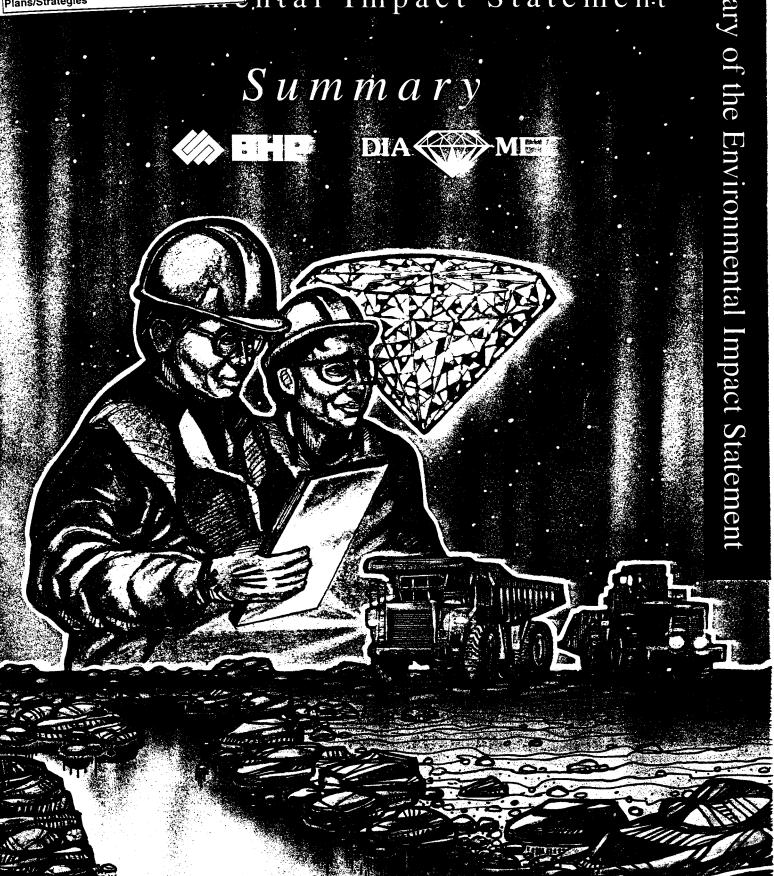


Nwt Diamonds Project - Environmental Impact Statement Type of Study: Plans/strategies Date of Report: 1995 Author: Bhp - Dia-met Catalogue Number: 6-3-35

amonds Project

ntal Impact Statement



NWT Diamonds Project Summary of Environmental Impact Study



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Table of Contents

	to the state of th
	Page
Introduction	A CONTRACTOR OF THE PARTY OF TH
Project Description	7

Project Setting	23
	- ,
Northern Concerns and Project Impacts	29-
	-
Environmental Management	45
Conclusion	51

Preface

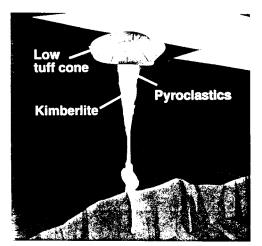
This is a Summary of the Environmental Impact Statement (EIS) for the NWT Diamonds Project, a joint venture between BHP Diamonds Inc. and its Canadian partners the Blackwater Group. The joint venture partners believe that this project, the culmination of more than ten years of prospecting in the North, will become Canada's first diamond mine.

The Proponent of the NWT Diamonds Project is a joint venture of BHP Diamonds Inc. (51%) and the Blackwater Group (49%). The Blackwater Group is composed of Dia Met Minerals Limited, Charles Fipke, the Canadian geologist who originally discovered diamonds and his prospecting partner, geologist Dr. Stewart Blusson. BHP Diamonds Inc. is part of BHP Minerals. BHP Minerals employs 15,000 people in 30 countries. BHP Minerals is a business group of The Broken Hill Proprietary Company Limited (BHP). BHP is Australia's largest industrial and natural resources company. BHP Diamonds Inc. is the Operator of the project on behalf of the project Proponent.

This EIS Summary and its four supporting volumes are being submitted to the Federal Environmental Assessment Review Panel in compliance with project specific guidelines issued by the Panel on May 23, 1995. This report represents three and one half years of intensive sampling and exploration, more than two years of environmental baseline work, more than three years of extensive community consultation and more than two years of detailed engineering design. Detailed information and analysis is provided in the four accompanying volumes of the EIS plus a number of appendices. These volumes are titled *Project Description, Environmental Setting, Environmental Management* and *Environmental Impacts and Mitigation*. These volumes outline the details of the project, the nature of the potential impacts of the project and methodsthat the Proponent will use to address and mitigate these impacts.

Diamonds arc crystallized carbon formed at depths of 150 kilometres or more below the earth's surface under conditions of great heat and pressure.

Erupting kimberlite passes through a



diamond
forming layer
and carries
the diamonds
to the surface.
The erupting
kimberlite
forms a

carrot-shaped volcanic cone. which is often referred to as a "pipe". In the Canadian North, the crater surfaces of the kimberlite pipes have been eroded by glaciers to become small lakes.

Gem-bearing diamond pipes arc so rare that only 15 major mines have been

developed in the world, all of them in
Africa, Siberia or Australia...none in
North America. Despite these odds.
Canadian geologist Chuck Fipke and his
prospecting partner Dr. Stewart Blusson
spent over ten years systematically
prospecting in the North for diamonds.
Fipke and his associates criss-crossed the
North searching for the source of

brightly colored chrome diopsides and garnets. which are associated with kimberlite pipes. On foot or in a light aircraft.

indicator minerals.



Fipke tracked the trail of indicator minerals across the barrenlands along the



Page 1

westward migration path of ancient glaciers. In 1983, to finance his continuing quest for diamonds in the North, Fipke formed Dia Met Minerals Ltd., headquartered in Kelowna, British Columbia.

In 1989, Fipke found indicator minerals

minerals claims. Fipke and Dia Met then sought out BHP, a premier international mining company, to be the Operator of the project. The joint venture agreement was signed in August 1990. With BHP as the

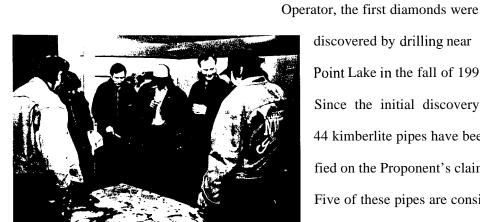
in the Lac de Gras area and started staking

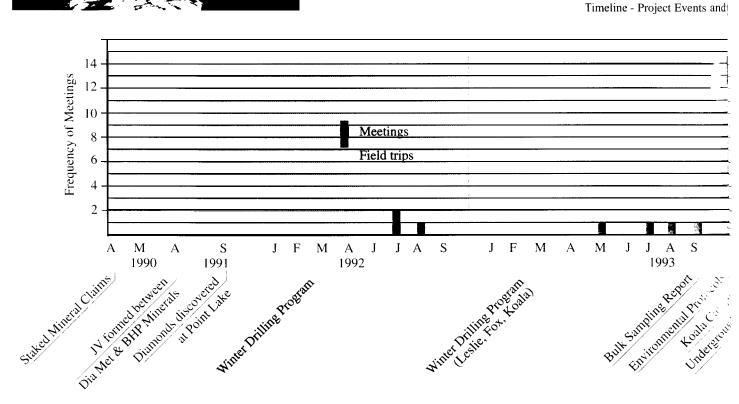
discovered by drilling near Point Lake in the fall of 1991.

Since the initial discovery, a total of $\frac{0}{\overline{0}}$ 44 kimberlite pipes have been identi-

fied on the Proponent's claim block.

