



# PRAIRIE CREEK MINE

## PROJECT DESCRIPTION



# CANADIAN ZINC CORPORATION

President and CEO – John Kearney

Here today:

COO and VP Exploration – Alan Taylor

VP Environment and Permitting – Dave Harpley

Manager of Northern Development – Wilbert Antoine

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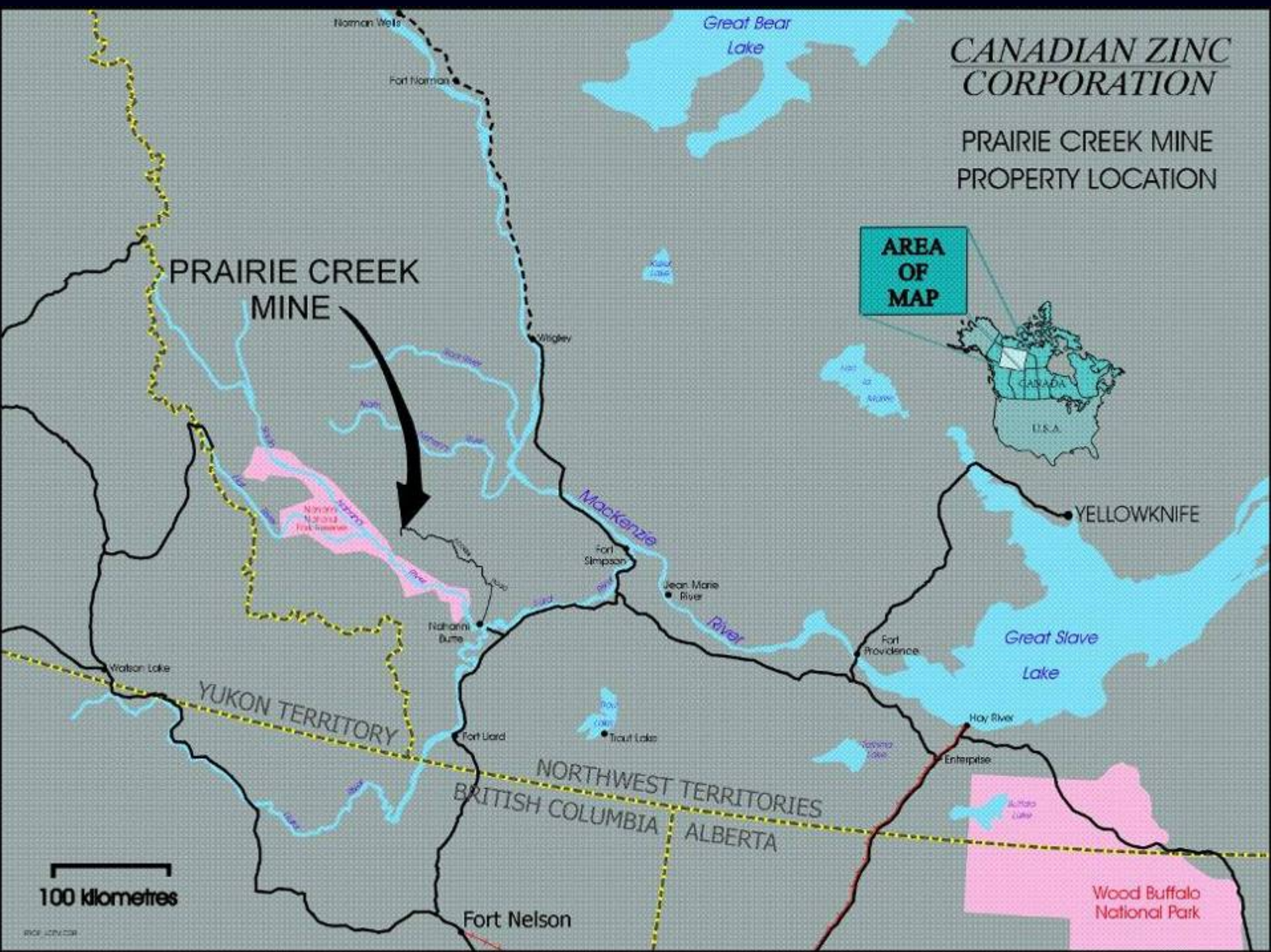
<http://www.canadianzinc.com>





# CANADIAN ZINC CORPORATION

## PRAIRIE CREEK MINE PROPERTY LOCATION



AREA OF MAP



PRAIRIE CREEK MINE

100 kilometres





# The Prairie Creek Mine





# Prairie Creek History



Prairie Creek Camp: 1968

- **Original discovery in 1928**
- **Discovery of Main Zone in 1960's and establishment of camp**
- **Underground development of main zone 1960'-70's.**
- **Cadillac Exploration 1979-1982, minesite infrastructure setup, road to Liard established, fully permitted**
- **April 1982, silver price collapse, Cadillac bankrupt 3 months from production**
- **1993 San Andreas acquires Prairie Creek**
- **1999 San Andreas name change to Canadian Zinc**
- **2000-2007 CZN exploration and development programs**

# Prior/Existing Permits

- **Mine and Winter Road Land Use Permits, 1980**
- **Mine Water License, 1982**
- **Land Use Permit and Water License for Underground Decline and Pilot Mill Plant, 2003 (Water License renewed for 5 years)**
- **Winter Road Land Use Permit, 2007**
- **Phase 3 Exploration Land Use Permit, 2006**





WINTER ROAD TO LIARD

3000 FOOT AIRSTRIP

3 LEVELS OF UG

1000 TPD MILL &  
POWER  
GENERATION

POND

ACCOMMODATIONS

FLOOD PROTECTION DIKE

SEWAGE TREATMENT PLANT

WORKSHOPS, OFFICE

FUEL FARM

# The Prairie Creek Mine





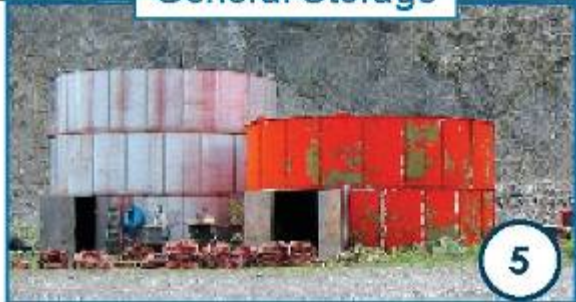
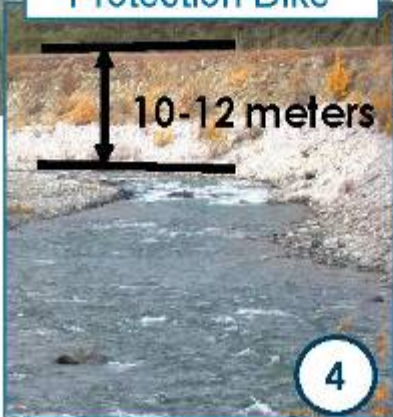
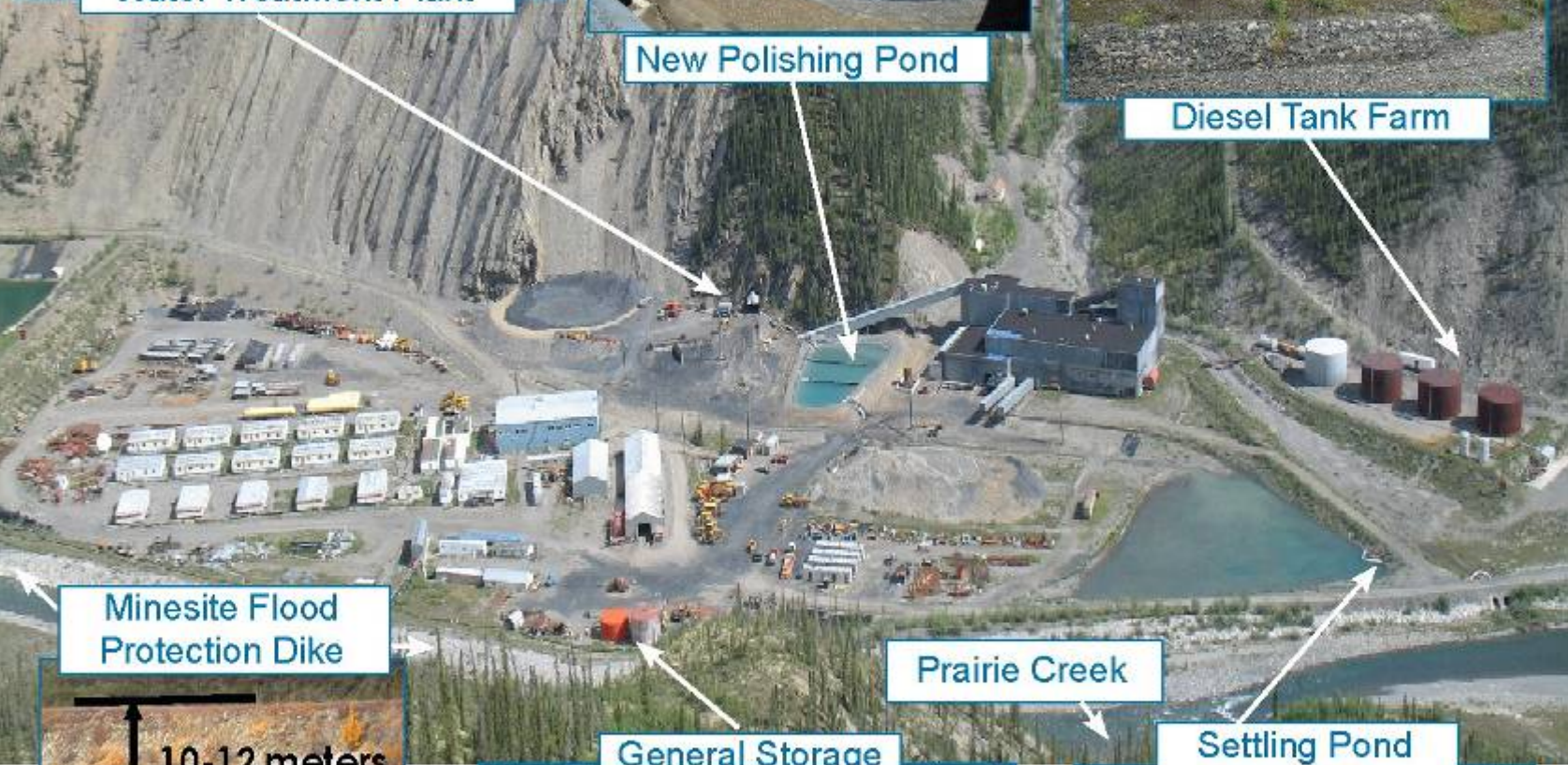
Water Treatment Plant



