



Program for Environment Protection and Rehabilitation

Date:	8 July 2025
Version Number:	2
Name of Tenement Holder(s):	Clay & Mineral Sales Pty Ltd
Name of Operation:	Grace Plains Sand Pit
Tenement No:	EML 6561
Size (Ha):	7
Contact Details for Tenement Holder	Name: Richard Fricker..... Phone:.....82514000..... Email:.....richardf@claymineral.com.au.....

Section 1: Mining Operations

This section specifies proposed mining operations as per Section 70B(2)(a) of the *Mining Act 1971*.

1. Mining Operations	
1.1 Resource description, production and mine life.	<p>Following is a geological description of the resource:</p> <p>The clean sand is recent drift sand which occurs as a relatively thin layer of approximately 1-2 metres on the pre-existing dunes. The pre existing dunes are considerably older than the modern dunes as they appear to be covered in calcrete rock. Calcrete also covers the interdunal flats.</p> <p>The resource/commodity being extracted and sold is: Sand</p> <p>Statement of the estimated resource or reserve and details of the basis of this estimate:</p> <p>7 hectares x 1.8 m (average) = 126 000 m³. 126000 x 1.6 t/m³ = 201600 tonnes.</p> <p>The mined resource will be used for the following products, end use: Sand for pipelaying and construction of roads and infrastructure.</p> <p>The estimated annual production is 10000 tonnes per annum.</p> <p>The mine is estimated to have a life of 20 years.</p>
1.2 Processing	<p>The following is a description of processing:</p> <p>Topsoil will be removed using a loader. Sand will then be screened using a loader and a screening plant. Sand will then be loaded onto a truck and carted off site.</p>
1.3 Product Transport	<p>The estimated size of haulage trucks are: 10-30 tonne capacity</p> <p>The estimated truck movements per operational day is 3-8.</p> <p>A per the Location Plan, Mine trucks will access the site via the following route: Old Mallala Road.</p>

1.4 Water Use	<p>The amount of water required for mine operations is estimated at:</p> <p>10000 Litres per day.</p> <p>Water will be sourced from: The nearest SA Water filling point.</p>
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1.6 Mining and Rehabilitation Description

A staged Mining Plan showing how mining and progressive rehabilitation will occur over the life of the mine has been included as **Attachment 2**.

The plans and details provided below demonstrate that there is a reasonable prospect that the land can be effectively and efficiently mined.

The proposed final depth of mining below the surrounding ground level is not greater than 5 metres;

Or

The height of the sand dune or surface outcrop above surrounding land not greater than 10 metres.

The maximum area of un-rehabilitated land will be less than 3 hectares at any one time.

Following is a description of how mining will occur over the life of the mine using a staged approach:

Mining will begin at the western end of the sand dune (closest to Old Mallala Road) in stage one. Mining will continue in a south easterly direction consisting of three stages in total. Each stage is between 2-3 hectares. See mining plan stages in attachment 2/appendix 5.

Following is a description of the post mining land use and landform:

The land at mine completion will replicate the surrounding landscape and be returned to cropping land. The hill being mined is approximately 4 metres high and this will become a smaller hill of about 2 metres in height.

Stage progressive rehabilitation is planned in the following sequence to achieve the post mining landform design and allow for the proposed land use:

During mining the topsoil will be left on the flanks (northern and southern sides) of the hill for each stage. When the sand is removed from a stage the contour (shape) of the hill will still be the same. When the stage or hill has been mined it will be rehabilitated. Rehabilitation will occur in spring/winter of any given year. The clay base will be ripped to facilitate drainage and vegetation regeneration. The topsoil will then be returned to the site from the storage areas on the flanks. A cover crop will be sown to stabilise the hill and reduce erosion.

1.7 Hours of operation

Regular/continuous/ongoing

Mining will occur on a regular/ continuous/ ongoing basis with the following operating hours:

Monday – Friday:

Saturday:.....

Sunday:.....

Public Holidays:.....

Campaign

Mining will occur on a campaign basis within the following operating hours during campaigns:

Monday – Friday: 6.30 am – 5 pm

Saturday: 6.30 am – 5 pm.

Sunday: No mining

Public Holidays: No mining

Section 2: Consultation

The following additional consultation occurred post lease grant:

Landowner: Kywong Pty Ltd

Date of consultation: No additional consultation has occurred.

Issue(s) raised:

Resolution(s) proposed:

Adjacent landowner: No additional consultation has occurred.

Date of consultation:

Issue(s) raised:

Resolution(s) proposed:

Local Council: No additional consultation has occurred.