Five of these pipes are considered



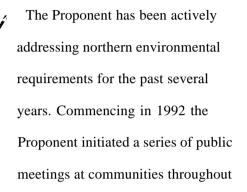


to be economically viable under existing fiscal and regulatory regimes. With approval by the Government and joint venture partners, the dream of creating a diamond mine in the NWT is on the verge of reality,

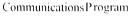
the North to inform residents of its activities and to invite local input on the project development.

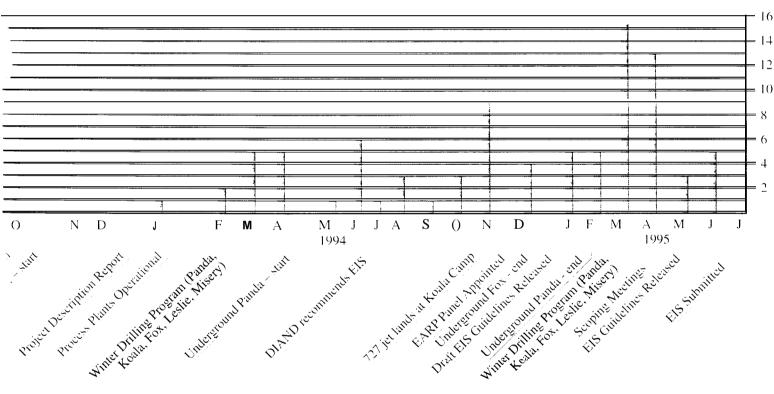
The value that Aboriginal peoples place on their traditional ties to the land was emphasized at meetings attended by the

Proponent in Aboriginal communities and









Page 3

elsewhere. Speakers emphasized the importance of maintaining water quality, safeguarding the Bathurst caribou herd and ensuring that the project avoids causing permanent damage to the land.

The Proponent has strived to identify and understand the applications of traditional knowledge and its various uses in project planning. This has involved many visits to Aboriginal communities by the Proponent, invitations to the Aboriginal people to tour the Lac de Gras project site and visits by the Aboriginal people to mines operated by BHP on Navajo Nation land in the United States.

The Proponent has encouraged the involvement of elders in the identification of wildlife habitat, migration patterns and archaeological sites. Discussions have been held with residents of northern settlements to identify and minimize social disruptions that might be caused by a greater shift towards a wage economy in these small communities. The Proponent accepts that trusting relation-

ships with traditional Northern
communities may take many years to
establish and that several different
approaches may be required before
parties become confident in discussing
sensitive community concerns and
aspirations. The Proponent is
committed to pursuing these long range
relationships with Northern communities.

The arctic climate is a major consideration in the planning of the project. The summer months provide the only costcffective and reasonable period for major concrete construction and lake dewatering. Similarly, the winter period is the only reasonable time to transport equipment, fuel and materials to the project site and to construct frozen core dams. Approval, permitting and climate are interwoven factors that can have significant effects on the project plan and schedule. A one or two month delay in obtaining project approvals can effectively delay the entire project by up to one year.









The project has been designed on the principle of partnership with the local communities and respect for the land.

An Environmental Management Plan based on the principle of pollution prevention has been developed which addresses all known environmental concerns in a comprehensive and integrated manner.



The project development plan centers around the safe and permanent storage of process plant tailings, the control and proper disposal of domestic and other wastes and construction and operation which minimize surface disturbance.

An appropriate site reclamation and abandonment plan is also included.

into the project design and management philosophy.

As confirmation of the Company's commitment to the principles of environmental responsibility, BHP Minerals has won a number of environmental awards for responsible stewardship of the land it mines in Canada. BHP received a Citation for Most Outstanding Program of Environmental Protection and Reclamation for a Metal Mining Company in British Columbia (1979), an Award for Environmental Reclamation (1980 and 1983) and a Citation for Metal Mining (1986).



merator Le sponsibilities

As the Operator, BHP undertakes to meet current environmental and regulatory obligations and to be ready to apply improvisional practices to achieve future standards and requirements. The principles of continuous improvements and flexibility have been incorporated

Paris Services (1907) Paris Services (1907)

Page 5

Project Description

The Proponent is committed to sustainable development and will undertake its operations with concern for long-term influences on the northern environment, including communities. Pollution prevention has been designed into every functional aspect of this project. Such a design approach minimizes any need for subsequent mitigation measures.

The Proponent has incorporated traditional knowledge from the Aboriginal groups in the project planning and the preparation of this Environmental Impact

Statement (EIS). To date this knowledge has been acquired through community meetings, personal

interviews, site visits,

discussions with employees, funding for research and land use maps. The inclusion of traditional knowledge in ongoing project operations will help to ensure that the project benefits from both scientific and engineering disciplines as well as the accumulated learning of generations of inhabitants of the region.

Throughout the development of the EIS
the Proponents approach has been to
understand and to integrate the links
between the project, ecosystem integrity,
social health and economic stability.

Special attention has been paid to tundra
biodiversity, valued ecosystem
components and the project's cumulative
effects.



A major regional study of issues related to mineral

development in the Great Slave

Geological Province (GSGP) is being

undertaken by the Governments of

Canada and the NWT as well as industry

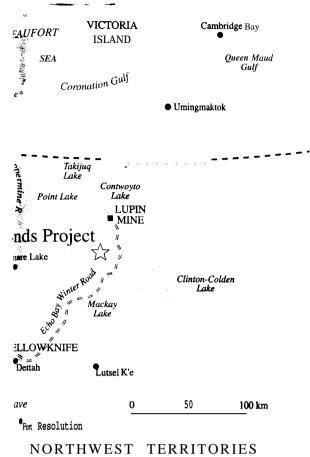
and Aboriginal groups. This study, spanning five years, will develop a baseline of environmental data and examine the links between the various environmental. social and economic settings. It will provide a better understanding of the possible effects of regional development and identify methods to monitor these impacts. The Proponent welcomes the work being undertaken by this program and has pledged financial and logistical support for the study.

The Proponent is also initiating and funding a program with most of the region's Aboriginal groups to develop a baseline of traditional knowledge. This will facilitate future assessment of regional development and assist with monitoring of impacts. In addition, the project has co-sponsored the first year of a multi-year regional research program f'or the barren land grizzly bear, a vulnerable species of the North.

While not dependent upon the completion of the GSGP regional study, it would appear that the review of the NWT Great Bear Lake Diamonds Project is in Fort Norman fact a catalyst for many NWT Diamo aspects of the regional study. Wha Ti Great S It is important to note that lav River historical land claim conflicts exist between **BRITISH** ALBERT'\ COLUMBIA the Treaty 8 and Treaty 11 bands. Both groups are at various stages of negotiations with the federal government in an overlapping area that includes the NWT Diamonds Project. The realities of this conflict often create questions that make the communication and consultation process more

complex for the Proponent.

Page 8



SASKATCHEWAN

Three communities, Dettah, N'dilo and Lutsel K'e, are part of Treaty 8, which was signed in 1899. Dettah and N'dilo are Yellowknives Dene communities while Lutsel K'e is Chipewyan Dene. Wha Ti, Snare Lake, Rae Lakes and Rae-Edzo comprise the Dogrib Treaty 11 Dene, whose treaty was signed in 1921.

the Proponent can only address issues arising from settled land claims. Discussion of royalties, lease payments Currently the Treaty and land access fees must necessarily 8 band is negotiating treaty come from the federal government and the results of its negotiations with the various groups. Therefore, the Proponent has instituted a policy of inclusion with

its consultation program for all the

affected by its operations.

Aboriginal communities that might be

Distance from Project Site Air Distance (km) 200 100

lands entitlement while the Treaty 11 band is in the process of negotiating a comprehensive land claim.

Two other Aboriginal communities are concerned with the project area. The

Inuit of Coppermine and Umingmaktok have settled their land claims in the Nunavut Land Claim Agreement. Coppermine, which is 400 kilometres downstream from the project, is the only community in the same drainage system as the proposed mine.

The Metis (those of mixed European and Dene ancestry) live in the Dene communities in Yellowknife, and also claim an interest in the Lac de Gras area.

All the communities were informed that

General references to "Aboriginal" interests are made throughout the EIS.

For the EIS, the term Aboriginal peoples is meant to include First Nations (Treaty 11 Dogrib Dene, Treaty 8 Yellowknives Dene, Treaty 8 Lutsel K'e (Chipewyan Dene)), Inuit and Metis. Where warranted, specific Aboriginal groups are identified.

.. Surrece

The Human Resources Program will reflect the best practices from BHP's experience as a global employer. The

Program is designed to address the unique personnel issues inherent to operating a mine in the Northwest

Territories.

One of the key components of the
Human Resources Program is a recruitment policy designed to give employment preference to Aboriginal people of
the Northwest Territories, then to nonAboriginal residents of the Northwest
Territories, then to other Canadians. To
ensure the success of this policy, an
innovative selection process, based on
personal aptitude rather than standard
employment criteria, such as education,
experience and qualifications, will be
implemented. This will address concerns
such as the one expressed by Chief

Charlie JeremicK'a at the Dogrib

Treaty 11 Scoping Meeting in

Chief JeremicK'a noted:







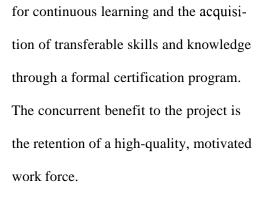
Hiring will reflect the philosophy that

"the best prediction of future performance is past performance in similar circumstances." Potential applicants' understanding and acceptance of this concept will be actively sought by initiating discussions within the local communities to explain the interview process and to adapt or modify it as required based on input from Aboriginal



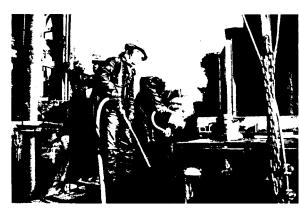
people. In addition, throughout the life of the project, from pre-employment to mine closure. employees will

be provided with extensive training. The benefits to employees are opportunities



Yellowknife has been designated as the point of hire. Employees will be flown between Yellowknife and the mine at the completion of their shift rotation, at Company expense. As some employees will come from smaller communities. transportation to the mine site will be provided at no cost to these communities, utilizing existing commercial services. These communities include Snare Lake, Rae Lakes, Wha Ti, Lutsel K'e and Coppermine. The regular shift schedule will be a two weeks on/two weeks off rotation, working 12 hour shifts per day.

This rotational work schedule will permit Aboriginal employees to maintain traditional lifestyles concurrent with participation in a wage economy.



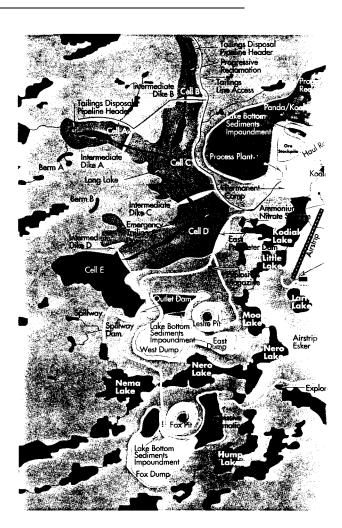
Page 11

The success of the project is dependent on the people of the North. The Proponent is therefore committed to maintaining a flexible, reasonable and responsible approach to its Human Resource policies.

The Proponent views occupational health and safety as its highest human resource priority. The Operator has an Occupational Health and Safety policy that demands of its managers and employees the highest standards of occupational health and safety.

The NWT Diamonds Project has a comprehensive safety program under development that will take into account the special needs of the proposed project such as location, arctic climate and cultural values of the employees.

Ground
transportation to
the project site is
possible only
when the Echo
Bay winter ice
road is in
operation. The
total road
distance from
Yellowknife to
the site is 476
kilometres.

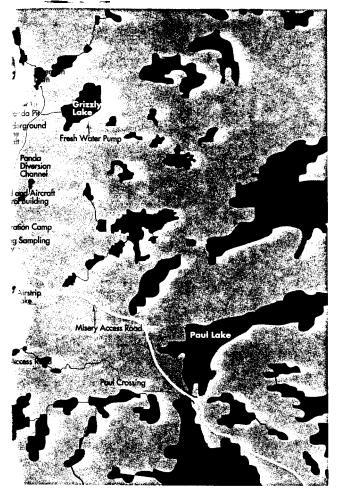


During construc-

tion, an estimated 2,250 truckloads of equipment, materials, tools and consumables will be shipped to the site over the winter road. Transportation requirements during operations will be approximately

2,000 truckloads per year of primarily fuel and ammonium nitrate prill.

Air transport will be an essential feature of project logistics. Chartered aircraft



will be used to transport all personnel to and from the site, to bring foodstuffs and other perishable or critical supplies into the site and to ship diamonds out from the site. The existing airstrip can accommodate Hercules C 130 and Boeing 727

finishings can proceed throughout the winter of 1996/1997. By the close of 1997, the process plant could be processing ore.

The planned work schedule is based on a three weeks in/one week out. 70 h/wk rotational construction schedule. The construction work force will be housed in a temporary 500 person prefabricated trailer-style camp.

Besides the mine and process plant. other buildings and services will be provided on site to support the operation. These facilities include a permanent camp to house a 400-person rotational work force. a diesel power plant, an integrated truckshop/offices/warehouse complex and a security building. Other services and utility systems such as fuel storage and distribution, both potable and process water supply, sewage treatment and waste disposal will be established to supply these main buildings.

and 737 sized jets.



Project construction will commence immediately upon receipt of approvals and permits. The major objective for the summer of 1996 is to prepare enough concrete foundations and piling work to support the erection of building shells before the onset of winter. Once building shells have been erected, interior

Page 13

All facilities are designed in a compact arrangement that takes advantage of the natural site contours. This arrangement also allows for waste heat recovered from the diesel generators to be used for space heating requirements.

Limited infrastructure fo, the satellite
Misery pipe which is located 29
kilometres to the east of the plant site will
consist of diesel fuels storage, a
truckshop/office complex and a smal
self-sufficient camp,

The mine development plan involves five kimberlite pipes. four of which are located within a few kilometers of each other within the Koala watershed north of Lac de Gras. The fifth pipe is 29 kilometres to the southeast of the plant site. adjacent to Lac de Gras. The pipes, known as Panda. Misery, Koala, Fox and Leslie, lie under lakes of the same names. After each of the overlying lakes is dewatered, a conventional truck-shovel

open pit mining operation will commence. followed by underground development of at least two of the pipes.

Over the life of the project, approximately 133 million tonnes of ore and 826 million tonnes of waste will be mined. Between 35 and 40 million tonnes of waste rock will be excavated each year from the open pits and smaller volumes from the underground operations. This rock will be transported by large haul trucks to waste rock dumps in the vicinity of each pit. The waste rock dumps will not encroach within 100 metres of major water bodies.

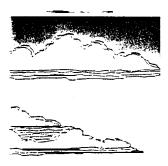
An underground mine at Panda, lasting five years, will be constructed using sublevel caving methods followed by 10 years of similar underground mining at Koala after the respective open pits have been exhausted.

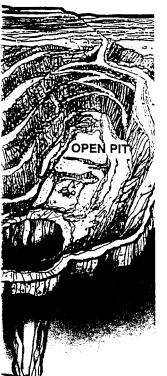






Page 14





ORE BODY

An added feature of the mining plan is the construction of a diversion channel to direct water flows around Panda and Koala lakes into Kodiak Lake. This channel also serves as new fish habitat.

Processing

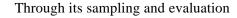
Recovery of diamonds from the ore will take place in a centralized processing plant located southwest of the Koala pit,

The plant is initially designed to handle 9,000 tonnes per day on a 24 hours per day, 365 days per year schedule and an expansion to 18,000

tonnes per day is planned in year 2006.

Diamonds have distinctive physical
characteristics that enable separation from
the host rock through physical rather than
chemical processes. Several stages of
crushing and scrubbing which will
liberate the diamonds and remove the soft
clay minerals from the ore, are followed
by heavy media separation which

segregates diamonds based on their relatively high density. A final stage of X-ray sorting will then be used to separate the diamonds from any remaining heavy minerals. The diamonds will be shipped off site for final cleaning and hand sorting.



process, the Proponent
has become acquainted
with many of the
major market participants in the industry,
with existing industry
practices and with

various marketing alternatives. As a result, the Proponent believes that any diamond processing and manufacture beyond the sale of the rough diamonds is unattractive economically and has no plan to enter into this part of the business. No cutting, polishing or other such downstream processing will be established as part of the project.



Page 15



The Proponent plans to sell rough diamonds on the world market at world prices. Sale may be directly to dealers or manufacturers; through joint venture

marketing entities with
established industry
vendors or agency
arrangements; or by
auction or tender. In any
case, a test marketing
phase will be required for

proper introduction of goods, the development of a reliable customer base and to establish prices for Canadian goods based on tender, auction and direct sale methods. All transactions will be subject to the same valuation and auditing procedures as any other exported goods in international trade.

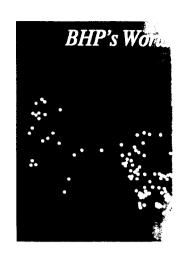
Implicit in this plan is
the intent to do cleaning
and final sorting of
rough diamonds at a site
readily accessible to
potential customers.

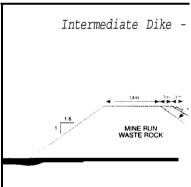
remains to be selected, it is most likely to be Antwerp in Belgium which is the world's major diamond center.

While such a site



Not only is it important for the marketing effort to be near its customers, it is vitally important to have the needed skills in evaluation, sorting and preparation of saleable parcels to maximize the revenues from the project's product. Such skills take many years to acquire and are not





e Activities...

presently available in Canada.

4s a means of assuring that the NWT Diamonds Project does obtain the best prices, the final marketing and sales plan adopted will include a continuous system of reference to current market conditions through competitive tender or auction procedures of a representative sample of rough diamonds being sold. Each step in the process will be open to observation and audit by relevant Canadian authorities.

The process plant tailings will be separated into a coarse sand/gravel sized fraction and a fine fraction. The coarse fraction will be trucked to the Koala waste dump and dumped dry while the Period

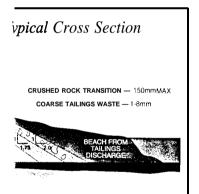
property, immediately
West of the processing

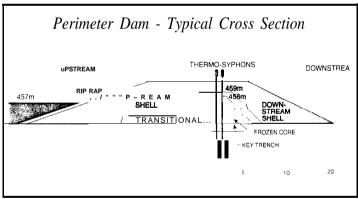
sized lake on the

fine fraction will be

placed into a medium-

plant. This lake, named Long Lake, was chosen because of its size and because it has a small watershed area. The selected lake has the added advantage that it is within the same watershed as the project development and is close to the headwaters of the drainage basin. The storage capacity of Long Lake will be increased by the construction of frozen core dams at the outlet and several perimeter dikes to contain the first 20 years of plant tailings. The lake will be subdivided into five cells by intermediate waste rock dikes. The cells will be filled sequentially thus allowing time for the finest tailings to settle. This tailings facility will also be the source of raw water for the process plant. Clean water discharge from the impoundment will be controlled to ensure that receiving water quality





Page 17

criteria are met. After Long Lake is full, tailings will be discharged into either the Koala and/or the Panda exhausted open pits.

As the tailings cells in Long Lake become consolidated, they will be reclaimed by the installation of waste rock cover and till growth medium. The final revegetation will convert the tailings basin into a wetland environment over a base of frozen tailings.

Rectantan on Decommissioning - na - actir

Reclamation will provide the major means of mitigating impacts associated with the project. Reclamation research at the project site was initiated in 1994. Reclamation activities will be implemented early in the project life and will proceed continuously as sites become available. This will minimize the extent of the area under active disturbance at any one time. Early reclamation will also enable modifications to the process as

additional research
data become
available.

Reclamation will
use the appropriate
plant species in
succession and be



self-sustaining according to the area's natural vegetation. As well, maintenance programs will be developed to treat sites that fail to meet the established standards.

Decommissioning and closure will start after all economically viable ore has been mined and processed. This will entail removing all structures, burying foundations and removing culverts to restore water flow patterns. Reclamation operations will, by that time, be limited to those sites active at the end of operations.

All other sites will already have been reclaimed.

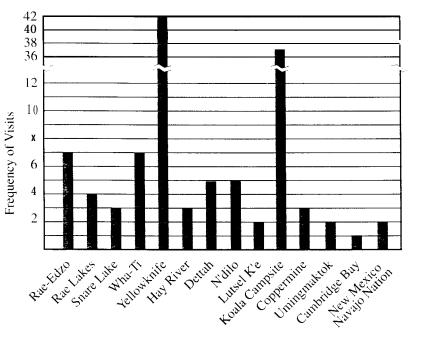


Page 18

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Commencing in 1992, the Proponent embarked on a comprehensive communications program to address the needs for

Visits to Local and Regional Communities



different types of information and the changing needs of the different stakeholders. The Proponent continually adapts and modifies its communication program to meet these needs.

The Proponent identified the following interest groups and tailored the initial

phase of the communication program specifically for each:

- local and regional residents,
 particularly the Aboriginal
 peoples;
- organizations;
- resource users;
- governmental entities.

The objective of the communications plan is to consult with each interest group and to inform them of the proposed diamond mine. This important process affords each group an opportunity to express its unique concerns and allows the Proponent to listen and learn throughout the discussions. Given the diversity of



Page 19



the identified groups and their specific

audio and video tapes were also employed.

To increase interaction and promote Aboriginal participation, the communication program has evolved since its

inception to include direct community

i ssues, this interactive communication process was critical to the creation of an effective dialogue between the parties involved and ultimately to achieve the Proponent's goal of establishing a "good neighbour" policy for the mining operation.



Community meetings, open houses,
public presentations and environmental
workshops were considered the most
effective means of disseminating the
information as well as reaching the
greatest number of residents. Field trips,
cultural exchanges, joint workshops and

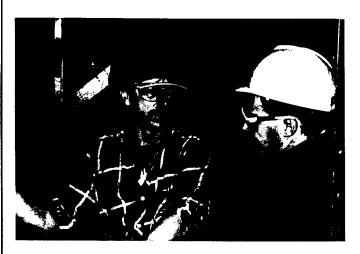
involvement through initiatives such as

Community Mobilization, School

Partnerships and Educational

Scholarships.

Methods of addressing future concerns of the interest groups will continue to be interactive and geared to implementing solutions where possible by using all of the above methods. However, not all issues and concerns can be anticipated, thus the Proponent will address the



unique
concerns of
the
Aboriginal
communities
by commencing discussions of

Benefits Agreements. The interest of
Aboriginal communities in playing a
larger role in the NWT Diamonds Project
was expressed by Violet Camsell-Blondin
of the Dogrib Renewable Resource
Committee in her speaking notes to the
EARP Panel on April 4, 1995:

The Benefits Agreements create longterm mechanisms for ongoing working relationship and provide a good framework for addressing future opportunities and concerns. Benefits will also accrue to the Proponent by allowing the incorporation of traditional knowledge into its operations and the creation of important operational relationships.



Project Setting

77. , ...- 1770

The project lies within the Low Arctic Ecoclimatic region. Summers are short and cool and winters are long and extremely cold. Daily temperatures are often below minus 30"C during winter,

The terrain in the project area is characteristic of the tundra with boulder fields and many lakes interconnected by streams. There are more than 8,000 lakes representing one third of the land mass of the Proponent's minerals claim block.

The land has continuous permafrost, a 250 metre deep layer of permanently

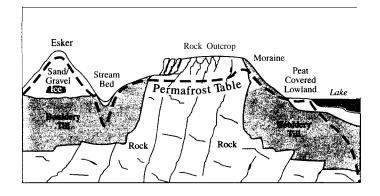
frozen subsoil and rock overlain by a one metre active layer that thaws during summer. The most distinctive physical features of the land are the eskers, sinuous ridges of granular material deposited by glaciers. Eskers are important to wildlife for denning and as travel corridors

for both wildlife and Aboriginal people.



while summer temperatures can reach

25°C. The average annual temperature is minus
11.8°C. Precipitation is sparse averaging 300 millimeters annually with the majority being in the form of snow.



3iological Setting

perspectives, social

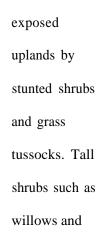
and environmental.

The Lac de Gras area is host to numerous species of resident and migratory mammals and birds. Among these are two key species of particular concern to the people of the north: the Bathurst caribou herd and the barren land grizzly bears. The two species represent concerns from two

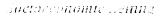
From a social perspective, potential project effects on caribou elicited more concern during public meetings than any other species. Grizzly bears are an environmental concern because they are designated as vulnerable by The Committee of the Status of Endangered Wildlife in Canada (COSEWIC).

Arctic fish populations are characterized by limited species diversity, slow growth rates and often late reproductive maturity The main species are lake trout, arctic grayling, round whitefish, burbot and longnose suckers. Some lakes may have only one dominant species, often lake trout or arctic grayling.

The project area is 100 kilometres above the tree line. Vegetation is dominated in



scrub birch occupy depressions. Wetland areas have a complex of water sedges and sedge-willow communities.



The Northwest Territories is unique in
Canada because of its majority
Aboriginal population, its nine official
languages and its short political history.
The territorial economy is split into a
traditional economy based on hunting,
fishing and gathering and a wage







economy based on resource extraction, government and the service industry.

According to the Federal Minister of
Indian Affairs and Northern
Development, Ron Irwin, in an address to
the House of Commons Standing
Committee on Aboriginal Affairs and
Northern Development on June 15, 1995:

Dene 17%, Metis 7% and non-Aboriginals 39%. The population of the NWT is growing at an extremely high



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federal government with the
fooking of the thought

rate of 25 per 1,000 people which is almost twice the national average. It is also a young population, with approximately 410/0 under age 20 and only 30/. over 65.



7.3 Met

Residents of the NWT represent 0.2% of the Canadian population. The population is Inuit and Inuvialuit 37%,

In 1994, overall NWT unemployment was 170/., among the highest in Canada. However in small, largely Aboriginal communities, unemployment rates are 27% or higher. Unemployment rates are 7% in Yellowknife, significantly below the national average. The population is growing at a much faster rate than the economy and unemployment rates are predicted to further increase.

Page 25

Government is the largest employer in the NWT, and the largest purchaser of northern goods and services. Public sector employment was 46% of the work force in 1993. With the governments of Canada practicing fiscal restraint, the level of private investment in the NWT is of increasing importance.

In the private sector, mining is the NWT'S largest revenue generator, contributing approximately 200/0 of the private sector GDP. Mines and exploration companies collectively purchase about \$50 million in goods and services annually in the NWT. Spending by exploration companies peaked at \$157 million in 1994.

The cost of living in the NWT is expensive when compared to the rest of Canada. For example, weekly food costs are 97% higher in Coppermine and 25% higher in Yellowknife than in Edmonton. When food costs are calibrated against incomes. it is again apparent that

Northerners not employed in above average paying jobs must rely on country foods to augment their household budgets.

The NWT Diamonds Project is of interest to people in many NWT communities. The four communities of Wha Ti, Snare Lake, Rae Lakes and Rae-Edzo. comprise the Dogrib Treaty 11 Nation. Considered the capital of the Dogrib Nation, Rae-Edzo has a population of almost 1,700. The other Dogrib communities range in population from 130 to 400. The small traditional community of Snare Lake, located 180 kilometres west of the NWT Diamonds Project is the closest community to the project site,

Three communities, Dettah, N'dilo and Lutsel K'e are part of Treaty 8. Lutsel K'e, with a population of 300, is the most northerly Chipewyan settlement.

Dettah and N'dilo are the communities of the Yellowknives Dene Band, which

Yellowknife
Hay River
Rae-Edzo
Coppermine
Wha Ti
Lutsel K'e
Rae Lakes
Dettah
N'dilo
Snare Luke
Umingmaktok

0 1.000 2.000





'on Estimate

	→ 17.350
	3.322
	I ,69 <u>3</u>
 	1,180
	408
	290
	263
 	156
	138
	128
	75

3,000 4.()()(

ulation





has a membership of about 1,050. Dettah, with a population of about 150, lies on the east side of Yellowknife Bay about 27 kilometres by road from Yellowknife. N'dilo, which has about 150 residents, is a small community within the City of Yellowknife at the tip of Latham

Island. Most other band members live in greater Yellowknife.

The North Slave Metis people who live in the Dene communities as well as the City of Yellowknife have an interest in the land on which the project is located. Two Inuit communities, Coppermine and Umingmaktok, although located outside the NWT Diamonds Project area, have an interest in the project based on employment opportunities and environmental concerns. Coppermine is the only community in the same water drainage system as the NWT Diamonds Project. The population of Coppermine is approximately 1,200.

Yellowknife, the capital of the NWT, is the largest municipality in the NWT with a population of 17,000. People of Aboriginal ancestry account for 17% of the population. Government is the largest sector of the economy, employing 43°A of the local labour force. Yellowknife's economic growth declined in the early 1990's due to a combination of factors including government cutbacks in spending and the absence of a major development project. Over the past few years, mineral exploration, particularly diamond exploration, has been the engine of growth for the economy of the city.

Hay River is the fourth largest community in the NWT with a population of 3,400. Considered a transportation hub of the Western Arctic, Hay River is the terminus of the only rail line in the NWT. The economy of the community has historically been dependent on major non-renewable resource projects. As a result, Hay River has developed an aggressive private sector providing services and mining supplies.

Northern Concerns and ^ono sect Impacts

nemai sa nai 21.2 ange. ur evature, e, saomy, saritisa

(Darrell Beaulieu, Chief, Yellowknives Dene band).

The issues of linkages between and among components, as opposed to the components themselves, is essential to addressing the concerns of the Aboriginal peoples. Separating humans from nature diminishes each and their complex interrelationship.

artron

Caribou play a central role in the lives of the Aboriginal people. A conservative estimate is that the six Dene communities harvest an average of three caribou per household annually. Many families harvest up to six animals per year. The importance of caribou to the Aboriginal people historically and at present cannot be overestimated. As stated by Dogrib Treaty 11 Grand Chief Joe Rabesca on March 8, 1994 during a meeting in Yellowknife:

Tevalle Hessalls

The project site lies within the migratory front of the Bathurst caribou herd and is located between their traditional spring calving ground east of Bathurst Inlet and their winter range below the treeline.

Migration occurs during the spring and fall, and occasionally during the summer.

It is important to note that the project site is less than 0.03°/0 (3/10,000) of the 250,000 square kilometres range used by the herd. Furthermore, baseline studies to date have shown that one percent of the estimated 450,000 Bathurst herd migrates

through the project site. Additionally, studies have also identified the presence of one traditional travel corridor of the herd (Point de Misere) in the Proponent's main claims block.

