



# **Newman Quarrying Pty Ltd**

Quarry Expansion at Lot 2 DP 1055044, Tullymorgan-  
Jackybulbin Road, Mororo  
Air Quality Management Plan

September 2022

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# 1. Introduction

This Air Quality Management Plan (AQMP) forms part of the Environmental Management Strategy (EMS) for Sly's Quarry located at Lot 2 DP 1055044, Tullymorgan – Jackybulbin Road, Mororo and managed by Newman Quarrying (NQ). This AQMP has been prepared to meet the requirements of the Minister's Conditions of Approval (CoA) outlined in Development Consent SSD 6624. This AQMP addresses the CoA, the mitigation measures outlined in the Environmental Impact Statement (EIS) for Sly's Quarry and all relevant legislation.

Air quality may be affected by normal site operations, particularly through dust generation from excavation / blasting, the crushing and screening plant, and vehicle movements on unsealed surfaces. Potential impacts include the degradation of the local air quality and disturbance of soil.

## 1.1 Objectives

The key objective of the AQMP is to ensure appropriate controls and procedures are implemented in order to minimise the air quality impacts to the local community and the built environment.

To achieve this objective, NQ will undertake the following:

- Ensure appropriate controls and procedures are implemented during the operation of the quarry to avoid or minimise dust generation, air quality impacts and potential adverse impacts to sensitive receivers.
- Ensure appropriate measures are implemented to address the relevant CoA outlined in Table 2-1.
- Ensure appropriate measures are implemented to comply with all relevant legislation and other requirements as described in Section 2.1.

## 1.2 Targets

The following targets have been established for the management of air quality during the operational lifetime of Sly's Quarry:

- Minimise and manage potential air quality/dust impacts from the development in accordance with relevant legislative requirements at CoA.
- Control dust and exhaust emissions of plant and equipment from quarrying activities.
- Achieve particulate matter and dust concentrations that meet the approved air quality criteria.
- No visible offsite dust emissions as a result of site operations.
- No justifiable complaints related to air quality attributable to site operation.

## 2. Environmental requirements

### 2.1 Legislation

Legislation relevant to air quality management includes:

- Protection of the Environment Operations Act 1997
- Protection of the Environment Operations (Clean Air) Regulation 2000
- National Greenhouse and Energy Reporting Act 2007

Further discussion of the above legislation is covered in Section 2 of the EMS, as well as the EIS.

### 2.2 Guidelines

The following guidelines have been consulted during development of this AQMP:

- National Environment Protection Council (NEPC) – National Environment Protection Measure (NEPM) for Ambient Air Quality
- AS 3580.1.1:2007 Methods for sampling and analysis of ambient air: Part 1.1: Guide to siting air monitoring equipment
- Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (Department of Environment and Conservation NSW (DEC), 2005)
- Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales (DEC, 2007).

### 2.3 Conditions of approval

The consent conditions relevant to this AQMP are listed in Table 2-1. A cross reference is also included to indicate where the condition is addressed in this AQMP or other environmental management documents.

**Table 2-1 Consent conditions relevant to the AQMP**

Condition No.	Requirement	Reference
Schedule 3, Condition 12	The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 4 at any residence on privately-owned land.	The criteria in Table 4 have been adopted in Table 3-2 and Table 4-1 outlines how these are to be achieved.

