

Redpath Rig Resources Awarded Health and Safety Accolade

— South Africa

The Kitwe and District Chamber of Commerce and Industry awarded Redpath Rig Resources with the Health and Safety Award for 2017 at the Annual Kitwe and District Chamber of Commerce and Industry Awards on August 11, 2017.

The Health and Safety Category was adjudicated by the Zambian Occupational Health and Safety Institute on the basis of appropriate adherence in the legislation and compliance on health, safety and environmental standards for 2017, which includes medical surveillance statistics, as well as prevalence in safety promotion.

Congratulations to the Redpath Rig Resources team on this fantastic achievement!

Tembagapura Flash Flood — Indonesia

On August 15 around 8:00PM, a flash flood occurred in Tembagapura, Indonesia, which caused the Uteki river to swell and wash mud and debris down the valley and into the town site causing extensive damage to infrastructure. This caused flooding as well as power and water outages over the next few days.

PTRI were called upon to assist the community with the drilling and blasting of some large rocks that were blocking the flow of the river under the Uteki Bridge. Our MRC crew, led by Darryl Wylie, mobilized quickly setting up pluggers and jacklegs and drilling off several large rocks which were then blasted into smaller chunks and removed by an excavator.

Another job that PTRI were asked to assist with was clearing out water catchment areas that gather the water from the mountain to be treated and used as Tembagapura's clean water supply. These catchment areas had filled with debris and become blocked, restricting the water supply to the town. PTRI were quick to respond and some good old hand mucking saved the day. The boys reported that the mountain water was a little cool to say the least.



The MRC team working hard at clearing the rocks. L to R: Hendrik Yembise, Mohamad Supian, Arif Usman and Darryl Wylie.



The crew clearing the debris from the catchment areas.



Congratulations to the team at Shaft #5 at Oyu Tolgoi in Mongolia for passing 800m and 500 days with no Lost Time Injuries.

Grasberg Block Cave Mine Construction Project – Indonesia

The Grasberg Block Cave Mine (GBC) construction project in Indonesia was off to a great start in July. The project to construct draw points and draw point accesses will see over 2400 of such draw points constructed during the next few years.



New steel draw point lintel sets.



A draw point that has been formed and is ready for concrete.



A GBC construction crew underground safety huddle.

Each draw point consists of a steel lintel set weighing over 4,000kg which is concreted in place and designed to control muck flow from the draw point. High strength concrete wear bumpers which lead into the lintel set from the access provide a protective barrier to reduce the undercutting of entry pillars. High strength concrete floors in the draw point area and panel access help to reduce maintenance costs and increase the reliability of the future mine gem operation.

In August, the Redpath team safely assembled the first steel sets in the GBC Extraction panels and completed the outfitting of office areas as well as a workshop/fabrication area. With recruiting and mobilization in July, August achievements also included the review of safety systems and construction methodologies. A strong emphasis was placed on training the new workforce. Systems were also developed to schedule and track the 18+ separate activities that will be taking place at each draw point. The coming months will see the team continue to grow and the targets increase.

Chugach Hydroelectric Access Tunnel Rehabilitation – USA

J.S. Redpath Corporation recently completed the rehabilitation of an access tunnel for Chugach Electric in Wasilla, Alaska. The project consisted of the repairing of the 65-year-old tunnel which was originally completed in 1952. Chugach Electric required the tunnel lining to last another 50 years. The work was completed 28 days ahead of schedule, with the scope of work including:

- The repairing of the existing high wall and tunnel for safe working activity.
- The removal of existing wooden tunnel lagging, the installation of ground support as required and the repair of existing steel sets.
- The placement of tunnel lining using galvanized sheeting, and concrete fill between new sheets and open ground.
- The construction of a new portal structure.



The portal shown before the start of work.



The portal shown after the completion of work.





SAFETY



Dayan Welcomes First Female Miner to Oyu Tolgoi – Mongolia



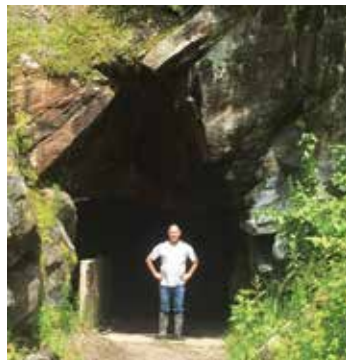
Bujin Sugarbaatar has been working as a successful HSE instructor since 2011 at the Oyu Tolgoi project. She is one of many Mongolian women who greatly contribute to the success of the project by dedicating their talents and efforts to ensure that their fellow colleagues work safely. Even though she is now an underground miner, Bujin will still maintain a close association with the training department to promote a safety culture in mining.



