

NWB Annual Report

Year being reported: 2005 ▼

License No: NWB1BOS0106 Issued Date: October 05 2001
 Expiry Date: December 31 2006

Project Name: Boston ProjectLicensee: Miramar Hope Bay Limited (MHBL)

Mailing Address: Miramar Hope Bay Limited
300-889 Harbourside Drive
North Vancouver, BC V7P 3S1

Name of Company filing Annual Report (if different from Name of Licensee please clarify
 relationship between the two entities, if applicable):

same as above**General Background Information on the Project (*optional):**

The focus for MHBL continues to be on the Hope Bay project. MHBL is committed to a strategy of advancing the Hope Bay project to a production decision while continuing to expand gold resources.

The staged development strategy will focus first on the high-grade gold Doris North project, with the goal of generating cash flow to pay for site infrastructure and to fund the continued exploration and development of other resources on the Hope Bay Belt. MHBL plans to pursue extensions and expansions to the initial phase of production through mining of other resources on the Hope Bay Belt. MHBL's exploration strategy will focus on expanding and increasing the confidence level of existing deposits and on continued exploration for new gold resources in order to support a sustained intermediate production profile. MHBL will continue to conduct grassroots exploration in cooperation with strategic partners. To achieve these objectives, MHBL needs to successfully:- a) complete the current permitting process for the Doris North project; b) complete a positive feasibility study during 2006 for Phase 2 expansion; c) complete financing for mine construction; d) successfully construct and place into production the Doris North deposit; e) complete development of Boston, Doris, and Madrid (Naartok, Perrin, Rank & Suluk) deposits; and f) identify additional resources along the Hope Bay Belt

Licence Requirements: the licensee must provide the following information in accordance with

Part B ▼ Item 1 ▼

A summary report of water use and waste disposal activities, including, but not limited to: methods of obtaining water; sewage and greywater management; drill waste management; solid and hazardous waste management.

Water Source(s):	Spyder (Aimaogaktag) Lake		
Water Quantity:	150 per day	Quantity Allowable Domestic (cu.m)	
	34.1	Actual Quantity Used Domestic (cu.m)	
	NA	Quantity Allowable Drilling (cu.m)	
	NA	Total Quantity Used Drilling (cu.m)	

Waste Management and/or Disposal

☒ Solid Waste Disposal☒ Sewage☒ Drill Waste☒ Greywater☒ Hazardous☐ Other:

Additional Details:

At Boston Camp during 2005 exploration season, the following activities were carried out. Not a lot was able to be done as Boston Camp was used only for a short period of time.

Solid Wastes: Solid wastes management is a challenge because of steady accumulation over the years at Boston Camp. However, over the last 12 months (exploration season), significant progress has been made in managing this challenge. A segregation system of kitchen waste has been implemented at Boston Camp. Pops cans are placed in a separate bin while combustible wastes are placed into another bin. The combustibles are incinerated daily in an incinerator-installed onsite during operational seasons at Boston. Ashes are collected daily and stored in 45-gal drums and stored in the LTA. This process will continue in 2006.

Empty 45-gal drums stored on property is a challenge. Most drums were opened as a means to store solid wastes generated around the camps and drilling sites. In drums where fuel/oil was visible, absorbent pads were used to soak up the fuel/oil and burnt. Corncobs (peat moss) were added to the remaining contaminated water to absorb the remaining petroleum products. The used corncobs were placed in the LTA at Boston Camp. In barrels where only water was present, a sump pump was used to transfer water from open barrels into the lined pond via the lined fuel farm berm. Approximately 147 empty drums were crushed and packed on pallets ready for shipment off site. Other non-combustible wastes are stored on pallets east end of Boston Camp.

Sewage -RBC greywater and Sludge: The results of the waste water are tabulated in the attached report. (see attachment)

As the number of total and faecal coliforms continues to be over the compliance values, a constructed filter system was constructed and laid by the grey water release point. The filter system consists of 3 layers of materials. First layer was sand followed by peat moss then gravels. The objective was to release the grey water onto the gravel beds then filter through the peat moss and sand before spreading over the tundra in an effort to reduce the total and faecal coliforms and preventing creation of a single grey water channel. This modification was not tested due to closure of the camp in 2005.

Hazardous Wastes: Petroleum Contaminated Topsoil - In 2003, a land treatment area (LTA) was built for use to store and treat petroleum contaminated topsoil. Approximately 90 m³ of topsoil are stored in this treatment area. Topsoil previously stored in 45-gal barrels will be emptied into this facility for treatment. During 2005, turning of the contaminated soil in the LTA was by hand. This process was very slow in achieving a desired outcome. Lack of proper equipment hampered completion of this task. What was observed during turning of the soil showed non-biodegradable materials placed together with the contaminated soil and therefore absorbed the petroleum products leached from the soil thus preventing breakdown of the product by natural agents. Turning and testing of the contaminated soil will continue in 2006. Treated topsoil once deemed safe would be used for reclamation purposes around the property. Approximately 30 broken bags of drilling salt (NaCl & CaCl) were repacked and stacked on pallets.

