| SPILL CONTINGENCY PLAN | SECTION: ACTION PLANS |
|-------------------------|------------------------------------|
| Ulu Exploration Project | SUBJECT:ETHYLENE GLYCOL/ANTIFREEZE |

ENVIRONMENTAL THREAT

- low to moderate toxicity for fish and other aquatic organisms;
- attractive smell and taste to some mammals, and toxic by ingestion.

CONTAINERS

- transported and stored in steel drums or cubes (which are a self-contained unit with an 8 drum capacity).

SUPPLIER

- DOW Chemical of Canada Ltd., Van Waters & Rogers Ltd.
- SEE ATTACHED MSDS FOR ADDITIONAL INFORMATION

| | SECTION: ACTION PLANS |
|-------------------------|--|
| Ulu Exploration Project | SUBJECT: AMMONIUM NITRATE/FUEL OIL; ANFO |
| | |

In the event of a AMMONIUM NITRATE/FUEL OIL spill or where there is reasonable likelihood of a spill occurring, the following action plan is to be initiated.

24 HOUR SPILL REPORT LINE (867) 920-8130 INITIAL SPILL RESPONSE

- Notify the Project Manager or designate immediately via radio, phone or in person and initiate the response team. Spill reported via 24 hour emergency spill line, above;
- STOP the spill of ANFO at the source if possible;
- evacuate all non-essential personnel from the area and ensure the health and safety of those remaining;
- ELIMINATE all possible sources of ignition;
- PREVENT ANFO from contacting water;
- if ANFO does contact water, CONTAIN solution to as small an area as possible. Consider dyking with sand or snow to minimize travel;
- ISOLATE area of spill preferably by roping off affected area.
 - A detailed spill report shall be submitted as per Section 2.3

HAZARDS

- may explode under confinement or high temperatures and friction;
- avoid contact with strong oxidizers (ie: Lead Nitrate)
- flammable:
- combustion products are toxic and may include hydrocarbons, oxides of carbon and nitrogen:
- low toxicity.

ACTION FOR FIRE

- for fires involving large quantities of ANFO, evacuate and Do Not Attempt to fight fires:
- for fires involving small quantities of ANFO, use large amounts of water to extinguish, control runoff;
- ANFO may detonate in fire, under severe impact or confinement.

RECOVERY

- spills of ANFO on dry surfaces can simply be shovelled into containers;
- spills of ANFO on wet surfaces or exposed to rain should be shovelled into waterproof containers as soon as possible to minimize the quantity of ammonium nitrate being dissolved;
- ANFO, or a resulting ammonium nitrate solution, must not be allowed access to any flowing stream;
- sorbents such as peat moss, Conwed or Graboil should be used to recover any oil emanating from the ANFO spill; snow may be used during the winter months under freezing conditions.
- soil heavily contaminated with ammonium nitrate should be excavated for incineration if the affected groundwater threatens to travel to an adjacent flowing stream.

| SPILL CONTINGENCY PLAN | SECTION: ACTION PLANS |
|-------------------------|--|
| Ulu Exploration Project | SUBJECT: AMMONIUM NITRATE/FUEL OIL; ANFO |

DISPOSAL

- ANFO recovered from a spill may be used in the mine:
- ammonium nitrate solutions and soil containing ammonium nitrate should be disposed of within the mill tailings system or directly in the tailings pond;
- sorbents used to recover the oil may be incinerated under controlled conditions or buried at an approved site;
- ANFO can be disposed of by detonation or incineration under knowledgeable supervision.

PROPERTIES

- comprised of 94% prilled ammonium nitrate (NH₄NO₃) and 6% No.2 fuel oil, trade name: Amex II
- small porous pellets coated with oil, may be dyed with bright colours (yellow), odour of fuel oil;
- ammonium nitrate is Very Soluble in water; the oil is not soluble and will float:
- strong oxidizing agent;
- flammable.

ENVIRONMENTAL CONCERNS

- ammonium nitrate is moderately toxic to fish and other aquatic organisms at low concentrations. Toxicity increases with increased pH and temperature of the water.
- being very water soluble, the ammonium nitrate in the anfo can readily dissolve and enter the natural surface or ground water streams.

CONTAINERS

 ANFO is transported and stored in 25 kg polyethylene bags at the main explosives magazine.