New Polishing Pond



Diesel Tank Farm



PRAIRIE CREEK MINE: WATER



# Mill and Catchment Pond





# Camp





# Main Dike





# Tank Farm





# Adit and Polishing Pond



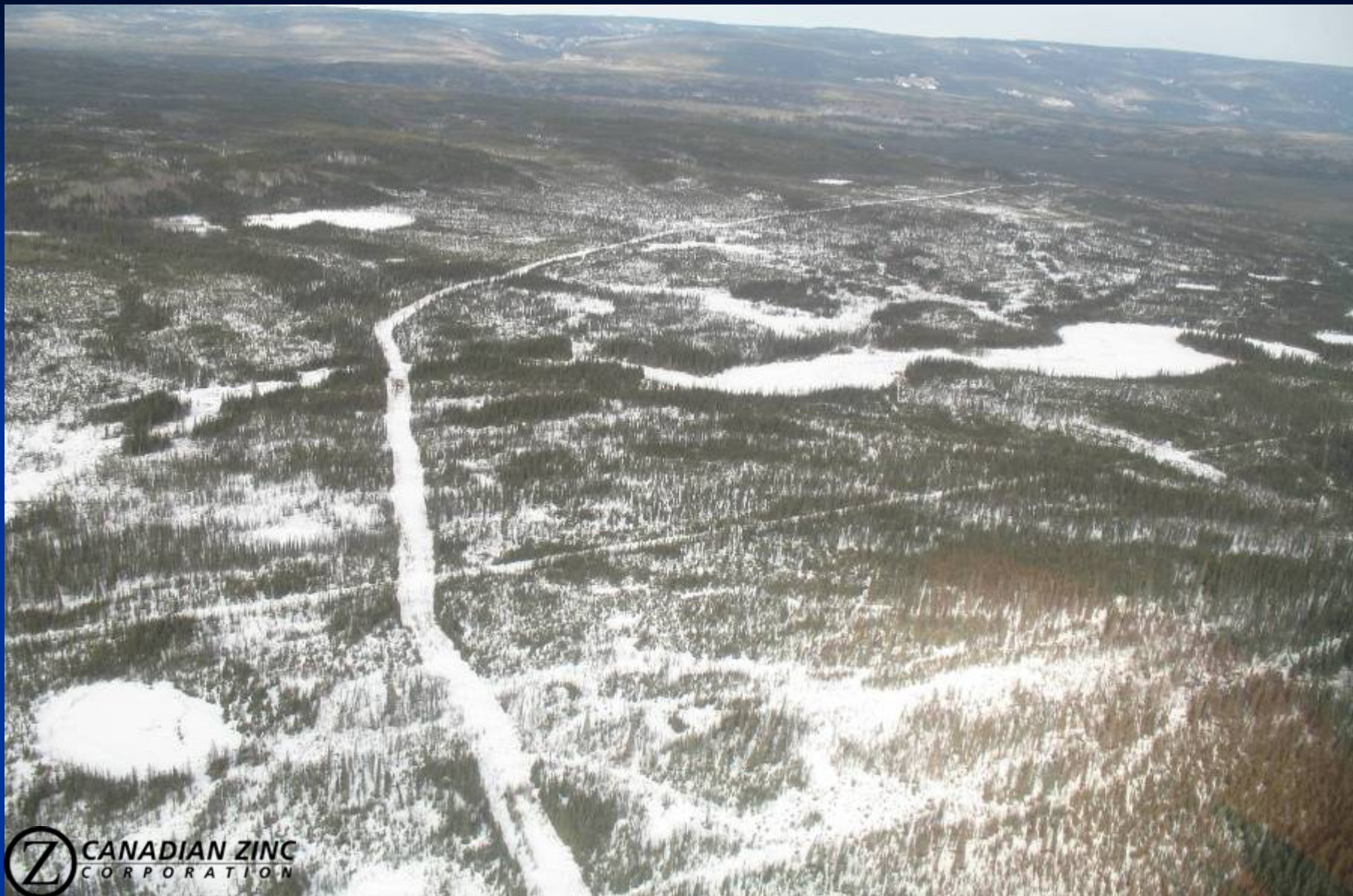


# Magazines and Reagent Pad





# PRAIRIE CREEK – LIARD HIGHWAY WINTER ROAD



WINTER ROAD LAND USE PERMIT RECEIVED 2007



# Previous EA's

- **Six environmental assessments 2001 - 2006**
- **Underground Decline & Pilot Plant, 2003**
  - **Mine Water Contingency Plan**
  - **Effluent Treatment Options Plan**
  - **Polishing Pond**
  - **Tank Farm inspections**
  - **Maximum Flood Re-Assessment**
  - **Wildlife Management Plan**
  - **Fuel Spill Contingency Plan**
- **Phase 3 Drilling, 2006**
  - **Wildlife survey**
  - **Flight Impact Management Plan**



# LOCAL ACTIVITIES

## ENVIRONMENTAL MONITORING

Training in Partnership with NWT MINE TRAINING SOCIETY  
Monitoring Services Provided by NOGHA ENTERPRISES



## CYANIDE REPACK



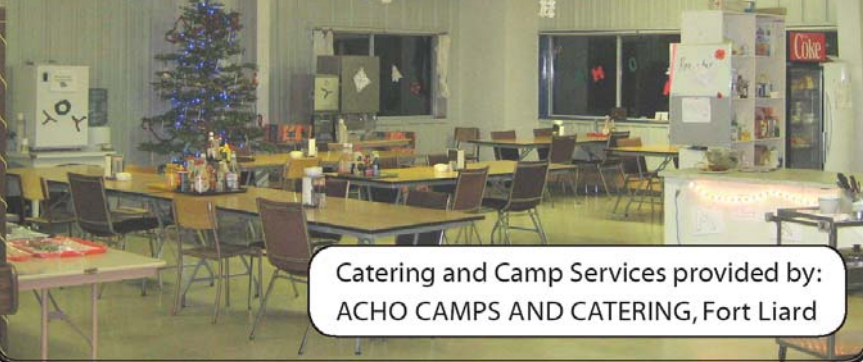
Prairie Creek Employment - Summer 2007

Total people employed at mine - 47  
First Nations employment - 22 (47%)  
Dehcho-based employment - 19 (40%)

Nahanni Butte - 7  
Fort Liard - 6  
Fort Simpson - 5  
Jean Marie River - 1

### Local Expenditure Since 2004

Direct First Nation Payroll	\$ 493,411
Direct First Nations Service Co.	\$ 1,261,189
Education and Training	\$ 39,150
<b>TOTAL</b>	<b>\$1,793,750</b>



Catering and Camp Services provided by:  
ACHO CAMPS AND CATERING, Fort Liard

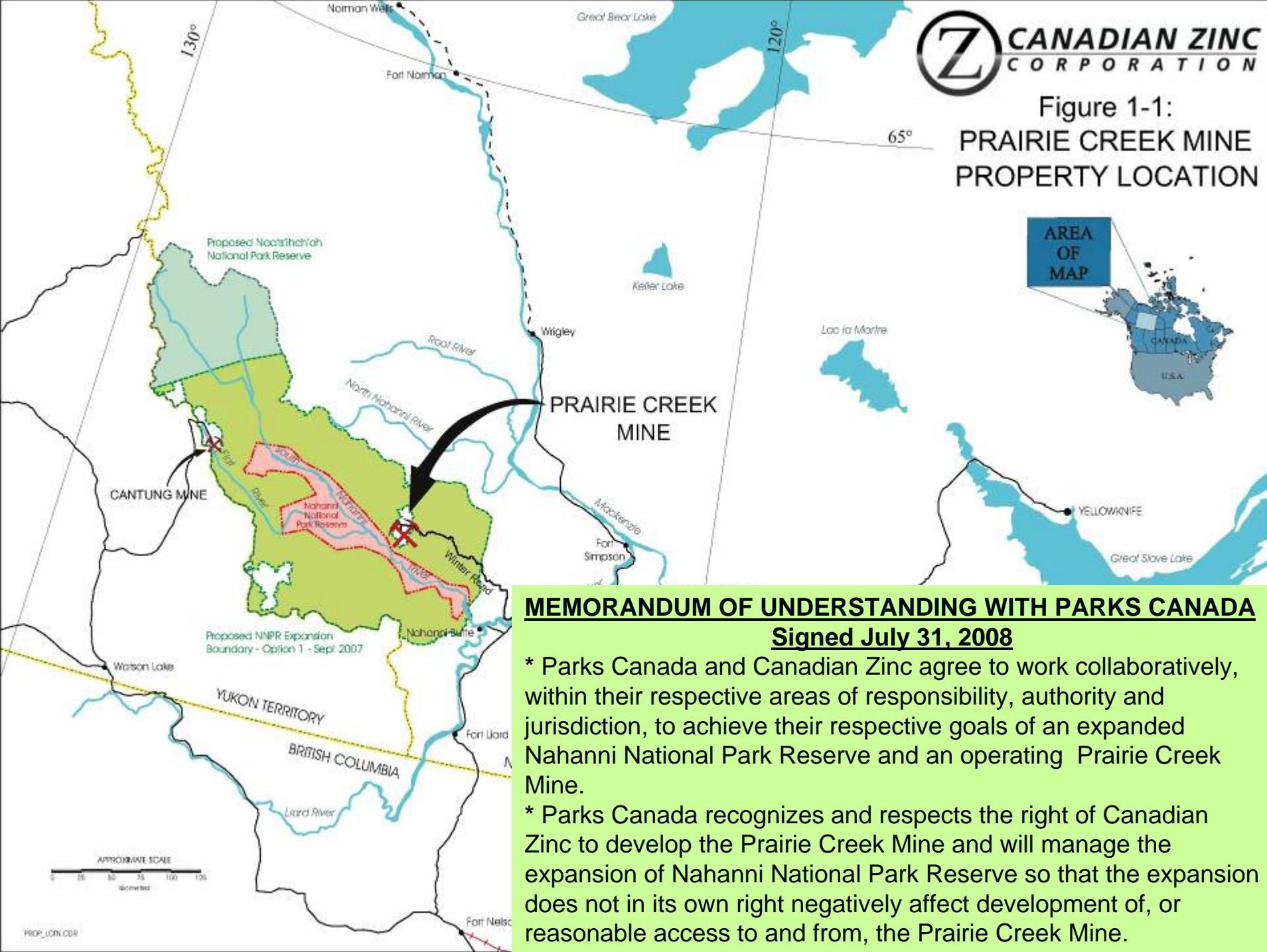


# ROAD CONSTRUCTION 2008






Figure 1-1:  
PRAIRIE CREEK MINE  
PROPERTY LOCATION



**MEMORANDUM OF UNDERSTANDING WITH PARKS CANADA**  
**Signed July 31, 2008**

- \* Parks Canada and Canadian Zinc agree to work collaboratively, within their respective areas of responsibility, authority and jurisdiction, to achieve their respective goals of an expanded Nahanni National Park Reserve and an operating Prairie Creek Mine.
- \* Parks Canada recognizes and respects the right of Canadian Zinc to develop the Prairie Creek Mine and will manage the expansion of Nahanni National Park Reserve so that the expansion does not in its own right negatively affect development of, or reasonable access to and from, the Prairie Creek Mine.






