are undertaken.

Issue:

Noise

No reasonable attempt has been made in the SEE to determine the actual noise impact on my property and whether it could be reduced to an acceptable level.

Applicant Response:

Access

At the peak level of quarry operations Over an 8 hour day this will result in about 1 truck movement each 30 minutes and occasionally multiple vehicles would use the access at a similar time.

Indicative maximum noise levels from single and multiple vehicles accessing the quarry are:

Maximum expected vehicle noise from quarry access

EQUIPMENT IG ACCESS	SWL LAeq (dB(A))	SPL @7m (dB(A))	SPL @ 300m L Aeq (15 min) (dB(A))
1 Truck (>20 tonne)	106	81	40
1 Light vehicle (eg 4WD)	103	78	37
2 trucks & 1 light vehicle	110	82	44

For this development the "Project noise trigger level" measured at unrelated rural dwellings is 45 L Aeq (15 min) (dB(A))

As noted in section 2.6.1, 2011 NSW Roads and Maritime traffic volume data for the Oxley Highway indicates that there are about 105 truck movements per day in either direction. If the quarry reaches peak production levels, then there will be an average of about 15 additional truck movements per day along the highway, increasing truck movements by up to 14%.

Overall the available information indicates that transport activities associated with the quarry on the access road and highway are quite unlikely to substantially increase existing noise levels in the vicinity.

Strategies that will be used to minimise potential noise impacts from use of the quarry access track include:

- Only transporting quarry products during daylight hours.
- Signposting and restricting all quarry truck speeds to a maximum of 20km/h on the track.
- Ensuring a consistent moderate gradient on the access track and highway access point to minimise the potential need for the use of exhaust braking.

Quarry Machinery

Quarry machinery and related noise will primarily arise from excavation, crushing and screening activities.

Expected quarry machinery noise levels

An estimate of maximum quarry noise level over a 15 minute interval at dwellings in the vicinity has been prepared using the NSW RMS Construction and Noise Estimator Tool

		DISTANCE metres	ATTENUATION dB(A)			SPL L Aeq (15 min) (dB(A))	
	SCENARIO/LOCATION		TYPE LIKELY APPLIED				
	All quarry machinery listed in Table 12 operating simultaneously	7	Nil	Nil	Nil	102	
	"Brooklyn" dwelling	660	Ridge	5-10	Nil	50	
	"Yarooga Park" dwelling	>1,150	Ridge	5-10	Nil	43	
	"Mount Pleasant" dwelling	>1,500	Ridge & trees	5-10	Nil	39	
	"Yarooga" dwelling	>1,700	Ridge & trees	>10	Nil	37	
	Walcha Road village	2,200	Ridge & trees	>10	Nil	17	
	The "Project noise trigger le (dB(A))	vel" measured	at unrelate	ed rural dw	vellings is 45 i	L Aeq (15 min)	
	Based on the indicative modelling data within Tables 12 and 13, the "Intrusiveness Noise Level" specified by the NSW EPA will not be exceeded at any unrelated dwellings.						
	that no provision was form or vegetation. The dwellings, hence no dire Noise associated with the Only using excess outlined in	ere is no loct path for le operation cavating an	line of si sound to of quarr	ight beto travel. y machi	ween the o	quarry site and	an
	 Restricting days of operation, as noted previously in Table 3. Ensuring all machinery is fitted and maintained with suitable mufflers. 						
Comment:	To quantify this concern, Geological Survey of NSW – Mining, Exploration & Geoscience were asked to review the full application and submissions. Their response was:						
	GSNSW has reviewed the Statement of Environmental Effects for the above DA and have no issues or concerns to raise.						
	It is therefore assumed that the applicant has adequately addressed this matter. These strategies can be ensured by the use of conditioning in that the mitigati measures and recommendations as stated in the Statement of Environmen Effects are undertaken.						
ue:	Traffic & Road Safety						
	The development and operation of the quarry poses road safety issues for both the community and road users generally.						
Comment:	Transport for NSW (TfNSW) was consulted and are a concurrence authority for the development. This is due to the land fronting and accessing off the Oxley Highway A copy of their response is attached to this report.						
	TfNSW response to Council; in determining the application under the <i>Environmer Planning and Assessment Act 1979</i> , it is Council's responsibility to consider the environmental impacts of any road works which are ancillarly to the development This includes any works which form part of the proposal and/or any works which a deemed necessary to include as requirements in the conditions of project approximately that no objection to the development with the following recommendations: Council:						

- should be satisfied that the application has sufficiently explained the impacts of the development and justified all proposed mitigation measures.
- condition the maximum daily and hourly movements generated by the development.
- request an assessment of turn treatment warrants in accordance with the Austroads Guide to Traffic Management Part 6 and Austroads Guide to Road Design Part 4A for the site access, identifying the existence of the minimum basic turn treatments and addressing the need for any warranted higher order treatments.
- condition all redundant accesses to be legally and physically closed prior to commencement of use of the new access.
- prior to determination have strategic (2D) design drawings of all proposed improvements to public roads and the site access to mitigate the traffic and road safety impacts of the development.
- condition that a Traffic Management Plan (TMP) be developed addressing the construction, operation and decommission phases of the proposed development.
- consider the need for any regulatory signage (truck turning signs) and where necessary seek the endorsement of the Local Traffic Committee prior to Council approval the signage.
- any future roadwork on the classified (State) road will need to be designed and constructed in accordance with the current Austroads Guidelines, Australian Standards and TfNSW Supplements. The developer will be required to enter into a Works Authorisation Deed (WAD) with TfNSW for any roadwork deemed necessary on the classified (State) road. The developer will be responsible for all costs associated with the roadwork and administration for the WAD.