Congratulations to the PTRI Electrical crew who proudly achieved 1,500 safe work days!



An early morning glimpse at the sun peeking it's head over the 4560 shops in North Bay, Ontario.



North Bay proudly welcomed Redpath Australia's Plant Manager, Chris Riethmuller in August. Mobile Shop Manager, Merv Borgford had the pleasure of showing Chris some Northern Ontario highlights; including visiting Sudbury's Big Nickel and taking an ATV trip to the Mica Mine portal near Mattawa.

Left: Chris enjoying the Mica Mine portal.

Right: Chris stands near the Big Nickel.

The Redbore 60 in Chile



The Redbore 60 stands proudly in Chile.

The Redbore 80 On Route to Chile



North Bay, Ontario: A multi-departmental crew stand in front of the loaded Redbore 80 which is headed to Redpath Chilena. This drill is the third Redbore 80 sent to Redpath Chilena in the last 2 years.



Where in the world was...
BRUCE FRASER?

Canada: Red Lake and Sudbury, Ontario.

Manager, Safety Training and Safety Leadership Development *(and roving reporter)*

In August, Bruce conducted some Train-the-Trainer audits in Red Lake and at the Cochenour project as well as a Train-the-Trainer course in Sudbury.



Bruce and Perry Clance motivating the troops during the Sudbury, Ontario course.



Randy Savage (L) reviewing the use of fire extinguishers with Nicholas Thiffault (R) in Sudbury, Ontario.



Bruce (L) and Peggy Cortes (C) thanking Jerry Guillemette (R) in Red Lake, Ontario as he prepares for retirement.



L To R: Gaston Charbonneau, Supervisor, Dan Gray and Kevin Chisholm in Red Lake, Ontario.



Scoop Operator, Yves Bigras, in Red Lake, Ontario.



Raise team, Brian Lalonde (L) and Matt Tarlton (R) in Red Lake, Ontario.



L to R: Michael Hearn, Mathew Hubeny and Brandon Hass in Red Lake, Ontario.



Mechanical Supervisor (L), Pierre Duhamel, and Mechanic, Paul Bullee (R) in Red Lake, Ontario.



Hoist Operator, Shawna Ducharme, in Red Lake, Ontario.

Achievements at Musselwhite Mine in Ontario – Canada



The Musselwhite crew proudly celebrated 1 year with no Lost Time Injuries as of August 15!



Musselwhite achieved a major milestone on Sept 22 by collaring the 5.5 m diameter reaming head of the Material Handling Shaft. The lateral development and construction crews worked with the Raisebore team safely and successfully!



Musselwhite's C-D crew has won back-to-back Safe Worker of the Quarter awards (L to R): Project Manager, Trevor Eagles, Drew Merritt (Q1), Richard Degagne (Q2), and Superintendent, Hector Lalonde.

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Safety - First, Last and Always.

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Gino Furigo (L) receiving his 5 Year Safety Award from Safety Coordinator, Michael Hearn (R), in Red Lake, Ontario.



Kevin O'Shaughnessy (L) and Callum Watts (R) receiving their 5 Year Safety Awards from Safety Coordinator, Michael Hearn, in Red Lake, Ontario.



Alfred Sears (R) receiving his 5 Year Safety Award from Safety Coordinator, Michael Hearn (L), in Red Lake, Ontario.



Duncan Gibson (L) and Jared Lacombe (R), receiving their MRC Training Certificates from Supervisor, Logistics, Brenda Soucy in North Bay, Ontario.



L to R: Mobile Shop Manager, Merv Borgford presenting MRC Training Certificates to Don McCarthy, Jason Jodouin, Jerry Beaulieu, Max Udeschini, and Nathan Houle in North Bay, Ontario



Safety Coordinator, Michael Hearn (R), receiving his Supervisory Common Core U6102 module certificate from Safety/Training Supervisor, Don Duhamel (L) in Red Lake, Ontario.



Pierre Duhamel (L) receiving his Supervisory Common Core U6108 module certificate from Safety Coordinator, Michael Hearn, in Red Lake, Ontario.



Rob Lamy (R) receiving his Supervisory Common Core Certificate of Completion from Safety/Training Coordinator, Kaitlin Elliott (L) in Kirkland Lake, Ontario.



Ghislain (Jesse) Lefrancois receiving his Supervisory Common Core Certificate of Completion at his home in Ontario.