

SEAL FLUSHING

Info BITS



Hydra-Cell® Handles the Pressure and Sediment at a Soda Ash Mine

A large mine uses the Longwall process to bring up 100 rail cars of “Trona Ore” (raw soda ash) daily from 1,600 feet (488 meters) underground. The ore is crushed at the surface and treated with chemicals and water to separate out Sodium Bicarbonate, Sodium Hydroxide, soda ash, and other industrial products.

The remaining rock slurry “tailings” are pumped in stages by slurry pumps and heaped into mounds. To keep the packing of the slurry pumps clean, they require a large volume of flush water—containing Calcium and sediment—pumped continuously from the nearby river with minimal filtration.

The plunger pumps in use could not consistently deliver the 700 psi (48 bar) seal flush pressure required at the slurry pumps. Inconsistent seal pressure can damage the packing of these larger, expensive slurry pumps, resulting in leaking and costly downtime.

Hydra-Cell H25/G25 pumps with a rating of 1000 psi (69 bar) replaced the plunger pumps to handle the required pressure and eliminate downtime issues. With its seal-less design and horizontal disk check valves, Hydra-Cell can also handle the sediment from the river water.



*Pump Model: H25XKBTHFEHA with Oil Level Monitor Mounting Kit 103-000 & 103-010
Flow Rate: 15 gpm (57 l/min) @ 800 rpm
Pressure: 700 psi (48 Bar)
Application: Pumping seal flush water to slurry pumps*

**Reduces
Maintenance
Costs!**

Hydra-Cell®
Seal-less Pumps

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