

MUNRO SOLVES NUISANCE WATER PROBLEM FOR MONTANA COAL MINE

Problem

- Signal Peak Mine recovers coal using underground continuous mining and longwall mining equipment. Because the mine lacked proper filtration, their nuisance water was too full of particulate to remove with standard dewatering pumps, causing their pumps to clog and forcing their longwalls to be shut down for maintenance.
- By the time the mine recognized that they needed to do something more permanent about their nuisance water problem, they had already lost countless man hours maintaining and replacing dewatering pumps. Constant water issues forced the company to endure many unscheduled production downtimes, costing time and money.



Longwall mining equipment shut down because of filtration issue.

Munro supplied a pump station that included integrated filtration to protect pump life and that met the facilities needs for continuous water removal.

Solution

- Munro worked with the mine engineers to develop a pump station that would keep fine particulate suspended in order to avoid clogged pumps.
- The new pump station continually removed nuisance water keeping the longwall in service, with no need for costly maintenance and risk of production downtime.



The finished product, dubbed the "shark tank", was built to separate and suspend fine particulate toward the top of the tank while drawing the clean, filtered water from the bottom.

OUTCOME

Use of Munro stations has led to an overall more reliable pumping system by:

- Reducing the amount of maintenance required to keep dewatering pumps working smoothly, saving the mine countless man hours.
- The integrated pump station filtration system allows water to be removed without clogging pumps, saving the mine money by eliminating the need for continuous and costly pump replacements.

Testimonial

"Signal Peak Energy selects suppliers based on quality, service and price... to maximize operating availability and minimize cost. Munro was selected to supply all of our underground dewatering pumping systems. They bring a wealth of experience and technical knowledge and incorporate our ideas into their designs."

– E.A. Bud Viren, VP of Engineering

**Implementing a Munro pump station costs less than you think, and will save time and money.
To get one customized to your needs, contact us today!**