**PRAIRIE CREEK MINE**  
**PROJECT DESCRIPTION REPORT**

**SUBMITTED IN SUPPORT OF:**  
Type "A" Water Licence Application  
Type "A" Land Use Permit Application


**SUBMITTED TO:**  
**Mackenzie Valley Land and Water Board**  
Box 2130, 4910 - 50th Avenue,  
Yellowknife, NT, X1A 2P6

**SUBMITTED BY:**  
**Canadian Zinc Corporation**  
Suite 1710 - 650 West Georgia Street  
Vancouver, BC, V6B 4N9

May, 2008



**PRAIRIE CREEK MINE**  
**LIARD TRANSFER FACILITY**  
**PROJECT DESCRIPTION REPORT**



**PRAIRIE CREEK MINE**  
**TETCELA TRANSFER FACILITY**  
**PROJECT DESCRIPTION REPORT**

**SUBMITTED IN SUPPORT OF:**  
Type "A" Land Use Permit Application

**SUBMITTED TO:**  
**Mackenzie Valley Land and Water Board**  
Box 2130, 4910 - 50th Avenue,  
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May, 2008

# Letters of Support

- **LKFN**
- **ADKFN**
- **MLA Menicoche**



# Precedent

- 2005, Supreme Court rules CZN's application for winter road permit exempt from EA (grandfathered)
- CZN could apply for Cadillac's mine project and go directly to permitting, avoiding EA
- CZN chooses to include modern waste and water management plans

# CZN's View

- **Based on law, EIA guidelines and majority community view, EA should:**
  - **focus on new plans and water quality**
  - **be efficient in time and content**
  - **not re-assess contents of previous EA's and permits**



# Geological Resource

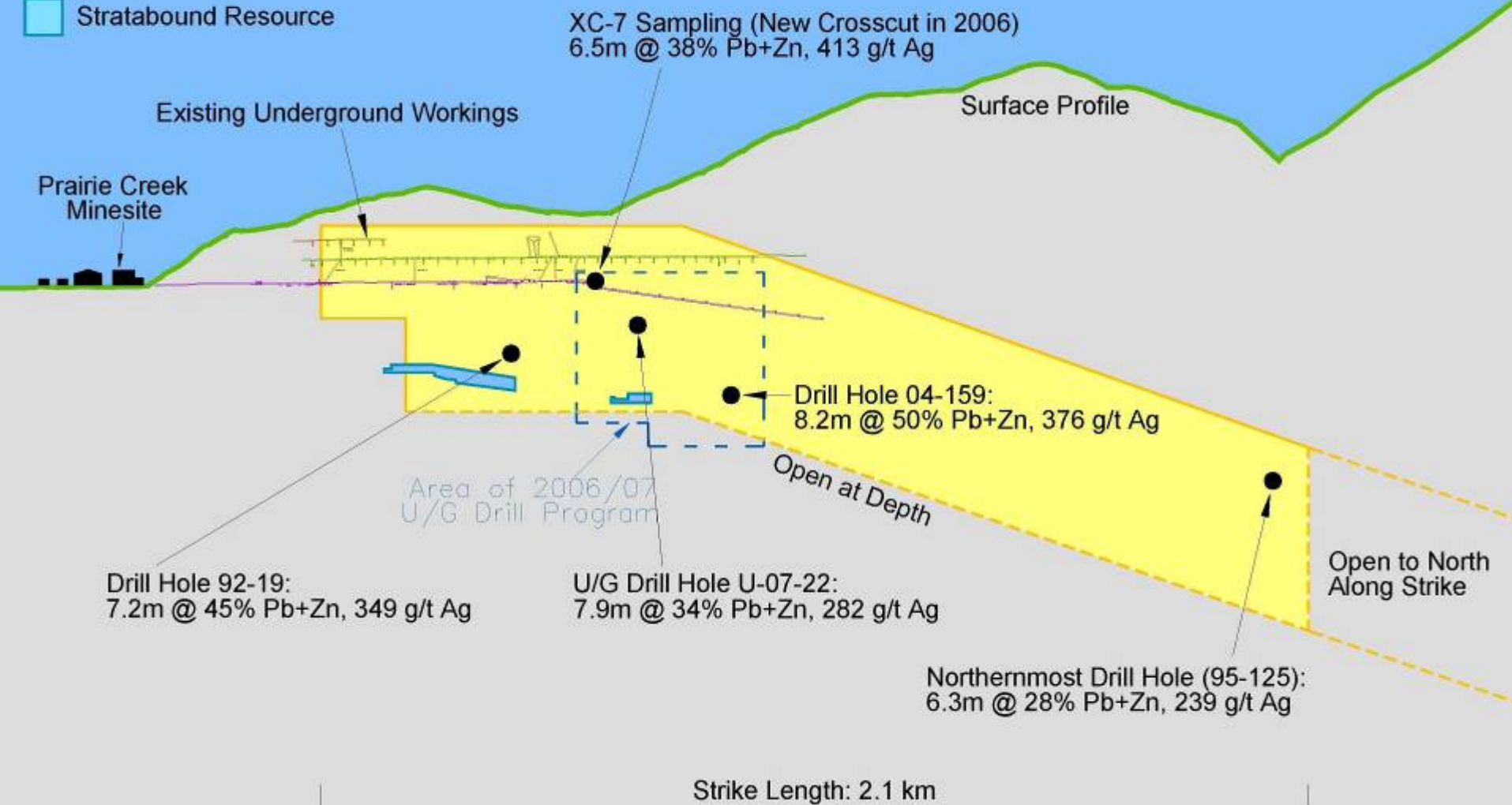
- Total resource = 11.85 million tonnes:  
12.5% Zn; 10.1% Pb; 161 g/t Ag; 0.4% Cu
- Measured and Indicated = 3.57 million tonnes:  
11.9% Zn; 9.7% Pb; 142 g/t Ag; 0.3% Cu
- >60 million ounces silver  
>3 billion lbs of zinc  
>2.2 billion lbs of lead

# LONG SECTION OF PRAIRIE CREEK MAIN ZONE Facing West



North →

- Vein Resource
- Stratabound Resource

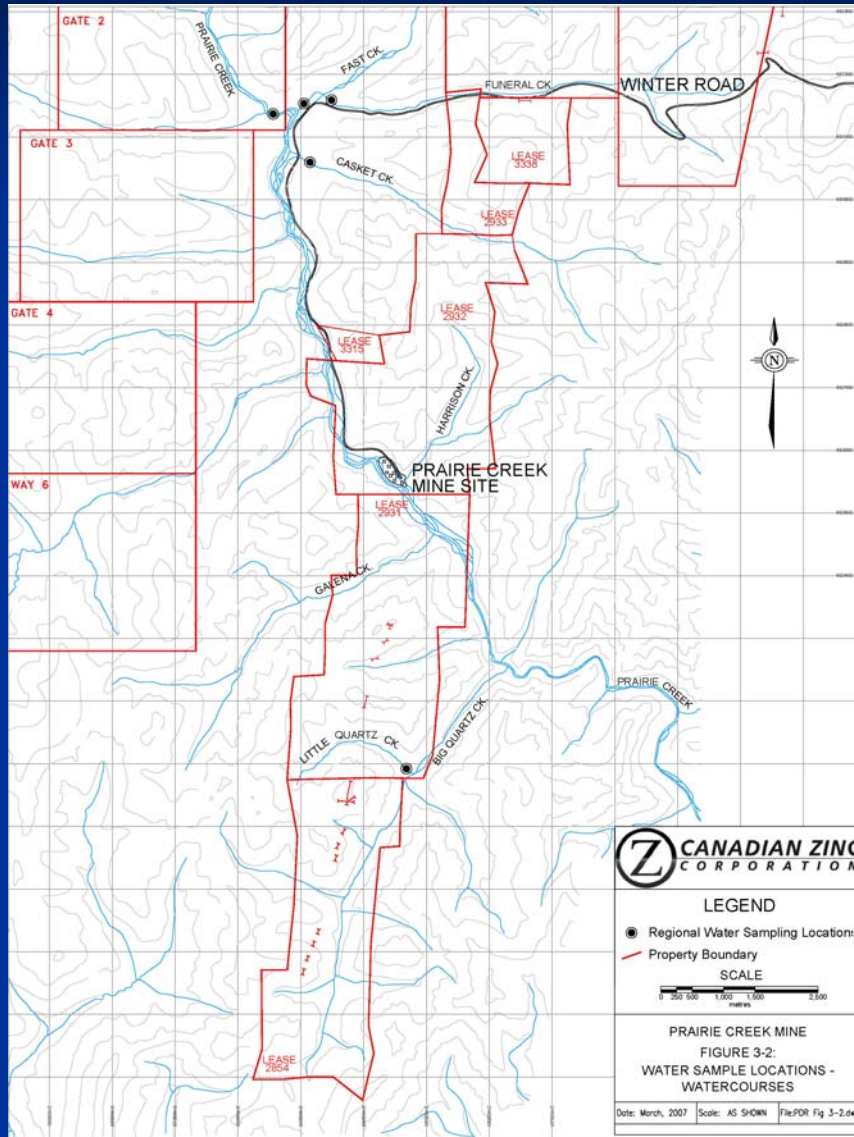




# Baseline Study Update

- **Climate**
- **Hydrology**
- **Water Quality**
- **Fish**
- **Wildlife**

# Water Quality





# OPERATIONS OVERVIEW

- Up to 1,300 tonnes/day mining
- Up to 1,000 tonnes/day milling
- Crushing/grinding/flotation process, addition of dense media separation and backfill plants
- Production of zinc and lead concentrates, transport by truck to railhead via winter road
- Mill rock and tailings placed underground
- Creation of a Waste Rock Pile
- Conversion of original tailings pond to Water Storage Pond to allow recycle

