

Message from the General Manager

Mike Bonneau

Well, the summer and fall seasons have come and gone and we are well into winter. With the IsaMill and main dam construction projects this year and our normal production, we had quite the flurry of activities and events in the third quarter!



In the past three years, the operation has twice achieved in excess of one million hours, which demonstrates the effort and commitment of the workforce to maintain a safe workplace. We achieved 1,454,175 man-hours at the end of third quarter without a loss time incident. We did, however, encounter several setbacks in our overall safety performance and now need to refocus our efforts so that we can all perform our jobs in a safe manner. Take the extra time to think before you act. We want "Everyone Going Home Safe and Healthy Every Day."

The IsaMill construction project restarted in April, the foundation and building shell were completed by the end of the quarter, and we're on track to a November completion of the zinc phase of this project. We look forward to bringing the new mills online to better process the fine-grain ore from the Aqqaluk pit.

Overall metal production for the year is on plan. The shipping season ended with the shipment of approximately 1.2 million tonnes of concentrate on 23 ships, and was completed in a safe and very efficient manner. Great job and excellent effort!

We are well into the visiting season with our local villages. Our annual operations updates are off to a great start with a new trade show format that allows for two-way engagement between residents and Red Dog employees. This format has been well-received by the community and our participating employees.

Keep up the great efforts, everyone.

Strengthening friendships with our neighbors

Joe Warner



Christina Clark, Recruiter, and Elder Margaret Sheldon of Shungnak enjoy a visit during the Red Dog annual update in late August.

The people of Kobuk, Ambler, Shungnak, Buckland and Deering all gave positive feedback on the new Red Dog annual update village meeting format. Community members commented that they enjoyed the posters showcasing photos of employees in each department that show what life at the mine is like.

This format reflects the desire for more celebration and participation between Red Dog operations and the communities. Instead of "one-way" presentations of the past by each department, the gatherings this year were full of conversations between community members and Red Dog employees. Members of the communities had plenty of time to ask questions one-on-one and in small groups. The Red Dog team enjoyed having a much better chance to get to know people, too!

Strong relationships are essential to build mutual understanding and to share in the process of development. Red Dog looks forward to growing its relationships with all of the communities in the region and beyond.



Verna Westlake, Community Relations Coordinator, and Fritz Westlake, Community Relations Officer, respond to questions at the Shungnak gathering.

After 20 years, Jim Utley retires

Jim Somers



Jim Utley, Teck Resources Vice President of Human Resources, and Jim Somers, Human Resources Superintendent

After 20 years with Teck, Jim Utley says, "It's time for a change and to give someone else a chance." Jim visited Red Dog from the Vancouver office at the end of July for the last time in his position as Teck Resources Vice President of Human Resources.

Jim spoke of his passion for employee well-being and development and led the way for the Competency Development program throughout Teck with the focus on "Building Strength through People." This theme has more recently been regenerated to our current "Building Strength with People" format. Jim has been instrumental in the build-up of our health and wellness program at Red Dog, which features our onsite wellness/fitness counselor.

Thank you, Jim, for your support and dedication to employee development and well-being here at Red Dog. May you find continued success and enjoyment in your retirement.

Trauma Team works hard to keep you safe

Nicole Baker

Beep! Beep! Beep! Whether it's the middle of the night, the middle of the mill, or the middle of break time, when my Trauma Team pager goes off, a rush of adrenaline overcomes me. Running towards the clinic, I can't help but feel an immense amount of anticipation, urgency and worry. It could be anyone in an accident or incident. My first thoughts are on my fiancé. What would I ever do without him? I say a little prayer and realize it could be anyone's fiancé, relative, friend or co-worker. Thankfully, I have never had to deal with a fatality, a lost limb or anything really traumatic. The goal of the Occupational Health and Safety Committee (OHSC) is to prevent anything unsafe from happening; we still have yet to meet our goal of zero incidents.

Red Dog is our home. Most of us spend at least half of the calendar year here. We get to know one another and subconsciously become somewhat of a family. Once I realized this, I couldn't imagine seeing anyone get hurt, let alone losing someone. That feeling pushed me to join the OHSC to help the team in doing my best to prevent unsafe situations and actions. I took it a step further in joining the Red Dog Trauma Team and met an amazing group of people who genuinely care about

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Fun with fitness

Chris Graupe



Dennis Sheldon, Christina Clark, unidentified co-worker, Jim Somers and Ed Chung try to cover themselves during a hail storm.

I first met Chris Newans, Red Dog's employee wellness and fitness trainer, just after his arrival at the mine on March 2, 2011. I was impressed by his energetic manner and firm handshake. We quickly developed a friendship both on the gym floor and in the office as we worked together making decisions on fitness equipment upgrades.

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Drink up: Red Dog's water is cleaner than most bottled

Jeff Clark

While waiting in line for my last charter flight to Red Dog, I couldn't help but notice people with cases of bottled water to be checked as luggage. I was hoping their water would be bumped before my bag of clothing. Seriously, why should we bring water to Red Dog? Our drinking water is good and buying bottled water doesn't ensure you are getting good quality water.

Unlike highly regulated municipal water treatment facilities like Red Dog's, bottled water facilities have very few regulations. A recent study by the Environmental Working Group found that of 188 brands of bottled water they studied, only two provided basic information on the source name, location and purity of their product. Most bottlers don't tell you where the water comes from. Many

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Water Analyte	Red Dog Tap Water	Evian	Arrowhead	Perrier	Unit
pH	7.5	7.2	7.8	5.6	pH units
TDS	136	357	121	475	mg/L
Calcium	27.6	78	20	147	mg/L
Magnesium	12.9	24	3.5	3.4	mg/L
Sodium	2.6	5	12.1	9	mg/L
Potassium	0.5	1	1.4	0.6	mg/L
Bicarbonate	75.8	357	239	390	mg/L
Chloride	3.7	4.5	13.2	21.5	mg/L
Sulfate	46.3	10	4.6	33	mg/L
Nitrate	0.25	3.8	1.2	18	mg/L
Silica	-	13.5	30.6	-	mg/L
Lead	0.94	1.05	-	0.99	ug/L
Arsenic	0.12	1.24	-	0.37	ug/L
Zinc	23	5.3	-	12.8	ug/L

Red Dog Environmental



Mark Witzel Sr., Mechanical Engineer, and the PAA River Construction crew



Tower mills



Less energy, more power: meet the new IsaMill

Mark Witzel

Red Dog ore is fine-grained and requires intense grinding to separate zinc and lead minerals from the silica in the ore. Our regrinding has been done with ten vertical tower mills which have 13mm (½") metal balls for regrinding the ore. These tower mills operate in two circuits. Each circuit's mills operate in parallel.

The IsaMill project replaces seven zinc tower mills with two IsaMills. The IsaMill produces a regrind product which is more consistent and finer than the existing tower mills.

The impressive feature of the IsaMill is the concentration of grinding power in a small volume. Each IsaMill is run with a 2,000 hp motor. The total grinding volume for each of our IsaMills is 3000 liters. This is approximately 1/50 of the volume of the tower mills it replaces. The small size and high power translates to a much higher power intensity of IsaMill of 350/kW/m³ or 17 ½ times greater than the 20/kW/m³ in a tower mill.

Our IsaMills are the M3000 design with 2mm grinding media beads. The 3000 represents the volume of the mill in liters. The mill is selected on several factors. These factors include target grind size and design to flow to the mill. In regards to the media size, the smaller bead has a higher surface area per volume for grinding. For example:

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Living and working together: the value of community

Andrew Merritt



Andrew at fish rack in Shungnak

In late August, I was able to break from my normal Red Dog work schedule and visit the villages of Kobuk and Shungnak. Co-workers told me how great it was to go into the villages and share experiences at the mine and visit with the regional communities. I was excited about the trip. They also told me how fortunate I was to be able to have this experience so

soon after starting at Red Dog. I am new in the mill technical department and know how we separate zinc and lead minerals from the rest of the material coming out of the mine, but I was still a little nervous about speaking in the villages.

