

# Red Dog - Suvisi

*"What are we doing at Red Dog?"*

## Aqqaluk - We Have Started!

Jim Kulas

Just hours after the May 20 announcement to proceed, the boys and girls with the big yellow toys [trucks] were crossing the creek and heading to the top of the Aqqaluk Deposit.

The first order of business was to install a silt fence and ditches to control runoff. Simultaneously, organic soils were removed for later revegetation use and a haul road to the top of the deposit was started. On June 8, an outcrop of rock was blasted to provide road material. Although small in size, the shot was huge in its representation that mining was underway. Like excited parents, many employees were there to witness a celebration akin to launching the space shuttle.

Now mining is well underway, but because of the delayed start, we are behind schedule. In order to catch up, three trucks, a loader and a drill that were scheduled to be replaced with new equipment will be retained to fortify the fleet.

It is necessary to mine over two million tonnes of Aqqaluk



*Miners watch and wait for Chris Martin to initiate the historic first blast.*

waste in six months and this is a very tall order. In October we will encounter the first ore and by the end of the year, roughly 50,000 tonnes will be mined (only five days of mill feed).

In 2011 and 2012, two-thirds of the ore will come from Aqqaluk and by 2012 the Main Deposit will be gone. However, with over 52 million tons of Aqqaluk ore ahead of us the future looks bright!

### FROM THE General Manager

Mike Bonneau



On May 20, Teck announced its decision to start mining Aqqaluk. What a relief to our workforce and their families.

NANA, Teck and our numerous benefactors now have certainty and another 20 years to look forward to.

Once again, I want to thank everyone for being so understanding and supportive as we worked toward the decision.

It is going to be a busy summer at the Dog. In addition to Aqqaluk, we have major construction planned on several projects.

There will be work on the Main Dam and Back Dam, construction will start on the ISA mills and a large exploration and Aqqaluk drilling program.

We expect that Red Dog will be the busiest it has been since its construction in 1988. All this work means there will be many contractors working at Red Dog. It will be very important for the Red Dog "regulars" to support and guide these individuals to meet our goal of "everyone going home safe and healthy every day".

Enjoy this edition of *Suvisi* and have a safe and great summer.



*Aqqaluk first blast on June 8, 2010 at 12:14 p.m. Although small in size, the shot was huge in its representation that mining was underway.*

## Farewell, Cecil - Live Large!

Jim Kulas

Over its life, Red Dog has felt the loss of many good people that have moved on for one reason or another. This happened in June when our good friend **Cecil Taylor** resigned to pursue another opportunity. In 1989, Cecil hired on as a mill operator trainee. This kid from Kotzebue caught on quick and in rapid fashion progressed to mill supervisor. Midway through his 21-year career, he transferred to become our spill chief and ultimately the Loss Control Coordinator.

In his personal life he is the master at living large, an avid outdoorsman who loves snowmobiling, hunting and fishing. Always on a relentless pursuit of "more stuff", he has taken to heart the saying "he who dies with the most toys wins". Nevertheless, Cecil values people and establishes great personal relationships with everyone he meets. So, with sadness, we bid him goodbye but with enthusiasm we wish him well in his new career!



## "Get Busy Living..."

Jim Duchanin

You may have noticed a buzz about "wellness" here at Red Dog. We are increasing our focus on our workforce living healthier and happier lives. Our employees participated in a wellness survey telling us what their desires or needs are to become healthier. The program will be shaped based on the information we received. We will be forming a committee of wellness champions who have a passion for living healthy.

With rising costs of health care, companies are focusing on ways to contain these costs and create happier, healthier employees. We recognize that it's a win-win situation for our employees and the company.

Mining the new Aqqaluk ore body means Red Dog Mine will be here another 20 years. It is our hope that we will be here also, "going home safe and healthy every day"!