Condition No.	Requirement	Reference
Schedule 3, Condition 13	The Applicant must: (a) implement best practice management to minimise the dust emissions of the development	Table 4-1
	(b) regularly assess meteorological and air quality monitoring data and relocate, modify and/or stop operations on site to ensure compliance with the air quality criteria in this consent;	Section 5
	(c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see notes under Table 4);	Table 4-1
	(d) monitor and report on compliance with the relevant air quality conditions in this consent; and	Section 5
	(e) minimise the area of surface disturbance and undertake progressive rehabilitation of the site, to the satisfaction of the Secretary.	Table 4-1
Schedule 3, Condition 14	The Applicant must prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must:	Entire report
	a. Be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agree by the Secretary	Appendix A
	b. Describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> <li>Compliance with the relevant conditions of this consent</li> <li>Best practice management is being employed</li> <li>The air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events</li> </ul>	Section 4
	c. Describe the proposed air quality management system	Section 4
	d. Include an air quality monitoring program that: <ul style="list-style-type: none"> <li>Is capable of evaluating the performance of the development</li> <li>Includes a protocol for determining any exceedances of the relevant conditions of consent</li> <li>Effectively supports the air quality management system</li> <li>Evaluates and reports on the adequacy of the air quality management system</li> </ul>	Section 5
Schedule 3, Condition 15	The Applicant must implement the approved Air Quality Management Plan as approved from time to time by the Secretary.	Noted
Schedule 3, Condition 16	For the life of the development, the Applicant must ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline.	Section 5.1
Schedule 3, Condition 17	The Applicant must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.	Section 4

Condition No.	Requirement	Reference
Schedule 4, Condition 1	As soon as practicable after obtaining monitoring results showing: a) an exceedance of any relevant criteria in Schedule 3, the Applicant must notify the affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and	Section 5.3
	b) an exceedance of any relevant air quality criteria in Schedule 3, the Applicant must send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned).	Section 5.3
Schedule 4, Condition 2	If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.	Noted
	If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision, the Applicant must: a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to: <ul style="list-style-type: none"> <li>• consult with the landowner to determine his/her concerns;</li> <li>• conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and</li> <li>• if the development is not complying with these criteria, then identify measures that could be implemented to ensure compliance with the relevant criteria; and</li> </ul>	Table 5-1
	b) give the Secretary and landowner a copy of the independent review.	Table 5-1
Schedule 5, Condition 3	The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:	
	(a) detailed baseline data	Section 2.4
	(b) A description of: <ul style="list-style-type: none"> <li>• The relevant statutory requirements (including any relevant approval, licence or lease conditions)</li> <li>• Any relevant limits or performance measures/criteria</li> <li>• The specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures</li> </ul>	Section 2 Section 5 Section 5
	(c) A description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria	Section 4
	(d) a Program to monitor and report on the: <ul style="list-style-type: none"> <li>• Impacts and environmental performance of the development</li> <li>• Effectiveness of any management measures (see (c) above)</li> </ul>	Section 5.1

Condition No.	Requirement	Reference
	(e) A contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible	Section 5.2
	(f) A program to investigate and implement ways to improve the environmental performance of the development over time	Section 6
	(g) A protocol for managing and reporting any: <ul style="list-style-type: none"> <li>• Incidents</li> <li>• Complaints</li> <li>• Non-compliances with statutory requirements</li> <li>• Exceedances of the impact assessment criteria and/or performance criteria</li> </ul>	Section 5.3
	(h) A protocol for periodic review of the plan. <i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i>	Section 6
Schedule 5 Condition 4	Within 3 months of the submission of an: <ul style="list-style-type: none"> <li>a) Annual Review under condition 9 below;</li> <li>b) incident report under condition 7 below;</li> <li>c) audit report under condition 10 below; and</li> <li>d) any modifications to this consent,</li> </ul> the Applicant must review the strategies, plans and programs required under this consent, to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted for the approval of the Secretary	Section 6.1
Schedule 5, Condition 5	To ensure that strategies, plans or programs required under this consent are updated on a regular basis, and that they incorporate any appropriate additional measures to improve the environmental performance of the development, the Applicant may at any time submit revised strategies, plans or programs for the approval of the Secretary. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis. The Secretary may approve a revised strategy, plan or program required under this consent, or the staged submission of any of these documents, at any time. With the agreement of the Secretary, the Applicant may prepare a revision of or a stage of a strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this consent. While any strategy, plan or program may be submitted on a staged basis, the Applicant will need to ensure that the operations associated with the development are covered by suitable strategies, plans or programs at all times. If the submission of any strategy, plan or program is to be staged; then the relevant strategy, plan or program must clearly describe the specific stage/s of the development to which the strategy, plan or program applies; the relationship of this stage/s to any future stages; and the trigger for updating the strategy, plan or program. Notes: While any strategy, plan or program may be submitted on a staged basis, the Applicant will need to ensure that the operations associated with the development are covered by suitable strategies, plans or programs at all times. If the submission of any strategy, plan or program is to be staged; then the relevant strategy, plan or program must clearly describe the specific stage/s of the development to which the strategy, plan or program applies; the relationship of this stage/s to any future stages; and the trigger for updating the strategy, plan or program.	Section 6