Date of consultation:

Issue(s) raised:

Resolution(s) proposed:

Stakeholder Name: No additional consultation has occurred.

Date of consultation:

Issue(s) raised:

Resolution(s) proposed:

Section 3: Management of Environmental Impacts

This section sets out the environmental outcomes, measurement criteria and strategies as per Regulation 63(1) of the Mining Regulations 2020.

3.1 Heritage	
<p>Outcome No damage, disturbance or interference to Aboriginal or Non-Aboriginal heritage sites, objects or remains as a result of mining operations unless it is authorised under the relevant legislation.</p>	<p>Measurement Criteria Production records and Mine Logbook will demonstrate that upon discovery within the tenement of any possible Aboriginal or Non-Aboriginal: - sites of significance; - objects; - remains; that work ceased until the relevant authorities were notified and work recommenced only once authorisation was received.</p>
<p>Control and Management Strategies</p> <p>All contractors and employees operating within the tenement will understand their obligations in regard to the <i>Aboriginal Heritage Act 1988</i> with regards to the discovery of Aboriginal sites, objects or remains and the <i>Heritage Places Act 1993</i> with regards to the discovery of places or objects of significance.</p>	

3.2 Traffic

Outcome

No traffic accidents involving members of the public and mine related traffic that could have been reasonably prevented by the Tenement Holder.

Measurement Criteria

All traffic accidents involving the public at mine access points are recorded in Mine Logbook. All accidents will be investigated by a suitably qualified independent third party within one calendar month (or other time as agreed with Mining Regulator) and the results of the investigation show that the accident could not have been reasonably prevented by the Tenement Holder.

Control and Management Strategies

All operators will be made aware of the dangers of mine machinery and mine vehicles entering public roads during site induction.

A road sign will be displayed at the mine entry and exit point, warning the public of large trucks entering and exiting the tenement.

Vehicles and machinery will be parked inside the tenement, not along road verges.

3.3 Public Safety (Construction and Operation of the Mine)

<p>Outcome No public injuries and/or deaths resulting from unauthorised entry to the Land that could have been reasonably prevented.</p>	<p>Measurement Criteria All public injuries and/or deaths resulting from unauthorised access to the mine site are recorded in Mine Logbook and investigated by a suitably qualified independent third party within one calendar month (or other time as agreed with Mining Regulator) and the results of the investigation show that the incident could not have been reasonably prevented by the Tenement Holder.</p>
<p>Control and Management Strategies (Construction and Operation Phase)</p> <p>Access to the Tenement will be controlled through fencing and gates will be locked when not operational.</p> <p>Site is sign posted making the public aware of hazards associated with the mine.</p>	

3.3a Public Safety (Post Mine Completion)

Outcome

The risks to the health and safety of the public, so far as it may be affected by mining operations, are as low as reasonably practicable.

Measurement Criteria

Following final rehabilitation work an appropriate person will inspect the site and verify in a report (to be stored in the Mining Logbook) that final rehabilitation has been undertaken in accordance with the Mining Plan.

Control and Management Strategies (Post Mine Completion)

Mining operations will be progressively rehabilitated as per Mining Plan

All plant and equipment will be removed from the site.

All slopes will be battered to a slope ratio of at least 1:3 (18.4 Degrees).

3.4 Weeds and Pests

<p>Outcome No introduction of new species of weeds, or pests (including feral animals), nor increase in abundance of existing weed or pest species on the Land.</p>	<p>Measurement Criteria Mine Logbook records of annual inspections (in Spring) by the Tenement Holder will demonstrate no introduction of new weeds or pests and no increased abundance of existing weeds and/or pests.</p>
<p>Control and Management Strategies</p> <p>Weed spraying and pest animal control will be conducted by a suitably experience person as required.</p>	

3.5 Soil

Outcome

The existing (pre-mining) soil quality and quantity is maintained.

Measurement Criteria

Annual inspection records in the Mine Logbook of all soil stockpiles will demonstrate that all stockpiles are less than 2 metres high and are maintained at the height when established.

Control and Management Strategies

Soil stockpiled to a maximum of 2m in height to preserve seed stock and micro-organism function.

Soil stockpiles vegetated to prevent erosion and retain soil quality.

Prior to mining, the amount of soil required for successful rehabilitation will be calculated.

3.6 Waste

Outcome

All commercial, industrial and domestic waste is disposed of in accordance with relevant legislation.

Measurement Criteria

Waste disposal receipts demonstrate that all commercial, industrial (including contaminated soil) and domestic waste within the tenement was disposed of offsite in accordance with *Environment Protection Act 1993* requirements.

