

2007 Northwest Territories Mineral Exploration Overview

February 2008



K.E. MacFarlane, S.P. Goff, and D. Irwin, Northwest Territories Geoscience Office, Yellowknife, NT

This publication may be obtained from the Northwest Territories Geoscience Office:

Northwest Territories Geoscience Office
4601-B 52 Avenue
P.O. Box 1500
Yellowknife, NT, X1A 2R3 Canada
867-669-2636
www.nwtgeoscience.ca

In referring to this publication please use the following citation:

MacFarlane, K.E., Goff, S.P., and Irwin, D., 2007. 2007 Northwest Territories Mineral Exploration Overview; Northwest Territories Geoscience Office, 16 p.

This publication was first printed in November 2007 and updated in February 2008.

Cover Illustration: Alberta Star's camp on Echo Bay, Great Bear Lake, NT

TABLE OF CONTENTS

Northwest Territories Mining Highlights for 2007.....	1
Northwest Territories Mineral Exploration Highlights for 2007.....	2
Diamond Exploration - Slave Province	2
Diamond Exploration - Off the Slave Craton	6
Metal Exploration	7
Further Information.....	15

FIGURES

Figure 1: Diamond exploration projects in the Slave Province of the NWT in 2007.....	2
Figure 2: Diamond exploration projects off the Slave Craton in the NWT in 2007.....	6
Figure 3: Precious, base and energy metals exploration in the NWT in 2007.....	8

TABLES

Table 1: Diamond recovery from DD17 kimberlite, Monument Property	3
Table 2: Diamond recovery from RIP kimberlite, Monument Property.....	4
Table 3: Summary of Slave Province NWT diamond exploration in 2007	5
Table 4: Diamond recovery from the Dharma kimberlite	6
Table 5: Summary of diamond exploration in 2007 off the Slave Craton in the NWT	6
Table 6: Highlights from significant mineralized intervals, Eldorado and Contact Lake.....	7
Table 7: Summary of 2007 NWT precious, base and energy metals exploration.....	9
Table 8: Resource summary for Prairie Creek	11
Table 9: Sue-Diane Copper-Silver Deposit Resources	12
Table 10: Courageous Lake Gold Resources	13

2007 Northwest Territories Mineral Exploration Overview

Exploration for diamonds, uranium, precious and base metals in the NWT was fostered by higher than average commodity prices. Construction continued at the NWT's third diamond mine; bulk sampling took place on various diamond projects and polymetallic projects; and there was increased exploration activity for nickel and platinum group elements.

NORTHWEST TERRITORIES MINING HIGHLIGHTS FOR 2007

Diavik Diamond Mine Inc., a joint venture between **Diavik Diamond Mine** (60%) and **Aber Diamond Ltd.** (40%) produced 2.9 million carats of diamonds in the fourth quarter bringing their year to date production to 11.9 million carats. Production was predominantly from the A154 South pipe. Work on the new A418 open pit is on schedule with ore release expected in the first quarter of 2008. Once the A154 North pipe is accessible via underground workings mining of the pipe will continue. An underground feasibility study was completed on the A418 and A154 pipes; funding was received and construction of underground tunnels and surface works will take place over the next 2 years. Underground production is set to begin in 2009, and replace open pit mining by 2012. A bulk sample was mined from the A21 pipe for diamond evaluation; however a decision has been made to defer the development of the pipe pending further engineering studies and economic evaluations that could significantly improve the economics of the project. At the beginning of 2007 ore reserves for the A154 South, North and A418 pipes were reported at 24.5 million tonnes grading 3.3 carats per tonne for 81.7 million carats contained.

Production at **BHP Billiton** (80%), **Stu Blusson** (10%) and **Chuck Fipke's** (10%) **Ekati Diamond Mine** totaled 4.6 million carats in the first three quarters of this year. The mine is in transition to a predominantly underground operation and is processing a blend of ore from open pit and underground sources. Mining continues in the Fox and Beartooth open pits; the Panda underground mine is running at full capacity; underground tunneling and ventilation were completed at the Koala pipe. The first underground production blast on the Koala kimberlite took place in October and full production is expected by mid-2009.

North American Tungsten Ltd. production of tungsten concentrate from **Cantung** for the fiscal year ending September 2007 was 2860 tonnes. Production recovery is at 76% WO_3 . Diamond drilling has focused on orebody extensions below the "West Extension" and intersected high grade tungsten ore. After an initial review of historical feasibility studies a full feasibility study was initiated on the **Mactung** property in November 2007. Mactung is one of the largest known undeveloped high grade tungsten-skarn deposits in the world with an indicated resource of 33.0 million tons grading 0.88% WO_3 and an inferred mineral resource estimate of 11.3 million tons grading 0.78% WO_3 .

De Beers Canada continued with mine infrastructure construction and underground development on the **Snap Lake** diamond mine site. The deposit has an indicated resource of 1.4 million tonnes and an inferred resource of 25 million tonnes, with a recoverable grade of 1.2 carats per tonne. Production is set to begin in 2008.

NORTHWEST TERRITORIES MINERAL EXPLORATION HIGHLIGHTS FOR 2007

Diamond Exploration - Slave Province

Diamond exploration programs taking place in the Slave Province are shown on Figure 1 and publically reported work is summarized in Table 3.

Anglo Swiss Resources Inc. and New Shoshoni Ventures Ltd. completed 18.0 line kilometres of total field ground magnetics and 6 line kilometres of horizontal loop electromagentics on the **Fry Inlet** diamond property in the Lac de Gras region. A drill program targeted a cluster of seven high-priority targets including the LI 201 kimberlite. Kimberlite core produced from the program is being analyzed for diamonds.

Arctic Star Diamond Corp. completed extensive detailed ground magnetics, seismic and gravity geophysical surveys on its **Credit Lake Diamond Property**, 32 kilometres southwest of Ekati. Eleven drill holes targeted geochemical and geophysical anomalies associated with the South Coppermine mineral dispersion train and two drill holes targeted gravity anomalies in a mineral dispersal train north of the Coppermine River. Kimberlite was not intersected in drilling. Till sampling, prospecting and auger sampling were done in the summer. Recent nickel exploration in the area prompted the company to prospect and sample for base metals on the property. Ultramafic rocks that intrude sulphur bearing iron formations were identified. Assay results are pending.