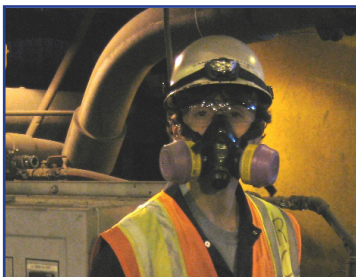


Jim Duchanin, Wellness Champion

**Editor's Note:** *Jim Duchanin is a Physician Assistant at Red Dog Mine medical clinic and has worked here since 2001. In hopes to motivate others, he shares his story:* Jim has lost 48 pounds in the last three years. "I didn't like the way I felt, my blood pressure was high, I was short of breath with exercise, my joints hurt and I wasn't sleeping well. I had to decide to "get busy living or get busy dying", he says with a smile as he uses a favorite quote from the movie 'Shawshank Redemption'. Jim has always been active in a variety of sports and outdoor activities including hiking, biking, sailing, running, and judo, "it just becomes harder to do when you're not in shape" he says. As a Wellness Champion, Jim encourages others to 'get busy living', "you just have to win the battle in your mind and once it becomes a lifestyle, you're not happy when you're NOT doing it!"

## Great Teamwork, Great Output

Joe Neumann



Randy Lewallen, Mechanical Engineer

Red Dog Mine needs many pieces of equipment to move material through the plant for constant production of zinc concentrate. The biggest grinding mills are critical to production, but even the smallest system can have a huge impact on the final tonnage. A small but critical system is flocculant delivery. Flocculant is used to thicken slurry before dewatering the final product. The demanded rate cannot be met without this essential chemical.

There was a problem with the pumps overheating. It was presumed that the lines were plugged. **Randy Lewallen**, mechanical engineer analyzed the problem and found the pumps were not designed for the flow required. Randy and **Scott Sims**, operating engineer, reviewed the typical operating ranges and selected the required pump and motor that would keep flocculant flowing

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## Edwin's "Steady" 20 Years

Robert Mercurief

**Edwin "Steady Eddie" Douglas** was first employed with Ensearch construction building the port road in 1987 and 1988 and then hired on with Osborne construction to help build the concentration storage building. Edwin hired on with then Cominco on October 17, 1989 as a Surface operator III and worked his way to a journeyman operator in two short years.



*Edwin at his 20 year award ceremony.*

In October, 2009, Edwin received his 20<sup>th</sup> year sticker of "No LTI's" (Lost Time Incidents) on the job. He is well on his way to achieving his 21<sup>st</sup> year with zero LTI's.

Edwin has done many things over his career at Red Dog; he has been a relief supervisor, a lead operator,

loaded out concentrate, unloaded freight barges and airplanes, maintained the port road, and has amassed over seven thousand hours on six different types of equipment.

The most remarkable thing about Edwin is that he has not had any LTI's, no medical aids, no injuries and only one incident that was considered operator error. How did he do it, you ask? Edwin says, "if I don't know how to do something I always ask someone who knows how". Once he knew how to perform a task, he asks himself "how do I do this safely? It is that simple", he says. "Think before you do anything". Edwin said that the property is definitely a safer place today than in 1989; Red Dog is on the right track!

Edwin is an excellent example of one who follows our vision of "everyone going home safe and healthy every day".

Thank You, Edwin for all your efforts and continue to be an example of safe behavior for us all.

## "Hitting" the River

Charlie Rosenthal

**Joe Smith** is 'gone fishing'. On June 30th, after 17 years at Red Dog, he boarded the outbound jet for the last time. Joe retired from his position as a Level 6 millwright for Teck Alaska. He was also a member of the Red Dog fire department and the Occupational Health & Safety Committee. Joe is an avid fly fisherman and will be spending a great deal of his time 'hitting' the rivers of Alaska and traveling. We thank him for his years of service at Red Dog and wish him a fulfilling and happy retirement!



### Great Teamwork

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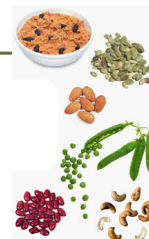
more often. Randy designed some changes to the layout of the pipes and pumps to allow more ergonomic access for those working on them.

Mechanics, **Mike Maner** and **Byron Mandregan** took the pump and pipe designs and made the needed modifications in the field. To support the new layout, **Jim Stewart** in process control, designed a local control panel with displays that electrician **Randy Grimland** installed.

The pumps were replaced in October 2009, and the pump layout was relocated by April of 2010. Results have been above target for the last few months. During the summer of 2009, the problem cost Red Dog about \$1.6 million in lost production. Since the team's modification, production has been impacted less than half as much with no impacts in the last three months. This is just one small modification that has greatly increased output, thanks to great teamwork!

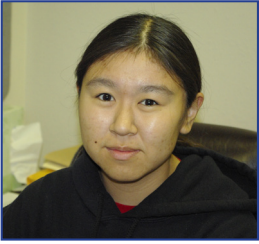
### Zinc and Foods

*Zinc is naturally present in foods, such as meat, poultry, dairy products, beans, whole grains and nuts are rich in zinc.*



## Geared Up for Summer

Josie Coppock



Marissa Atoruk

Summer months are fun and exciting times for Red Dog recruiters. NANA shareholders like **Ryan Berry** from the village of Selawik is a good example of those who prefer to work on a seasonal basis because it helps him to be more financially stable during the winter months.

The demand for an increase in manpower comes from many activities, one being mining of Aqqaluk ore deposit. Increasing employment demands also come from the need for water discharge, the mill, shipping season demands, and new exploration efforts.



Kris Garoutte

We are also thankful to provide employment to NANA's younger generation, most of whom are pursuing post secondary education. We have placed 14 college and vocational students of which 3 are being employed as interns.

The Geology department is happy to welcome University of Alaska, Fairbanks Geology student **Kristine Garoutte** to their team; the Human Resources department is pleased to welcome Fort Lewis College Business Administration Management student **Rebekah Tabor**; and the Community Relations department is happy to welcome University of Alaska, Fairbanks sophomore student **Marissa Atoruk** to their team.



Rebekah Tabor

Our hope is that both the students and the summer seasonal workers leave Red Dog with newly developed skills and an appreciation for the employment opportunity. We need seasonal workers for their valued experience and we also need to continue to work towards engaging shareholder students to return after receiving training whether it be a college degree or a trade certificate.

With the opening of the Aqqaluk deposit, the next 20 years of mine life has provided us with a great opportunity to develop more NANA shareholders for possible positions at the management level.

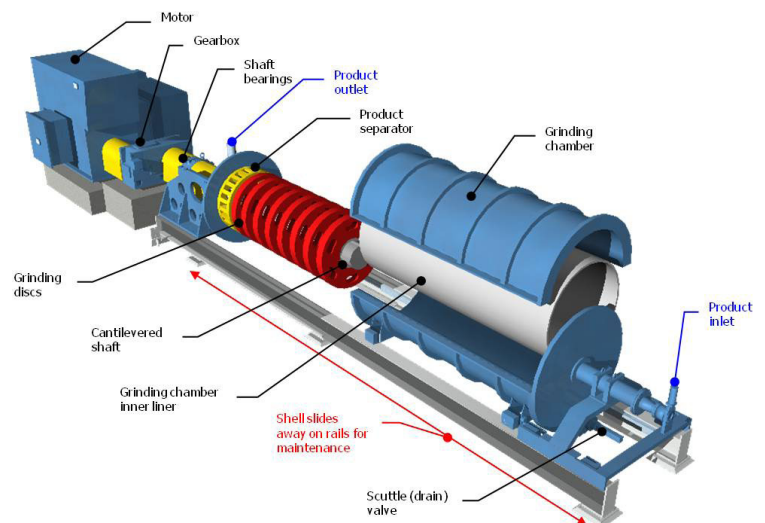
## Regrinding Efficiently and Effectively

Todd Smith

Red Dog ore is fine grained requiring intense grinding to separate the zinc and lead minerals from the silica in the ore. This has been done by regrinding with ten tower mills as the third stage of grinding. The first stage of the IsaMill Project involves replacing seven tower mills with two IsaMills, which are a higher intensity, more energy efficient regrinding technology. An IsaMill grinds the ore with very small inert ceramic beads which are stirred by rubber lined, high speed rotating discs. In addition to the finer grind, flotation is improved by using the inert ceramic media instead of the steel balls in the tower mills.

The current project timeline is to complete the foundation for the new IsaMill building this summer. The project will then resume in spring 2011 with the construction of the building and the completion of the equipment installations. The project cost was estimated at \$40 million when initiated in 2008, and now that the project has been re-started we plan to commission the IsaMills late in 2011.

We are also developing plans for a second stage project where the remaining 3 tower mills would be replaced by a third IsaMill in 2012.