# Vein Mineralization

Footwall contact

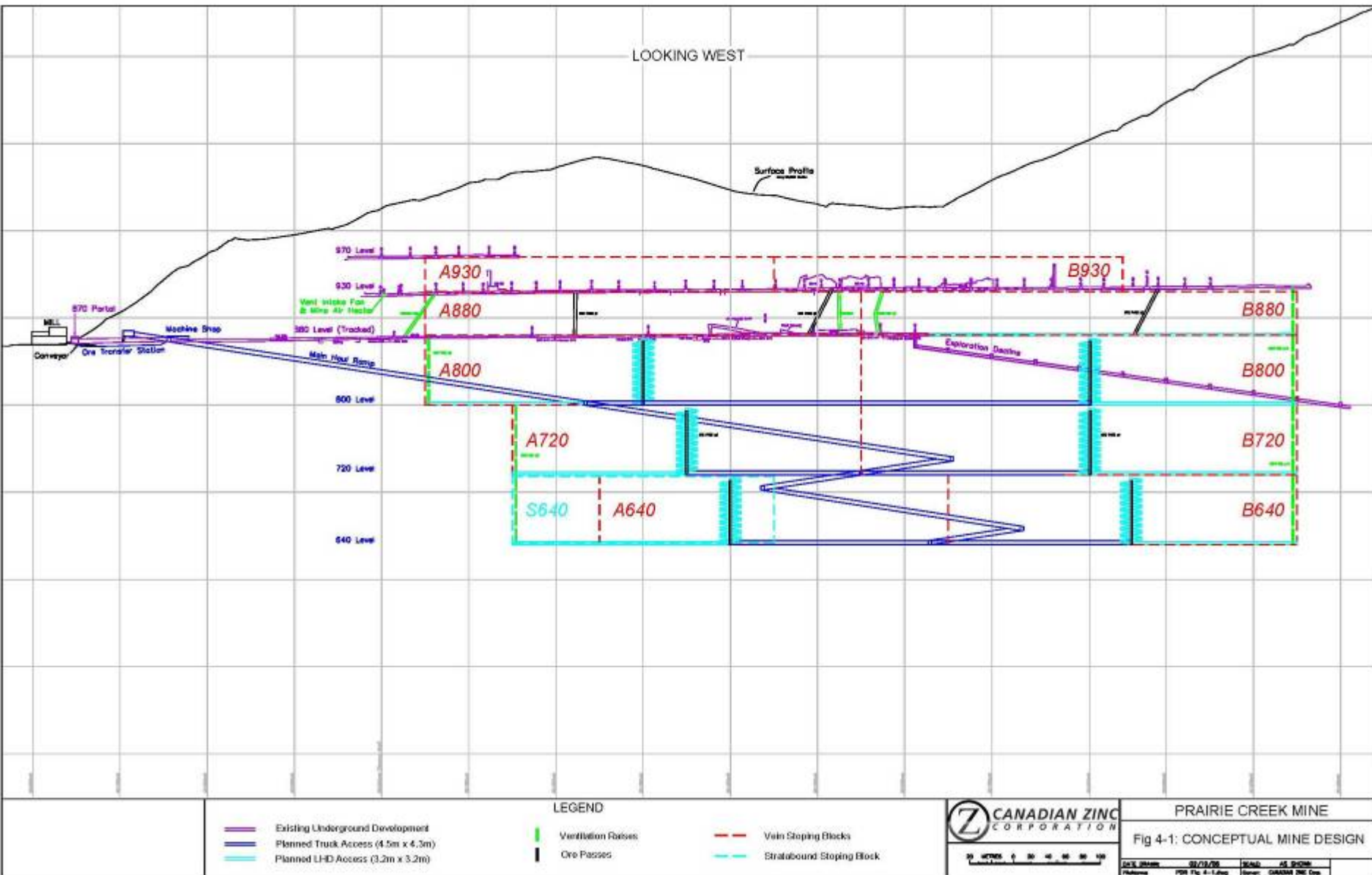
Hanging wall contact

5.9% Pb, 39.4% Zn, 176.8 gpt Ag/1.9 m

UNDERGROUND 930 LEVEL: X-CUT 09

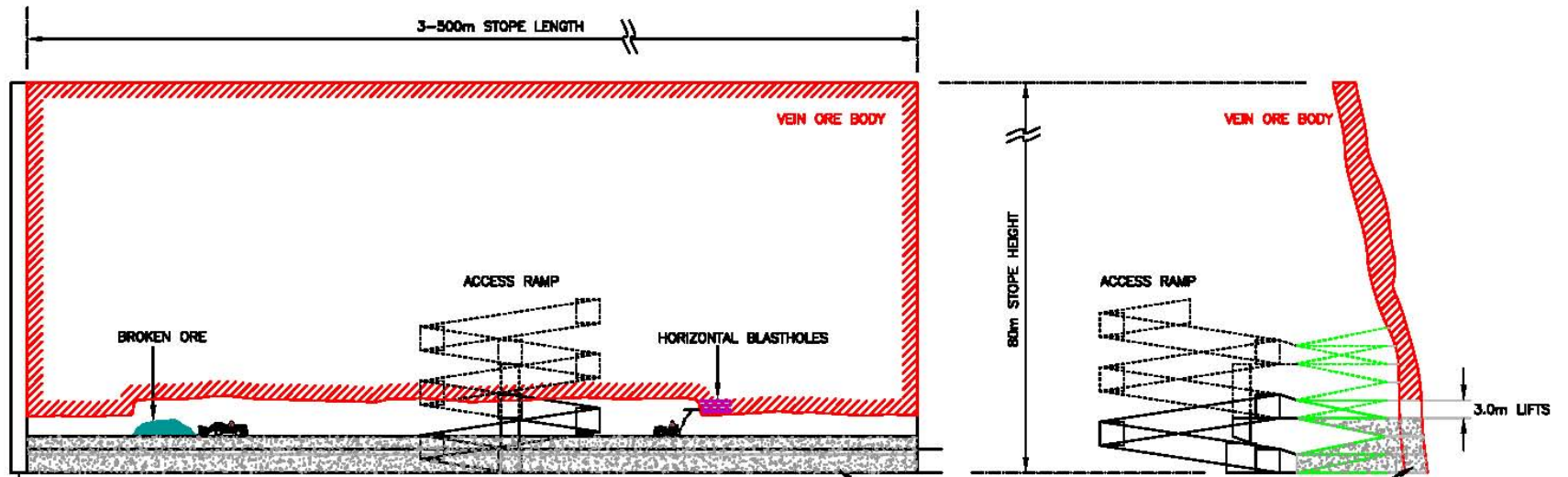


# Prairie Creek Mine Plan



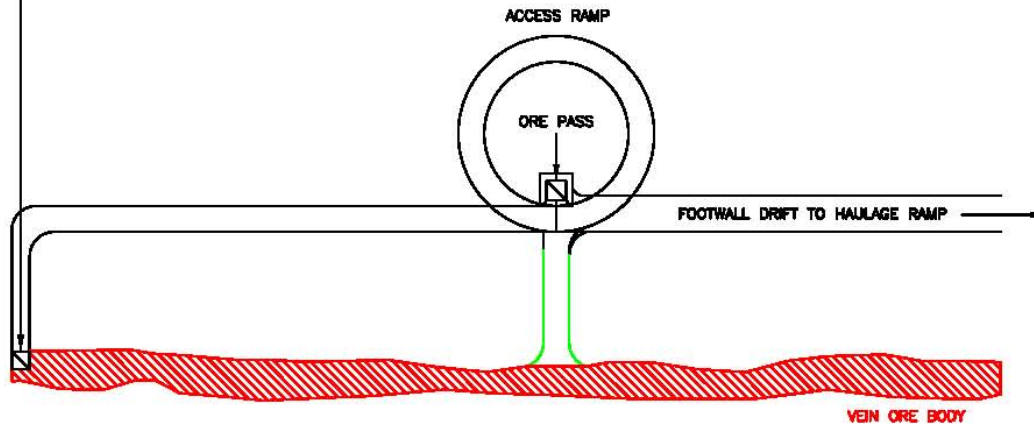
LONGITUDINAL SECTION

CROSS SECTION



VENTILATION/SERVICE RAISE

PLAN VIEW



Date:	03/03/08
Scale:	NTS
File Name:	PDR Fig 4-2.DWG
Revised:	

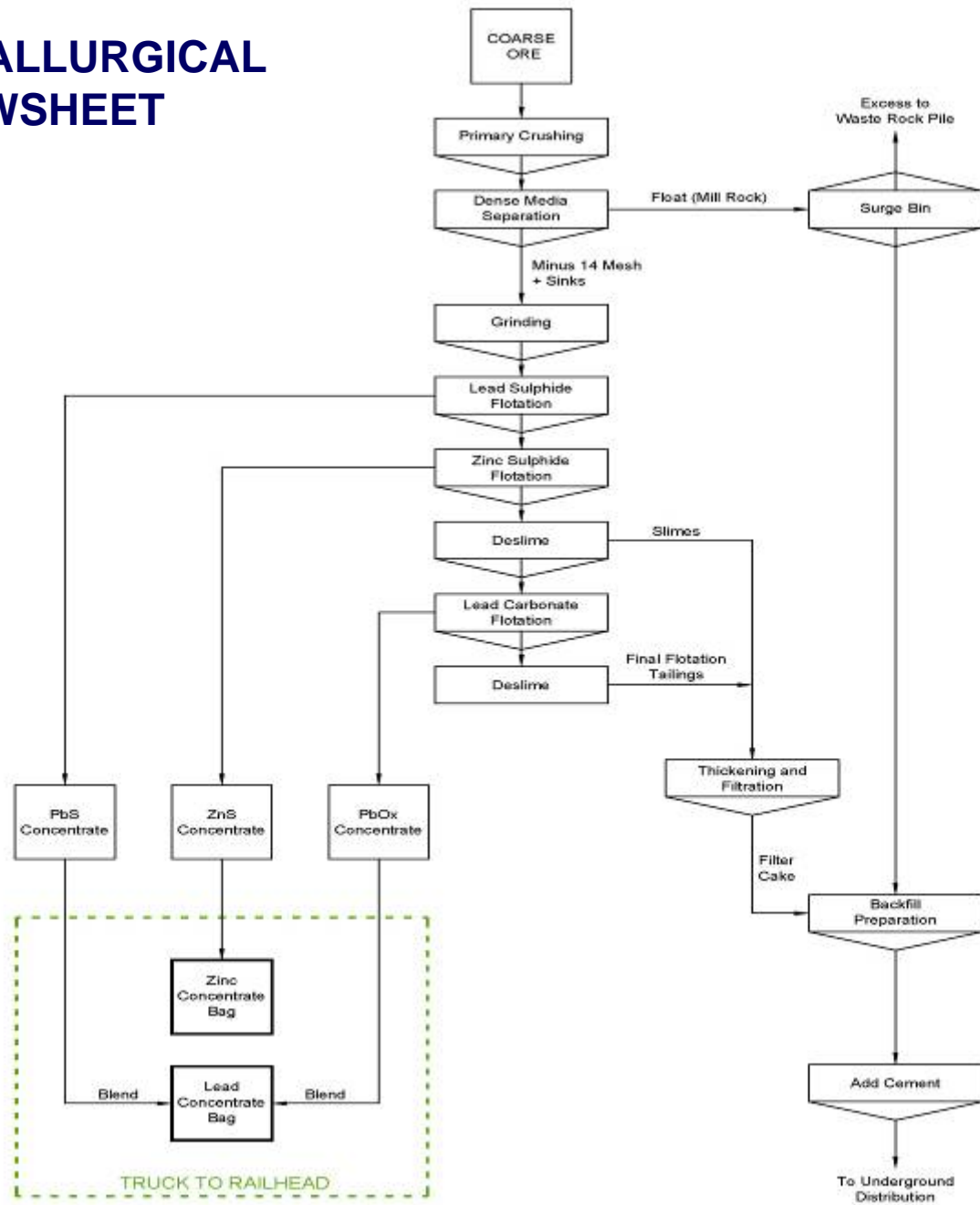


PRAIRIE CREEK MINE

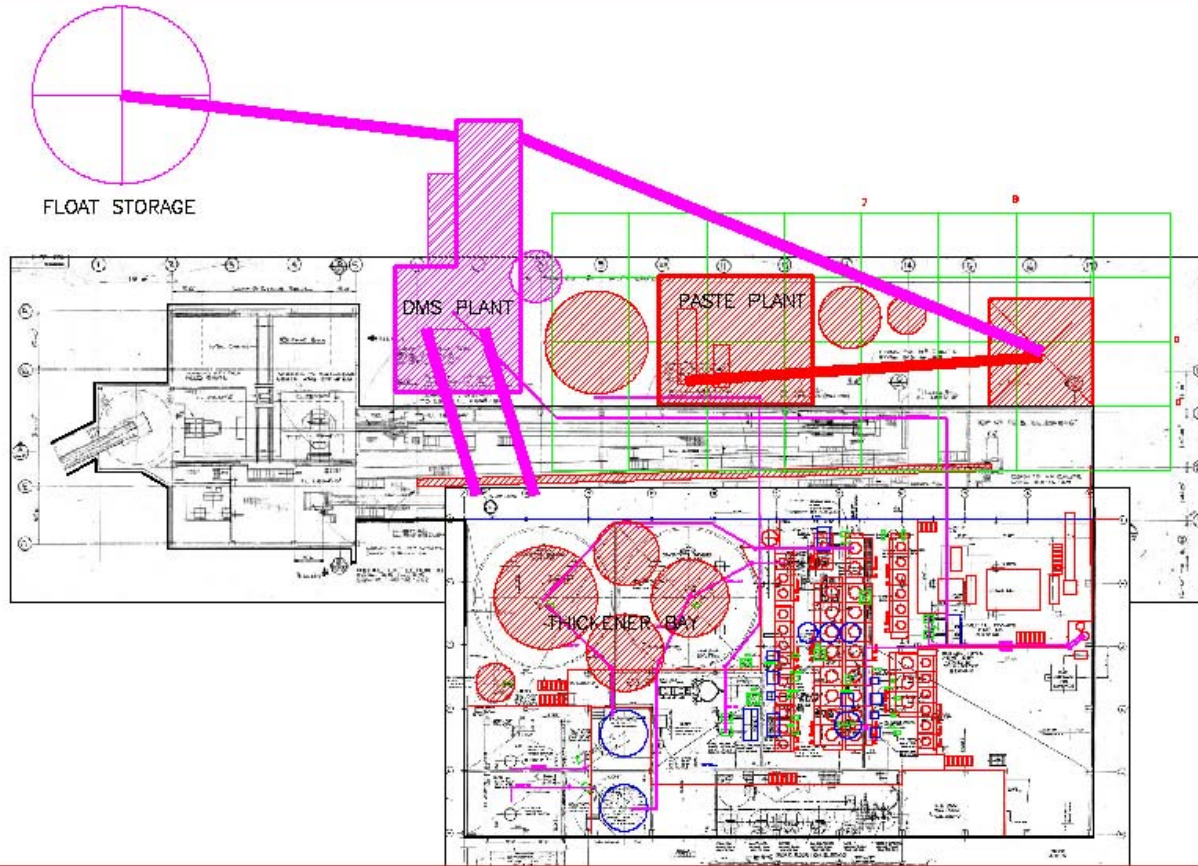
FIGURE 4-2: PROPOSED MINING METHOD - CUT AND FILL STOPPING



# METALLURGICAL FLOWSHEET



# MILL ADDITIONS



CANADIAN ZINC CORPORATION			DE JURY D'EXPERTS EN MINÉRIE ET MÉTALLURGIE D'AMÉRIQUE DU NORD
SNC-LAMBIN			
PEARCE GREEK PROJECT FEASIBILITY STUDY			
PROJECT NO.	DATE	SCALE	BY
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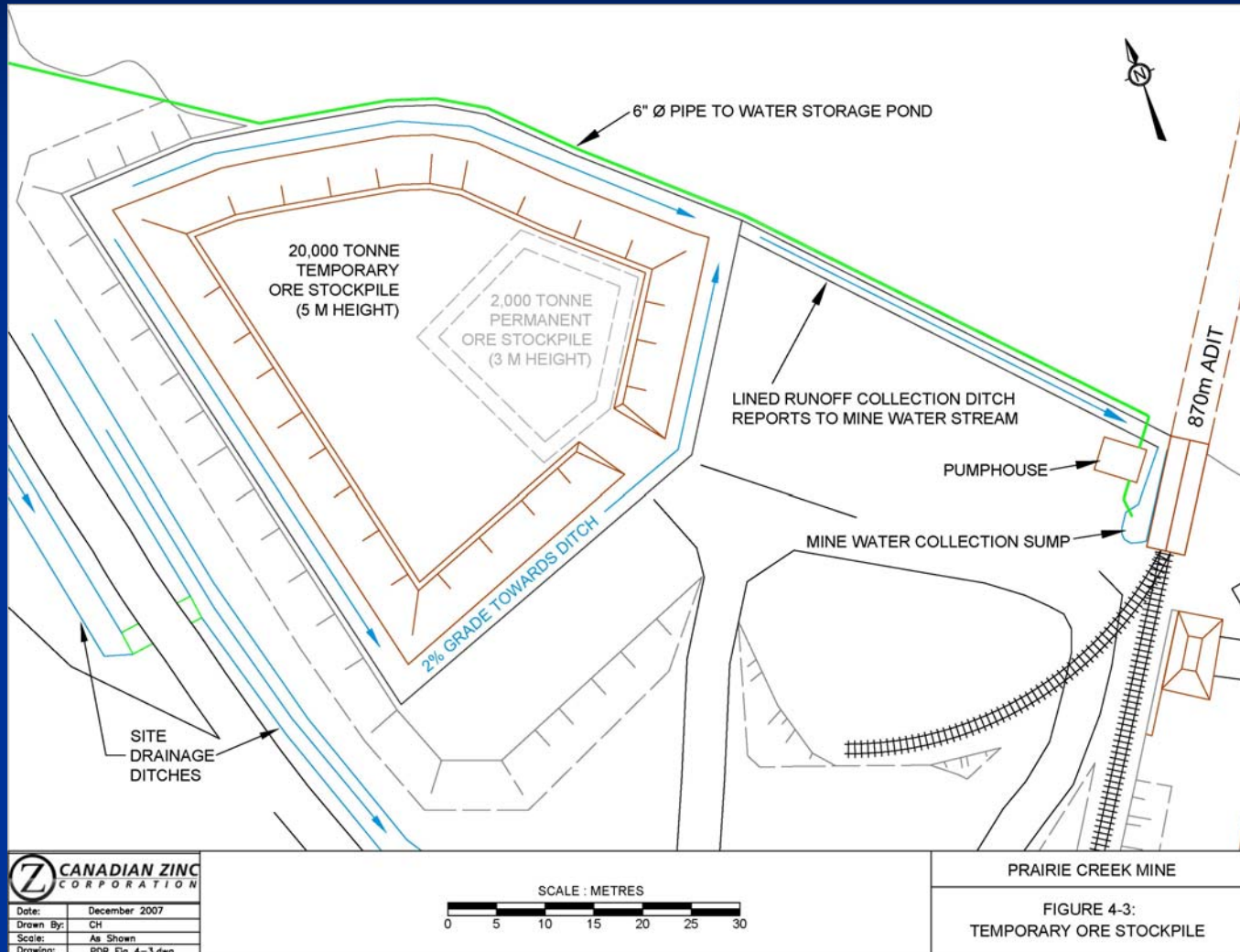


