



# AUSTRALIA **BULK** **HANDLING** AWARDS

## The Awards 2015



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# Dust Control Technology, Application or Practice

# Winner

## Enviromist and Bulk Materials Engineering Australia (BMEA)



(L to r) Denis Boska of Karara Mining, Vitold Ronda of Enviromist and Dr David Hastie of BMEA receive their trophies from Professor Mark Jones of the University of Newcastle.



Micro-mist dust suppression system around ROM crusher bin at Karara mine.

The finalists for the Dust Control Technology, Application or Practice Award were Chute Technology, Cont-iTech Australia, Enviromist and Bulk Materials Engineering Australia (BMEA), Introspec Consulting, Northern Stevedoring Services (NSS) and Wiggins Island Coal Export Terminal (WICET).

Enviromist and Bulk Materials Engineering Australia (BMEA) triumphed for their work in reducing dust from the primary crusher ROM bin at the Karara Mine, 200 kilometres east of Geraldton in Western Australia.

Dust from the bin, when trucks dumped their load, was

thick. The mine was also using lots of expensive water to try and contain the dust.

Karara turned to Enviromist and Bulk Materials Engineering Australia – the bulk solids consulting arm of the University of Wollongong – for a solution.

BMEA and Enviromist used sophisticated techniques to model dust flows.

With a firm grasp of the problem, they devised a solution that used a new high-energy micro-mist dust suppression system.

The system has been 100% successful, with all dust emissions being suppressed. Water consumption has also been reduced by over 60%. □