The above response was forwarded onto the developer who included additional information to address these issues in the revised Statement of Environmental Effects. Further the Engineering Assessment addressed these recommendations and the recommended conditions of development consent addressing these issues.

Submission	Danielle Norton & Paul Chevrot – Objection
Maker:	Owners of Property Known as Mt Pleasant
Issue:	Groundwater
	The potential impacts the proposed development could have on the aquifers in the region.
Comment:	Please see applicant response and comment above for James Norton.
Issue:	Dust and Noise
	The SEE only briefly assessed the potential impacts of dust and noise using data taken from the Woolbrook weather station, a station that is 7.4km west of the proposed quarry site and over 200m lower in elevation. This data does not describe the wind conditions at the proposed site, nor does it indicate the likely impact of dust and noise that would be produced by the quarry. Any conclusions drawn from this data are therefore insufficient.
Comment:	See applicant response and comment above for Janet Norton.
Issue:	Project Duration and Size of Development
	The potential impacts of this proposed quarry development are unable to be assessed due to insufficient detail in relation to project duration (no end date), and size of development (depth of quarry, volume of aggregate to be extracted, and frequency of blasting etc).
Applicant	See applicant response on soil profiling above for Janet Norton.
Response:	Project Duration
	A specific end date for the operation of the quarry has not been proposed because:
	Rural quarries tend to have highly variable and sporadic rates of extraction.

 The actual end date will depend upon the rate of extraction of gravel/aggregate, which will vary from year to year, depending on demand.
Size of Development - Please see comment on soil profiling above for Janet Norton. Project Duration – This is normal practice for the majority of guarries.
Vague and Conceptual Information The limited information provided in the SEE is vague and 'conceptual' (using "ideal" and best-case scenarios etc) which results in uncertainty as to what would actually come to pass (including the impact on our ground water and the noise and dust levels etc) should the quarry be allowed to be developed.
The applicant was given the opportunity to address the issues contained within the submissions. This resulted in an expanded Statement of Environmental Effects.
Impact on Proposed Future Development Have plans to further develop the business on the farm, all while respecting the food and fibre history of land use in the area. This may include truffle orchards, grass fed pork, beekeeping, native tree plantations and foliage business, or woo fibre/yarn production (or a combination of these). We are looking at a few possibilities but all these future plans are dependent on our secure and reliable aquifer fed bore watering system, and a dust free environment. Our plans also include on farm agritourism and/or eco-tourismwhich I would hope could delive benefits to the community with potential employment opportunities and additional tourism in the district. We fear that regular blasting and possible dust/noise pollution from a quarry are not favourable to developing a successful agritourism/eco-tourism business.
This cannot be considered as part of this assessment Development needs to be considered at the time of submission, and this is permissible development. If the developments as stated had been submitted and approved, the impact on that development could be assessed. Assessment cannot be made on proposed future development.
Rural Land Character Conflict It is in conflict with the rural character of the land in the district.
APPENDIX A – Land Use Conflict Risk Assessment The aim of this Land Use Conflict Risk Assessment (LUCRA) is to identify and assess the potential for land use conflict issues and risk of occurrence before a proposed change in land use proceeds and disputes arise. LUCRA Process The approach taken in this LUCRA is based on the NSW DPI Land Use Conflict Risk Assessment Guide published in October 2011. This involved: • gathering information about the site and locality; • undertaking a site inspection; • talking to neighbouring landholders within 1.5 kilometres of the proposed development site; • undertaking a land use conflict risk assessment; and • documenting strategies to reduce the risk or consequence of any conflicts. Recommended risk reduction strategies & performance targets In Table A3, a range of recommended management strategies and performance targets for the operation of the proposed Brooklyn Quarry are provided. These strategies are regarded as the most relevant to avoiding potential conflicts with neighbours and the public. Additional mitigation strategies are outlined in the section titled "4. Environmental Impact Mitigation" within the SEE.

	POTENTIAL CONFLICT	MANAGEMENT STRATEGIES	REVISED RISK RANKING	PERFORMANCE TARGET			
	Noise from blasting	Do not blast during early morning, dusk or during temperature inversions.	(D 4) 5				
	Dust from blasting	Ensure adequate depth & type of stemming in blast drill holes.	(D 4) 5				
	Ground vibration from blasting	Dampening site to reduce dust, if dust issues arise.	(D 4) 5	_			
	Elizadi, franc	Provide "Highvale" property owner/manager with ≥ 48 hours notice of intended		No complaints to quarry operator, Council of Mines Inspectorate.			
	Flyrock from blasting	blasting dates and times. No blasting undertaken if any non-quarry person is present with a 500 metre radius of site.	(C 4) 8				
	Noise from excavation	Excavation only undertaken during daylight hours.	(D 4) 5				
	Dust from excavation	Dampening site to reduce dust, if issues arise.	(D 4) 5	_			
	Noise from transport	Haulage only undertaken during daylight hours.	(D 4) 5	No complaints to guarr			
	Dust from transport	Dampening access road, if dust issues arise.	(D 4) 5	operator or Council			
		Ensure quarry related trucks are not over loaded or driven at excessive speed when entering the Oxley Highway.					
	Traffic from transport	Maintain access drive way linking the Oxley Highway to the "Brooklyn" property with a firm all weather surface at same height as the highway.	(C 4) 8	No complaints to quarry operator, Council o NSW Roads & Maritime Services			
		Install & maintain quarry related signage requested by Council along the verge of the Oxley Highway.					
	A2) provides a st. with the quarry op. The documented ris by a competent qu titled "Recommend In the event that the	tential conflict risk ranking for ructured assessment of the neration. ks are typical for this type of carry manager and shotfirer vied risk reduction strategies & they are not appropriately managers are available to govern	nost likely co development a the strateg performance naged, vario	nflict risks associated and can be managed lies listed in the table te targets" (Table A3) us administrative and			
Comment:		There will be no land use conflict if the strategies as listed in the SEE and relevant legislation are followed throughout the operation of the development. This will be conditioned.					
ssue:		cerns ealth of the current and future s quarry development go ahea		f the Mt Pleasant			
Comment:		nd emotive comment. It canno planning merit that can be con					
Submission Maker:		n Planning - Objection rs and Occupiers of Property I	Known as Mt	Pleasant			
ssue:	Aquifer Impact The potential impact	t of the proposed quarry on lo	cal aquifers, a	and the potential for			