Drilling Waste, as per Part A of the WUP # NWB1BOS0106 means all materials or chemicals, solids or liquid, associated with drilling of bore holes and includes bore hole cuttings. During 2005 exploration program, no drilling was conducted at Boston. Environmental work at Boston focused on solid waste management. This involved removing drill-cutting mega bags from the lay down site along the airstrip. Approximately 200 empty bags disposed off in the burn pit on site.

A list of unauthorized discharges and a summary of follow-up actions taken.

Spill No.: (as reported to the Spill Hot-line)
Date of Spill:
Date of Notification to an Inspector:
Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

(No spills reported for Boston Camp in 2005)

Spill No.: (as reported to the Spill Hot-line)
Date of Spill:
Date of Notification to an Inspector:
Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

(No spills were reported for Boston Camp in 2005)

Revisions to the Spill Contingency Plan

SCP addendum attached for Board consideration

**Additional Details:**

This EER&CP has been revised taking into consideration inputs from regulatory authorities, changes to exploration strategies, new infrastructures and personnel changes within MHBL. Section 7 of the EPP provides response instructions to Exploration program personnel for unplanned events. MHBL has revised and submitting the Spill Contingency Plan as part of its obligation under Water Use Permit # NWB1BOS0106. The plan will be reviewed annual or as required through the program. Additional contingency plans have been developed for the following accidental and unplanned situation and included in the submitted EPP. The developed Plans are as follows: (i) Fuel and Hazardous Material Spills; (ii) Wildlife Encounters; and (iii) Discovery of Historic Resources.

Revisions to the Abandonment and Restoration Plan

AR addendum attached for Board consideration

**Additional Details:**

This A&R plan has been developed with an objective to carryout progressive reclamation at all stages of the program. The revised plan is attached to comply with obligations stated in Water Use Permit # NWB1BOS0106. Section 6 of the EPP provides an outline of the Abandonment of work areas. General environmental protection measures are developed for a wide range of standard activities at worksite on the Hope Bay Belt during each phase of the Exploration program. Plans have been developed to protect (i) environmentally sensitive areas especially worksites or accommodation camps operating close to lakeshore or around historical sites; (ii) Abandonment of work sites, camps and other infrastructures; (iii) environmental concerns relating to reclamation of contaminated areas etc; (iv) sensitive areas and periods such as ice melts etc. This section details an effort to continually improve on progressive reclamation of disturbed areas as a result of MHBL Exploration activities.

Progressive Reclamation Work Undertaken

Additional Details (i.e., work completed and future works proposed)

No site reclamation activities were carried out in 2005.

Results of the Monitoring Program including:

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized;

Details described below

**Additional Details:**

All freshwater were obtained from Spyder (Aimaaktak) Lake @ SNP Station 1652-1a using the Water Supply Facility approved by NWB. The GPS coordinate for SNP Station 1652-1a will be obtained in summer of 2006.

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;

Details described below

**Additional Details:**

*Grey water release - SNP 1652-3
Drill cutting sludge - Along the southern portion of the airstrip*

Results of any additional sampling and/or analysis that was requested by an Inspector

No additional sampling requested by an Inspector or the Board



Additional Details: (date of request, analysis of results, data attached, etc)

(No additional sampling request issued by NWB)

Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.

Additional sampling requested by an Inspector or the Board (See below)



Additional Details: (Attached or provided below)

A request was made by the NWB Water Inspector in July 2005 to have a couple of 45-gal drums of contaminated wastes checked and cleaned up. This was done the following day. See attached report - MHBL addressing DIAND Field Reports, 2005

Any responses or follow-up actions on inspection/compliance reports

Inspection Report received by the Licensee (Date):



Additional Details: (Dates of Report, Follow-up by the Licensee)

See attached Environmental Protection Plan (EPP)

Any additional comments or information for the Board to consider

As part of MHBL environmental strategy, a new Environmental Protection Plan was developed (see attached copy for details). This document is part of the Environmental Management System (EMS), which includes specific procedures for exploration activities anticipated in the Hope Bay Belt such as clearing, diamond drilling, stripping and grubbing of overburden/rock, trenching, handling of fuel and hazardous materials, solid waste disposals, erosion prevention, wildlife, cultural site sightings etc. The revision of the EPP will be triggered by changes to the specific aspects of the activities as the Exploration program moves to new heights, trends in environmental monitoring data, stakeholder concerns and changes in regulatory requirements that will require changes to current management practices. The current EPP is structured to allow for such updates and revisions. Protection plans have been developed to protect (i) environmentally sensitive areas; (ii) Camp activities; (iii) environmental concerns due to unexpected spill or release of hazardous materials, contamination of camp water supply etc; (iv) sensitive areas and periods such as ice melts.

The EPP reflects future objectives such as placing a high priority on prevention and waste reduction through substitution with "innovative" technologies or products throughout the operation of the Project, especially with respect to overburden and waste rock placement, tailings management, domestic and industrial solid wastes, liquid effluent, drill cuttings and hazardous wastes. To meet the needs of each phase of the Project, additional environmental protection procedures will be developed as appropriate.

Date Submitted:

March 31 2006

Submitted/Prepared by:

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