Control and Management Strategies

Any general rubbish brought onto the tenement by workers or contractors will be removed on a daily basis or will be stored in rubbish bins and disposed of offsite at an EPA licensed waste facility

3.7 Noise

Outcome

No public nuisance impacts from noise as a result of mining operations.

Measurement Criteria

Records from Mine Logbook will demonstrate that any noise complaints received were resolved with the complainant within 48 hours (or other time as agreed with Mining Regulator).

If complaints are not resolved the Tenement Holder will conduct noise monitoring at the sensitive receptor to demonstrate noise emissions comply with the *Environment Protection (Noise) Policy 2007*.

Control and Management Strategies

Trucks will be advised to avoid using air brakes in built up areas.

3.8 Air Quality

Outcome

No public health and/or nuisance impacts from dust generated by mining operations.

Measurement Criteria

Records from Mine Logbook will demonstrate that any dust complaints received were acknowledged within 48 hours and resolved with the complainant within 7 days (or other time as agreed with Mining Regulator).

If complaints are not resolved to the satisfaction of the Mining Regulator, air quality monitoring is to occur at locations, and using methods, as agreed with the Mining Regulator, to demonstrate:

- PM10* concentrations leaving the tenement are less than 50 µg/m³, when measured over a 24-hour period (midnight to midnight) as specified in the *Environment Protection (Air Quality) Policy 2016*, **and/or**
- dust deposition leaving the tenement does not exceed 4g/m²/month, when monitored in accordance with Australian Standard AS 3580.10.1 Methods for sampling and analysis of ambient air – Determination of particulates – Deposited matter – Gravimetric method

*Particulate matter with an aerodynamic diameter of ten micrometres or less

Control and Management Strategies

Rehabilitation will occur progressively in accordance with the Mining Plan.

All loaded trucks leaving the Tenement will be covered.

Mining will not occur during extreme wind days (i.e. dry conditions and wind speeds over 50km/hr)

Haul roads will be watered when required to control dust.

3.9 Surface Water

Outcome

No adverse impact to surface water quality and water dependent ecosystems on or off the Land as a result of contamination and sedimentation caused by mining operations.

Measurement Criteria

Photographic records in the Mine Logbook, following rainfall events resulting in run-off will demonstrate that surface water coming into contact with mining operations is retained within the tenement.

Control and Management Strategies

Rehabilitation will occur progressively in accordance with the Mining Plan.

Any material amount of surface water impacted by mining operation will be captured and retained within the Tenement.

Mining operations will not capture or retain any material amounts of surface water which would require management.

Clean surface water runoff will be diverted around the working area.

A sump will be created to capture and hold surface water within the pit.

3.10 Visual Amenity

Outcome

The form, contrasting aspects and reflective aspects of mining operations are visually softened to blend in with the surrounding landscape.

Measurement Criteria

Annual site inspection records demonstrate that:

- the maximum area of un-rehabilitated land at any one time is 3 hectares; and
- progressive and final rehabilitation has been completed in accordance with the approved Mining Plan.

Control and Management Strategies

Mining operations will be progressively rehabilitated as per Mining Plan.

The maximum area of un-rehabilitated land will be less than 3 hectares at any one time.

3.11 Post Mining Land Use

Outcome

All land disturbed by mining operations is rehabilitated to achieve the post mining land use.

Measurement Criteria

Following final rehabilitation work an appropriate person will inspect the site and verify in a report (to be stored in the Mine Logbook) that final rehabilitation has been undertaken in accordance with the Mining Plan to achieve the approved post mining land use.

Control and Management Strategies

Mining operations will be progressively rehabilitated to achieve post mining land use as per the Mining Plan.

The land will be revegetated with crops.

3.12 Groundwater

Outcome No adverse impact to groundwater caused by mining operations.	Measurement Criteria Annual inspection or survey (as agreed with Mining Regulator) of the pit floor recorded in the Mine Logbook will demonstrate that mining operations do not exceed the mine depth levels stated in the Mining Plan.
Control and Management Strategies No mining is undertaken within 2 metres of the estimated highest seasonal groundwater level.	

Section 8: Tenement Holder Declaration

This declaration must be signed by all tenement holders.

We/ I have taken reasonable steps to review the information to ensure its accuracy and all statements made and information given in this application is true and correct.

Signature: R. Fricker

Print name: RICHARD FRICKER

Date: 8/7/2025

Position: DIRECTOR.

Signature:

Print name:

Date:

Position:

Signature:

Print name:

Date:

Position: