



Yukon Zinc Corporation is a privately owned mining, exploration and development company based in Vancouver, Canada. YZC's Wolverine Mine will produce copper, lead and zinc concentrates. It is located in the south-eastern Yukon near the headwaters of the Wolverine Lake watershed within the Kaska Nation traditional territory. Site access is via air or a 26 km long all season access road that connects with the Robert Campbell Highway at km 190. The main industrial complex buildings include a process plant, crusher, concentrate load-out, 246 man camp, and offices. Other infrastructure includes the temporary waste rock pad, tailings facility, airstrip, access road, power plant and fuel facilities.

Environmental Management System

YZC has developed its Environmental Management System (EMS) as per requirements of issued licences and permits and industry best management practices and is comprised of YZC's Environmental Protection and Operating Plans. This *Information Sheet* summarizes YZC's environmental protection and operating plans and provides information on the environmental monitoring programs.

Environmental Protection Plans

- Waste Management Plan
- Monitoring & Surveillance Plan
- Wildlife Protection Plan
- Heritage Resource Protection Plan
- Spill Contingency Plan

Operating Plans

- Mine Development & Operating Plan
- Mill Operating Plan
- Tailings and Infrastructure Design & Construction Plan

Wildlife Protection

In order to ensure that negative impacts to wildlife are prevented, YZC has implemented the following programs:

- Recording wildlife use in the project area
- Spring and summer tailings facility bird surveys
- Winter wildlife tracking totalling 18+ km
- Vegetation and small mammal collection and analysis for metals concentration
- Reporting on an annual basis of findings to the Wildlife Technical Committee



Aquatic Protection

To ensure that activities at the mine are not affecting the aquatic ecosystem, regular sampling is conducted at:

- 18 surface water quality stations
- 11 surface water flow stations
- 24 groundwater quality stations
- 3 sediment quality stations

In addition, monitoring of effluent discharge is conducted daily when the water treatment plant is discharging, and fish and benthic invertebrate sampling will be conducted according to metal mining effluent regulations.

Underground monitoring is conducted to refine the mine water quality model and includes sampling of groundwater quality, leachate, humidity cells, and paste backfill.

In 2009, 100% Compliance Achieved:

- 81 Final Reports and Notifications submitted
- 234 Monitoring and Construction Reports prepared
- Sampling and metal analyses:
 - 620 sets of water samples
 - 400 small mammals
 - 50+ vegetation
- Wildlife: 23 species of wildlife recorded; 18+ km of tracking completed in winter months



Environmental Technician, Jaymie Skidmore, measuring water flow



Environmental Management System

Tailings Facility

The tailings facility includes a dam and impoundment, reclaim and discharge pipelines, and a seepage collection dam. To ensure that the facility performs according to design, the following activities are conducted:

- Weekly routine dam inspections
- Monthly water and tailings flow measurements
- Monthly instrumentation monitoring
- Annual inspection of the facility infrastructure
- Annual surveys to calculate water balance and storage volumes
- Engineering inspections following unusual events (e.g., earthquake)
- Comprehensive review every 7 years & prior to decommissioning

Spill Reporting

In the event of accidental release of a substance at the mine, such as diesel fuel, procedures have been established to ensure that all necessary steps are taken to minimize safety and health issues for employees and to prevent environmental degradation, including:

- Routine maintenance and inspections to minimize spills
- Efficient and effective spill response, cleanup, remediation, and reporting

In July 2010, YZC Wolverine hired Matt Kawei in the role of Environmental Superintendent to oversee all environmental compliance and response activities at the mine. Matt brings extensive environmental management experience in mine operations, most recently as Environmental Site Manager with First Coal Corporation, near Chetwynd, BC. Matt is supported onsite by two Environmental Coordinators and an Environmental Technician.



Matt Kawei, Environmental Superintendent



Weather Monitoring

For the purpose of integrating information into monitoring data, every 10 minutes a weather station records:

- Wind velocity and direction
- Temperature
- Precipitation
- Relative humidity
- Solar radiation
- Barometric pressure

Snowpack manual measurements are conducted monthly from March through May.

Waste Management

Inspections of the landfill facility and storage locations are conducted routinely to ensure that employee health is maintained. All wastes are disposed of via incineration, in the landfill, or shipped off site for recycling, and special wastes are tracked and transported according to regulations.

Heritage Resource Protection

Protection of heritage resources was incorporated into mine planning and if any historic objects and human remains are encountered the following procedures are adhered to:

1. Stop work immediately
2. Notify a YZC Manager of Environmental Coordinator
3. Avoid Disturbing the site

Awareness training is delivered to all staff.

Documentation and Reporting

Monthly and annual reports that summarize the EMS include:

- Monthly Surveillance Network Monitoring Reports sent to Yukon Water Board, Environment Yukon, Ross River Dena Council and Liard First Nation
- All plans described herein and annual reports for Quartz Mining Licence-0006 can be found at:

<http://www.emr.gov.yk.ca/mining/wolverine.html>

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