Condition No.	Requirement	Reference
Schedule 5, Condition 6	<p><b>Adaptive Management</b></p> <p>The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&amp;A Act or EP&amp;A Regulation.</p> <p>Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity:</p> <p>a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not reoccur;</p> <p>b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action;</p> <p>c) within 14 days of the exceedance occurring, submit a report to the Secretary describing these remediation options and any preferred remediation measures or other course of action; and</p> <p>d) implement remediation measures as directed by the Secretary; to the satisfaction of the Secretary</p>	Section 5.3

## 2.4 Environment Protection Licence

The quarry has obtained an Environmental Protection Licence (EPL) (11649). The EPL conditions relevant to this AQMP are listed in Table 2-2. A cross reference is also included to indicate where the condition is addressed in this AQMP or other environmental management documents.

**Table 2-2 EPL conditions relevant to the AQMP**

Condition No.	Requirement	Reference
O3.1	Activities occurring in or on the premises must be carried out in a manner that will minimise the generation, or emission from the premises, of wind-blown or traffic generated dust.	Table 4-1
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	Section 5
M1.2	All records required to be kept by this licence must be: <ul style="list-style-type: none"> <li>a) in a legible form, or in a form that can readily be reduced to a legible form;</li> <li>b) kept for at least 4 years after the monitoring or event to which they relate took place; and</li> <li>c) produced in a legible form to any authorised officer of the EPA who asks to see them.</li> </ul>	Section 5.3
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: <ul style="list-style-type: none"> <li>a) the date(s) on which the sample was taken;</li> <li>b) the time(s) at which the sample was collected;</li> <li>c) the point at which the sample was taken; and</li> <li>d) the name of the person who collected the sample.</li> </ul>	Section 5.3
M5.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	Section 5.3

Condition No.	Requirement	Reference
M5.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	Section 5.3
M5.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Section 5.3
M5.4	The record must be produced to any authorised officer of the EPA who asks to see them	Section 5.3

## 3. Existing environment and impacts

### 3.1 Existing environment

There are few sensitive receivers in the vicinity of the quarry. The nearest residences are located approximately 1.5 km from the quarry boundary.

Sensitive receivers identified in the vicinity of the site are detailed in Table 3-1.