# Milling

Flotation Cells

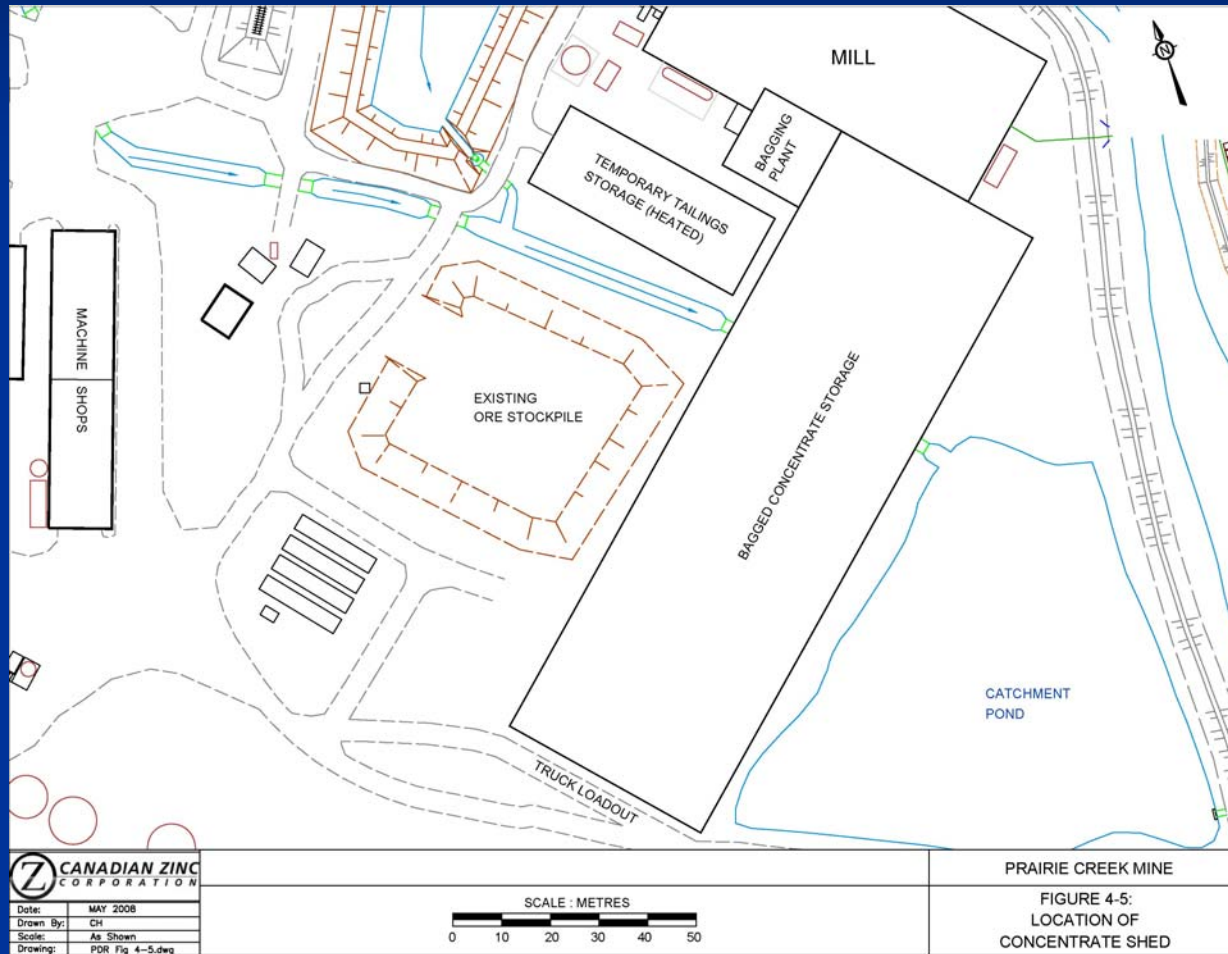
Ball Mill

# Ore Stockpile





# Concentrate Shed



# Tailings Mix on Surface

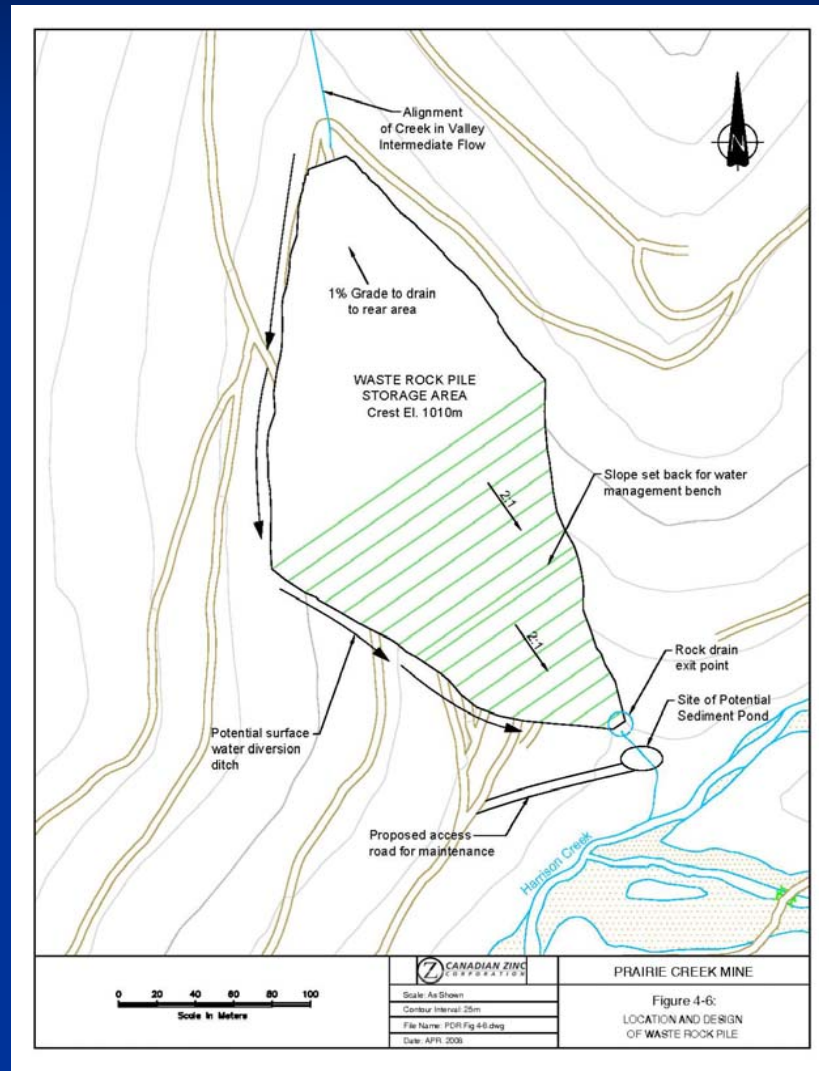




# Tailings Mix Underground

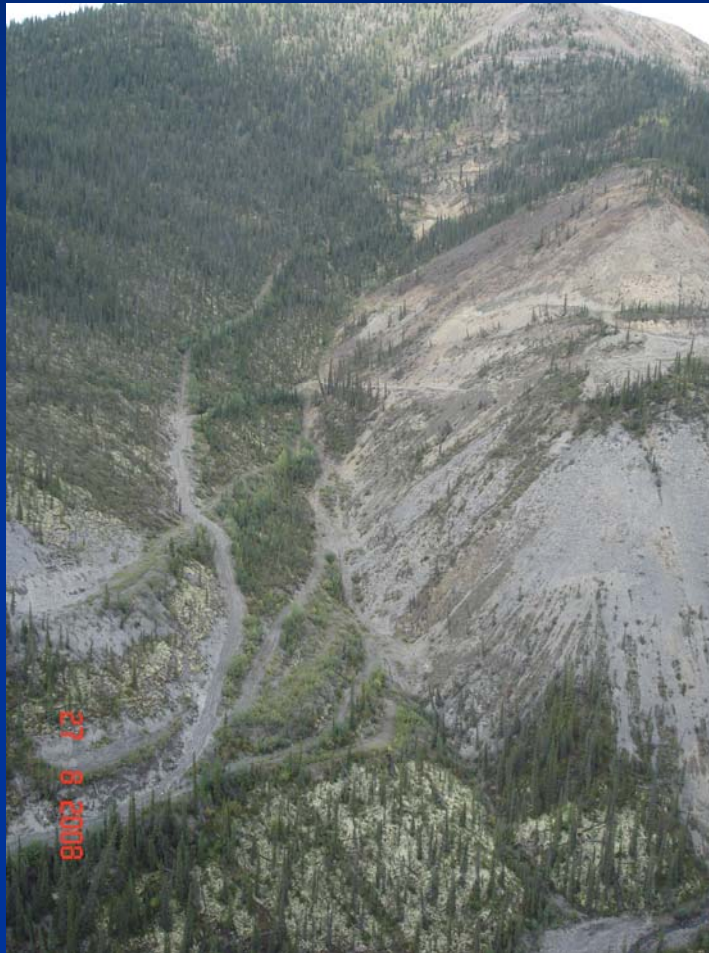


# Waste Rock Pile





# Waste Rock Pile Site



**TABLE 4-3: LIFE OF MINE (YEARS 0-14) WASTE ROCK QUANTITIES**

Mine Life Quantities	Tonnes	%	t/m <sup>3</sup>	m <sup>3</sup>	Comment
Mill Feed	4,995,000	100%			
DMS Rock	1,203,750	24%			
Flotation Tailings	2,508,222	50%			
Concentrates	1,285,028	26%			
Unplaced Backfill (DMS+FT)	3,709,972	26%			
Voids (stopes & development)				1,799,720	
Density Backfill			2.24		wet density
Solids Content		84%			
Placed Backfill (DMS+FT)	3,401,470		1.89		dry density (1.89 dry tonnes/m <sup>3</sup> )
Backfill not placed u/g (DMS)	308,502			183,229	
Proportion DMS not placed		26%			
Ratio Tails to DMS in Fill			2.8		
Development waste rock				276,470	
Total to Waste Rock Pile				439,699	waste rock plus DMS rock





