## APPENDIX A - TECHNICAL SUMMARY, CHURCHILL WEST

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### 1 Project Activities

Project activities involve ground geophysical surveys, followed by helicopter supported diamond drilling for kimberlite. Up to 10, 100 metre drill holes are planned over the 2006 field season. Field exploration will also consist of field mapping, soil and till sampling during the summer months. A temporary camp may be established in the summer on DIAND land. Due to the size of the project area it is expected that these activities will continue for many years. The object of the exploration is the discovery of economic mineral deposits. In the long term, assuming a prospective deposit were discovered, activities would lead to the establishment of support infrastructure for a mining operation.

### 2 Expected Schedule

| | |
|---|---|
| 01-Jun-2006 | Conduct ground geophysical surveys, till sampling and prospecting in the project area |
| 30-Nov-2006 | After intermittent breaks in the exploration program we expect to terminate exploration for the year. |

We are planning a similar schedule for the 2007 exploration program.

### 3 See attached maps

### 4 Structures

Not applicable.

### 5 Equipment

| Equipment: | Use: | Impact: |
|---|---|---|
| Diamond Drill Rig | Core Drilling | Minimal |
| Helicopter | Transporting Field Personnel | None |
| Challenger (or Bombardier) | Transporting Fuel and Supplies in spring | None |

## 6 Fuel

No fuel will be stored on IOL.

## 7 Fuel Spill Contingency Plan

Please refer to the plan submitted as part of the original application.

## 8 Camp Waste Disposal

Not applicable.

## 9 Transportation

All field work will be supported by helicopter.

## 10 Environmental Components

As the project is still in the initial exploration phase and the environmental impact will be minimal, all effort will be made to ensure that no permanent environmental damage is done. If a significant mineral discovery is made in the project area and further mineral development is required, a comprehensive environmental assessment will be initiated.

## 11 Potential Environmental Impacts:

No permanent stress to vegetation is expected around sites of ground geophysical surveys and drill sites.

The environmental impact of exploratory core drilling is minimal. The drilling activity usually results in a small puddle of drill cuttings contained near the drill site. Any cuttings resulting from the drilling activity will be impounded at or near the site to prevent dispersion to the surrounding area. All water used in the drilling process will be pumped above the high water mark and away from any water drainages. If drilling additives are required for technical reasons such as drill hole stabilization through broken or faulted bedrock they will be employed only as a last resort. All efforts will be made to limit their usage.

During possible winter drilling, should drill sites be located on frozen lakes or where natural drainage is toward such lakes, great caution will be taken to ensure that materials and cuttings will not be allowed to accumulate on the lake surface. Any water used in the drilling process or cuttings will be pumped to an area above the high water mark and away from any water drainages

Wildlife nesting and den sites will be respected and efforts will be made to avoid disturbing natural wildlife. A registry of mammal, bird and fish sightings will be initiated for the IOL parcels and surrounding area. Helicopter flights will be restricted to 1500 feet above ground level where practical.

Sites showing evidence of native human activity will be documented and assigned a GPS coordinate and subsequently reported to the KIA lands officer in Rankin Inlet, the Deputy Minister of Culture, Language, Elders and Youth in Iqaluit and to the Archeological Survey in Ottawa. Nothing will be collected or disturbed at any archeological or potential archeological sites.

## 12 Reclamation Cost Analysis:

All of the costs associated with the reclamation plan have been incorporated into the project budget. Any additional reclamation costs will be taken out of the project budget to insure that all reclamation work is completed.

## 13 Reclamation Plan:

Following the completion of each land based drill hole, drill casings will be removed if possible or cut off level with the ground. Should ground water flow from the drill hole, it will be plugged and cemented in bedrock before drill stem removal to prevent such flow.

For lake based drill holes, all holes will be plugged and cemented in bedrock, below the lake bottom and the drill casing will be removed from the lake. No material or residue will be allowed to accumulate on the lake surface. Any material that may become frozen into the ice during drilling activities will be chipped out and removed to camp for proper disposal.

All equipment, fuels and supplies will be removed from the drill sites upon completion of each hole. The project manager shall then inspect each site to ensure that it is properly restored.

## 14 Socio-Economic Benefits:

Support services where practical will be sourced in local communities. The long-term goal is the exploitation of an economic resource that would provide the local economy with sustainable employment and infrastructure. Nunavut registered companies will be favoured for logistical and technical support.