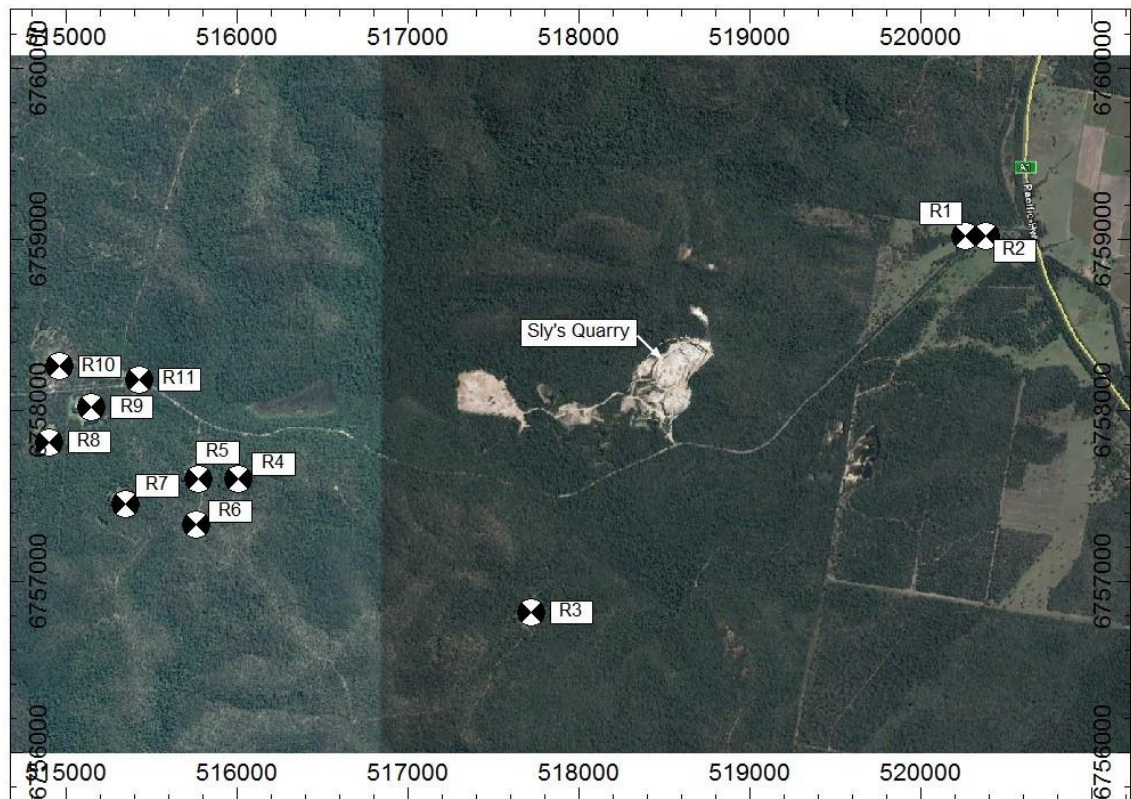
Figure 3-1 shows a site aerial image and the location of identified isolated rural residence sensitive receivers. These receivers have been identified to represent those with the greatest potential for adverse dust impact (viz. any receptors in the same general direction but further away have a lesser impact).

**Table 3-1 Identified sensitive receivers**

Receiver	Receiver type	Approximate distance to nearest activity (m)
R1	Residential	1600
R2	Residential	1700
R3	Residential	1500
R4	Residential	2600
R5	Residential	2700
R6	Residential	2800
R7	Residential	3200
R8	Residential	3600
R9	Residential	3300
R10	Residential	3500
R11	Residential	3000

An ambient level of PM<sub>10</sub> of 15 µg/m<sup>3</sup> has been assumed for rural coastal NSW areas away from the drier inland, industrial sources and urbanised environments.

GHD are not aware of any complaints regarding dust emissions from current quarry operations.



**Figure 3-1 Site location and identified sensitive receptors**

## 3.2 Impacts

### 3.2.1 Assessment criteria

Air quality impact assessment criteria are prescribed within the NSW OEH *Approved Methods*.

To ensure the environmental outcomes are achieved, dust emissions from a site must be assessed against the assessment criteria given in Table 3-2.

**Table 3-2 Dust assessment criteria**

Pollutant	Averaging period	Criterion
PM10	24 hours	50 µg/m <sup>3</sup>
	Annual	30 µg/m <sup>3</sup>
TSP	Annual	90 µg/m <sup>3</sup>
Dust deposition (insoluble fraction)	Annual	2 g/m <sup>2</sup> /month*

\* *Maximum Increment. Maximum allowable cumulative impact of 4 g/m<sup>2</sup>/month.*

The above criteria are provided as cumulative (incremental plus background) concentration levels.

### 3.2.2 Impact assessment

An analysis of the predicted results from dispersion modelling is presented below.