to deliver good quality stock and domestic water to our clients' property (even during the drought) and adjacent properties in the locality Lack of test data for Aquifers Of perhaps most concern in this proposal, is the absence of any substantive test data on the presence (or otherwise) of aquifer(s) that could be at risk from the proposed quarrying operations		this to have material adverse impacts on the reliable bore water that has continued
Of perhaps most concern in this proposal, is the absence of any substantive test data on the presence (or otherwise) of autifer(s) that could be at risk from the proposed quarying operationst fails to provide any adequate assessment of the groundwater and likely impacts associated with the proposal. See applicant response and comment above for James Norton.		to deliver good quality stock and domestic water to our clients' property (even
date on the presence (or otherwise) of aquifer(s) that could be at risk from the proposed quarrying operations		Lack of test data for Aquifers
Issue: DA should be refused The DA should be refused for the following key reasons: a) the proposed quarry will give rise to unacceptable adverse groundwater impacts, dust impacts, noise impacts and traffic safety impacts; b) the proposed quarry is not in the public interest; c) the DA is designated development under the Environmental Planning and Assessment Act 1979 (EP&A Act); d) the DA contains insufficient information in relation to: i. extraction rates and area – there is uncertainty in relation to the maximum ii. depth of the quarry and the lifespan of the quarry; iii. justification of the need for the proposed quarry – including the size and quality of the basalt resource, market demand and alternative sites analysis; iv. quantitative and qualitative impacts of groundwater impacts, dust impacts, noise impacts and traffic safety impacts; and v. (iv) social and economic impacts in the locality. Applicant Response: a) Please see applicant response above for James Norton. b) Public interest This proposal has been developed on the basis that it should comply with all current land use planning standards and have no significant adverse impact on neighbours, the public, the environment or public infrastructure. Mitigation measures have been also been proposed that are appropriate for the scale of the quarry and the context in which it will be located. The proponents believe that it is in the public interest that this development should proceed, given that it: • Creates economic diversity via the establishment of a new extractive industry. • Will reduce construction costs for local roads, buildings and infrastructure by enabling a local source of aggregate supply. • Diversifies local employment opportunities. • Creates additional local jobs. • Reduces truck traffic on highways and regional roads to source aggregate and quarry products from elsewhere. • It is quite unlikely to have any significant adverse impacts on the environment, neighbours, community or public infrastructure. c) designated developme		data on the presence (or otherwise) of aquifer(s) that could be at risk from the proposed quarrying operationsit fails to provide any adequate assessment of
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	Issue:	Lack of Detail to SEE to determine resource
the Applicant on both the quantity of the purported basalt deposits as well as its qualitythe SEE does not sufficiently detail the quantity and quality of the		Lack of geological investigations at the site and inadequate information provided by the Applicant on both the quantity of the purported basalt deposits as well as its

