

# Hanson Bacchus Marsh (Coimadai) Quarry

## DUST

Excerpt from *Coimadai Sand Quarry, Environment Management Program, September 2015, p4*

Dust emissions from the site are governed by two State Environment Protection Policies (SEPPs); one for ambient air and one for air quality management, in addition to the *Protocol for Environmental Management: Mining and extractive industries* (PEM) managed by the Environment Protection Authority. Dust may be generated from oversize stockpiles, haul roads, unvegetated bunds and unreclaimed areas.

To minimise dust generation, following may form mitigating circumstances:

- Provide formed roads with appropriate surface treatments including sealing of access roads that are subject to regular traffic.
- Use dust suppressants if watering is not possible or appropriate.
- Limit stripped areas and dusty stockpiles to the minimum necessary for operational requirements.
- Revegetate overburden mounds.
- Fit plant and equipment with appropriate pollution control devices.
- Reduce on-site vehicular speeds to reduce dust.
- Cover or dampen loads on trucks leaving the site.
- Dust sampling at the boundary of the site by deposition gauges.
- Perform visual checks for the off-site movement of dust.
- Install and maintain water spray systems where appropriate.
- Establish an appropriate equipment maintenance program to keep equipment operating to the original specifications.

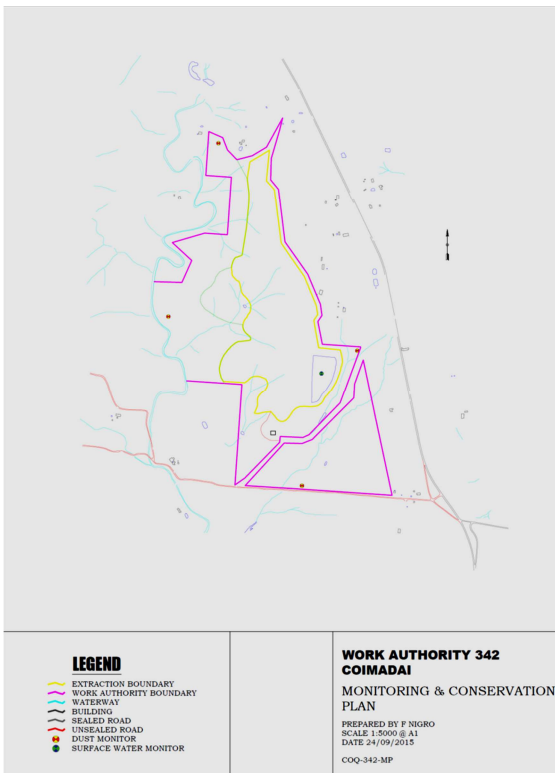
## Monitoring

Coarse dust gauges are to be located around the site. The frequency and criteria are set out in chart overleaf. In addition, operators in the quarry environment will be tested for dust exposure.

### SCHEDULE

ITEM	TEST	DONE BY	FREQUENCY	STANDARD	CRITERIA
DM1 McMullins Road	Airborne Dust (gravimetric sampling)	Hanson Technical Officer	Monthly as background for 12 months, then as required	Testing by AS3580 for sampling and analysis of ambient	Ongoing performance to 3gms/m <sup>2</sup> /month
DM 2	Airborne Dust	Hanson	Monthly as	Testing by	Ongoing

ITEM	TEST	DONE BY	FREQUENCY	STANDARD	CRITERIA
East side of pit	(gravimetric sampling)	Technical Officer	background for 12 months, then as required	AS3580 for sampling and analysis of ambient	performance to 3gms/m2/month
DM3 Russells Road	Airborne Dust (gravimetric sampling)	Hanson Technical Officer	Monthly as background for 12 months, then as required	Testing by AS3580 for sampling and analysis of ambient	Ongoing performance to 3gms/m2/month
DM\$ Goodman Creek	Airborne Dust (gravimetric sampling)	Hanson Technical Officer	Monthly as background for 12 months, then as required	Testing by AS3580 for sampling and analysis of ambient	Ongoing performance to 3gms/m2/month



## References

- Mineral Resources (Sustainable Development) Act 1990
- Planning and Environment Act 1987
- Mineral Resources (Sustainable Development) (Extractive Industries) Regulations 2010
- Extractive Industries Development Act 1995
- State Environment Protection Policy (Ambient Air Quality) 1999
- State Environment Protection Policy (Air Quality Management) 2001

## Further information

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