

## **Operational Plan for Temporary Camp Facility at Doris Camp Hope Bay Mining Ltd.**

### **Introduction**

HBML notified the board, as specified in Part H-Item 1 of the water licence for Doris, on May 6, 2008 of a temporary modification of the licence. The modification is needed to allow the use of a temporary camp as the permanent Doris Camp is built. The temporary camp is a Weatherhaven Camp that is consistent with the NIRB Project Certificate as it will be located within the foot print of disturbance reviewed by NIRB, and the total camp loading will not exceed the 161 referred to in the license. The following brief operational plan has been developed as an introduction to the technical information and specifications for the equipment that will be utilized at the temporary camp

### **Water intake**

The temporary camp will use the water intake location ST-7 that is described in the environmental assessment and specified in Part E – Item 1 of the water license. Requirements for monitoring of total water usage and quality monitoring will be completed, as specified in the Doris water licence. The maximum allowed water use is 480,000 m<sup>3</sup>/year.

### **Water treatment and discharge**

Non-sewage gray water will be processed using a Peak Energy Services Membrane Treatment system. Water sent to the treatment system will be from water used for cooking, cleaning, and dry facility (shower) needs. All sewage water will be treated within the incinerator toilets and not using this system. Discharge of the water treated by this system will meet the monitoring requirements, including flow, that are specified in Part G of the licence, and the associated conditions listed in Schedule J of the licence.

The treatment facility will be operated per the specifications of Peak Energy to assure effective treatment of the camp water. Monthly reporting of the water quality at ST-8 will be completed as per the licence requirements. The effluent discharge point will be located approximately 400 m to the north-northwest of the camp, as specified in the water licence, though the exact point will be dependent on locating a flat location in the area that grades away from the camp. The positioning of the discharge line will also consider accessibility for monitoring of the discharge as well as minimization of additional disturbance of the tundra.

### **Sewage Management**

Because the full sewage treatment plant has not yet been constructed, the temporary camp will utilize self-contained incinerator toilet systems. These systems are designed to fully incinerate solids and liquids contained within the toilets using electricity for combustion. The residual product is ash, which will be collected and stored in drums for ultimate backhaul from the site. The backhauled ash will be deposited in an acceptable facility, and HBML will maintain a manifest, including proof of acceptance, if necessary, of the

ash waste. The operational manual for the toilets will be followed to assure effective incineration of the sewage.

### **Incinerator Use**

As with the sewage treatment system, the incinerator unit that was purchased for the permanent camp is not yet installed. In order to protect wildlife and maintain camp order, a temporary Smart Ash Cyclonic Model No. I-013 incinerator will be used during operations of the temporary camp. In order to meet Canada-wide dioxin and furan standards, as specified in Part G-Item 6 of the licence, only food waste and wood products (paper, cardboard, and wood waste) will be incinerated. Plastics and other petroleum based products will not be incinerated with the temporary unit, which will assist in the meeting of emission standards. Due to the small camp size and limited timeframe of operations, plastics and others non wood-based materials will be temporarily stored until the Doris incinerator is operational, at which time, these materials will be added on a controlled basis to the normal incinerator feed of the permanent camp. As specified in the licence, HBML would be allowed to burn these types of waste using open burning methods, provided that it was done in accordance with the Government of Nunavut policy Municipal Solid Wastes Suitable for Open Burning.

To assure effective incineration of food and wood-based waste, the temporary incinerators will be operated per the manufacturers' specifications, as based on the operational manuals and guidelines developed by the manufacturer.