	regarding the uncertainty as	proposed resource in light of its proposed end-use ambiguity in the SEE regarding the amount of cubic meters to be extracted further highlights the uncertainty as to the impacts of the proposal and the measures that would be required to mitigate such impacts.					
Comment:	Size of Develor for Janet Nort		pplicant response a	and comment on soil profiling above			
Issue:	property, Mou to attenuate n therefore grea technical asso been provided	Noise The proposed quarry is at a relatively high altitude, and at least one nearby property, Mount Pleasant, has no landforms (hills) between it and the proposed site to attenuate noise. The frequency and extent of extraction measures would therefore greatly influence the noise impacts associated with the proposalNo technical assessments as to likely noise levels at different receptor points have been provided in the proposal – such information will need to be provided in order for Council to undertake a proper assessment of the noise impacts of the proposal.					
Comment:	See applicant	response and	comment above for	Janet Norton.			
Issue:	The SEE sug is economical safety impact analysis has b not undertake which would b	Traffic safety and Consultation with TfNSW The SEE suggests that certain road safety upgrades will only occur once the quarry is economically viable (that exceeds 100,000 cubic metres). This approach to traffic safety impacts is not acceptable for a quarryNo adequate traffic safety analysis has been carried out by the applicantAdditionally, the Applicant has not undertaken any traffic surveys or provided a proposed traffic management plan, which would be necessary for a development of this nature. No consultation has been carried out with RMS even though the access road is a main road					
Comment:	development. A copy of thei	Transport for NSW (TfNSW) was consulted and are a concurrence authority for this development. This is due to the land fronting and accessing off the Oxley Highway. A copy of their response is attached to this report. See applicant response and comment above for Janet Norton.					
Issue:		Lack of social and economic benefits The SEE's analysis of this issue is limited to referring to potential social and economic benefits – which are not supported by any empirical analysis of the quality of the resource or market demand in the areaThere is no attempt by the SEE to consider potential adverse social and economic impacts in the locality that may arise from the proposed quarry such as, among other matters, sterilisation of agricultural land or impacts to existing and likely future land uses in the vicinity of					
	economic ber quality of the SEE to consid may arise from	resource or ma der potential ad m the proposed nd or impacts to	rket demand in the verse social and ec quarry such as, an	any empirical analysis of the areaThere is no attempt by the onomic impacts in the locality that nong other matters, sterilisation of			
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	Estimated contractor days pe			per an	num.			
	ANNUAL				EXPLOSIVES	CRUSHING &		
	PRODUC 3	tonnes	MAINTENA	NCE	USE & TRANSPORT	SCREENING	TOTAL	
	1,000	2,400	4		1	1	10	
	5,000	12,000	8		1.5	5	15	
	10,000	24,000	12		3	10	25	
	20,000	48,000	16		6	20	42	
	29,000	69,600	20		9	30	59	
	construct For exam	ion for a ple, tran	any project i sport costs	requirii s for ag	ng significant a	costs, hence in the costs, hence in the costs of aggreta to manufacture	egate or roa	nd base.
Comment:	The appl	icant has	adequately	/ addre	essed both iss	ues.		
Issue:	Lifespan	•						
	that extra	action rat ntial adve	es are likely erse impact	y to be s of th	highly variabl	of the propose leThere is of the agricultu	no consider	ration of
Comment:	See appl	icant res	ponse and o	comme	ent above for N	Norton & Chevro	ot.	
Issue:	Alternati	ve Sites	1					
	considera assessm purposes	ation of ent of a s of the E	alternative alternative : EP&A Act. T	sites sites : There	within the "B should not be	aterially deficier Prooklyn" prope Inited in the Sation of alternat	rty only. A is manner	proper for the
Applicant Response:					sidered on the	e "Brooklyn" pro	operty but v	were
	• Res meta esta	ource of the cource of the cou	leficiency suitable nt of a viab	- A si engino ele ag hat o	gnificant volur eering properl gregate quarr ther parts of	me of rock (ie ties is required y. Geological of the "Brooklyr	l to enable and geophy	the sical
	 Higher environmental values - Parts of the property with relatively intact vegetation communities and higher vegetation density have been avoided as they have more significant environmental values. Topography - Establishing, operating and rehabilitating a quarry is typically 					ided pically		
	more cost effective on the side of a ridge or hill. Other parts of the "Brooklyn" property were considered and discarded on the basis that they had minimal or excessive slope.						inimal	
						at various other sons, including:	r sites withir	n the
				_	s within 1 kilom			
			•	-	to Walcha tow lume of basalt	•		
	• Like	ly acces.	s problems	includ		ds in poor condi	ition and/or	
	outc	rops or	other factor	S.	•	stands of nativ	•	
	A "do nothing" scenario involves the quarry not proceeding which would involve						nvolve	

	various "apportunity casts" including losing a chance to:
	various "opportunity costs", including losing a chance to:
	 Increase economic diversity via the establishment of a new extractive industry. Reduce construction costs for local roads, buildings and infrastructure by enabling a local source of aggregate supply. Diversify local employment opportunities. Create new local jobs.
	Enable a relatively isolated extractive industry proposal to proceed within a setting where it is quite unlikely to have any significant adverse impacts on the environment, neighbours, community or public infrastructure.
Comment:	The applicant has provided a comprehensive reply which addresses this issue.
Issue:	Weather Data Location Observations for wind speed and direction are provided from the Woolbrook weather station approximately 7km away.
Comment:	All weather data has been taken from the nearest weather station. It is considered that this location is adequate for this assessment.
Issue:	Dust There is potential for dust to adversely affect our clients' property because Mt Pleasant is located east by north east of the proposed quarry at a distance of around 1,500 metres. The Applicant has undertaken no adequate quantitative or qualitative analysis of dust impacts
	A new unsealed access road is proposed for hauling from the extraction site to the access road (Oxley Highway). It is proposed to employ four limited strategies to reduce dust generation including the use of a water cart during dry and windy conditions. However, higher traffic volumes during such conditions could generate quite a lot of dust and, as we have seen during recent drought conditions, water sources can be compromised such that no water is available for such purposes. This could lead to significant dust plumes being created and transported during dry and windy weather.
Comment:	See applicant response and comment above for Janet Norton.
Issue:	Noise No attempt has been in the SEE at undertaking quantitative or qualitative assessment of the likely noise impacts. Blasting and the use of rock crushing/processing equipment will generate significant noise.
Comment:	See applicant response and comment above for James Norton.
Issue:	Consultation No meaningful consultation with our client has occurred.
Comment:	The applicant is not legislatively required to consult with neighbours. Council did undertake neighbour notification as per the Walcha CPP and extended the time period for submissions as requested by this submission writer and Janet Norton. "Meaningful consultation" with neighbours does not mean they have to give their
	permission for the development.
Issue:	Mining SEPP 2007 Assessment
	No adequate assessment of impact on land uses has been undertaken for the purposes of the Mining SEPP 2007is materially deficient for the following key reasons:
	 it fails to identify: existing, approved and likely preferred land uses in the vicinity; whether or not the development is likely to have a significant impact on the uses that, in the opinion of the consent authority having regard to land use trends, are likely to be the preferred uses of land in the vicinity of the development; any ways in which the development may be incompatible with any of those existing, approved or likely preferred uses; fails to evaluate and compare the respective public benefits of the development

	and the land uses referred to above; and
	 fails to put forward and evaluate any measures proposed to avoid or minimise any incompatibility.
Comment:	Adequate assessment has been undertaken throughout the SEE.
Issue:	Legal Advice Sought Have sought legal advice form Gilbert + Tobin Lawyers with respect to the proposed quarry. The advice provided has raised 2 key legal issues of concern for Council in its assessment.
Issue:	DA not Designated Development That the DA is not a form of 'designated development' for the purpose of the EP&A Act and the Environmental Planning and Assessment Regulation 2000 (EP&A Regulation).
Issue:	Application fails to provide sufficient information
	Gilbert + Tobin have separately advised that the development application, as currently put to Council, fails to provide sufficient information on the nature of the proposed quarry and associated impacts Specifically, the proposal as detailed in the SEE fails to provide sufficient information on how the proposal will operate, and associated impacts, relating to:
	 the quality and quantity of the basalt resource proposed to be extracted; extraction methods and processing; traffic; dust emissions; groundwater; and noise.
Comment:	The applicant has provided a comprehensive reply which addresses all issues as raised within the submissions, and has provided adequate information for an appropriate level of assessment to be undertaken.
Submission Maker:	Strathleigh Grazing Pty Ltd – Support
Issue:	Both Directors (Nathan Gilbody and John Boughton) have are in agreement with the information as provided by the applicant and support the development.
	Section 88b Instrument
Does Council	require a Section 88b instrument to be prepared? Yes □ No ⊠
	Public Interest
Does this prop	oosal have any construction or safety issues? Yes □ No ⊠
Is there any p	ublic health issues? Yes □ No ⊠
Are there any	other public interest issues? Yes \square No \boxtimes
	Site Suitability Section 4.15(1)(c) – EP & A Act
Is this a suitab	ole site for this development? Yes \boxtimes No \square
	Assessing Officer General Comment
Comment:	There are no outstanding issues that cannot be dealt with by the use of appropriate conditioning.
	Recommendation

This development application be approved subject to the following conditions:

Nil

GENERAL CONDITIONS

- 1. The development shall be implemented in accordance with:
 - (a) All documentation and correspondence submitted by the applicant, or their agents, in support of the Development Application,
 - (b) the details set out on the plans approved and stamped by authorised officers of Council, except as amended by the conditions of this development consent.

Note: Any proposal to modify the terms or conditions of this consent, whilst still maintaining substantially the same development to that approved, will require the submission of a formal application under Section 4.55 of the Environmental Planning and Assessment Act 1979 for Council's consideration. If amendments to the design result in the development not remaining substantially the same as that approved by this consent, a new development Application will have to be submitted to Council.

- A copy of all stamped approved plans, specifications and documents must be kept on site at all times so as to be readily available for perusal by any officer of Council or the Principal Certifying Authority.
- 3. All management recommendations contained within the Statement of Environmental Effects by Matthew Goodwin, Version 1.2 dated August 2020 are to be complied with.
- 4. Annual production from the quarry is not to exceed 29,000m³ per year of extractive materials. Any increase in production or alteration to operations is to be the subject of a further Development Application.
- 5. The total surface area of the quarry shall not exceed 2 hectares of land including clearing or excavating, roads; or storing or depositing overburden, extractive materials or tailings.
- 6. A contribution is to be paid to Council on a quarterly basis and will be subject to annual CPI adjustment. This is calculated at \$0.20 per tonne or \$0.60 per m³ of gravelled hauled from site. The proponent is responsible for the provision of an annual audited Statement of Compliance from a qualified auditor.
- 7. The applicant must keep a legible record of all complaints made to the developer or any employee or agent of the developer in relation to dust or any activity to which this development consent relates. The record must include details of the following:
 - a) the date and time of the complaint;
 - b) the method by which the complaint was made;
 - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - d) the nature of the complaint:
 - e) the action taken by the developer in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the quarry operator, the reasons why no action was taken.

The record of a complaint must be kept for at least three (3) years after the complaint was made.

Records of complaints must be produced on demand to authorised officers of Council or State Government authorities.

- 8. The use and occupation of the site, including that of construction plant and equipment being installed thereon, shall not give rise to any offensive noise or vibration within the meaning of the *Protection of the Environment Operations Act, 1997.*
- 9. The rehabilitation of the site will be as per the approved rehabilitation plan including:
 - a) No external material will be brought to site for rehabilitation.
 - b) Topsoil will be stored within the bounds of the development and managed to maintain guarry hygiene with regard to environmental weed species.
- The applicant is to prepare a Quarry Management Plan for the site to summarise NSW Government legislative requirements, guidelines, and the conditions of this development consent. The Quarry Management Plan shall identify operational requirements relating to matters such as noise, water and erosion, air quality, vibration, access, traffic, transport, bushfires, hazardous

materials, noxious weeds, rehabilitation, land care, community relations, monitoring and auditing, and waste; including measures to mitigate any adverse impacts to the environment, nearby residents and road users. This plan is to be available upon request of Council, and any other relevant state agency.