Maximum predicted ground level concentrations and deposition rates at each of the identified receptors have been predicted and added to the adopted background levels to determine the cumulative impact, which can then be compared against the assessment criteria.

In addition to the conservative approach taken in the dispersion modelling, it is acknowledged that tall, thick vegetation surrounds the site in all directions. This would assist to dampen wind speeds (the meteorological models used do account substantially to this 'drag' on the wind speeds) and filter airborne dust as it travels from the site. These conditions cannot be fully represented in the dispersion model and therefore adds a level of conservatism to model predictions.

Table 3-3 displays the predicted 24-hour average PM<sub>10</sub> concentrations at each receptor – highest one-day event in the year. Predicted results indicate compliance with the 24-hour average PM<sub>10</sub> criterion at all receptors for both average and peak production rates.

**Table 3-3 Predicted PM10 24-hour average ground level concentration (µg/m<sup>3</sup>)**

Receiver	Cumulative criterion	Adopted background	Adopted incremental impact criterion	Peak production rate		Average production rate	
				No controls	With controls	No controls	With controls
R1	50	15	35	10	2	4	1
R2				10	3	4	1
R3				6	2	2	<1
R4				5	1	2	<1
R5				5	1	2	<1
R6				3	1	1	<1
R7				4	1	1	<1
R8				5	1	2	<1
R9				5	1	2	<1
R10				3	1	1	<1
R11				4	1	2	<1

PM<sub>10</sub> concentration levels over an annual average are well below the adopted criterion.

### Total suspended particles (TSP)

Predictions of maximum ground level TSP concentrations have been made based on peak production rates without dust control measures.

Table 3-4 shows the maximum predicted ground level TSP concentration levels, which indicate that even without dust control measures, the predicted incremental impact at the most exposed sensitive receptor is well below the TSP annual average criterion of 90 µg/m<sup>3</sup>. It is also evident from the results that even with the addition of a typical TSP background concentration of 30 µg/m<sup>3</sup>, the total (cumulative) impact would still be well below the assessment criterion.

**Table 3-4 Predicted TSP annual average concentrations at peak production rate**

Receptor	TSP concentration (µg/m <sup>3</sup> )
R1	3
R2	3
R3	2
R4	1
R5	<1
R6	<1
R7	<1
R8	<1

Receptor	TSP concentration ( $\mu\text{g}/\text{m}^3$ )
R9	<1
R10	<1
R11	<1

### Dust deposition

Predictions of dust deposition rates have been made based on the peak production rate.

In the absence of site-specific dust deposition data, a conservative background dust deposition level of  $2 \text{ g}/\text{m}^2/\text{month}$  was adopted. Table 3-5 shows the maximum predicted incremental dust deposition rates at sensitive receptors for emissions with no controls. The incremental dust deposition criterion of  $2 \text{ g}/\text{m}^2/\text{month}$  is expected to be comprehensively met at all identified receptors.

**Table 3-5 Predicted dust deposition rates at peak production rate**

Receptor	Dust deposition ( $\text{g}/\text{m}^2/\text{month}$ )
R1	0.02
R2	0.02
R3	0.02
R4	0.01
R5	0.01
R6	0.01
R7	0.01
R8	0.01
R9	0.01
R10	0.01
R11	0.01

### Greenhouse gas

The greenhouse gas (GHG) assessment estimated the emissions associated with construction activities and quarry operation (including downstream emissions) based on previous similar projects.

The greenhouse gas estimate considered emissions from the major emission sources during construction and operation activities as follows:

- Construction emission sources:
  - Fuel consumption during construction activities
  - Vegetation removal
- Operation emission sources:
  - Fuel consumption during operation of the plant
  - Transport of product 50 km off site

The greenhouse gas emissions are estimated to be approximately  $44,500 \text{ t CO}_2\text{-e}$  over a 20 year life (approximately  $2,225 \text{ t CO}_2\text{-e}$  per annum on average). Emissions associated with the transportation of material from the facility were estimated to be about 66% of emission for the proposal. The next greatest source of emissions at 32% was fuel consumption during operations.