I am grateful I saw a few of the communities where our local employees are from. I learned a lot about the tight community in which they were raised. Being from a suburban area in the Lower 48, it was nice to see how smaller communities worked together so much. That's one thing I wasn't able to experience growing up. Sure there were plenty of "work-together" activities we did as children, but not nearly to the same extent I saw in these communities. It was beautiful to see how closely everyone lived and worked together.

Taking this experience back to Red Dog, I am glad to be part of a community where people live and work together as closely as they do in the villages.

Sketches

Patrick Race, Red Dog visitor

Mike Gonzales, Operating Engineer,
describing the milling process



Main pit

Fun with fitness (continued from page 2)



Scott Collier, Hui Li, Bart Warren and Brian Hall

I've attended several of the informative wellness program talks about nutrition and weight control. We tested my cholesterol levels and vitals and began to work up an exercise program and set some goals.

I attended the April 30th opening night "boot camp" style exercise event and have enjoyed numerous group workouts since. He is a motivating leader and will challenge your comfort level to get you on track to achieve personal fitness goals.

We are currently sifting through details and suggestions in an effort to convert the old smoking recreation room into a wellness/fitness room. We have every intention of seeing this highly beneficial project completed before year's end.

Less energy, more power: meet the new IsaMill (continued from page 3)

- A typical ball mill with 20 mm (¾") balls has 120 m²/m³ of surface area
- A tower mill with 13 mm (½") balls has 200 m²/m³ of surface area
- The IsaMill with 1 mm (0.004") media has 3,600 m²/m³ of surface area

Test work and evaluations for the IsaMill began in 2005. Brigitte Lacouture, Chief Metallurgist was a driving force for evaluation of the IsaMill. The Zinc IsaMill project began in 2007 and the detailed design began in 2008 but was put on hold due to the world financial crisis. The project restarted in the summer of 2010 with the civil foundation work. Construction stopped for the winter season and restarted in April, 2011.

The foundation, steel erection, and building shell were completed by the end of September, 2011. All piping and equipment; electrical; instrumentation; heating, ventilation and air conditioning (HVAC); and fire protection are in progress. These activities will be done in November, 2011, completing the zinc phase of the project.

The IsaMill requires less power than the tower mills to operate and will operate in a more efficient manner on a per pound basis as well as reduce man-hours for mill overhauls.

We have achieved several milestones and many highlights of this project. We extend our gratitude and congratulations to PAA River Construction for executing the civil work in a safe manner.

Preliminary engineering for the lead phase of the project is planned to begin in 2012.

The IsaMill is a trademark for the Xstrata/Netzsch bead mill.

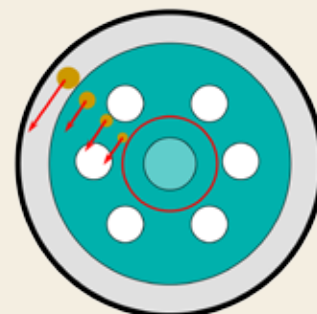


Tower mill - grinding energy imparted through the stirrer

A slow mill: 2 - 10 m/s

Media too big for fine grinding range: > 8 mm

The basic design differences between a tower mill and the IsaMill are provided in these figures.



Horizontal bead mills - IsaMills

A fast mill: 10 - 23 m/s

Wide media range: 1 - 8 mm, different SGs



Tower mills



Horizontal bead mill

Grow with us: opportunities at Red Dog

Christina Clark

Red Dog Operations continues to successfully develop and integrate a local workforce. More than half of the mine's employees are from the northwest region.

We provide job opportunities in environmental, geology, mine operations, mill operations, millwright maintenance, heavy equipment maintenance, materials management/warehouse and administration.

Red Dog apprenticeship programs include industrial millwrights, electrical and instrumentation, powerhouse mechanics/operators and heavy equipment mechanics. Our primary focus and needs are in mining and mill operations, maintenance, administration and professional positions. Red Dog is continually accepting applications for mill operations and mine operations.

Mill ops require workers with technical and maintenance skills. These employees oversee the crushing, grinding, flotation, dewatering and concentrating procedures. Jobs

range from control room operators to chemical analysts to laborers. Mine ops work in open pit mining which includes surveying, operating heavy equipment and casual labor.