- All erosion and sediment controls are to be designed and implemented in accordance with the publication *Managing Urban Stormwater*, *Soils and Construction*, *Volume 2E Mines and Quarries* published by the NSW Department of Environment and Climate Change in 2008.
- 12. Compliance with all requirements of the SafeWork NSW in relation to the transport, storage and handling of dangerous goods associated with the development is to be undertaken.
- 13. Compliance in relation to the *National Parks and Wildlife Act, 1974* with regard to Aboriginal relics is to be ensured at all times.
- 14. If any Aboriginal archaeological relics are found or uncovered during the course of the work, then all works shall cease immediately in that area and the applicant shall contact NSW Environment & Heritage, and Council. Depending on the possible significance of the relics, an archaeological assessment and an excavation permit under the *National Parks & Wildlife Act 1974* may be required before further works can be considered in that area.
- 15. Signage will be required to be installed at the expense of the developer for the developer. The nature and location is to be approved by Council prior to installation and is to consist of:
 - One business identification sign,
 - A 24 hour emergency contact detail, and
 - Truck entering and exiting signage as required.
- Prior to quarry production commencing, a *Typical Rural Access Standards Articulated Driveways* access is to be constructed at the location at approximately 150m west of the existing access.
- Within 6 months of the facility producing 5,000m³ of quarry products from production commencing, the access is to be upgraded to a Basic Right Turn (BAR) intersection meeting AUSTROADS Part 4 of the Guide to Road Design (Austroads 2017a).
- The access is to be constructed at the expense of the developer prior to quarry production commencing, and is to be approved by Transport for NSW and Council. It is to:
 - a "Typical Rural Access Standards Articulated Driveways" access
 - be located approximately 150m west of the existing access
 - not block the existing table drain, in order to ensure this a reinforced concrete pipe must be provided.
 - the installed culvert must have a minimum diameter of 375mm, with sloped headwalls in order to facilitate the continued effective drainage of water.
 - water runoff from the access structure is to be directed away from the access into the table drain of the Oxley Highway.
 - be a sealed pavement surface from the boundary to the edge line of the Oxley Highway.
 - have no permanent objects installed that will inhibit sight distance.
 - have any disturbed ground or vegetation suitably reinstated.
- Within 6 months of the facility producing 5,000m3 of quarry products from production commencing, the access is to be upgraded to a Basic Right Turn (BAR) intersection meeting AUSTROADS Part 4 of the Guide to Road Design (Austroads 2017a).

CONDITIONS AS REQUESTED BY TRANSPORT FOR NSW

- 20. A Traffic Management Plan (TMP) be developed addressing the construction, operation and decommission phases of the proposed development. It is recommended that any TMP include a Driver Code of Conduct that includes;
 - A map of the primary haulage route/s highlighting critical locations.
 - Safety initiatives for impacts residential areas and/or school zones.
 - An induction process for vehicle operators and regular toolbox meetings.
 - A complaint resolution and disciplinary procedure.
 - Any community consultation measures proposed for peak periods.

- 21. The maximum daily traffic movements are to be undertaken as per the those contained within the Statement of Environmental Effects by Matthew Goodwin, Version 1.2 dated August 2020.
- 22. The existing access is to be closed prior to the commencement of the new access.

CONDITION AS REQUESTED BY GEOLOGICAL SURVEY OF nsw – MINING, EXPLORATION & GEOSCIENCE

A register of sales of aggregate is to be maintained to verifying quantities transported and to ensure annual reporting is met as per requirements of the NSW Resource Regulator.

CONDITIONS TO BE COMPLETED PRIOR TO OPERATION COMMENCING

- The site access is to be upgraded and maintained throughout the life of the quarry operation. The access must meet the required standard as approved by Council's Director of Engineering.
- Prior to commencement of any physical works within the road reserve of the Oxley Highway, approval is to be gained under S.138 of the *Roads Act 1993*.
- The applicant is to make contact with the local 'Inspector of Mines', NSW Department of Industry and Investment, Mine Safety Operations Branch, prior to the commencement of operations or activities at the guarry. This is to ensure registration through the NSW Resource Regulator.
- Approval to carry out onsite sewer disposal work must be obtained, in accordance with section 68 of the *Local Government Act 1993*, before works commence.
- 28. Lot 103 DP753846, Lot 2 DP1173956, and, Lots 46 & 47 DP1082562 are to be consolidated a single lot to ensure the quarry is contained within a single lot.

CONDITIONS TO BE COMPLETED PRIOR TO SUBDIVISION COMMENCING

- 29. A Subdivision Certificate must be obtained, in accordance with cl.157 of the Environmental Planning and Assessment Regulation 2000, before work commences.
- 30. A surveyor's plan must be submitted to Council prior to the expiry date of this development consent so that the subdivision certificate on the plan can be signed by an authorised officer.

CONDITIONS RELATING TO ONGOING OPERATIONS

- A further application is to be made for any change, enlargement or intensification of the land use, including the display / erection of any new structure such as signage, partition walls or building fit-out (unless the proposed work is exempt from the need for consent under *State Environmental Planning Policy (Codes SEPP) 2008*).
- Whilst the quarry is not in operation the site access should be physically closed to restrict vehicle movements from the public.
- Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.
- All vehicles are to enter and leave the site in a forward direction with no tracking of materials onto Oxley Highway for the duration of quarry life.
- The hours of operation must be limited to 7.00am and 5.00pm, Monday to Friday and 8.00am to 1.00pm Saturday. No work is to be carried out on Sunday or public holidays.

