

CASE STUDY - RDC KOPU MINE SITE WAIKATO, NZ WATER SAVER

RDC – DUST SUPPRESSION FOR AGGREGATE
AND AS A WATER SAVER FOR FINE CLAY SILT



PRODUCT RDC – ROAD DUST CONTROL PRODUCT

SOLUTION DUST SUPPRESSION AND WATER SAVER

CLIENT GOLDER ASSOCIATES NZ LIMITED

CONTRACTOR EVERGREEN LANDCARE

LOCATION WAIKATO, NEW ZEALAND

WHERE SCIENCE



MEETS THE EARTH

PROJECT- Dust Suppression over the summer season

The pavement conditions prior to treatment was very dusty, the aggregate was in a fair condition with an existing depth of around 50mm. The mine has two types of material, a fine clay material on the Haul Road and gravel on the Service

Road. The prevailing wind was whipping up large clouds of dust and, with the mine trucks, this was causing environmental issues within the site itself as well as neighbouring properties.

DESIGN & APPLICATION

On the Gravel Service Road

2 ltrs per sqm

On the Haul Road Fine Clay Material

RDC at 1:10 mix in the water cart, applied more frequently (weekly) as a water saver

INSTALATION

The product was supplied to the mine in 1000ltr IBC which were transferred into the water cart on site.

The RDC was applied directly onto the pavement out of the water cart at the recommended dose rates above.

BENEFITS TO THE PROJECT

RDC is an Inexpensive, Instant and Non-corrosive Dust Suppression Product that has proven results.

- RDC bound the material well giving the wear layer a good running surface – less wear on the equipment
- minimised potholes and corrugations and no grading was required for the summer season following application – maintenance savings
- Being able to treat more heavily trafficked areas and dusty areas as and when required
- Facilitated with the water management of this very slippery fine material



GRAVEL LOCK LTD

P: +64 21677064

E: info@gravellock.co.nz

www.gravellock.co.nz