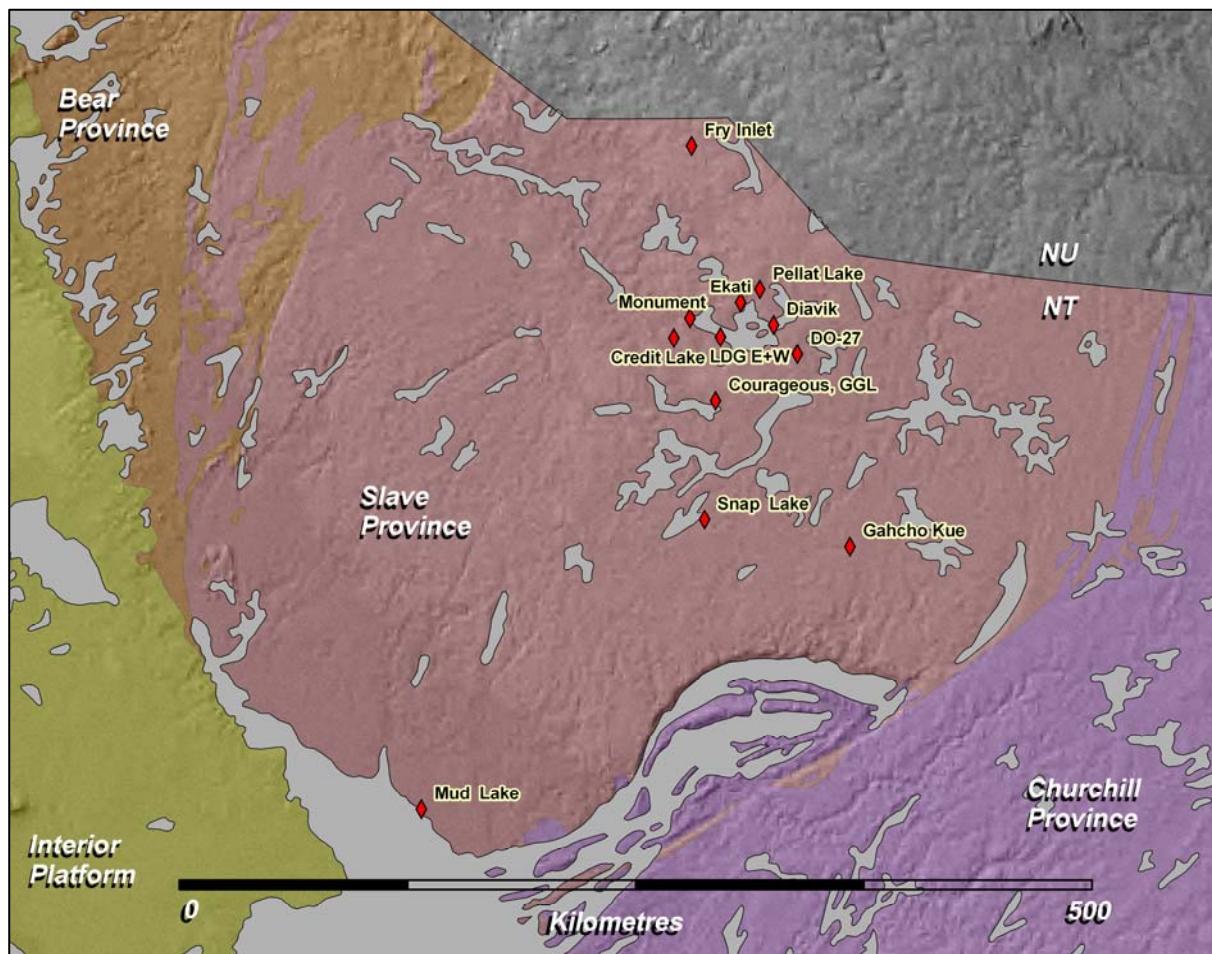


Figure 1: Diamond exploration projects during 2007 in the Slave Province of the NWT

Within the **Ekati Core Zone** property, operator **BHP Billiton** (80%) and partners **C. Fipke** (10%) and **S. Blusson** (10%), completed delineation diamond drilling and advanced reverse circulation drilling on the Pigeon pipe. Six geophysical targets were tested using helicopter supported diamond drilling. Two new kimberlite pipes were discovered (Kia and Redwing).

In the **Ekati Buffer Zone** property, operator **BHP Billiton** (58.8%) and partners **Archon Minerals** (31.2%) and **C. Fipke** (10%), completed delineation drilling (11 holes) on the Jay pipe and follow-up reverse circulation drilling on the Cardinal pipe. A total of 156 kimberlites have been confirmed to date across the Ekati property (Core Zone and Buffer Zone).

DeBeers Canada (51%) and **Mountain Province Diamonds Inc.** (49%) completed a land based large diameter drilling program on the **Gahcho Kué** project 300 kilometres northeast of Yellowknife. This program involved drilling five holes and was designed to recover approximately 60 tonnes of material for recovery of approximately 100 carats of diamonds. The bulk sample will be used to confirm the micro to macro diamond relationship on the north lobe of 5034. Holes drilled on the 5034 East Lobe will undergo geochemical analysis and thin section work in order to confirm the continuity between the North and East lobes at depth. Confirmation of the kimberlite continuity allows for increased confidence in resource calculations. In addition, over 8576 metres of delineation drilling (26 holes), on a 35 metre grid pattern, was completed on the Tuzo pipe in spring. Four of these holes terminated in kimberlite at 400 metres depth.

Diavik ran a spring exploration program and drilled several new targets east of the mine site. Detailed ground magnetic and horizontal loop EM surveys totaling 425 line kilometres were completed during the spring and summer programs. Three hundred till samples were collected as follow-up to the geophysical surveys. An additional new kimberlite was discovered on its large lease block, bringing the total number of kimberlite bodies on the property to 68.

GGL Diamond Corp. collected 146 till samples and 145 soil samples from its **CH** project area: several groups of claims west of Lac de Gras

Due south of the Ekati leases, **New Nadina Explorations Ltd.** (57.49%) with partners **Chris & Jeanne Jennings** (22.11%) and **Archon Minerals Ltd.** (20.40%) explored their **Monument** property. Six grids of detailed ground geophysics were completed, delineation and mini-bulk sampling was done on the RIP kimberlite and 16 drill holes (1330 metres) were completed. Four holes (306 metres) were drilled into the DD17 kimberlite and 640.5 kilograms of kimberlite processed for diamond recovery. The sample yielded seven stones greater than 0.85 millimetres. Diamond results of 640.5 kilograms collected from 2007 diamond drilling are given in Table 1 along with results from 399.86 kilograms of previously collected material from the DD17 kimberlite.

Table 1: Diamond recovery from DD17 kimberlite, Monument Property

Combined Weight (kg)	0.106mm Sieve	0.15mm Sieve	0.212mm Sieve	0.3mm Sieve	0.425mm Sieve	0.6mm Sieve	0.85mm Sieve	1.18mm Sieve	1.70mm Sieve	TOTAL
640.5	84	75	63	21	19	3	5	1	1	272
399.86	57	41	45	10	24	4	1	1	0	183

Approximately two tonnes (1976 kilograms) of kimberlite was extracted from the RIP kimberlite, which recent drilling has shown to be 0.412 ha in area. Diamond recovery results are given in Table 2.