COUNCIL ADVICE ONLY

- 36. Covenant/s: The applicant / owner has the responsibility of being aware of any covenant which may affect the proposal.
- 37. Dial Before You Dig: Underground assets may exist in the area that is subject to your application. In the interests of health and safety and in order to protect damage to third party assets please contact Dial Before You Dig at www.1100.com.au or telephone on 1100 before excavating or erecting structures (This is the law in NSW). If alterations are required to the configuration, size, form or design of the development upon contacting the Dial Before You Dig service, an amendment to the development consent (or a new development application) may be necessary. Individuals owe asset owners a duty of care that must be observed when working in the vicinity of plant or assets. It is the individual's responsibility to anticipate and request the nominal location of

plant or assets on the relevant property via contacting the Dial Before You Dig service in advance of any construction or planning activities.

- 38. Telecommunications Act 1997 (Commonwealth); Telstra (and its authorized contractors) are the only companies that are permitted to conduct works on Telstra's network and assets. Any person interfering with a facility or installation owned by Telstra is committing an offence under the Criminal Code Act 1995 (Cth) and is liable for prosecution. Furthermore, damage to Telstra's infrastructure may result in interruption to the provision of essential services and significant costs. If you are aware of any works or proposed works which may affect or impact on Telstra's assets in any way, you are required to contact: Telstra's Network Integrity Team on phone number 1800 810 443.
- 39. New residential development and significant dwelling alterations should provide measures such as self-closing doors, fencing and gates (to prevent children from entering the garage and driveway from the house.

Reasons For Conditions

- 1. To confirm and clarify the terms of Council's approval.
- To comply with all relevant legislation.
- 3. So that the impacts of any increase in the scale or duration of operations may be assessed and appropriately controlled. Section 19 (1) (b) of the *Environmental Planning and Assessment Regulation 2000*, as amended.
- 4. To prevent and/or minimise the likelihood of environmental harm and public nuisance.
- 5. To ensure the rehabilitation of the site.
- 6. To minimise the potential for adverse impacts on the environment or public as a result of the development.
- 7. To ensure waste is disposed of in an appropriate manner.
- 8. To ensure that public infrastructure is maintained.
- 9. To minimise the potential for detrimental impacts to buildings or neighbouring properties.

Conclusion

I confirm that I am familiar with the relevant heads of consideration under the Environmental Planning & Assessment Act and Local Government Act (if applicable) and have considered them in the assessment of this application.

I certify that I have no pecuniary or non-pecuniary interest in this application.

Additional Notes Attached

Yes ⊠ No □

- Engineering Assessment
- Aboriginal Heritage Information Management Search

Signed:

Clizabed Cumming

Elizabeth Cumming, Consultant Town Planner

Date: 11 April 2021

Development Engineers Assessment DA: 10.2020.3 – Brooklyn / 1643 Oxley Highway Walcha Road

DA No	10.2020.3		
Property 1643 Oxley Highway, Walcha Road			
BCA Classification			
Proposal	Proposed Rock Quarry		
Project Officer	Libby Cumming		
Development Engineers	Peter Murray		
Assessment completed by			

Component Traffic Generation	Comments								
				·	· · · ·				
	The provided State of Environmental Effects (SEE) states:								
		The most recent publicly available and relevant NSW Roads and Maritime traffic volume data for the Oxley Highway is from 2011 at a monitoring site near Woolbrook							
	-	-				onitoring site n	ear Woolbro		
	(station 92702					rection (weh sit	e 622		
	•Average of 622 vehicle movements per day in either direction (web site 622, downloaded data 607).								
			vements per d	lay in e	ither dire	ction (web site)).		
				M and	5:00PM	typically averag	ging 40 to 53		
	vehicles per he	=		1.140		. /	1.1.1		
	•Actual venici	e movement	s never excee	aea 10	o per not	ır (downloaded	αατα).		
	Even allowing	for traffic gr	owth of say 2	% na fo	or 10 vea	rs still indicates	traffic volum		
	of around 750	_	•	.70 pa 10	Ji 10 yea	is still illulcates	traffic volum		
	or around 750	vpa at the s	itc.						
	production:	or coasts the	_			at different leve	C.10 C.1		
						THE RESIDENCE OF THE PARTY OF T			
				STAFI		CONTRCTR			
			(2 way)	(2 wa	y)	CONTRCTR (2 way)	TOTAL		
	LCM (m3)	TONNES	(2 way) year	(2 wa	y) year	(2 way) year	VEHICLES		
	LCM (m3) 1,000	TONNES 2,400	(2 way) year	(2 wa	y)	(2 way)			
			(2 way) year 130	(2 wa	y) year	(2 way) year	VEHICLES		
	1,000	2,400	(2 way) year 130 649	(2 wa FTE 0.2	year 100	(2 way) year 20	VEHICLES 250		
	1,000 5,000	2,400 12,000	(2 way) year 130 649	(2 wa FTE 0.2 1 2	year 100 500	(2 way) year 20 30	VEHICLES 250 1,179		

Development Engineers Assessment DA: 10.2020.3 – Brooklyn / 1643 Oxley Highway Walcha Road