## 4. Environmental control measures

Environmental requirements and control measures are identified in the Conditions of Approval and the EIS. Specific measures and requirements to address air quality impacts are outlined in Table 4-1.

**Table 4-1 Environmental controls and mitigation measures**

EMS Ref.	Environmental Management Measure	Timing	Responsibility
AQ01	Ensure all employee inductions include the relevant requirements and controls outlined in the AQMP. Use regular toolbox talks to reinforce the requirements, especially on windy or dry days when dust may be a problem.	Operation	Quarry Manager
AQ02	The air quality criteria specified in the consent conditions and outlined in Table 3-2 are not to be exceeded.	Operation	Quarry Manager
AQ03	During adverse meteorological conditions and extraordinary events (i.e., bushfires, prescribed burning, dust storms, sea fog, fire incidents) quarry operations will reduce and ultimately cease.	Operation	Quarry Manager
AQ04	Monitoring and reporting on compliance with the relevant air quality conditions is required, refer to Section 5.	Operation	Quarry Manager
AQ05	The area of surface disturbance will be minimised and progressive rehabilitation undertaken at the site.	Operation	Quarry Manager
AQ06	Water sprays are required on crushing and screening plant, when dust is observed >50m from the plant .	Operation	Quarry Manager
AQ07	Haul truck routes will be watered when dust is observed .50m from the access road and particularly during peak periods of high frequency vehicle movements and extended dry spells.	Operation	Quarry Manager
AQ08	Loaded trucks leaving the quarry site will be covered to minimise the transport of dust off site	Operation	Quarry Manager
AQ09	If off-site dust impacts are noted as being an issue (e.g. complaints from neighbours or visible and extensive dust plumes), dust monitoring will be undertaken as outlined in Section 5.1.	Operation	Quarry Manager

EMS Ref.	Environmental Management Measure	Timing	Responsibility
AQ10	<p>The following mitigation measures are to be implemented to assist in minimising the off-site dust impacts from blasting at the quarry.</p> <ul style="list-style-type: none"> <li>• Identified sensitive receptors will be notified when blasting is planned to occur.</li> <li>• Blasting will occur during times when winds are calm or blowing away from the nearest receptors.</li> <li>• Water sprays will be used as dust suppression during dry periods, just before the blast.</li> <li>• Blast mats such as hessian or rubber matting may be used to suppress impacts from blasting, including fly rock and particulate emissions.</li> </ul>	Operation	Quarry Manager
	<p>Mitigation measures to reduce greenhouse gas emissions are:</p> <ul style="list-style-type: none"> <li>• Opportunities for the use of biodiesel will be investigated and used where possible.</li> <li>• Efficient plant and vehicles will be used where reasonable and feasible to do so.</li> <li>• Turn off engines when not in use.</li> <li>• All machinery and vehicles will be maintained in good working order and made to comply with relevant exhaust standards</li> </ul>	Operation	Quarry Manager

## 5. Monitoring and reporting

### 5.1 Environmental inspections and monitoring

To assist with monitoring air quality, a meteorological station that complies with the requirements in AS3580.14:2014 and the *Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales* (EPA 2022) has been installed adjacent to the site office and readings recorded while the quarry is operating. The weather station records temperature, humidity, dew point, wind speed, wind direction, barometric pressure and rainfall every 30 minutes.



**Figure 5-1 Weather station location**

Routine weekly inspections by the Quarry Manager (or delegate) will occur throughout the operational lifetime of the quarry to identify any ad-hoc air quality issues such as dust emissions.

