



# **2012 Annual Report to the Nunavut Water Board**

Licence No. 2BE-MVP1217

March 2013

Vale Exploration Canada Inc.



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## Executive Summary

This report is intended to satisfy section two (2) of Part B: General Conditions of Nunavut Water Board Licence No. 2BE-MVP1217 requiring the Licensee to provide an annual report on activities undertaken under the Licence. The 2012 field program conducted by Vale on the Melville Peninsula ran from July to early September and consisted of the construction of an exploration camp adjacent to the runway at the former CAM-5 DEW Line site, airborne geophysics, geological mapping and sampling as well as a ground geophysics survey. Water use during the work period was restricted to camp use as no drilling was undertaken and daily use was well under the five cubic meters per day ( $5 \text{ m}^3 / \text{day}$ ) allowed for the camp under the Licence which allows a daily total use of  $100 \text{ m}^3$  for combined camp and drilling use. The exploration camp remains on site and is intended to be operational in summer 2013.

## **A Summary of water use and waste disposal**

Water was drawn from a small lake adjacent to the exploration camp and was consistently well under the five cubic meters per day (5 m<sup>3</sup> / day) allowed by the Licence. The water was used exclusively for non-potable camp use; bottled water was transported to site to be used for drinking and cooking. Daily water use volumes are presented in Table 1. All non-hazardous waste was incinerated in a high-efficiency incinerator on site and the resulting ash sealed in an empty 45 gallon drum. Both ash and waste fuel were brought to Iqaluit, with some waste fuel (~1 drum) shipped to Montreal, and were disposed of at an approved facility.

## **B Unauthorized Discharges and Actions Taken**

No unauthorized discharges occurred during the Licence activities for the 2012 period.

## **C Revisions to the Spill Contingency Plan and Abandonment and Restoration Plan**

An addendum to the Spill Contingency Plan detailing the infrastructure, local drainage patterns, nearby waterbodies and spill response equipment as well as the secondary containment of fuel caches was provided to the Board August 5, 2012. No other revisions or amendments have been made.

## **D Description of progressive and/or final reclamation work**

The exploration camp remains on site and will be in operation again in 2013. As such, no reclamation work as yet been undertaken. Photos at the end of this report show the site before construction of the exploration camp and during its operation.

## **E Artesian flow occurrences**

No artesian flow occurrences were encountered.

## **F Summary of information requested and monitoring program**

During the summer of 2012, from July to early September, Vale Exploration Canada Inc. lead an exploration program on the Melville Peninsula. The program consisted of constructing an exploration camp adjacent to the runway at the CAM-5 DEW Line site, airborne and ground geophysics and geological mapping and sampling. Water was pumped from a small lake near the site of the exploration camp in volumes less than the five cubic meters per day (5 m<sup>3</sup> / day) allowed by the Licence for camp use. The exploration camp remains in place and work is expected to resume during summer 2013.

## **G Other details on water use or waste disposal requested by the Board**

No such request has been received.

<u>Date</u>	<u>Measurement</u>	<u>Meter Reading</u>	<u>Usage (m<sup>3</sup>)</u>
7/27/2012	Pumping Estimate		1.0
7/28/2012	Pumping Estimate		1.5
7/29/2012	Pumping Estimate		1.5
7/30/2012	Pumping Estimate		1.5
7/31/2012	Pumping Estimate		1.5
8/1/2012	Pumping Estimate		1.5
8/2/2012	Pumping Estimate		1.9
8/3/2012	Pumping Estimate		1.5
8/4/2012	Pumping Estimate		1.5
8/5/2012	Pumping Estimate		1.9
8/6/2012	Pumping Estimate		2.4
8/7/2012	Pumping Estimate		1.9
8/8/2012	Pumping Estimate		1.9
8/9/2012	Pumping Estimate		1.9
8/10/2012	Pumping Estimate		1.3
8/11/2012	Pumping Estimate		1.9
8/12/2012	Pumping Estimate		1.9
8/13/2012	Pumping Estimate		1.8
8/14/2012	Pumping Estimate		1.7
8/15/2012	Pumping Estimate		0.1
8/16/2012	Pumping Estimate		1.8
8/17/2012	Pumping Estimate		1.8
8/18/2012	Pumping Estimate		1.9
8/19/2012	Flow Meter	2.406	2.4
8/20/2012	Flow Meter	4.474	2.1
8/21/2012	Flow Meter	6.490	2.0
8/22/2012	Flow Meter	8.402	1.9
8/23/2012	Flow Meter	10.823	2.4
8/24/2012	Flow Meter	13.567	2.7
8/25/2012	Flow Meter	16.020	2.5
8/26/2012	Flow Meter	18.479	2.5
8/27/2012	Flow Meter	20.508	2.0
8/28/2012	Flow Meter	22.776	2.3
8/29/2012	Flow Meter	24.639	1.9
8/30/2012	Flow Meter	26.303	1.7
8/31/2012	Flow Meter	27.608	1.3
9/1/2012	Flow Meter	28.622	1.0
9/2/2012	Flow Meter	29.734	1.1
9/3/2012	Flow Meter	30.680	0.9
9/4/2012	Flow Meter	31.515	0.8
9/5/2012	Flow Meter	31.593	0.1

Table 1. Daily water usage. Flow meter installed 8/18/2012.



Photo 1. View looking east of the site of the exploration camp site prior to construction.



Photo 1. View looking east of the site of the exploration camp during operation.