Research suggests that caribou are resilient to disturbances associated with development, but it remains important to monitor, manage and minimize the effects of development on the caribou. It is the Proponent's intention to ensure the effectiveness of all mitigation measures required to maintain the migration process. Education and awareness are key components of these measures.

de Gras area. Preliminary
results indicate that they are
present in low numbers, based
on the few actual sightings and
signs of their presence (tracks
and dens) in the project area.

Education and awareness of bear safety and avoidance will continue to be important aspects of the Proponent's mitigation plan to minimize any potential impacts or negative interactions with people. Additionally, knowledge of the bear's ecology (habitat, diet, distribution) will continue

BEAUFORT

SEA

Arctic Circle

Coppermin

Cop

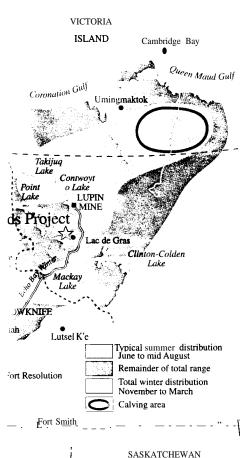
As a result of decreased populations and habitat loss throughout the world, grizzly bears are considered as a species of national and international concern. As such, the grizzly bears are considered to be the most



important aspect
of the ongoing
monitoring
program. The
Proponent has
committed funds
and is participating
in a grizzly bear



Page 30



study as part of the Great
Slave Geological regional
studies. Such studies will add
to a better understanding of
the status of the grizzly bears
locally and regionally.

watersheds, being soft, of low ionic strength and slightly acidic. Most baseline water parameters were below detection limits. The sediments of the lakes in the Koala watershed do not differ substantially from the adjacent watersheds.

The project area lies within the headwaters of the Coppermine River and covers 73 square kilometres, or approximately one thousandth (1/1000) of the entire

Coppermine River drainage

basin. Maximum flows are during the spring freshet, when over 50°/0 of the annual runoff occurs from melted snow.

These watersheds provide fish habitat and are the project's source of fresh water. Local water quality determines much of the ecological integrity of nearby ecosystems as well as those downstream. Natural water composition is typical of headwaters of high latitude



Fish are important water quality indicators as they are at the top of the food chain. The nutrient limiting lakes contain small populations of edible fish. Detailed fish population estimates were conducted on six lakes designated for mining and



tailings disposal and a further 19 lakes and numerous streams were studied for the presence and quality of aquatic life. Lake trout population estimates for the five lakes directly impacted by mining varied from approximately 90 mature fish in Misery Lake to a high of 260 mature fish in Koala Lake. In Long Lake, the proposed tailings disposal site, lake trout population was estimated at approximately 2,000 mature fish. Prior to dewatering the designated lakes, the resident edible fish will be harvested with the assistance of the Aboriginal peoples and distributed to the local Aboriginal communities. Compensation for the loss of habitat in the lakes directly impacted by mine development is being negotiated with the

Department of Fisheries and Oceans.

Fish populations are best preserved through habitat protection, and this will be achieved largely through the water management plan.

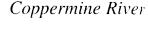
Water quality management will ensure that effluents from operations meet all water quality discharge standards.

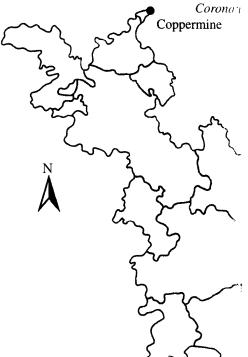
Central to the water
management is the handling
of tailings water in Long

Lake. This involves the containment and

water and the
discharge of water
that meets all
established criteria.
Regular monitoring
of key parameters
will alert operators

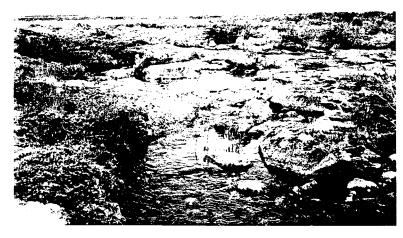
recycling of turbid





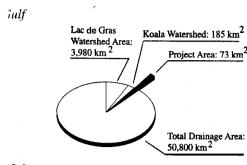
Koala Watershea

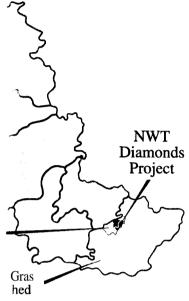
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Page 32

)rainage Basin





to possible problems for which mitigation will be implemented at the source. Impounded tailings must provide a stable, reclaimed landscape over which natural precipitation must eventually flow freely and enter unpolluted into nearby waters.

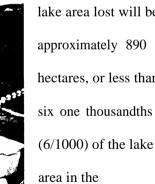
Five lakes will be dewatered for mining, one will be used for tailings disposal and

Coppermine River watershed. Mitigation of lake habitat loss will be partially offset by measures currently under discussion with government regulators. A diversion channel will be constructed between Panda and Kodiak lakes, which will mitigate the loss of stream habitat and migration routes resulting from lake dewatering. The residual effects of the five open pits will be the creation of deep, steep-sided, nutrient limiting lakes, which will re-establish over a long period of time. Some of the stream habitat between the pits will be restored when the lakes eventually refill and drainage occurs.

one very small lake will be drained and used as an aggregate

source. The total

lake area lost will be approximately 890 hectares, or less than six one thousandths





Page 33

Throughout each phase of mine development, from construction through mine closure. sound engineering design will minimize the area of surface disturbance. In addition, those areas disturbed will be reclaimed using innovative methods and site specific research. As such, the land will ultimately retain its current land use in spite of these land disturbances.

Vegetation is a key component of local biodiversity in the sparsely populated tundra. Vegetation may be affected on a local scale by activities that remove soil. impede soil drainage and compact soils. Even with localized impacts, the effects will persist for a long time due to the slow growth and recovery rates of tundra plants.

Impacts will be incurred at all project stages, and can be

divided into complete

vegetation loss and

degraded vegetation. A combination of good mining practices and a comprehensive and successful reclamation program will minimize and mitigate any losses to the vegetation.

Traditional knowledge has been defined by the Dene Cultural Institute as:









Page 34





This knowledge is, by its very nature, broad. pervasive and permeates all aspects of Aboriginal life. Most traditional knowledge is passed from generation to generation orally, thus recorded information is limited. Through the consultation program. the Proponent tried to gain some insight into the difficult and complex issues surrounding [traditional knowledge.

As the community consultation program

progressed. the Proponent perceived
that the Aboriginal people want to

continue to live in their home

communities and to pursue hunting and
fishing for both sustenance and

traditional purposes. From the

Aboriginal perspective, management

and use of the land cannot be separated from responsibilities to cherish, protect and nurture the land. The Dene of Lutsel K'e have expressed this relationship by stating that they consider themselves to be "gllurdians" of the land rather than merely "landlords". Reliance on the land is a traditional way of life for Aboriginal people and the continuation of that relationship is a vital element in their identity and values.

In spite of these traditional concepts, the communities also recognize the value of a wage-based economy to purchase trucks, snowmobiles, rifles, boats, food and clothing to supplement their traditional lifestyle. Many of the elders spoke of this issue and their concern for their

young people to acquire
better education, obtain
employment. modern job
skills and job training,
while still maintaining
their traditional culture.



Page 35

The Proponent is committed to respecting the Aboriginal traditional lifestyle while providing modem training and employment. Based on what it has learned, the Proponent has already incorporated several traditional concepts, which touch the core of the cultural identity of the Aboriginal people, into the plan of development for the NWT Diamonds Project. For example:

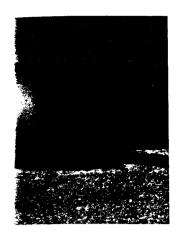
- A two weeks on/two weeks off
 work schedule has been
 implemented to accommodate
 traditional lifestyles and
 subsistence. Aboriginal
 employees surveyed a t the
 campsite overwhelmingly
 confirmed their approval of this
 type of schedule.
- The residents of designated communities will continue to live in their own villages and travel directly to the mine site, main tain ing their ties to family and community.