	, , , , , , , , , , , , , , , , , , , ,
	However given that the SEE states that the "Visibility between this access and the highway is partially obscured by trees and the rising slope will impede trucks entering the highway" it is difficult to support the proposed staging concept given the additional truck movements generated.
	Consequently, I recommend the following conditions in addition to those detailed in the Transport for NSW letter dated 26 May 2020:
	 Prior to quarry production commencing, a "Typical Rural Access Standards – Articulated Driveways" access is to be constructed at the location at approximately 150m west of the existing access.
	 Within 6 months of the facility producing 5,000m3 of quarry products from production commencing, the access is to be upgraded to a Basic Right Turn (BAR) intersection meeting AUSTROADS Part 4 of the Guide to Road Design (Austroads 2017a).
Roadworks	 In addition to the conditions detailed in the letter from Transport for NSW, dated 26 May 2020, the following conditions should apply: Should works vary in any way you must advise Council. The access should not block the existing table drain, in order to ensure this a reinforced concrete pipe must be provided. The culvert must have a minimum diameter of 375mm, with sloped headwalls in order to facilitate the continued effective drainage of water. Water runoff from the access structure should be directed away from the access into the table drain of the Oxley Highway. The access surface shall be sealed from the boundary to the edge line of the Oxley Highway. No permanent objects are to be installed that will inhibit sight distance. Any disturbed ground or vegetation are to be suitably reinstated. A dial before you dig (DBYD) must be completed prior to commencing works. Walcha Council cannot guarantee the location of services, additionally Council is not responsible if services are encountered while constructing this access. No condition requirements with regard internal roads proposed.
Flooding and	The "Roadworks" section above addresses drainage concerns associated with the
Drainage	property access. No other drainage or flooding concerns.
Utility	There will be no provision of services for this development.
Servicing	
Site Specific Development Control Plan	Not required
Securities Required	Not required
Haulage Levies	I was unable to locate a developer contribution plan for Walcha LGA but would expect a development of this type would pay a levy of around \$0.20/tonne of quarry production, subject to annual CPI adjustment.



Item 3.1 - Attachment 15

Purchase Order/Reference : Lot 2 Client Service ID : 581657

Elizabeth Cumming Date: 07 April 2021

7 Vernon Street

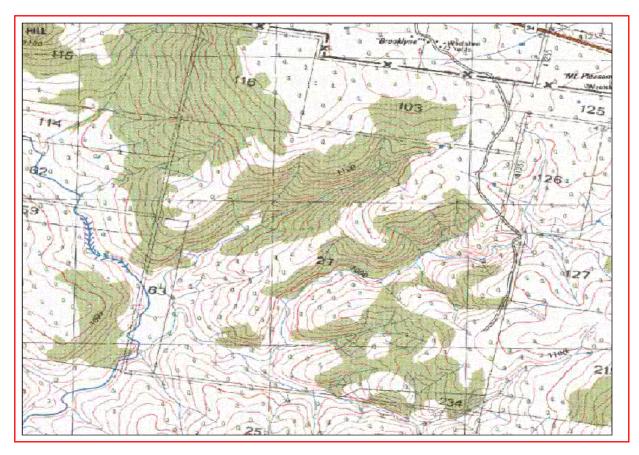
Inverell New South Wales 2360 Attention: Elizabeth Cumming

Email: nenwplanningservices@outlook.com

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lot: 2, DP:DP1173956 with a Buffer of 50 meters, conducted by Elizabeth Cumming on 07 April 2021.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



- 0 Aboriginal sites are recorded in or near the above location.
- 0 Aboriginal places have been declared in or near the above location. *

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (http://www.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are
 recorded as grid references and it is important to note that there may be errors or omissions in these
 recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.



Purchase Order/Reference : Lot46

Client Service ID: 581659

Date: 07 April 2021

Elizabeth Cumming

7 Vernon Street Inverell New South Wales 2360

Attention: Elizabeth Cumming

Email: nenwplanningservices@outlook.com

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lot: 46, DP:DP1082562 with a Buffer of 50 meters, conducted by Elizabeth Cumming on 07 April 2021.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



- 0 Aboriginal sites are recorded in or near the above location.
- 0 Aboriginal places have been declared in or near the above location. *

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (http://www.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are
 recorded as grid references and it is important to note that there may be errors or omissions in these
 recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.



Purchase Order/Reference : Lot 47

Client Service ID: 581660

Date: 07 April 2021

Elizabeth Cumming

7 Vernon Street

Inverell New South Wales 2360 Attention: Elizabeth Cumming

Email: nenwplanningservices@outlook.com

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lot: 47, DP:DP1082562 with a Buffer of 50 meters, conducted by Elizabeth Cumming on 07 April 2021.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



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- 0 Aboriginal places have been declared in or near the above location. *

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- You can get further information about Aboriginal places by looking at the gazettal notice that declared it.
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 (http://www.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

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 recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.



Purchase Order/Reference : Lot 103

Client Service ID: 581655

Date: 07 April 2021

Elizabeth Cumming

7 Vernon Street

Inverell New South Wales 2360 Attention: Elizabeth Cumming

Email: nenwplanningservices@outlook.com

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lot: 103, DP:DP753846 with a Buffer of 50 meters, conducted by Elizabeth Cumming on 07 April 2021.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



- 0 Aboriginal sites are recorded in or near the above location.
- 0 Aboriginal places have been declared in or near the above location. *

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (http://www.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are
 recorded as grid references and it is important to note that there may be errors or omissions in these
 recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.