SUPPLIER

- Explosives Limited (Calgary, Alberta)
- CII
- SEE ATTACHED MSDS FOR ADDITIONAL INFORMATION

APPENDIX I

CONTACT LISTING

| 24 Hour Emergency Nursing Station Deanna Taylor (IFA Level 3) | Ulu Tel: (604) 759-0604 Also available by walkie-talkie |
|--|---|
| m | , nee available by Walkie-talkie |
| Project Manager David Stevenson | Ulu Tel: (604) 759-0605 Ulu Fax: (604) 759-0607 Also available by walkie-talkie Office: (807) 346-1668 Home: (705) 267-5757 |
| Building and Maintenance Supervisor Wayne Kirkham/Peter Lenz | Ulu Tel: (604) 759-0602 Also available by walkie-talkie |
| Mine Captain TBA | TBA Also available by walkie-talkie |
| Underground Shift Supervisor TBA | TBA Also available by walkie-talkie |
| Senior Geologist TBA | (604) 759-0603 Also available by walkie-talkie |
| Senior Engineer TBA | |
| | Also available by walkie-talkie |
| Mechanical Supervisor TBA | TBA Also available by walkie-talkie |
| Environmental Coordinator Gordon Stewart, Gartner Lee Ltd | (867) 873-4453, ext. 26 |
| It shall be the responsibility of the Project the Company President. | Manager or his designate to notify |

TELEPHONE LISTING

| GOVERNMENT AGENCIES | TELEPHONE | FACSIMILE |
|--|----------------------------------|----------------|
| 24 HOUR SPILL REPORT LINE GNWT – Dept. of Renewable Resources | (867) 920-8130 | (867) 873-6924 |
| NUNAVUT WATER BOARD | (867) 360-6338 | (867) 360-6369 |
| GOVERNMENT NWT – Department | t of Renewable Resource | S |
| Environmental Protection Division | | |
| Mr. Ken Hall; Manager Env. Prot. Mr. Harvey Gaukel; Hazmat Specialist | (867) 920-6476 (867) 873-7654 | (867) 873-0221 |
| Wildlife Management Division | | |
| Wildlife Biologist | (867) 920-6190 | (867) 873-0293 |
| GOVERNMENT OF CANADA | | |
| Indian and Northern Affairs Canada Land Use and Water Use | | |
| Regulatory Approvals, Water Resources | (867) 669-2650 | (867) 669-2716 |
| Land Use; Reg. Manager, Land | (867) 669-2763 | (867) 669-2731 |
| NUNAVUT District Office; Iqaluit (Water) | (867) 979-4407 | (867) 979-6445 |
| Environment Canada Environmental Protection Branch | (867) 669-4728 | (867) 873-8185 |
| DFO Fisheries Habitat Biologist (Iqaluit) | (867) 979-8007 | (867) 979-8039 |
| OTHERS | | |
| Kitikmeot Inuit Association, Kugluktuk | (867) 982-3310 | (867) 982-3311 |
| Kugluktuk Hunters and Trapper Assoc. | (867) 982-4908 | (867) 982-4047 |

ADDITIONAL COMMUNICATIONS

High Lake

High Lake Camp can be contacted by: Telephone TBA Fax TBA

EMERGENCY CONTACTS

| Dupont | 905-821-5660 |
|---|----------------|
| EMERGENCY RESPONSE CENTRE (24 HOUR) | 1-800-387-2122 |
| Chemtrec | 1-800-424-9300 |
| Conweb & Oil Snare Canadian Industries Ltd | . 780-465-0221 |
| Alberta Oil Spill Consultants (Booms, sorbents, skimmers) | 780-451-0585 |

TABLE 1

PETROLEUM AND CHEMICAL PRODUCTS INVENTORY MAJOR COMPONENTS

| Fuel Type | No. of liters | No. of containers | Capacity |
|------------------|---------------|-------------------|---|
| Diesel * P-40 | 581,572 | 13 | 2 - 1,325,000 liter |
| P-50 | 130,137 | | (350,000 gal) tanks 11 – 53,000 liter |
| Aviation Gas | 21,730** | 106** | (14,000 gal) tanks 205 liters (45 gal) |
| Propane | 2,500** | 25** | 37.3 kg (100 lbs) |
| Other | 2,000** | 20** | 37.3 kg (100 lbs) |