Red Dog employment ranges from highly skilled technical positions to semi-skilled and unskilled positions. Everyone who works at Red Dog Operations must meet our minimum qualifications. These include a minimum age of 18 years and a high school diploma or GED. Red Dog has a zero tolerance policy for drugs and alcohol and a pre-employment medical examination and drug screen is administered. Potential employees must have a willingness to learn and grow as a productive member of the Red Dog team. Depending on the various department needs, positions here work 10 to 11.5 hour days, two weeks onsite and one week offsite or four weeks onsite and two weeks offsite.

For current opportunities please give us a call at 907-426-9291 or e-mail us at rdjobs@teck.com

Hoop dreams: region youth compete in NBA program

In March of 2011, nine students from the region traveled to Portland, Oregon, to represent the first group chosen for Teck's student incentive program using the National Basketball Association (NBA) as a reward for outstanding performance in school and the community.

In phase II, the students journeyed to San Ramon, California for the Golden State Warriors High Potential Basketball camp from August 6-14. The camp was both a fun and exciting opportunity as well as presenting the athletes with a level of competition they would not normally see in the state of Alaska. It was also a great platform for them to showcase their talents to several college coaches from the area at all levels of competition.

The students participated in basketball activities from 9:00 a.m. to 3:00 p.m. daily and visited several different areas of northern California each evening, highlighted by a tour of the University of California at Berkeley, one of the top West Coast state universities.

They also enjoyed visiting downtown San Francisco (Embarcadero and Pier 39 areas), experiencing the Bay Area Rapid Transit (BART) system, attending a BBQ/pool party in Sacramento, riding roller coasters at Six Flags Discovery



Colton Jessup (left) works on his one-on-one skills.

Kingdom theme park in Vallejo, and eating at a food truck gathering in Berkeley.

These activities and events were a first for most of our students, so a great time was had by all. Overall, the trip was an exciting opportunity for the athletes to showcase their basketball skills, along with having a great time in an area of the country none of them had visited before.

Red Dog 2011 Olympics

Lorraine Ambrosio

Red Dog 2011 Olympic Team Champion for the second year in a row is the mine team – The Bomb Squad. WAY TO GO, BOMB SQUAD!

Events included basketball, volleyball, golf, Red Dog Rally, softball, Eskimo games and more. The Bomb Squad accumulated 158 ½ points this year. 2nd place went to The Krunch Bunch, followed by The Smooth Operators and Soup-A-Stars, with the Miracle Workers in 5th place.

From September 8-27th, all Teck, NMS, Nana/Lynden and all contractors and guests were encouraged to participate in the 16 events.

Medals and \$20 cash prize for 1st place were awarded for each event. Points were awarded for 1st through 5th place and those participants who placed 6th and up earned a point for participating.

All Teck, NMS and NANA/Lynden employees were eligible for one entry in the drawing for two Alaska Airline tickets. This year's winner was Matthew Clark II, a member of the Materials Management group. Congratulations to Matt!



1st and 2nd place teams proudly showing off their medals

A big thank you goes out to the event organizers, Chris Newans, Ted Zigarlick, Jeff Clark, Carrie Porter, Russell Hanna, Tim Jones, Bob Chandler, Nancy Tracy, Otto Kraus IV, Sonya Adams, Neil Christensen, Joanne Bozek, Dennis Sheldon and Jim Swendseid. It couldn't have been done without their help.