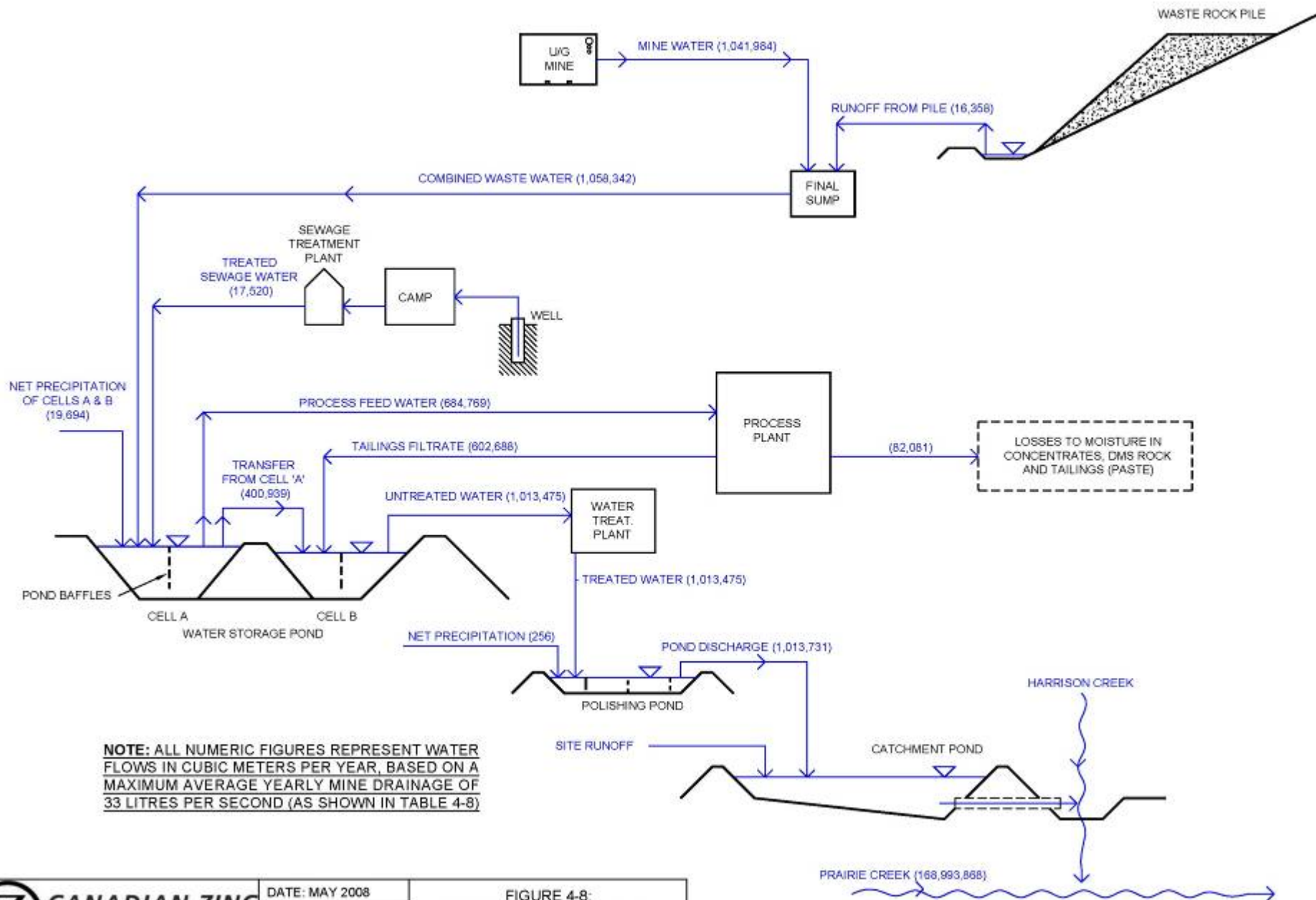




TABLE 4-8: STORAGE POND WATER BALANCE, MINE DRAINAGE MAXIMUM 40 L/SEC

Period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
<b>Inflows (m<sup>3</sup>)</b>													
Mine Drainage	74,995	67,738	74,995	82,944	107,136	103,680	107,136	107,136	82,944	85,709	72,576	74,995	1,041,984
Sewage Water	1,488	1,344	1,488	1,440	1,488	1,440	1,488	1,488	1,440	1,488	1,440	1,488	17,520
Precip. - pond	1,229	1,229	1,092	1,365	2,184	3,140	4,642	3,823	3,140	2,594	1,838	1,229	27,305
Precip. - pile	0	0	0	0	6,756	2,045	3,023	2,489	2,045	0	0	0	16,358
<b>Total</b>	<b>77,712</b>	<b>70,310</b>	<b>77,575</b>	<b>85,749</b>	<b>117,565</b>	<b>110,305</b>	<b>116,288</b>	<b>114,936</b>	<b>89,569</b>	<b>89,791</b>	<b>75,654</b>	<b>77,712</b>	<b>1,103,167</b>
<b>Outflows (m<sup>3</sup>)</b>													
Mill Process Feed	58,158	52,530	58,158	56,282	58,158	56,282	58,158	58,158	56,282	58,158	56,282	58,158	684,789
Evaporation	0	0	0	0	1,075	4,098	5,461	4,098	2,731	0	0	0	17,458
Spill to Cell B	19,553	17,780	19,417	29,467	58,331	49,927	52,669	52,682	30,556	31,632	19,372	19,553	400,939
<b>Total</b>	<b>77,712</b>	<b>70,310</b>	<b>77,575</b>	<b>85,749</b>	<b>117,565</b>	<b>110,305</b>	<b>116,288</b>	<b>114,936</b>	<b>89,569</b>	<b>89,791</b>	<b>75,654</b>	<b>77,712</b>	<b>1,103,167</b>
<b>Inflows (m<sup>3</sup>) Cell B</b>													
Spill from Cell A	19,553	17,780	19,417	29,467	58,331	49,927	52,669	52,682	30,556	31,632	19,372	19,553	400,939
Tails Filtrate	51,187	46,234	51,187	49,536	51,187	49,536	51,187	51,187	49,536	51,187	49,536	51,187	602,688
Precip. - pond	1,229	1,229	1,092	1,365	2,184	3,140	4,642	3,823	3,140	2,594	1,838	1,229	27,305
<b>Total</b>	<b>71,969</b>	<b>65,242</b>	<b>71,696</b>	<b>80,368</b>	<b>111,703</b>	<b>102,603</b>	<b>108,498</b>	<b>107,692</b>	<b>83,232</b>	<b>85,413</b>	<b>70,546</b>	<b>71,969</b>	<b>1,030,932</b>
<b>Outflows (m<sup>3</sup>)</b>													
Treatment Plant	84,913	84,913	84,913	84,913	84,913	82,174	84,913	84,913	82,174	84,913	84,913	84,913	1,013,474
Evaporation	0	0	0	0	1,075	4,098	5,461	4,098	2,731	0	0	0	17,458
<b>Total</b>	<b>84,913</b>	<b>84,913</b>	<b>84,913</b>	<b>84,913</b>	<b>85,988</b>	<b>86,269</b>	<b>90,374</b>	<b>89,008</b>	<b>84,904</b>	<b>84,913</b>	<b>84,913</b>	<b>84,913</b>	<b>1,030,932</b>
<b>Difference (m<sup>3</sup>)</b>	<b>-12,943</b>	<b>-19,670</b>	<b>-13,216</b>	<b>-4,545</b>	<b>25,715</b>	<b>16,333</b>	<b>18,124</b>	<b>18,683</b>	<b>-1,672</b>	<b>501</b>	<b>-14,367</b>	<b>-12,943</b>	<b>0</b>
<b>Cum. Diff. (m<sup>3</sup>)</b>	<b>-12,943</b>	<b>-32,614</b>	<b>-45,830</b>	<b>-50,375</b>	<b>-24,659</b>	<b>-8,326</b>	<b>9,798</b>	<b>28,481</b>	<b>26,809</b>	<b>27,310</b>	<b>12,943</b>	<b>0</b>	
<b>Inflows (m<sup>3</sup>) Polishing Pond</b>													
Treatment Plant	84,913	84,913	84,913	84,913	84,913	82,174	84,913	84,913	82,174	84,913	84,913	84,913	1,013,474
Precip.	32	32	28	36	57	82	121	100	82	68	43	32	711
<b>Outflows (m<sup>3</sup>)</b>													
Discharge	84,945	84,945	84,941	84,948	84,942	82,149	84,891	84,906	82,184	84,980	84,955	84,945	1,013,731
Evaporation	0	0	0	0	28	107	142	107	71	0	0	0	455
Prairie Creek	1,418,213	921,110	826,288	2,121,552	33,098,328	44,879,168	31,551,552	25,006,212	16,374,960	7,398,686	3,352,828	2,244,972	168,993,888
Ratio to pond discharge	17	11	10	25	390	544	372	294	199	87	39	26	167
Mine Drainage L/s	28	28	28	32	40	40	40	40	32	32	28	28	33.0
Treatment Plant L/s	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6





# The Prairie Creek Mine: present-day





**Upgraded Mine Facilities:**

1 - Water Storage Pond - Cell "A"	5 - New Accommodations Block	9 - DMS Plant (Behind Mill)
2 - Water Storage Pond - Cell "B"	6 - Covered Ore Stockpile	10 - Temporary DMS Rock Storage Pad
3 - Temporary Tailings Storage Pad	7 - New Underground Portal	11 - Paste Backfill Plant (Behind Mill)
4 - Water Treatment Plant	8 - Concentrate Storage Sheds	12 - Waste Rock Pile



Plate 4-2: Prairie Creek Site Showing Conceptual View of Upgraded Mine Facilities

# Manpower and Logistics

- **220 full-time jobs at the Mine**
- **3 weeks on, 3 weeks off rotation by air**
- **Concentrates/supplies haul November-March**
- **Business opportunities for catering, winter road construction, transportation**

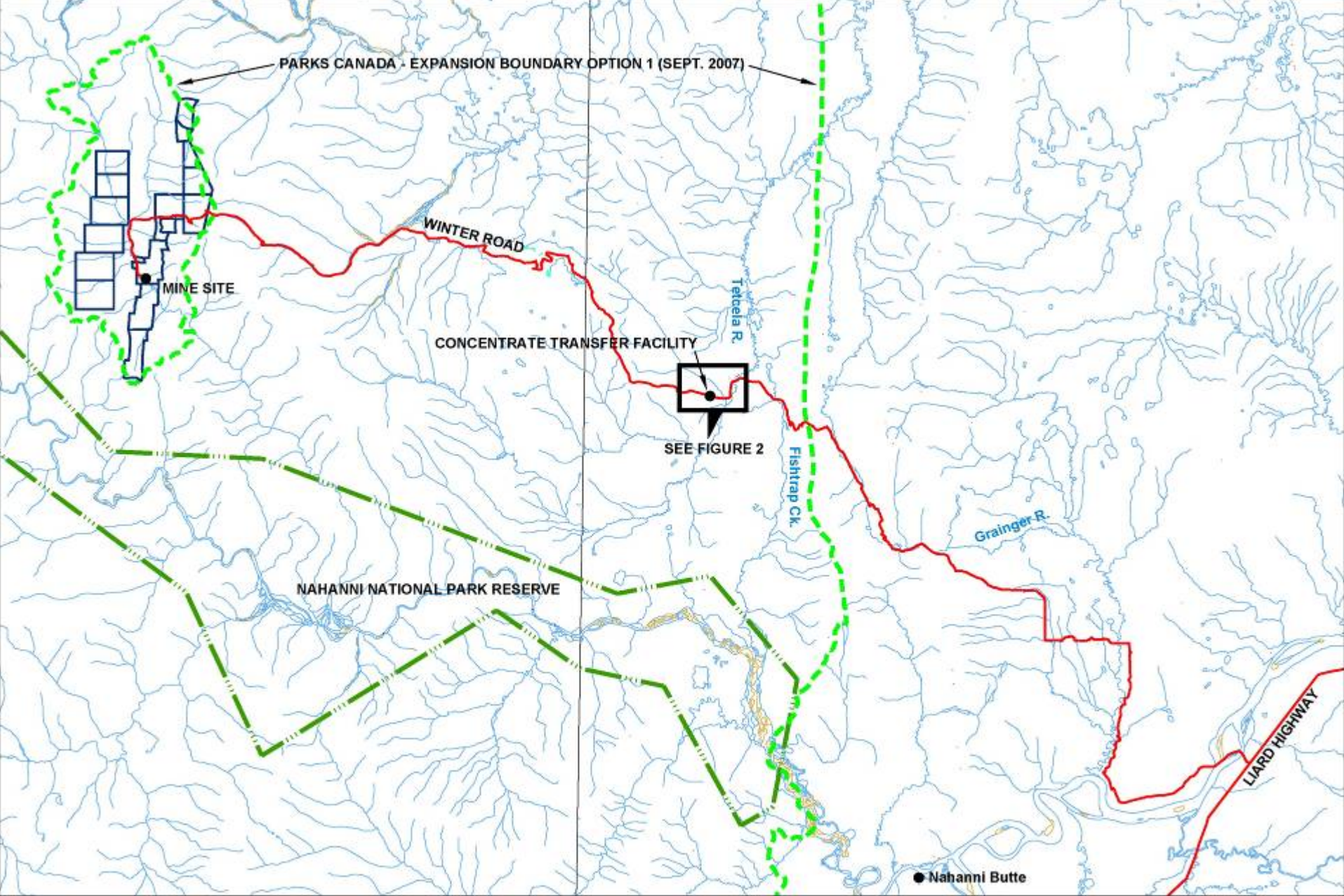


# Transportation



## Prairie Creek Airstrip





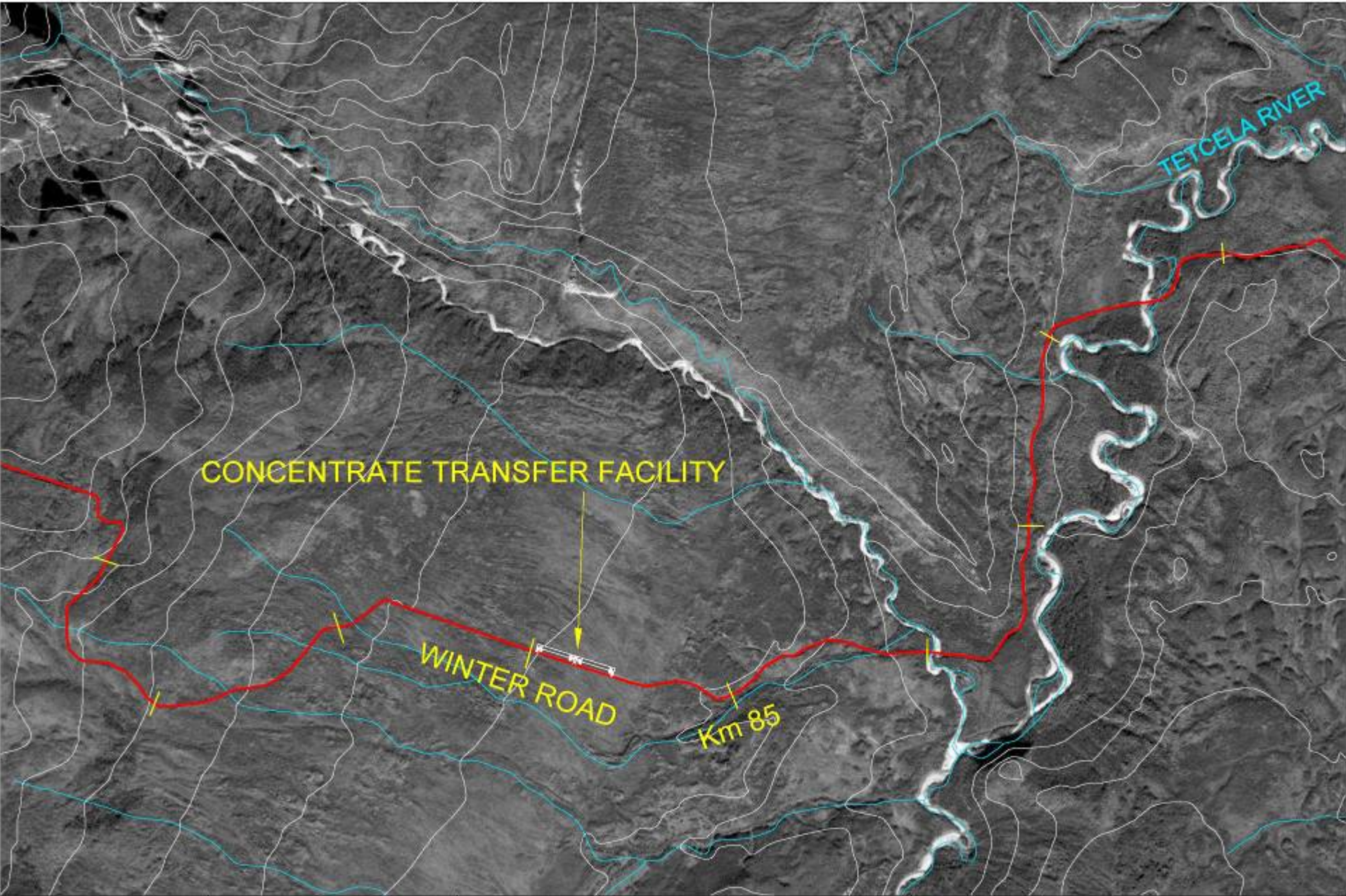
Date:	March 2008
Drawn By:	CH
Scale:	As Shown
Drawing:	CTF Flg 1.dwg