- Caribou and other wildlife will be protected as a source of sustenance and tradition.
- Protection of the environment by monitoring of water, air and the [and, minimizing impacts on the surrounding subs is tence ecosystems.
- The decision to maintain a fly-in camp, with no permanent road access, will prevent a major influx of new settlements in the Lac de Gras region preserving the traditional relationship with the land and also reducing impacts [o outfitter groups who employ A boriginals as guides.
- Elders were invited to participate
 in arch aeological surveys to
 locate, protect and avoid burial
 and other significant sites.









To address modern concerns such as employment, education and job training, drug and alcohol abuse, the Proponent has initiated programs to help provide future economic security while reducing potential negative impacts:

- a commitment of preferential
 hiring for Aboriginal, ond
 site job training and relaxation of
 strict minimum educational
 employment standards
- preferential hiring
 requirements to be
 applied to contractors
 and sub-contractors
- preference to Aboriginal businesses
- scholarship programs for Aboriginal students
- cross-cultural training
 workshops as learning tools to
 share cultural concerns in a
 unique work environment

- Partnerships, which bring elders, young people and organizations into the same forum to share traditional skills and customs to create solutions to community problems
- a policy of a drug and alcoholfree workplace which was
 supported by many community
 members who view such
 problems as a major threat to
 traditional lifestyles.
- J.C. Catholic of Lutsel K'e said;

The Proponent believes that these methods of incorporating traditional knowledge and culture into the development phase of the mine are only the beginning of a relationship of cooperation and mutual respect.



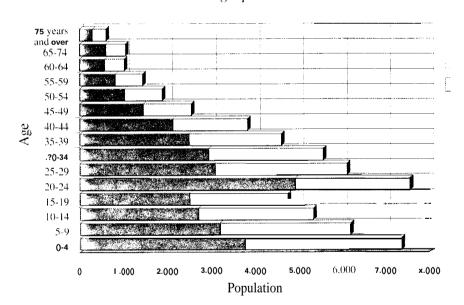
In its efforts to give full and equal consideration to traditional knowledge in more specific ways, the Proponent has offered to provide funding for a two phase study of traditional knowledge. inherent in the proposal is a recognition of the proprietary nature of the knowledge and a desire by the Aboriginal peoples to have control over the way in which the information is collected. It is hoped that such a study will lead to more sensitivity and awareness of indigenous culture by documenting their concerns, promoting a partnership between the parties and preparing a baseline of traditional knowledge for use in future monitoring of environmental and socioeconomic impacts.

The archaeological survey conducted for the NWT Diamonds Project was the first detailed archaeological investigation conducted in this area. Treaty 11 and Treaty 8 communities have been kept informed of the archaeological studies. Community meetings and visits to the site with elders have provided useful information regarding the identification and the cultural significance of certain land sites.

Six survey areas in the main exploration and development areas were assessed for archaeological significance. As there are no NWT guidelines regarding the determination of the archaeological sites, archaeological significance was defined according to British Columbia guidelines, with ratings of low, moderate or high significance. Archaeological field research in the survey area identified 50 sites with varying degrees of significance.



Demographics in NWT





Females Total 27,590 Males Total 30,055 Three sites were judged to be of high archaeological significance, representing repeatedly visited camping locations.

Two sites of moderate archaeological significance represented moderately high yields of artifacts with one being a possible quarry/lithic workshop, and the other was a site with significant buried deposits. Most sites were assigned low-moderate or low significance. No archaeological sites were identified in the vicinity of Koala Camp, which is the main area to be affected by development.

Sites discovered during the inventory were recorded in detail using the Archaeological Survey of Canada site entry forms. Detailed maps of the sites were drawn and photographs were taken for future visual reference. The data collected have made a contribution to the understanding of archaeological resources in this region of the Northwest Territories.

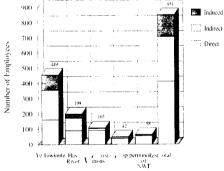
Socioeconomic Assessment

The state of the s

(Mayor Dan Marion of Rae-Edzo).

The NWT Diamonds Project will be one of the largest, if not the largest, industrial operations in the NWT for the next decade. Based on 1994 unemployment rates, the project is expected to reduce overall unemployment in the NWT by 1.4% during the construction phase and by 3% during the operations phase.

Employment Due to NWT Diamonds Project Year 2000



Page 39



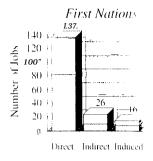
An average of 830 people will be directly employed over the 25-year life of the project. Two out of every three employees are likely to be residents of the North, and more than half of the Northern employees are expected to be Aboriginal. The Proponent has designed its hiring, training and skill development programs to promote Aboriginal and Northern employment, but the success of these programs will also depend in part on the participation and commitment of the affected Northern communities.

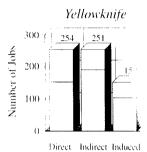
The City of Yellowknife, with the largest population in the region and the most diverse business community, will receive the greatest economic benefits from the NWT Diamonds Project. These benefits will be in the form of direct employment of its residents and the purchase of goods and services for the project. During operations, approximately 70°/0 of every purchase dollar for the project is likely to be spent in the North, with more than 60°/0 of the northern purchases expected to be made in Yellowknife. Because of the size and economic strength of Yellowknife. the net effect on unemployment in the city will be about 2%, which will not significantly affect the way of life of the residents.

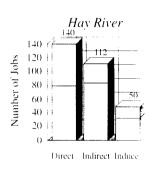


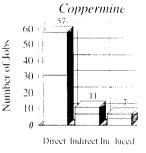
In contrast, the NWT
Diamonds Project has
the potential to have a
major effect on the way
of life in the local

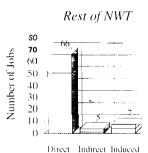
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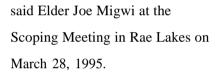
Page 40

iployment; Year 2007

aitional Requirement at <.000 tonnes per day Year 2007)

At 9,000 tonnes per day (Year 2000) Aboriginal communities.

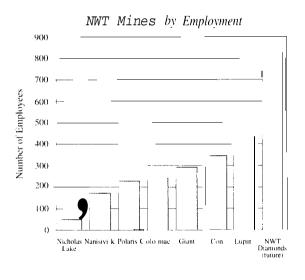
Hiring by the project is expected to reduce current unemployment levels in local Aboriginal communities from almost 40°A to 300A. Residents of Aboriginal communities have expressed the need for increased participation in the wage economy.



Increased wages in the community have the potential to compound existing social problems such as alcohol and drugs. This is of particular concern in the Aboriginal communities where the average earned income could increase by as much as 40%. Recognizing that the solutions to social problems can only be effective if



they are initiated by the communities themselves, the Proponent has offered to assist and participate in Community Mobilization programs. These partnership programs help communities to build on existing strengths to solve social problems. At the request of Chief Charlie Jeremick'a, initial mobilization meetings started in Wha Ti in May 1995, with meetings in other communities scheduled to follow during the summer.



Page 41

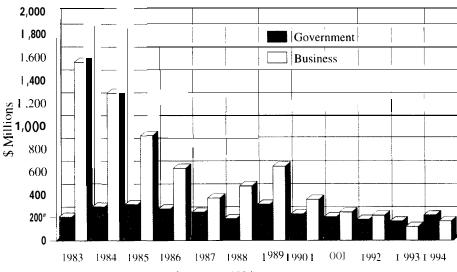
Economic Assessment

Total capital expenditures over the life of the mine is estimated to be \$1.2 billion. The project does not require any subsidies from the government.

royalties.

The project is expected to generate revenues of between \$400 million and \$500 million per year (in 1994\$) through most of its 25-year operating life.