Idea generation sessions solve issues

Ed Chung

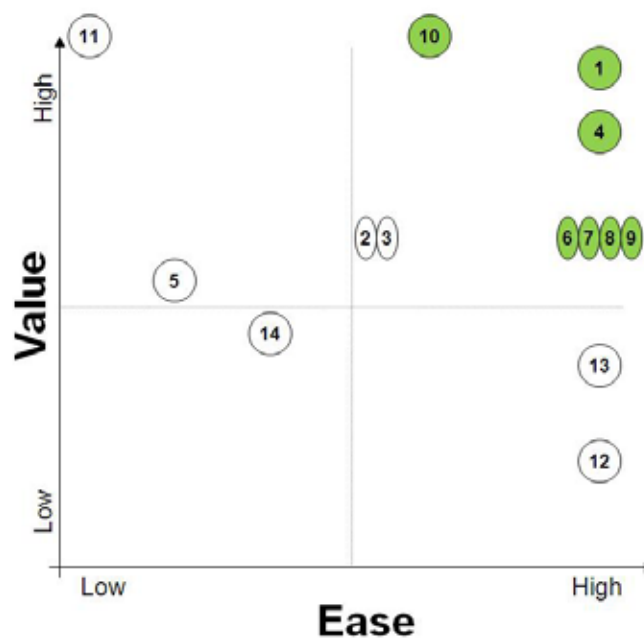
Data analysis revealed that in the week after a ball mill 4 reline, average mill feed was reduced by 40 tonnes per hour.

This loss is worth \$1.4 million!

An idea generating session (IGS) was held to develop ideas to minimize post-reline production loss. An IGS is a structured brainstorming session with key stakeholders involved. The problem or issue is defined prior to meeting and the scope is narrow enough so that good ideas can resolve it.

The IGS lasts about an hour and is an excellent method of receiving input from stakeholders about how to resolve the problem and involves the "right" mix of experts, users and decision makers. The last 10-20 minutes are spent systematically placing the ideas on a value-ease chart by assigning a number to each idea and placing it based on the value and the ease or difficulty of achieving implementation.

We want to pursue the ideas that are closest to the top right corner because these ideas would be the easiest to implement, yet they return the highest operational benefit.



Usually the "best" ideas are simple procedural modifications that require little to no capital. You know your area better than anyone, so if you have an idea that can benefit Red Dog and your workplace, please contact a Building Excellence at Red Dog (BEAR) team member for further discussion.

Trauma Team works hard to keep you safe (continued from page 2)

Red Dog workers' health and safety. We are all familiar with the ripple effect as presented in "Courageous Safety Leadership." Many people are affected when one person is hurt.

Many of our employees make a relentless effort to support the vision of "Everyone Going Home Safe and Healthy Every Day". However, our preventative efforts, safety meetings and safety programs can only go so far. It's up to each one of us to keep ourselves safe and to keep in mind the safety of our co-workers. We have all been imbedded with the

concept of right or wrong and safe or unsafe. It is what you do when no one is watching that can make the difference between life and death. It is how courageous we are when we see unsafe acts and have the heart to bring it up that makes that difference. After all, the majority of all incidents are due to unsafe acts rather than unsafe conditions.

We urge you to keep safety as a core value at work and at home. Be safe for your family, friends, co-workers, the Trauma Team, OHSC and, at the very least, please be safe for me.

Drink Up: Red Dog's water is cleaner than most bottled (continued from page 3)

companies bottle municipal water sources and sell it to consumers for highly inflated prices. Some companies have many sources for their water, like Arrowhead, with 27 different water sources.

The table on page 3 shows how Red Dog tap water compares with several popular bottled water brands.

Some people have said they bring bottled water to Red Dog because our water has a chlorine smell or taste. Red Dog is required by state law to add chlorine to the water because it comes from a surface water source. Yes, some people are more sensitive to the taste of chlorine, but it can be easily removed with an activated carbon filter such as a Brita filter.

Americans use enough water bottles in a day to almost encircle the world with empty plastic water bottles. Use a refillable water bottle. Red Dog recently added a bottle refilling station on the second floor of the Mine PAC (personal accommodation center) which is equipped with an activated charcoal filter to remove chlorine.

Did you ever consider the chemicals that enter the bottled water from the plastic bottle? Some plastics contain solvents that can leach from the plastic and get into your water. The Canadian government and some European governments have banned the use of polycarbonate plastic for water containers because of a harmful chemical which can leach from the plastic. Did you also know that drugs that people take end up in drinking water in areas of the Lower 48? Rest assured, Red Dog's drinking water has been shown to be free of harmful organic chemicals found in many bottled waters!