Dust monitoring was undertaken from August 2017 for PM<sub>10</sub>, TSP and deposited dust. A Dust Impact Assessment (GHD 2018) report was prepared summarising the results of the monitoring, with the conclusion:



*The results indicate that the concentration levels of PM10, TSP and deposited dust were below the air quality criteria specified in the Development Consent for the Sly's Quarry Expansion Project*

Based on this it was requested the dust monitoring cease, unless there is a justifiable dust complaint or a change in operating conditions that are likely to increase dust emissions from the site, in which case air quality monitoring will recommence, as described in Section 5.2. This request was approved by DPE on 10 October 2018, refer to Appendix A.

## 5.2 Contingency plan

If the above monitoring detects an impact or there is a justified community, dust related, complaint, a contingency plan or trigger and response plan is to be implemented, as shown in Table 5-1.

**Table 5-1 Contingency plan**

Aspect	Trigger	Response
Routine dust monitoring	Visible dust being blown offsite	Quarry Manager to stop work and implement additional controls e.g. watering, cover stockpiles, revegetate unused areas and/or relocate dust generating activities.
Non-compliance with dust criteria	Change in operations	Identifying the dust source that has caused the exceedance. Reassess the mitigation measures employed at the site to reduce the impact of the dust source Following the adoption of additional dust mitigation, conduct further dust monitoring to ensure the success of the mitigation measure
	Community complaint that the Secretary is satisfied warrants an independent review	Within 2 months of the Secretary's decision, commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to: <ul style="list-style-type: none"> <li>consult with the landowner to determine his/her concerns;</li> <li>conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and</li> <li>if the development is not complying with these criteria, then identify measures that could be implemented to ensure compliance with the relevant criteria; and</li> <li>give the Secretary and landowner a copy of the independent review.</li> </ul>

### 5.3 Reporting

The general reporting requirements are described in Section 8.5 of the EMS. In relation to the dust monitoring, the routine dust monitoring will be recorded on the *Environmental Inspection Checklist*.

When compliance monitoring is required, a report will be prepared by the Quarry Manager or consultant. This is to include, as a minimum:

- The date(s) of the monitoring
- The time(s) of the monitoring
- The location of the monitoring
- Who collected the sample
- The activities occurring during the monitoring
- A comparison of the results with the adopted dust criteria

If an exceedance of the criteria is recorded, the affected resident is to be notified in writing and provided with regular monitoring results until the quarry is again complying with the relevant criteria. A copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) is also to be sent to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned).

If an exceedance occurs NQ will:

- Take action to address the issue immediately
- Consider all reasonable and feasible options for addressing the issue, so it does not occur again
- Submit a report to DPE within 14 days outlining the options considered and the preferred option
- Implement the preferred option once approved by DPE

A summary of any monitoring results will be presented in the Annual Report (refer to Section 8.5 of the EMS) and the NQ website. In the Annual Report the monitoring results are to discuss:

- Comparisons with:
  - Relevant statutory requirements, limits or performance measures/criteria
  - Requirements of any relevant plan or program
  - Monitoring results of previous years
  - Relevant predictions in the EIS
- Non-compliances and what actions were taken to ensure compliance
- Trends
- Any measures implemented to improve the environmental performance of the operation

All records will be:

- Maintained in a legible form
- Kept for at least 4 years
- Produced to any authorised officer of the EPA and/or DPE upon request

### **5.3.1 Complaint records**

A telephone complaint line (02 6645 1150) and email (newmanquarrying@gmail.com) is established to receive complaints from members of the public in relation to activities conducted at the quarry. The complaints line is publicly available, advertised on signage at the site entry and the Newman Quarrying website (www.newmanquarrying.com.au).

A legible record of all complaints in relation to air quality must include:

- The date and time of the complaint
- The method by which the complaint was made
- Any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect
- The nature of the complaint
- The action taken in relation to the complaint, including any follow-up contact with the complainant
- If no action was taken, the reason why no action was taken

Any complaint needs to be entered into the complaints register on the NQ website at least monthly.

Further details regarding complaints are provided in the EMS.