^{*} Dip test performed September 04, 2002
** Amounts uncertain

TABLE 2

HEAVY EQUIPMENT INVENTORY WOLFDEN RESOURCES INC. ULU EXPLORATION PROJECT, NUNAVUT

| Type & Number | Size & Ground Pressure | Proposed Use |
|----------------------|---------------------------|--|
| 2 water trucks | 5 ton chassis | Watering pads and roads |
| dimension | Empty 3.07 PSI | 3 7 3 7 |
| | Loaded 13.25 PSI | |
| 4 pick-up trucks | Ford F350 | Supervision, moving people 8 |
| All Andreas | Empty 17.69 PSI | moving light freight |
| | Loaded 35.38 PSI | and the state of t |
| 1 Tractor & low boy | | Moving equipment & freight |
| 1 Picker truck | Five ton | Installing culverts & handling light |
| | | freight |
| 2 Bulldozers | 1-Cat D8N | Piling, leveling sand & sand |
| | 14.6 PSI | loading ore later |
| | 1-Cat Dh6 | |
| | 8.82 PSI | |
| 3 Rock trucks | 3-Cat 769C | Hauling sand & later ore |
| | Empty-124 PSI | The state of the s |
| | Loaded-356 PSI | ļ |
| 2 Graders | 1-Cat 14G | Grading roads, pads, airstrip and |
| | 26.11 PSI | later winter road |
| | 1-Cat 120G | Tario Timo Toda |
| 1 Loader/Forklift | Cat 966D | Freight handling & loading trucks |
| | 25.18 PSI | , roight hariding a loading tracks |
| 1 Commander | Loaded 9.0 PSI | Moving freight |
| 1 Flat bed | Ford 3 ton | Moving freight |
| 1 Bus | 48 passenger | Moving passengers & freight |
| 1 Lube & fuel truck | 5 ton chassis | Fueling rolling stock |
| | Empty 3.07 PSI | 1 doining rouning stock |
| | Loaded 13.25 PSI | |
| 1 Backhoe | Cat 311 | Miscellaneous digging |
| 1 Rubber tired dozer | Cat 824C | Pushing sand and waste |
| 1 Road packer | Cat | Packing roads and pads |
| 2 Loaders | Cat 988D | Moving & loading sand & waste |
| | Cat 930 | morning or loading saild of waste |
| 1 Forklift | JCB | Moving freight |
| 1 Tractor | Kubota | Moving people and freight |
| 3 Jumbo drills | Atlas Copco twin-boom | Drilling underground |
| | Tamrock twin-boom | Drawing directground |
| | Tamrock single-boom | 1 |
| 1 Scissor lift | Getman | High work underground |
| 4 Scooptrams | 1 Wagner 3.5 cu. yd. | Mucking underground |
| | 1 Wagner 2.0 cu. yd. | mostarig underground |
| | 1 Elphinstone 7.5 cu. yd. | |
| | 1 Wagner 7.5 cu. yd. | |
| 2 Underground trucks | 1 Wagner 44 ton | Moving muck from underground |
| _ | 1 JDT 26 ton | I movered more more muderationad |

TABLE 3

SPILL CONTAINMENT/RECOVERY MATERIALS

Spill containment/recovery materials located at the Ulu Project within the "Emergency Spill Response Van" container (SeaContainer #9) contains the following inventory:

- 3 Shovels:
- 2 Roll Poly; 4mL, 500 ft.;
- 1 Crate of floordry; (50) 20kg bags;
- 4 booms, 11 ft.;
- 1 Pump; 2" Honda;
- 1 Safety approved 2 gallon gas container;
- 2 20 ft. 2" hoses;
- 10 45 gallon drums (no lids) for collection of contaminated materials:
- 1 100 ft. rope;
- 2 fire extinguishers;
- 1 4 lb sledge:
- 1 Box, dust masks

In addition to the above, the on-site Lupin warehouse maintains a supply of the smaller items such as floordry, absorbent pads, shovels, dust masks. If additional equipment is required during a clean-up procedure warehouse issues are readily available.

REFERENCES

- Contingency Plan, Ulu Exploration Project, Nunavut, Echo Bay Mines Ltd.,
 October 2001
- Guidelines For Spill Contingency Planning Northwest Territories Water Board, 1987
- Contingency Planning And Spill Reporting In The NWT A Guide To The New Regulations; unauthorized, GNWT
- Guidelines For The Preparation of Hazardous Material Spill Contingency Plans; Environmental Protection, W&N Region, Report No. CP(EP) ENR90-91-4 March 1990
- Oil And Toxic Material Spill Contingency Plan Echo Bay Mines Ltd., 1984, updated annually
- Contingency Plan; Echo Bay Mines Ltd. December, 2000; Revised -Awaiting approval
- Polaris Operations Contingency Plan; Cominco Ltd, Polaris , N.W.T.; June
 1994
- Guidelines For Preparing Spill Contingency Plans For Winter Road
 Operations In The Northwest Territories; E. Paquin, GNWT; D. Stendahl,
 NAP/INAC; D. Tilden, EPS/DOE; October 1983
- The Environmental Protection Act of The Northwest Territories; Spill Contingency Planning and Reporting Regulations, Registered July 22, 1993 S BHP Ekati Diamond Mine Spill and General Contingency Plan, 1999.