

# CASE STUDY: K-Sure<sup>®</sup>, K-Shield Impact Belt Support, K-Ultra Dual<sup>®</sup>

Kinder Australia Product:	K-Sure®, K-Shield Impact Belt Support, K-Ultra Dual® and Return Vee Plough
Product Category:	Conveyor Skirting & Sealing
Location:	Victoria
Conveyed Materials:	Hornsfels Hard Rock
Installation Date:	September 2016

dust emission.

#### **Previous problem:**

- Dust Emissions
- Belt Sag
- Ineffective Skirting
- Health & Safety Hazards



ABOVE Image of Transfer point BEFORE Conveyor Upgrade

#### Issue 201902



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### **Kinder Australia Pty Ltd**

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Following a meeting with Quarry Area Manager an inspection of the

Maintenance Team, as the site was reported to be having issues with

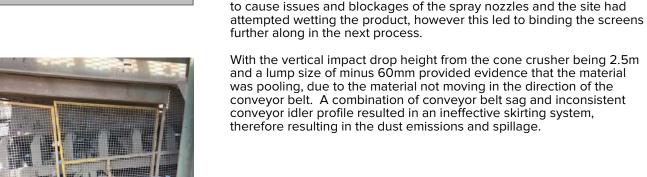
The transfer point under the tertiary crusher was a source of excessive

spillage and dust emission. After many years of service and increased load due to plant productivity increases the belt was at capacity. This resulted in the area flooding and not containing the crushed material.

Material turbulence generating huge amount of dust in the tertiary

crushing process, was ultimately escaping and causing constant emissions from conveyor belt skirting system. Dust had been reported

quarry was arranged, with the area Project, Operations and





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#### **Resolution:**

- Successful installation
- Reduction in down-time
- No maintenance adjustment since installation
- Minimal Dust and Spillage

#### Video Links

K-Shield Impact Belt Support K-Sure® Belt Support K-Ultra Dual® Seal After an in-depth report was submitted, this Quarry elected to overhaul the conveyor by fabricating a new tail section and followed recommendations to install: a K-Shield Impact Belt Support System, a K-Sure<sup>®</sup> Belt Support System, K-Ultra Dual<sup>®</sup> Seal Skirting System and a Return Vee Plough.

All 3 systems were installed during the week of the 19/09/2016. During the first follow-up meeting between the Kinder Australia Pty Ltd Operations Management and the Maintenance Team, on the 20/10/2016, it was recorded that the project upgrade was perceived as a very positive success, with minimal reported dust from the skirting system. The only dust reported was observed to be appearing from another source near the crusher discharge.

A second follow up meeting with the Maintenance Team, was conducted on the 06/01/2017 and it was advised that the upgrade was continuing to meet the site's expectations. Some additional positive observations, in that the site had experienced a reduction in downtime in the area, as the skirting hadn't required any adjustment since the installation, usually conducted monthly.

This was understood to be a combined result of the conveyor belt sag not allowing material to get up under the skirting, causing a pinch point and the polyurethane skirting tip, being an abrasion resistant material.



**ABOVE** Image of Transfer point AFTER Conveyor Upgrade



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