Table 2: Diamond recovery from 1195.0 kilogram sample, RIP kimberlite, Monument Property

Combined Weight (kg)	0.106mm Sieve	0.15mm Sieve	0.212mm Sieve	0.3mm Sieve	0.425mm Sieve	0.6mm Sieve	0.85mm Sieve	1.18mm Sieve	1.70mm Sieve	2.36mm Sieve	TOTAL
1,195.0	239	108	81	49	36	15	8	4	1	1	542

Drilling was also carried out close to known kimberlites (DD17-11, Sonja and NIC), as well as on magnetic anomalies. A newly discovered kimberlite, a 7.6 metre drill intersection, was named Genie. This body may extend to the west beneath a magnetic anomaly. A 10 centimetre intercept of hypabyssal kimberlite was drilled between RIP and DD17-11. At DD-39, a body previously discovered by Kennecott, a 37.9 metre intersection of volcaniclastic kimberlite was drilled, whereas 200 metres away, a second hole cut a 3.1 metre intercept of hypabyssal kimberlite. This suggests that DD-39 may be a complex of dykes and blows. Ground magnetic surveys totaling 1200 line kilometres were also completed.

Southeast of Lac de Gras, **Peregrine Diamonds Ltd.** and partners **DHK Diamonds** and **Archon Minerals** collected a bulk sample of 2651 wet tonnes of kimberlite from 28 holes drilled in the **DO-27** pipe using three large diameter (24 inch to 28 inch) reverse circulation drill-rigs. The holes were drilled to a maximum depth of 295 metres below surface. The kimberlite sample was processed at BHP Billiton's bulk sample test plant at the Ekati Mine, and the grade of the pyroclastic kimberlite of the main lobe was confirmed to be 0.89 carats per tonne. This Main Lobe lithology represents at least 80% of the DO-27 kimberlite complex. In total, 18371 diamonds greater than +1 DTC sieve size (approximately +1.1 millimetre), comprising 1724.57 carats, with an average stone size of 0.094 carats per stone, were recovered from approximately 2520 dry tonnes of kimberlite from all lithologies in the Main and Northeast Lobes of DO-27 in the 2007 bulk sample. The 20 largest diamonds ranged from 2.48 to 9.45 carats. Twelve core holes were also drilled, and two new diamondiferous kimberlite lithologies were discovered in the northeast lobe: a re-sedimented volcaniclastic kimberlite; and a possible magmatic kimberlite breccia. Small samples of each (71.4 and 28.1 kilograms respectively) yielded significant numbers of microdiamonds.

Peregrine Diamonds Ltd., Dentonia Resources Ltd. and **DHK Diamonds Inc.** completed ground magnetic surveys over 12 grids (345 line kilometres) and ground HLEM surveys over three grids (10.4 line km) on its **Pellat Lake** property. The ground anomaly tested a five kilometre long, WNW-trending structure which hosts the PL-01 and PL06-05 kimberlites. Core drilling and till sampling were also carried out.

Peregrine Diamonds Ltd. and **Thelon Ventures Ltd.** carried out till sampling, and 322 line kilometres of ground magnetic and 89 line kilometres of HLEM surveys at **Lac de Gras East**; and till sampling, 800 line kilometres of ground magnetic surveys over 19 grids and ground HLEM surveys over seven grids at **Lac de Gras West**. Both properties were drilled.

Peregrine Diamonds acquired the **Mackay West** property in 2006. Eighty-two till samples were collected from the property in July 2007 in order to confirm an indicator mineral anomaly; results were not repeated.

Table 3: Summary of Slave Province NWT diamond exploration in 2007

Operator / Partners	Property	Drilling	Airborne Geophysics	Ground Geophysics	Sampling and Other Work
Anglo Swiss / New Shoshoni	Fry Inlet	5 holes		18.0 line km mag and 6.0 line km HLEM	Till HM sampling
Arctic Star Diamond Corp.	Credit Lake	11 holes		Mag, seismic, gravity	Till samples, auger samples, prospecting
BHP Billiton Diamonds / C. Fipke / Archon Minerals	Ekati Buffer Zone and Core Leases	Delineation drilling Jay and Pigeon pipes. RC drilling Pigeon and Cardinal pipes. Drilled 6 geophysical targets			2 new kimberlites discovered – Kia and Redwing
De Beers Canada / Mountain Province / Camphor Ventures	Gahcho Kué	1500 m large diameter core. 8400 m (26 holes) of delineation drilling			Resource calculation, microdiamond analysis, macro diamond re-valuation
Diavik Diamond Mines		Yes		425 line km mag, HLEM	2 new kimberlites discovered
GGL Diamond	CH Property				146 till and 145 soil samples
New Nadina / Chris and Jeanne Jennings / Archon Mineral	Monument	4 holes (306m) on DD17 kimberlite, 16 holes (1330) on RIP kimberlite, drilling nearby known kimberlites		1200 line km mag	640.5 kg of DD17 processed 1976 kg of RIP processed Discovered new kimberlite Genie
Peregrine Diamonds / Archon Minerals / DHK Diamonds	DO-27	28 RC holes to collect 2651 wet tonne bulk sample 12 diamond drill holes			Grade estimate calculated, diamond recovery
Peregrine Diamonds / Thelon Ventures	Lac de Gras East and West	2 targets drilled at Lac de Gras West, no kimberlite intersected		1122 line km of mag, 89 line km of EM on Lac de Gras East, 7 HLEM surveys on Lac de Gras West	Till HM sampling
Peregrine Diamonds / Dentonia Resources / DHK Diamonds Inc.	Pellat Lake	Yes		345 line km of mag, 10.4 line km of HLEM	HM sampling
Peregrine Diamonds	Mackay West				82 till samples
Snowfield Development Corp. / Consolidated Gold-Win Ventures Inc.	Mud Lake				500 tonne bulk sample, processing by DeBeers Canada
Snowfield Development Corp.	Sipper Lake	14 diamond drill holes	939 line km	Mag, gradiometer	Soil samples

RC – reverse circulation, Mag – magnetic, EM electromagnetic, HLEM – horizontal loop electromagnetic, HM-Heavy Mineral

Southeast of Yellowknife, **Snowfield Development Corp.** and **Consolidated Gold-Win Ventures Inc.** completed the removal of a granite cap and took a 500 tonne bulk sample of the **Mud Lake** kimberlite sill. DeBeers Canada Exploration Ltd. has processed the first 100 tonnes of the bulk sample at their Dense Media Separation Plant in Grande Prairie, Alberta. Processing yielded 1559.71 kg of concentrate; the concentrated was divided into two batches, one of which was shipped to the DeBeers laboratory in Johannesburg, South Africa for diamond recovery and the other batch was sent to the Saskatchewan Research Council laboratory in Saskatoon, Saskatchewan.

Snowfield diamond drilled approximately 20 holes at **Sipper Lake**, to the northeast of Mud Lake. Over 100 till samples were also collected in the Sipper Lake area. On the nearby Red and Faya claims Terraquest Surveys Ltd. flew a 939 line kilometre airborne geophysical survey. Ground geophysical surveys and soil sampling were completed in attempt to ground truth aero-magnetic targets. A ground magnetic survey was completed on the Wire claim.

Diamond Exploration - Off the Slave Craton

The location of diamond exploration programs taking place off the Slave Craton are shown in Figure 2, and publically reported work is summarized in Table 5.

Diamonds North Resources Ltd. performed detailed ground geophysical surveys over 116 of 204 targets on the **Hepburn property** in the Proterozoic Hornby Basin. Airborne geophysical surveys were completed including over 18000 line kilometres of a fixed wing survey, 22900 line kilometres of a helicopter magnetics survey, and 3720 line kilometres of detailed helicopter magnetics over select targets. Reverse circulation drilling of 21 geophysical targets did not intersect kimberlite.

Diamonds North completed a 12000 line kilometre airborne geophysical survey on the non-surveyed portion of their **Banks Island Property**.

On permits just east of the Minto Inlier on Victoria Island, **Great Northern Mining and Exploration** collected till samples.

Olivut Resources Ltd. explored their **HOAM Project Area** in the Interior Plains region south of Great Bear Lake. They completed an airborne magnetic survey and detailed geophysical survey. The low level helicopter magnetic survey confirmed magnetic anomalies. Eighteen targets were drilled in Phanerozoic sediments with bedrock intersected in 14 holes. Core samples of ultramafic material were submitted for caustic fusion digestion. Abundant pyrope garnet and picroilmenite grains were recovered. The chemistry, analyzed grains of olivine, chrome diopside, and phlogopite, and preliminary petrographic assessment confirm a diatreme facies kimberlite interpretation.

North of Great Bear Lake, in the Interior Platform, **Sanatana Diamonds Inc.** and **Kennecott Canada Exploration Inc.** flew 3425 line kilometres of an airborne magnetic and EM survey across six main areas with kimberlite indicator mineral trains (Greenhorn, Yelte, Simpson, Colville, Estabrook and Horton) in their **Mackenzie** project area. Approximately 1100 till samples were collected, and ground magnetic and HLEM surveys were completed in the Greenhorn and Simpson areas. In the Greenhorn area, on the Dease Arm of Great Bear Lake, drilling of the G14 magnetic anomaly, located at the termination of a major indicator mineral

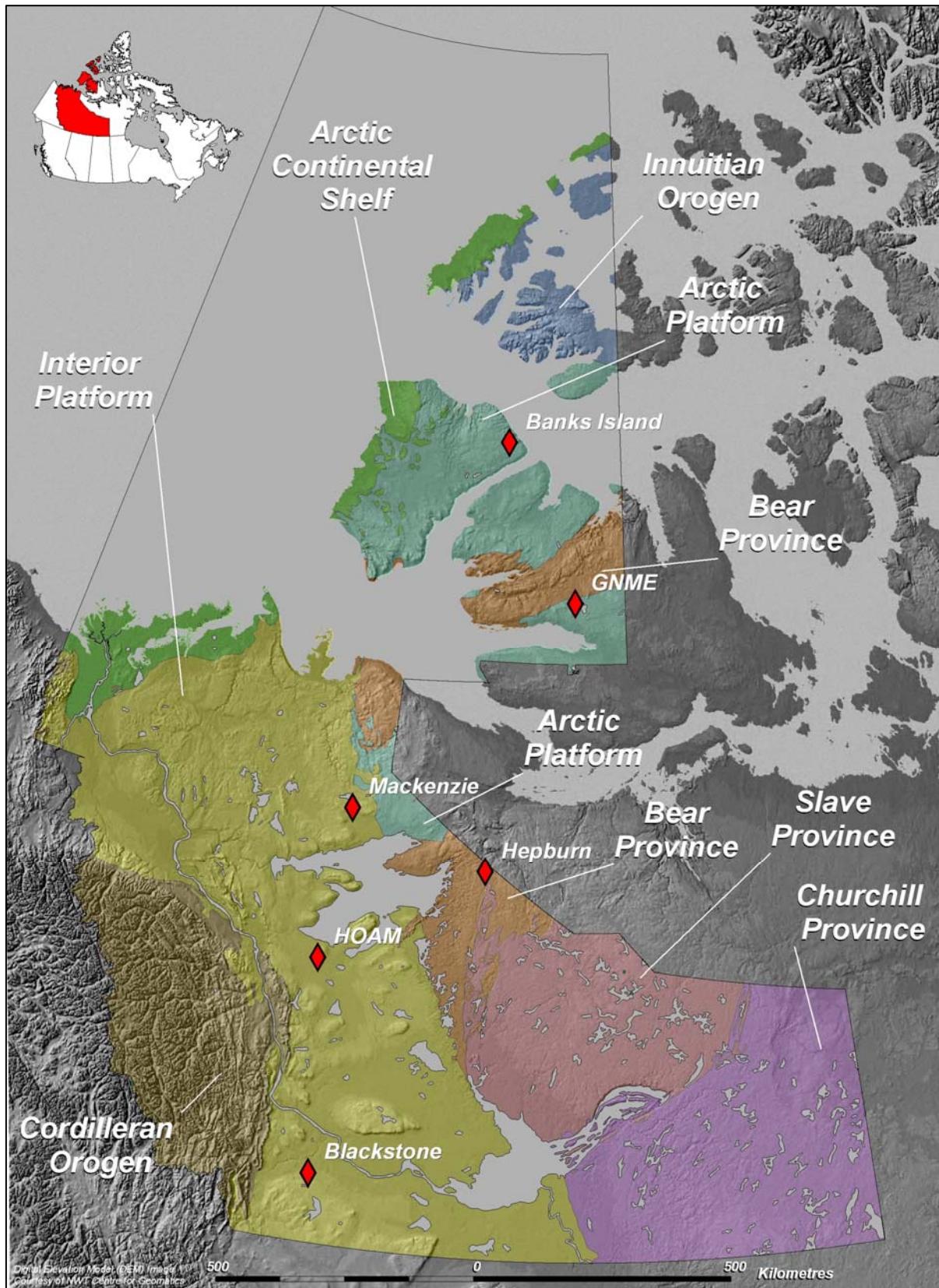


Figure 2: Diamond exploration projects off the Slave Craton in the NWT in 2007

train, intersected a new ultramafic breccia with olivine macrocrysts. This new kimberlite has been named “Dharma”. Sixty-three sample splits were collected from three NQ diamond drill holes. Results from caustic fusion diamond analysis are shown in Table 4.