PRAIRIE CREEK MINE

**FIGURE 1: LOCATION OF CONCENTRATE TRANSFER FACILITY**





Date:	April 2008
Drawn By:	CH
Scale:	As Shown
Drawing:	CTF Fig 2 and 3.dwg

CONTOUR INTERVAL: 100 FT

TOPO DATA FROM NRCAN  
DIGITAL TOPO DATABASE:  
NTS MAPSHEET 95 F/9

SCALE : METRES



PRAIRIE CREEK MINE

**FIGURE 3:**  
TOPOGRAPHY OF CONCENTRATE  
TRANSFER FACILITY AREA WITH AIR PHOTO BASE



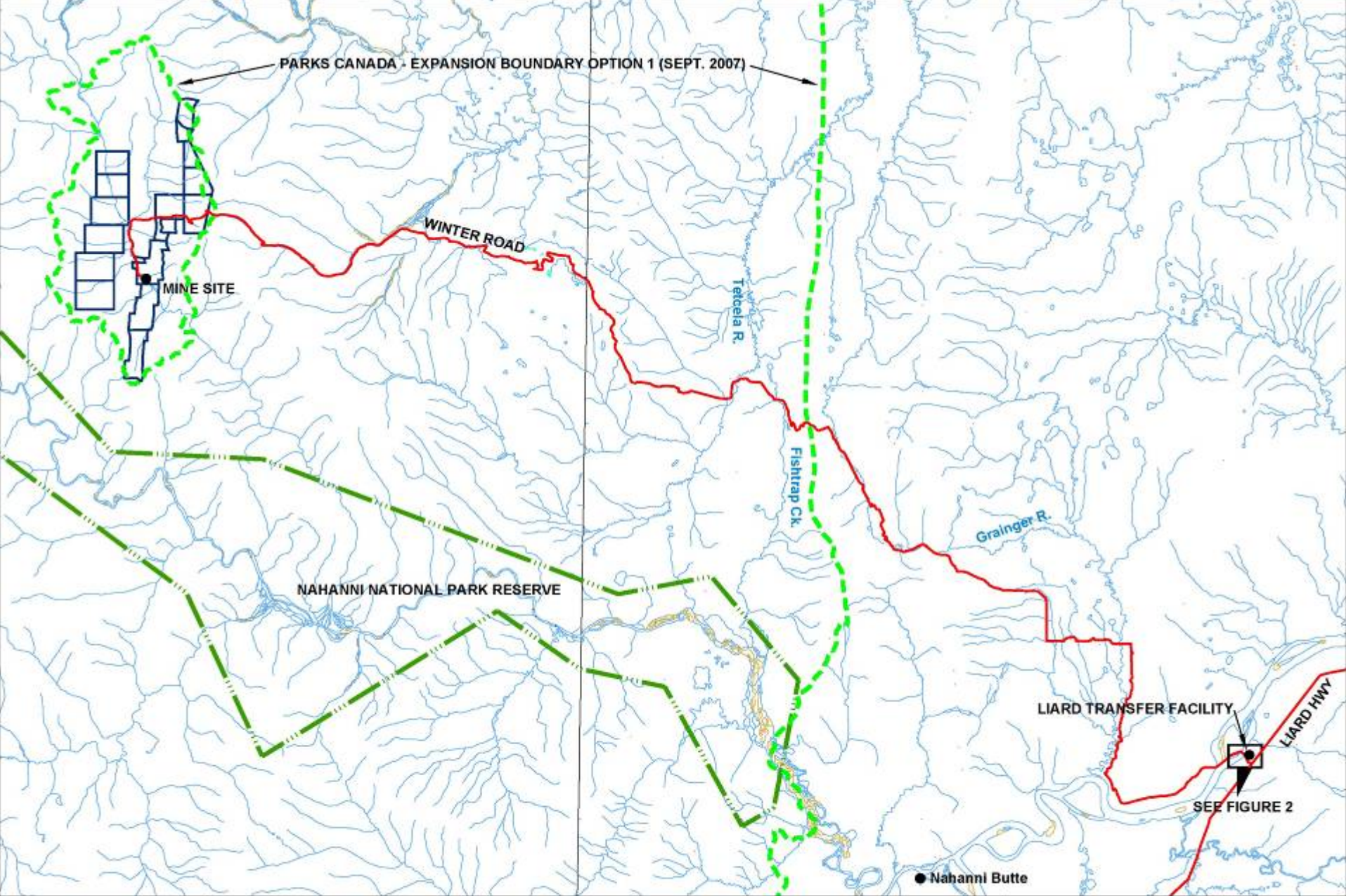


Plate 1: Area of Proposed Tetcela Transfer Facility Showing Winter Road Corridor (2007, Looking East Towards Tetcela River)





Plate 2: Proposed Structure for Tetcela Transfer Facility  
TOP: Exterior View of Structure, in place at Ekati Mine  
BOTTOM: Interior View of Structure Showing Concentrate Tote bags (photo courtesy of Sherwood Copper)



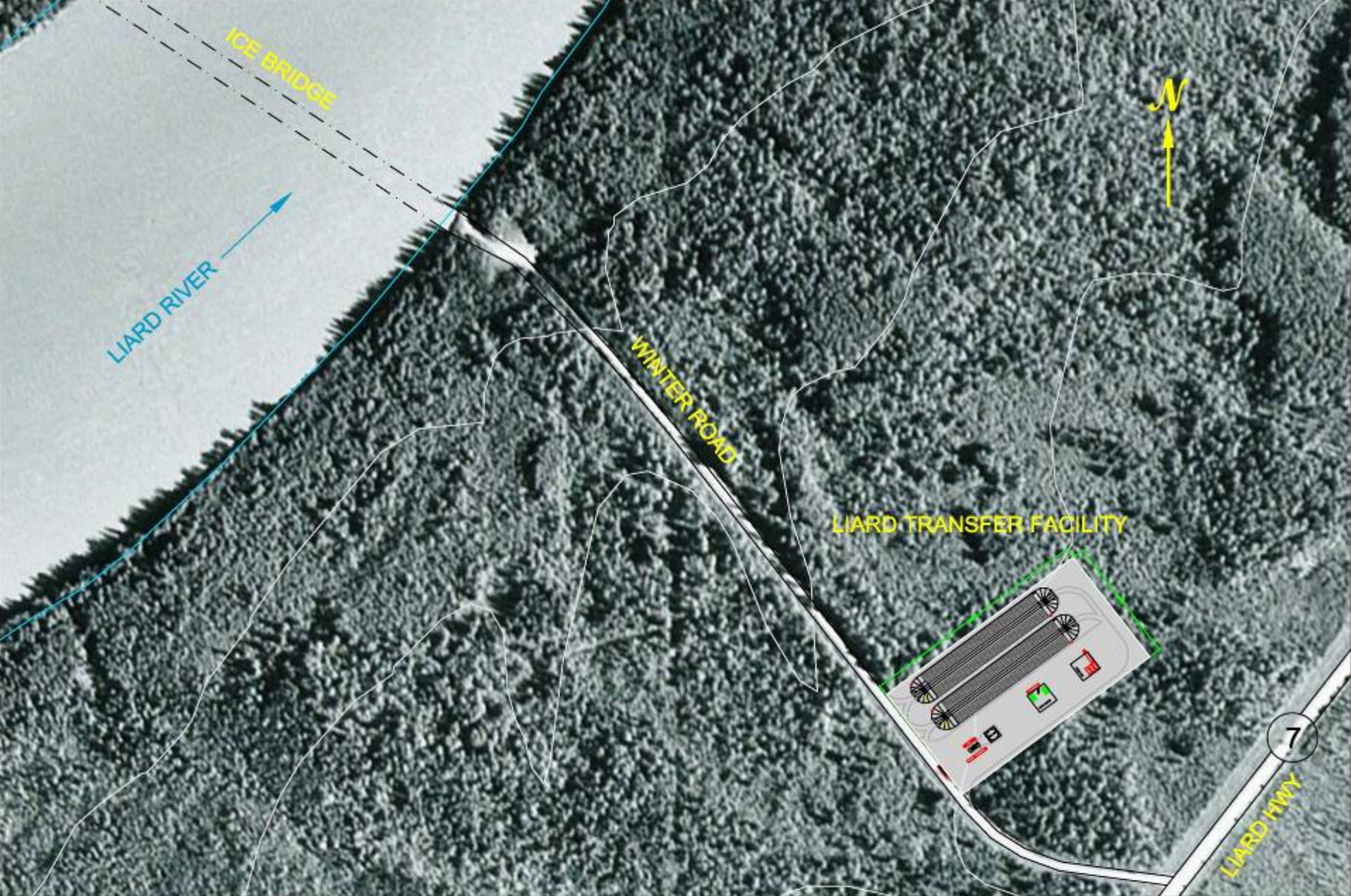
Date:	April 2008
Drawn By:	CH
Scale:	As Shown
Drawing:	LTF Fig 1.dwg



**PRAIRIE CREEK MINE**

**FIGURE 1: LOCATION OF LIARD TRANSFER FACILITY**





Date:	April 2008
Drawn By:	CH
Scale:	As Shown
Drawing:	LTf Fig 2.dwg

PRAIRIE CREEK MINE

**FIGURE 2:  
LOCATION OF LIARD TRANSFER FACILITY**









Thank you