Rebecca Hager, Environmental Coordinator, at filtered water fountain

The last good reason I have for leaving your bottled water on the store shelf is the cost of flying it to Red Dog. It costs \$1.07 a pound to ship water from Anchorage to Red Dog. That's about \$0.78 for a twelve oz. bottle.

Bottom line: leave the bottled water in Anchorage. Use your own container and refill it with wilderness water from Red Dog!



Mine Department - Darold Sun, Josh Luther, Phil McCue



Mill Control Room - Andy Sheldon

NBA Camp



Brianna Kirk and the rest of the team getting coached



Back L to R: Colton Jessup (Kotzebue), Timothy Cleveland (Ambler), Robin Commack (Selawik), Brianna Kirk (Noatak), Sabrina Barger (Kivalina)
Front L to R: Christian Schuerch (Kiana), Tinmiaq Hailstone (Noorvik), Laura Smith (Selawik)

Aurora over Red Dog living facilities by Randy Lewallen



Humming bird by Randy Lewallen

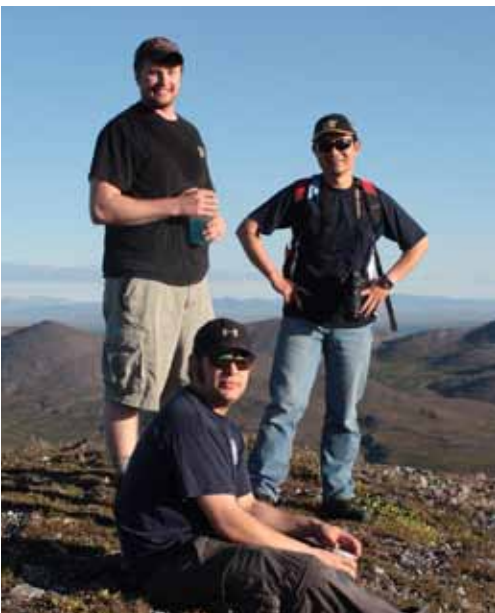


Mike Bonneau, General Manager, serving dinner at a village meeting



Nancy Tracy, Mine Engineer, interacting with community members at Kobuk village meeting

Fourth of July



Hikers Brian Hall, Hui Li and Otto Kraus



Red Dog Olympics



Red Dog Olympics



Red Dog Olympics - Mikki Foster



Red Dog Olympics



Red Dog Olympics

How to deal with caribou on the Port Road



Caribou have the right of way as they migrate across the Port Road.

Caribou are migrating across the Port Road and have the right-of-way. If a vehicle operator observes caribou heading toward or crossing the Port Road, he/she must not proceed any farther until the last caribou is a fair distance away from the road. Often times, several vehicles headed in both directions can be lined up for hours waiting on the caribou.

A Port Road Caribou Card must be filled out and turned in to the Environmental Department.

Remember, please be patient with the caribou.

Port Road Caribou Card

- Ø This card is to be filled out whenever vehicles are stopped for more than 15 minutes on the Port Road due to caribou crossing the road.
- Ø The first vehicle that stops for the caribou crossing fills out the card.

Name: _____

Date: _____

Vehicle #: _____

Location (mile marker): _____

Time closure started: _____ AM PM

Time road reopened: _____ AM PM

Number of vehicles stopped

Concentrate Trucks: _____

Other: _____

Estimated Number of caribou (check one):

1-50 50-200 200-500 500-1,000

1,000-2,000 More Than 2,000

Caribou's Direction of Travel:

Toward the Noatak side of road

Toward the Kivalina side of road

Did road traffic impact or change herd movement?

Yes No

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Suvisi (Sü-ví-see) in the
Iñupiaq language means:
"What are you people doing?"

Join our mailing list.

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www.reddogalaska.com/subscribe

Text-to-Join

Red Dog Newsletter

Text
REDDOGMINE
to **22828** to get started.



Message and data rates may apply.

Thank you, Red Dog workers, for your contribution to the newsletter.
If you would like to submit a topic or an article about your work or life at Red Dog,
please submit your ideas or drafts to Verna Westlake, Managing Editor,
at verna.westlake@teck.com or phone ext. 4189, or CommunityRelationsRDOG@teck.com.