Total Public and Private Investment in the NWT



Source: NWT Bureau of Statistics. 1994

Contrary to popular perception, this level of revenue is not due to the high intrinsic worth of diamonds, as the estimated value per tonne of ore mined is roughly the same as for other NWT mines. The higher level of revenue is due to the larger scale of the proposed mine versus other existing operations in the NWT.

For the NWT, the benefits of the project (direct, indirect and induced) will be a contribution of \$2.5 billion to the GDP over the life of the project.

Approximately 60% of this contribution is comprised of wages and associated benefits.

The rest of Canada is also a major beneficiary of the project. From the Canadian national perspective, the total benefits provided are similarly substantial with a contribution of \$6.2 billion to the GDP. Revenues to the governments of Canada comprise approximately \$2.5 billion.

The income from the project is estimated be many times greater than government expenditures related to any expanding physical and social infrastructure to accommodate the project. For every \$1 of economic benefit accrued by Canada from the project, the federal and territorial governments will together have net costs of less than \$0.05.



Environmental Management

The environmental plan describes
the programs and policies ensuring
that project
activities
operate to

operate to
anticipate, avoid
and control
environmental
impacts. The
plan focuses on
the safe and
permanent
storage of
process plant
tailings, the
control and

proper disposal

the management plan.



of domestic and other wastes; construction and operations that minimize surface disturbance; and the development of a site reclamation and decommissioning plan. Monitoring operating performance is a central element of 3HP Environmental Policies

BHP has a corporation-wide

Environmental Policy stipulating a

commitment to
high standards of
environmental
care as it conducts
its business
around the world.
BHP's approach
to environmental
management
seeks continuous
improvement in
performance by
taking account of
evolving scientific
knowledge and

community expectations. BHP managers at all levels are responsible for ensuring





that organization structures and management systems support the Environmental Policy.

The environmental monitoring program is an integral component of the environmental management plan.

The purpose of environmental monitoring is to determine compliance with permit requirements. measure effectiveness of reclamation efforts, document effects of the project on the social and economic well-being of the community and very importantly.

to measure natural changes in the

environment.

Monitoring requires
measurements that
are statistically valid
with adequate
reference control to
distinguish between
project-related
impacts and

natural changes in the environment (such as cyclic changes in lemming abundance).

The social and economic monitoring will be largely accomplished through the Proponent's human resources and community relations activities. These



measurements will provide important feedback concerning the appropriateness



and effectiveness of the environmental management plan, so that it can be adaptively modified if necessary to achieve the desired result of holistic

The environmental program is intended to be flexible and adaptive in design, so that it can be re-defined and improved

environmental protection.

Cumulative effects arise from multiple activities happening concurrently or sequentially that in combination can have greater impacts than those that result from the individual activities. As the main

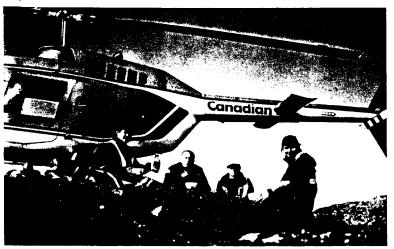
environmental impacts for the project result from the drainage of five lakes, mining and the use of a lake for tailings disposal, the key ecosystem pathways are surface water, surface terrain, and air. Because of the remote location and the fact that there is no other development in existence or permitted within the Coppermine River basin, no significant

to changes in the program development plan, the regulatory environment and natural environmental changes.

in response



Page 47



cumulative environmental effects are anticipated.

The main impacts that could affect socioeconomic components consist of employment and the purchasing of goods and services. On balance, these impacts are anticipated to be positive.

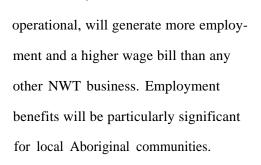
With regard to the possible expansion of mining activities on the Proponent's claim block. a total of 44 kimberlite pipes have been identified, but as yet only the five pipes scheduled for development are economically viable. Should one or more additional pipes be discovered that can be developed, the existing infrastructure and tailings disposal systems will likely be used and any cumulative environmental

pertain to the
development of
additional open pits,
rock dumps and
access. The
extension in the mine
life that would result

impacts would

would enhance the socioeconomic benefits of the project.

The project is of strategic economic importance to the NWT. It is a major business and, once





Existing large mine reserves in the NWT are becoming depleted and no major new mines have been announced. The renewed confidence in Canada shown by international investors such as BHP has provided optimism to the entire Canadian mining industry. Canada's Minister of



Natural Resources, Anne
McLellan, shared this
optimism in a speech
delivered on March 29,
1995, in Miami to the
investing in the Americas
Conference, when she
said:

× 3 * ***

This project will be the first major diamond mine in North America and a new industry for Canada. New NWT businesses will likely be established, and existing NWT companies will expand, hiring more workers to service the project.

The project can serve as a model of sustainable development for other northern resource-based projects.



Page 49

The Proponent has adopted an environmental management plan for this undertaking that effectively deals with all identified issues within the immediate project area, as well as the larger, potentially affected, regional ecosystem. The environmental management plan identifies comprehensive actions to avoid or mitigate significant conflicts. and to

components of the ecosystem, in
order to effectively preserve
the whole. These linkages
include natural ecological
values and the sustainable use of
natural resources by

living in the region, in concert with the longer-

Aboriginal peoples

term, economic benefits of the

project.

The proposed undertaking has substantial and beneficial implications for the economics of the Northwest Territories and Canada, and in particular for the local Aboriginal communities in the region. Moreover, the Proponent is committed to a preferential program of employment of Northerners. In particular, Aboriginal peoples are expected to benefit greatly from

this project.
through
hiring
policies
that are
sensitive to
their

cultural attributes

and needs, coupled with
vigorous protection
of the ecological
systems that
have
traditionally sustained
these same
peoples.

PERMITS





direct, project-related contacts. By these means, the wildlife itself will be kept intact, as will its critical links with the Aboriginal community.

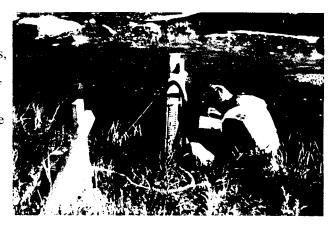
Water quality and aquatic habitat will be protected by careful control and monitoring of contaminants potentially associated with water from tailings-disposal areas, waste dumps, roads, and other physical infrastructure. These control measures will ensure minimal effects on the aquatic food chain, and on human use of aquatic resources.

The habitat and migratory pathways of caribou and other key species have been identified through a combined application of local and traditional knowledge and wildlife science. These critical habitats will be maintained. particularly by avoiding and, if necessary, mitigating any

Air quality, vegetation, hydrology, and noise are also important environmental

components
and linkages,
and none of
these will be
degraded
beyond

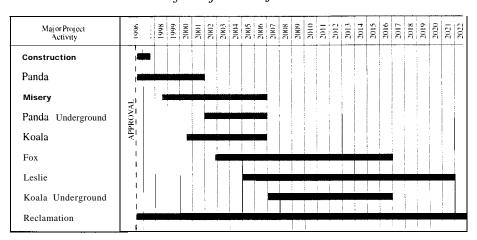
impacts



occurring immediately on working sites.

The Proponent is also committed to reclaiming any area of terrain that is directly affected by this project, and to reestablishing the initial land uses.

Schedule of Major Project Activities



This overall scenario of minimal environmental impacts is more than offset by the

socioeco-

substantial

nomic benefits that will be

from this

realized

This summary is available in Inuinnagtun as well as English. In addition, audio cassettes have been prepared from the Summary in North Slavey, Dogrib and Chipewyan languages. They are available from the Canadian Environmental Assessment Agency offices of Environment Canada in Yellowknife and Vancouver.

undertaking by

Northern peoples and their economy.

The environmental concerns are believed to be known and mitigable with existing technology.



Page **53**

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