Table 4: Diamond recovery from the Dharma kimberlite

Combined Weight (kg)	0.106mm Sieve	0.15mm Sieve	0.212mm Sieve	0.3mm Sieve	0.425mm Sieve	0.6mm Sieve	0.85mm Sieve	1.18mm Sieve	1.70mm Sieve	2.36mm Sieve	3.35mm Sieve	TOTAL
1008.9	220	138	94	38	24	17	3	0	1	0	1	536

Stornoway Diamonds Corp. conducted ground geophysical surveys and auger drilling during the month of June on their **Blackstone Project**.

Table 5: Summary of diamond exploration in 2007 off the Slave Craton in the NWT

Operator / Partners	Property	Drilling	Airborne Geophysics	Ground Geophysics	Sampling and Other Work
Diamonds North Resources Ltd	Hepburn	21 RC drilled targets	18000 line km fixed wing 22900 line km heli-mag 3720 line km detailed heli-mag	Detailed surveys over 116 of 204 targets	
Diamonds North Resources Ltd	Banks Island		12000 line km		
Great Northern Mining and Exploration	Minto Inlier Permits				Till sampling
Olivut Resources Ltd.	HOAM	24 holes on 18 targets	Mag		Core samples submitted for assay
Sanatana Diamonds / Kennecott Canada Exploration Inc.	Mackenzie (Dharma kimberlite)	Yes	3425 line km mag and EM	HLEM, mag	1100 till samples, new kimberlite identified Diamond analysis of Dharma core
Stornoway Diamonds	Blackstone	Auger drilling		Yes	

RC – reverse circulation, Mag – magnetic, EM - electromagnetic, HLEM – horizontal loop electromagnetic, HM - Heavy Mineral

Metal Exploration

The location of metal exploration programs are shown in Figure 3. Metal exploration activities are summarized in Table 7.

Alberta Star Development Corp. continued to explore its **Eldorado** and **Contact Lake** claim block. The 2007 drill program consisted of over 19,600 metres of drilling in over 73 holes resulting in over 10200 samples collected and submitted for assaying. The drill program was designed to re-evaluate potential for IOCG mineralization of the former Eldorado-Echo Bay silver and uranium mines and surrounding area. Additional high grade poly-metallic zones were intersected at its Echo Bay, Camel Back, and Skinny Lake IOCG targets. Highlights from drilling are indicated in Table 6.

Table 6: Highlights from significant mineralized intervals, Eldorado and Contact Lake

DRILL HOLE	FROM (M)	TO (M)	INTERVAL (M)	CU (%)	PB (%)	ZN (%)	AG (GRAMS/TON)	NI (%)	CO (%)
EBM-07-08	160.95	165.45	4.5	0.5	8.38	0.68	34.4	0.06	0.09
EBM-07-12	111.5	113.0	1.5	0.38	0.25	1.63	10.10	0.02	0.03
CB-07-06	178.50	180.50	2.0	0.12	0.40	3.09	37.2	-	-
SL-07-01	186.0	193.4	7.4	0.20	0.45	5.64	45.93	-	0.042

In addition, a 60.2 metre intersection of 0.37% copper was drilled at the K2 zone of Contact Lake; ground IP and magnetometer surveys as well as mapping were carried out.

Alberta Star Development Corp. completed a high resolution aeromagnetic gradiometer-radiometric survey on their **MacInnis Lake** uranium project. Fugro Airborne Surveys flew 2093 line kilometres at 100 metre spacing. Results from this survey combined with archived historical drill data will be used in defining targets for work in the summer of 2008. The property is located in the Nonacho Basin 150 kilometres NE of Fort Smith.

Arctic Star Diamond Corp. mapped and sampled ultramafic lava flows on their **New Bigging** property. The property is located 30 kilometres to the southwest of the Credit Lake Property, in the Winter Lake volcanic belt. Mapping and prospecting were done to prove the extension of the geological unit and to sample its extent for nickel mineralization.

Near the north shore of the East Arm of Great Slave Lake **Avalon Ventures Ltd.** drilled 16 holes totaling 2511 metres in the Lake Zone of their **Thor Lake** rare metal project. Two mineralized alteration zones were confirmed. The zones vary in thickness from 10 metres to 35 metres and have been traced laterally over 1100 metres. Eleven hundred and sixty samples were sent for assay. Assay results from the first seven holes include 21.8 metres of 2.32% TREO and 15.6 metres of 2.255 TREO, where TREO is defined as the sum of all 14 REE plus Yttrium, expressed in oxide form. Preliminary petrographic work on a suite of 14 small split core samples was carried out. The mineralized zones contain a complex suite of REE-bearing minerals including bastnaesite, allanite, synchisite, parasite, monazite and fergusonite along with zircon and magnetite. A second phase program is scheduled to commence after freeze-up in 2008.

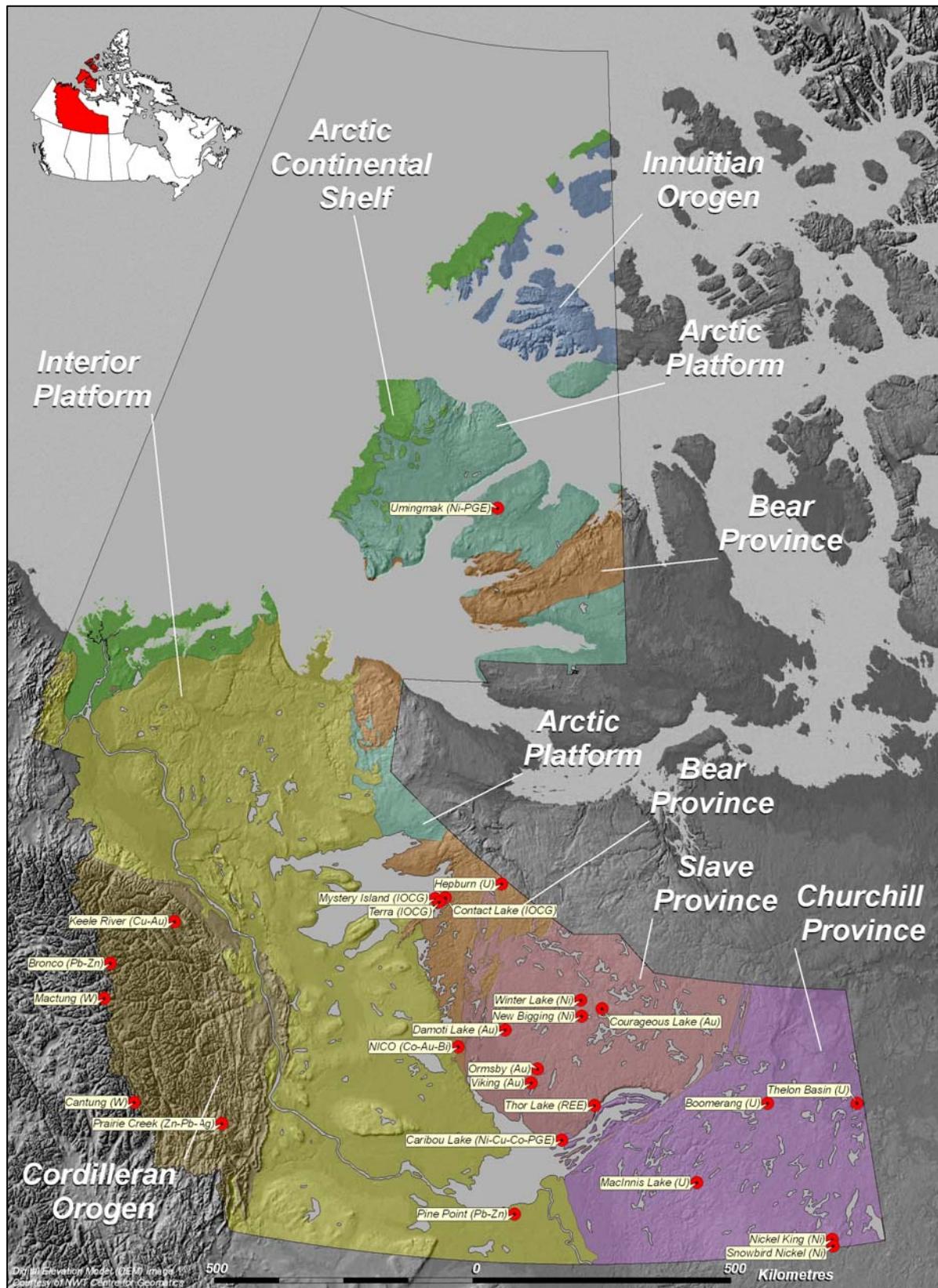


Figure 3: Precious, base and energy metals exploration in the NWT in 2007

Table 7: Summary of 2007 Northwest Territories precious, base and energy metals exploration

Operator / Partners	Property	Commodity	Drilling	Airborne Geophysics	Ground Geophysics	Sampling and Other Work
Alberta Star Development Corp.	Contact Lake / Eldorado	IOCG -U	Over 19,600 m in over 73 holes		IP and Resistivity	Over 10200 core samples
Alberta Star Development Corp.	MacInnis Lake	U		Gradiometer-radiometric survey, 2093 line km at 100 m spacing		
Arctic Star Diamond Corp.	New Bigging	Ni				Mapping, prospecting, sampling
Avalon Ventures Ltd	Thor Lake	REE	2551 m in 16 holes			1160 core samples, preliminary petrographic work
Bayswater Uranium / Uranium North Resources / Strongbow	Thelon Permits	U		7000 line km VTEM 20000 line km radiometric and mag	Yes	Ground checking potential targets
Cameco Corp.	Leith Peninsula	U-Au				Prospecting
Canadian Zinc	Prairie Creek	Pb-Zn-Ag	surface and underground definition			Mineral resource estimate prepared
Cooper Minerals Inc.	Terra IOCG	IOCG	Yes	4241 line km Mag/radiometric		Sampling of historic trenches
Cooper Minerals Inc.	TUT	IOCG				Sampling
Eagle Plains Resources	Bronco	Ag-Cu-Pb-Zn	750 m in 5 holes			Re-analysis of archived samples, mapping, 98 rock samples, 3450 soil samples, 93 stream sediment samples
Fortune Minerals	NICO	Au-Co-Bi				325 m ramp extension, 300 m lateral development, alimak raise, 3600 tonnes ore mined
Fortune Minerals	Sue-Diane	Cu-Ag-Au				Resource estimate

Mag – magnetic, EM - electromagnetic, IP – induced polarization, VTEM – versatile time-domain electromagnetic survey, HLEM – Horizontal loop electromagnetic survey, TEM - time-domain electromagnetic survey, PGE - platinum group elements

Table 7 continued

Operator / Partners	Property	Commodity	Drilling	Airborne Geophysics	Ground Geophysics	Sampling and Other Work
Freeport-McMoRan Copper and Gold Inc. / Kaska Minerals	Keele River	Cu	2386 m reconnaissance drilling			
GGL Diamond Corp.	Winter Lake	Ni				547 rock samples, 973 soil samples, 127 lake sediment samples
Great Bear Uranium Corp. / Hillcrest Resources Ltd	Thelon Basin	U		Radiometric survey		
Great Northern Mining and Exploration / Sumitomo Metals Mining America	Umingmak	Ni-PGE	4500 m	Mag and EM		
Kodiak Exploration	Caribou Lake	Ni-Cu-PGE	Yes			Downhole UTEM and radioimaging
Seabridge Gold	Courageous Lake	Au				New mineral resource model
Solitaire Minerals	Mystery Island	IOCG				Sampling
Strongbow Exploration Inc.	Nickel King	Ni	Drilled Main Zone, Joe Island, South Ring and Koonia targets		Mag and EM	Known strike length of Main Zone extended to 2200 m
Strongbow Exploration Inc.	Snowbird Nickel	Ni		4400 line km time-domain EM		
Tamerlane Venture	Pine Point	Pb-Zn				Feasibility and environmental study
Tyhee Development	Ormsby	Au	Definition drilling of ore zone			Resource calculations, metallurgical testing
Tyhee Development	Nicholas Lake	Au	4000 m			
Tyhee Development	BigSky	Au	4 holes			prospecting
Tyhee Development	Goodwin Lake	Au	4 holes			34 grab samples
Uranium North Resources	Hepburn	U		21000 line km		64 rock samples
Uranium North Resources	Thelon UNR	U		4250 line km		
Uravan Minerals / Cameco Corp.	Boomerang	U-Au	Reconnaissance drill program			Gamma probing of drill holes, sampling of core
Viking Gold	Viking	Au	13 holes, 2426.5 m	Dighem EM and mag		Sampling, mapping

Mag – magnetic, EM - electromagnetic, IP – induced polarization, VTEM – versatile time-domain electromagnetic survey, HLEM – Horizontal loop electromagnetic survey, TEM - time-domain electromagnetic survey, PGE - platinum group elements

In the southern **Thelon Basin** area, exploring for uranium, **Bayswater Uranium Corp.** flew a 7000 line kilometre VTEM geophysical survey over the internal portion of the Southeast Block. They also flew a 20000 line kilometre radiometric and magnetic survey over all properties around the margin of the basin, including those involving partnerships with **Strongbow** and **Uranium North Resources**. Bayswater also completed ground geophysics and prospecting on its CL claims, and ground checking of potential targets was carried out on the properties in partnership with Uranium North.

Cameco prospected on uranium and gold showings on the **Leith Peninsula** of Great Bear Lake.

In the southern Mackenzie Mountains **Canadian Zinc Corp.** advanced their **Prairie Creek** zinc-lead-silver project by completing approximately 8200 metres (41 holes) of underground definition drilling, drilled on 50 metre centres along a new 400 metre internal decline adjacent to the Main Zone. A new mineral resource estimate, based on mineralization type, was independently prepared for the Main Zone, see Table 8. Estimates include results from the recently completed underground Phase I drill program. In November 2007 a Phase II drill program was initiated from the recently established decline.

Table 8: Resource summary for Prairie Creek (CIMM, 2000), MineFill September 2007

MINERALIZATION TYPE	CATEGORY	TONNES	PB (%)	ZN (%)	AG (GRAMS/TONNE)	CU (%)
Vein plus Stratabound	Measured	1,550,041	9.68	12.22	155.0	0.282
	Indicated	3,608,123	11.36	10.97	184.7	0.385
	M + I	5,158,164	10.85	11.35	175.8	0.354
Stockwork	Indicated	682,165	2.68	5.85	50.15	0.112
Totals	Measured	1,550,041	9.68	12.22	154.95	0.282
	Indicated	4,290,288	9.98	10.16	163.34	0.342
	M + I	5,840,329	9.90	10.71	161.12	0.326
	Inferred	5,541,576	11.43	13.53	214.80	0.514

Cooper Minerals Inc. identified significant gold values at the **Terra IOCG Project** on the east shore of Great Bear Lake. Grab samples collected from historic trenches returned gold values up to 36.0 grams/tonne. A 4241 line kilometre magnetic/spectrometer survey was flown over the property.

Grab samples were collected from **Cooper Minerals'** **TUT** claims, 40 kilometres north of the Terra Project. High-grade gold, copper, and silver mineralization was sampled and assay results ranged to 48.7 grams/tonne gold, 3.97% copper and 235 grams/tonne silver.

Eagle Plains Resources Ltd. drilled 5 holes (750 m) on their **Bronco Property**, a sedimentary-hosted silver, copper, lead and zinc occurrence in the Mackenzie Mountains near the NWT/Yukon border. Geological mapping, prospecting (98 rock samples collected), and ground surveys including geophysics, soil geochemistry (3,450 samples) and stream sediment geochemistry (93 samples) were completed.

Fortune Minerals Ltd. completed further underground test mining on its **NICO** cobalt-gold-bismuth deposit located in the southern Bear Province. The 2007 program included dewatering of previous workings followed by deepening and extending the ramp by 325 metres to a depth of

200 metres below surface. Three hundred metres of lateral development was done to intersect the lower ore zone. An Alimak raise was driven to surface to provide ventilation and emergency access for underground workings. Mineralized rock extracted during 2007 amounted to approximately 3600 tonnes and used to prepare a 275 tonne composite bulk sample for large-scale pilot plant testing. Waste rock obtained from the mining process will be used for construction and road aggregate.

A new NI 43-101 compliant mineral resource estimate has been released for **Fortune Minerals Sue-Dianne** copper-silver deposit, see Table 9. The resource estimate was based on data from 62 previously drilled holes completed at approximately 50 metre spacing over a strike length of 450 metres.

Table 9: Sue-Diane Copper-Silver Deposit Resources, 0.40% Cu cut-off grade

Classification	Tonnes	Cu (%)	Au (g/t)	Ag (g/t)
Indicated	8,444,000	0.80	0.07	3.2
Inferred	1,620,000	0.79	0.07	2.4

West of Norman Wells, **Freeport-McMoRan Copper and Gold Inc.** and **Kaska Minerals** explored for sedimentary-hosted copper deposits on their **Keele River** property completing 2386 m of reconnaissance drilling west of the June deposit. Two new mineralized occurrences were discovered.

GGL Diamond Corp. conducted exploration work on their **Winter Lake** property. Reconnaissance mapping indicates that komatiites within the greenstone belt are more extensive than previously noted. Results from sampling of these komatiites show anomalous total nickel values between 800 and 4600 ppm. The property hosts a 15 kilometre long 500 metre wide strong geophysical conductor. The company collected 547 rock samples, 973 soil samples and 127 lake sediment samples.

Great Bear Uranium Corp. (40%) and **Hillcrest Resources Ltd** (60%) have undertaken a joint venture in the **Thelon Basin**. Hillcrest Resources had Aeroquest International Ltd. fly a radiometric geophysical survey over their claims in the Thelon. The program was aimed at identifying drill targets for unconformity type uranium deposits. Great Bear Uranium was previously known as Great Bear Resources. As Great Bear Resources, the company carried out a small drilling program on properties on the east shore of Great Bear Lake.

In the Minto Inlier of Victoria Island, **Great Northern Mining and Exploration** and **Sumitomo Metals Mining America** drilled and flew airborne magnetic and EM targets on their **Umingmak** project claims, in a search for nickel-platinum group elements (PGE). They also explored for diamonds.

Kodiak Exploration Ltd. drilled their **Caribou Lake** Ni-Cu-Co-PGE property located near the north shore of the East Arm of Great Slave Lake. Drilling undertaken in 2007 confirmed the presence of abundant sulphide mineralization. The sulphides occur in coarse to very-coarse grained gabbro and pyroxenite. A 1.1 metre intersection in drill hole CL-07-05 grades 0.21% nickel and 0.31% copper. Downhole UTEM and radioimaging (RIM) surveys followed the drilling.

Seabridge Gold Inc. released a new independent mineral resource model for their Courageous Lake project, see Table 10.

Table 10: Courageous Lake Gold Resources at 0.83 gram per tonne gold cutoff

Measured		Indicated		Inferred	
Tonnes (000's)	Grade (grams/Tonne)	Tonnes (000's)	Grade (grams/Tonne)	Tonnes (000's)	Grade (grams/Tonne)
6,293	2.92	53,020	2.14	93,720	1.98

Solitaire Minerals Corp. received results for seven grab samples submitted for copper analysis. The samples were collected from their **Mystery Island** IOCG property in the Great Bear Lake area. Results ranged from 0.774 - 2.665% copper. Final results from a helicopter-borne VTEM geophysical survey flown in 2006 indicate a 12 kilometre long magnetic low which is coincident with a large regional fault. Drill targets have been identified on the property, and the land-use permitting process was started.

At Thye Lake, **Strongbow Exploration Inc.** drilled seven holes (1825 metres) on the Main Zone and three holes (425 metres) on the Joe Island anomaly of the **Nickel King** property during their winter program. Nickel mineralization within the central and eastern portions of the Main Zone is hosted in gabbro sills. Drilling of the Main Zone confirmed previously reported sulphide nickel mineralization returning 29.4 metres grading 0.47% nickel, 53.75 metres grading 0.53% nickel and 17.05 metres grading 0.53% nickel within the lower gabbro sill. Borehole pulse EM surveys were done to aid in the interpretation of drill results. Ground magnetic and pulse EM surveys were conducted during the winter program. Ground geophysical surveys were also carried out during the summer program. Summer drilling was temporarily halted due to a fire that destroyed camp. Drilling resumed in August and nine holes (1750 metres) were completed by early October. Results from drilling include a 32.88 metre intersection grading 1.02% nickel. Five new targets were drill tested with Ni-Cu mineralization reported from the South Ring and Koon targets. Results from exploration in 2007 have extended the known strike length of the Main Zone to over 2200 metres.

Strongbow Exploration Inc. flew approximately 4500 line kilometers of an airborne time-domain EM survey over their **Snowbird Nickel** project area which straddles the NWT/Saskatchewan border. The project area is located along a 240 kilometre strike length of the Snowbird Tectonic Zone. This program was designed to test the nickel potential of the Snowbird Tectonic Zone outside of the Nickel King property.

Tamerlane Venture Inc. announced results of a feasibility and scoping study on its **Pine Point** lead-zinc project, east of Hay River. The R-190 deposit will be the initial focus for development utilizing a freeze perimeter and other proven technologies for underground mining. A 43-101 report completed for the Pine Point property indicated that with a 5% zinc grade cut-off the R-190 deposit had a probable reserve of 1.0 million tonnes with a grade of 11.16% zinc and 5.49% lead. A drill program was initiated in November 2007 with the objective of advancing the project to production in 2009.

Tyhee Development Corp. drilled to define the limits of the **Ormsby Zone** 80 kilometres north of Yellowknife. The strike length of the zone is over 1,400 metres. Seven of 11 holes used to test the northern limits intersected significant gold values including 2.0 metres grading 5.632 grams/tonne from hole NDM397. Approximately 3,400 tonnes of stockpiled mineralized rock from underground sampling at Ormsby was crushed and 10 tonnes were shipped for metallurgical testing. A revised resource estimate for the Ormsby Zone was released in June 2007 and reported a Measured plus Indicated resource of 8.237 million tonnes grading 3.53 grams/tonne gold using a 1.25 grams/tonne cut-off. Results from additional drilling at the Ormsby Zone include 7.250 grams/tonne gold over 6.5 metres. Initial mapping and sampling was completed on the **Clan Lake** property.

Tyhee Development Corp. drilled at the **Nicholas Lake Main Zone** to expand the established resource and confirm the continuity of mineralization. Results from drilling include 31.0 metres grading 6.927 grams/tonne gold and 109.0 metres grading 1.130 grams/tonne gold. Work also included re-sampling of previously drilled holes was completed in order to assess potential for a bulk-mineable resource.

On the **Goodwin Lake Project** VAD showing **Tyhee Development Corp.** drilled four holes. All holes intersected the variably altered and quartz veined targeted mafic intrusion. Thirty-four (34) grab samples collected from the VAD averaged over 5 grams/tonne gold. Of 15 channel samples taken, nine yielded elevated gold values.

Mapping on **Tyhee Development Corp.**'s **Teapot Zone**, a gold-bearing, pyrite-arsenopyrite silicified zone, revealed that it also contains tungsten mineralization (scheelite). Five drill holes tested the Teapot Zone.

The **BigSky** property, recently acquired by **Tyhee Development Corp.**, is located within the Yellowknife greenstone belt, immediately north of Yellowknife, is a 500 metre wide zone with anastomosing shears. Grab samples collected from these shears yielded up to 51.06 grams/tonne gold. Drilling on the BigSky commenced in November 2007. Results from the initial four holes include a 1.5 metre intersection grading 4.823 grams/tonne gold and a 2.2 metre intersection grading 3.462 grams/tonne gold.

Uranium North Resources Corp. flew a 21000 line kilometres airborne geophysical survey over their **Hepburn** property in the Hornby Bay Basin. Sixty-four rock samples were collected and land use permitting for drilling was obtained. A 4250 line kilometre airborne geophysical survey was flown over their **Thelon UNR** project. Detailed ground surveys were completed over several targets. Both properties are being targeted for uranium.

Uravan Mineral Inc. (40%) and **Cameco Corp.** (60%) continued exploring for uranium and gold on their **Boomerang** property. The property is located along the southwestern margin of the Thelon Basin. A 5 hole reconnaissance drill program was carried out and targets were selected by employing a TDEM large fixed-loop ground geophysical survey technique over peaks identified in the 2005 MEGATEM airborne survey. Drilling focused on the G-conductive trend identified from a 2005 and 2006 MEGATEM geophysical survey. Drilling confirmed significant faulting of the Thelon sandstone-basement unconformity contact. The identification of illite-enriched clay alteration hosted in the basal Thelon sandstone-conglomerate section at the unconformity provides evidence of post-Thelon hydrothermal fluid movement along reactivated structures. All drill holes were gamma probed and samples were submitted for major oxide and trace element analysis. Lake water, vegetation and soil sampling was also carried out.

Viking Gold Exploration drilled 13 holes (2426.5 metres) on their **Morris Lake** property during the winter. The program was planned to test conductive anomalies identified by an airborne survey flown in 2006. A mapping and sampling program was undertaken in the summer of 2007 in preparation for continued diamond drilling. Results from the winter program and a review of previous assays led to the recognition of a broad alteration zone hosting known gold mineralization. Drilling results and data from previous work have widened the alteration zone from 50 metres at the shaft area to over 200 metres in the area of the drill holes, and extended the length of the anomalous zone to 1350 metres. Elevated and anomalous gold values were confirmed in the northeast area of the property that includes the southwestern continuation of the Ormsby Break. The anomalous values are in the vicinity of ground EM conductors that have yet to be drill tested.

FURTHER INFORMATION

Further information on mining and mineral exploration can be obtained from the following persons:

Stephen Goff, *District Geologist, Indian & Northern Affairs Canada, Northwest Territories Geoscience Office, P.O. Box 1500, 4601-B 52nd Avenue, Yellowknife NT, X1A 2R3*
867-669-2638
steve_goff@gov.nt.ca

Karen MacFarlane, *District Geologist, Indian & Northern Affairs Canada, Northwest Territories Geoscience Office, P.O. Box 1500, 4601-B 52nd Avenue, Yellowknife NT, X1A 2R3*
867-669-2645
karen_macfarlane@gov.nt.ca

Hamish Sandeman, *Diamond Geologist, Northwest Territories Geoscience Office, P.O. Box 1500, 4601-B 52nd Avenue, Yellowknife NT, X1A 2R3*
867-669-2475
hamish_sandeman@gov.nt.ca

Rose Greening, *NWT Mining Recorder, Indian & Northern Affairs Canada, P.O. Box 1500, 4914 - 50th Street, Yellowknife, NT, X1A 2R3* greeningr@inac.gc.ca