## Courageous Leadership

Sean Forrester

In May of 2009, Red Dog introduced a new cultural based training philosophy called Courageous Leadership, a corporate wide initiative led by Don Lindsay, President and CEO of Teck. He challenged every employee to become a courageous leader. Courageous Leadership training includes ALL employees working on the property.

Courageous Leadership focuses on values, beliefs, attitude, challenges, and the courage to make a commitment to safety for oneself as well as for the safety for others. Commitment is vital and without it, an individual won't become the leader he/she should be. Courageous Leadership teaches that safety is not a priority; it must be a core value because values remain the same while priorities can change.

As a Red Dog employee for 13 years, I've seen many trends in safety come and go. When first introduced to Courageous Leadership, I knew instantly that it was something that I wanted to be involved with due to the fact that it dealt with the person and not just focused on policies and procedures. I decided to commit to learning this philosophy as well as gain skills needed to facilitate and instruct others. I knew immediately after the first class I facilitated that my passion



*Sean Forrester, Loss Control Safety & Training Officer*

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## Spring Cleaning

Joe Diehl

Red Dog's annual spring cleanup was held on June 6. Our focus is on cleaning up trash and debris accumulated in the outlying areas during the winter months. Each department is responsible for their areas, yet some debris gets picked up by wind and blows out into the nearby tundra. That's where we call for employee volunteers.

Cleanup efforts started at 7:30 A.M with twenty ready and willing volunteers! The afternoon session started at 1:15 P.M. with fourteen volunteers. The surface crew operated the bus for transportation, water and snack delivery provided by NANA Management Services (NMS). Surface crew collected the bags of trash and properly disposed of them.

While volunteers were collecting trash on the tundra, departments were busy cleaning up their work areas. Operations and maintenance groups cleaned around the mill and service complexes, in the pit, and the mine waste dumps. Materials management dedicated employees to the cold storage areas, and NMS cleaned up around the PAC.

Several people participating in this year's cleanup have participated in previous years. The sentiment was unanimous, with each year; we are seeing less trash accumulate around the property. This means we are doing much better at managing trash throughout the operation.

**Let's keep up the great work!**



*Spring clean up employee volunteers, clockwise - Ryan Berry, Jim Somers and Anna Lee.*

## Courageous Leadership

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and commitment could and would not be questioned. I did this for myself, my own family, and everyone within my Red Dog family.

We now have a dedicated team of facilitators who strongly believe this is what it will take in achieving "Everyone Going Home Safe & Healthy Everyday". We have all chosen to make this commitment by helping deliver that message. Our rewards include participants who thank us and tell us that this is what we need to achieve zero incidents. We can visibly see the impact and the difference that Courageous Leadership has made amongst the workforce.

A great thing about the Courageous Leadership philosophy is that you can take it and apply it to any aspect of your life, whether you're at work or home. If you can commit to adhering to these few basic principles, you already have it in you to becoming a Courageous Leader. Courageous Leadership isn't just a process that will take time. When it comes to safety, it has to start now. It begins with you and me. It takes everyone accepting the responsibility of leadership.

With the inception of Courageous Leadership, we are making a shift in creating a culture of safety and at the same time we are pushing out the old negative culture. We here at Red Dog hope that these principles are ones that you can use in your own journey to becoming a Courageous Leader in your everyday life.



In 1968, Bob Baker, a bush pilot and prospector from Kotzebue

noticed a distinctive rusty coloring in the creek that is now known as Red Dog Creek. Baker brought it to the attention of U.S. Geological Survey (USGS). Rock samples indicated significant zinc and lead mineralization. Seven years later, the Bureau of Mines confirmed that the site contained a substantial deposit. From that time until 2008, Red Dog Mine was the largest zinc mine in the world.

Baker named the deposit Red Dog after his Irish Setter named "O'Malley" who often flew with him in the Arctic.



Red Dog Mine  
Teck Alaska Incorporated  
3105 Lakeshore Drive  
Building A, Suite 101  
Anchorage, AK 99517

Phone Number: 907-426-2170

Email: [redog.info@teck.com](mailto:redog.info@teck.com)

Website: [www.reddogalaska.com](http://www.reddogalaska.com)