### **5.3.2 Incident notification**

The Quarry Manger will immediately notify DPE, EPA (131 555) and any other relevant agency of any incident. Within 7 days of the incident, a detailed report is to be submitted to DPE and any other relevant agency.

Further details regarding incidents are provided in the EMS and Pollution Incident Response Management Plan (PIRMP).

## **5.4 Independent Review**

If the Secretary is satisfied that an independent review is warranted for exceeding the relevant criteria, then within 2 months of the Secretary's decision, NQ must:

a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:

- Consult with the landowner to determine his/her concerns;
- Conduct monitoring to determine whether the development is complying with the relevant criteria; and
- If the development is not complying with these criteria, then identify measures that could be implemented to ensure compliance with the relevant criteria; and

b) give the Secretary and landowner a copy of the independent review.

# 6. Review and improvement

## 6.1 Review

To continuously improve the environmental performance of the operations, the Quarry Manager will review the AQMP and its implementation. The review will be completed within 3 months of the submission of an:

- Annual Review
- Incident report
- Audit report
- Any modifications

The purpose of the review is to ensure that the system is meeting the requirements of the standards, policies and objectives. Between the scheduled reviews, a register of issues will be maintained to ensure that any issue raised by internal and external personnel associated with the quarry is recorded.

The review will consider (where available or applicable):

- Changes to the operation
- Site personnel comments
- Agency comments
- Audit findings
- Environmental monitoring records
- Complaints
- Details of corrective and preventative actions taken
- Environmental non-conformances, environmental inspection notices, inspection reports, and non-conformance reports
- Incident reports
- Changes in organisation structures and responsibilities
- The extent of compliance with objectives and targets
- The effect of changes in standards and legislation
- Co-ordination of environmental management of sub-contractors

A record of the review is maintained by the Quarry Manager and kept on site.

## 6.2 Updates

The outcomes of the above reviews may include amendments to the AQMP and supporting documentation, updates to the Project aspects and impacts register, re-evaluation of the Project objectives and targets, or reallocation of Project resources. If any amendments are considered necessary, these need to be submitted to DPE within 4 weeks of the review for approval. Once approved a copy of the revised AQMP is to be made available on the NQ website.

Any amendments made to AQMP will be communicated to relevant personnel as required following approval by DPE.

# Appendix A – DPE Approval



Contact: Craig Dunk  
Phone: 02 6670 8660  
Email: [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au)

10 October 2018

Mr Mark Newman  
Newman Quarrying Pty Ltd  
Jackybulbin Road,  
Mororo NSW 2469

Dear Mr Newman

**Newman Quarrying Pty Ltd - Sly's Quarry (SSD 6624)  
Dust Monitoring**

I refer to the Dust Impact Assessment Report (Report) submitted to the Department of Planning and Environment (Department) via email on 18 June 2018 by GHD on behalf of Newman Quarrying Pty Ltd (Newman).

The Department acknowledges receipt of the Report and notes Newman's proposed intention to cease air quality monitoring at Slys Quarry (Site) as per the provision in the Site's approved Air Quality Management Plan.

The Department has reviewed the proposal and based on the results contained within the Report, approves the cessation of this monitoring.

However, if the Site receives a dust complaint or makes an operational change that is likely to increase dust emissions from the Site, the Department expects that air quality monitoring will recommence in accordance with the approved Air Quality Management Plan.

If you wish to discuss this further, please contact Craig Dunk (02) 6670 8660 or email to [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au).

Yours sincerely,

10.10.18

Stewart Mclachlan  
**Principal Investigator – Compliance**  
*As the Secretary's nominee*

GHD

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Document Status

Revision	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
0	S Martin	E Smith		S Lawer		03/05/2017
1	B Luffman	S Lawer		S Lawer		30/01/2020
2	B Luffman	S Lawer		S Lawer		10/03/2022
3	B Luffman	S Lawer		S Lawer		29/07/2022
4	B Luffman	S Lawer		S Lawer		01/09/2022

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