

2013 Hope Bay Belt Environmental Baseline Study

Annual Summary

This summary is intended to meet the requirements of Rescan's Nunavut Research Institute (NRI) Research Licence No. 0405512 N-M for the Hope Bay Belt area.

Hope Bay Mining Limited (HBML) explored gold deposits in the Hope Bay greenstone belt, which is located in the West Kitikmeot region of Nunavut. The area includes three main deposits; Doris, Madrid, and Boston. The Doris North Project was previously permitted to exploit the Doris deposit.

TMAC Resources Inc. (TMAC) acquired the Doris North Project from HBML in March 2013. The acquisition included exploration and mineral rights over the Hope Bay Belt, as well as the Doris North Gold Mine and its permits, licences and authorizations for development received by previous owners.

Prior to the sale, in late 2011, the Doris North Project was transitioned into Care and Maintenance, and construction and exploration activities were suspended. TMAC re-opened the Hope Bay Belt Project after it took control of the project to support exploration and environmental programs under its existing environmental permits, licences and authorizations. Baseline studies were carried out throughout 2013.

In 2013, TMAC continued baseline studies in the area, with a focus on the Doris, Madrid and Boston deposit areas. In addition to baseline work, field studies were conducted in support of compliance requirements for the Doris North Project.

Highlights from the 2013 baseline and compliance monitoring are:

- Maintenance of the Doris camp automated meteorological station and the installation of a micro-meteorological station in Doris Lake to monitor lake evaporation;
- Monitoring of air quality with a Partisol ambient air sampler, and a passive air sampling system (PASS);
- Monitoring of stream flow volumes and stream and lake water levels;
- Monitoring of physical limnology and physical oceanography, water quality, sediment quality, and aquatic organisms in lakes, streams, and marine areas;
- Monitoring fisheries compensation sites at Roberts Outflow, Stream E09, and Windy Lake;
- Ground-based surveys (PRISM plots and point counts) of upland breeding birds (songbirds, shorebirds, ptarmigan and, short-eared owls);
- Aerial pair and brood surveys of waterfowl, occupancy and productivity monitoring of raptor nests and reproductive success; and,
- Setting up of remote-sensing cameras to monitor wildlife use of infrastructure and entering/exiting areas of existing infrastructure.

Environmental data collection will continue in 2014, as required, to fulfil obligations of licences and permits held for the Doris North Project compliance programs.