Appendix B4

2017 Quarry 22 Report

AGNICO EAGLE

MEADOWBANK GOLD PROJECT

2017 Quarry 22 Report

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EXECUTIVE SUMMARY

Following the AANDC inspection report in 2012, this report has been prepared to provide information regarding the clean-up of quarry 22:

- Explanation of presence of contaminated soil in quarry 22;
- Transfer of material to Meadowbank Landfarm;
- Sampling of the soil at quarry 22; and
- Next steps for the finalization of the decontamination.

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SECTION 1 • INTRODUCTION

1.1 BACKGROUND

The AWAR (All Weather Access Road) is used to transport material, goods and petroleum products from the Baker Lake Marshalling Facility to the Meadowbank Mine Site. Quarries along the road were used as a source of road building aggregate during the construction phase of the AWAR. Quarry 22 (Q22) is one of these quarries and at this time it is anticipated that no additional materials will be taken from this quarry. Quarry 22 was also historically used as a temporary storage area for contaminated materials generated as a result of petroleum hydrocarbon spill clean-up activities prior to the establishment of the landfarm at the Meadowbank site. The site ceased to be used for this temporary storage when the Meadowbank Landfarm was completed in 2012. All contaminated material was removed from Quarry 22 and taken to the landfarm, located at the west end of the South Tailings Cell, in 2013. The remedial activity currently underway in Quarry 22 and described in this report consists of removal of contaminated materials, the commencement of pit wall sloping and confirmatory sampling of areas where material contaminated with petroleum hydrocarbons (PHC) was stored. The final reclamation of the quarries along AWAR will be done during the closure phase of the Meadowbank mine site as described in the Meadowbank Interim Reclamation and Closure Plan (Golder, 2014).

It should be noted that this quarry site is on Inuit Owned Land and is subject to the conditions of a KIA Land use lease.

1.2 OBJECTIVES

This report summarizes the following aspects concerning Quarry 22:

- Presence of contaminated soil;
- Movement of contaminated soil;
- Analytical results; and
- Next steps in remediation.

SECTION 2 • QUARRY 22

Quarry 22 was used in the past for temporary storage of contaminated soil generated from petroleum hydrocarbon spills (diesel fuel, hydraulic oil, motor oil, etc.) that occurred during operations of the Meadowbank site and spills that occurred during construction of the last portions of the AWAR. An approved landfarm was completed and used at the Meadowbank site in 2012.

As a result of findings stated in an AANDC Water License inspection dated March 2012 Agnico Eagle prepared and submitted an action plan (dated June 2, 2012) to the Inspector. The Plan consisted of a two phased approach. The first phase included an assessment and delineation of any residual contamination as a result of the storage and the second phase consisted of removing identified contaminated soils and coarse rock to the Landfarm at Meadowbank.

In 2013 a total of 4,413 m^3 of soil and coarse material was removed from Q22. Approximately half of this (1,930 m^3) was placed in the landfarm in windrows for soil decontamination. The remaining coarse material, which was not contaminated with PHC's, was placed in the Meadowbank Waste Rock Storage Area, located north of Portage Pit. Residual, uncontaminated coarse rocks were used as pit wall sloping in Q22 for progressive reclamation.

2.1 2017 ACTIONS

Results from the September 2014 fall confirmatory sampling indicated some remnants of contamination when compared to the CCME remediation Criteria for Industrial Use of Coarse Material. Most of the contamination remaining was associated with Fraction 3 hydrocarbons. Therefore, Agnico proposed to scarify the remaining contaminated areas in Q22 during the summer of 2015 and 2016 and resample (see Q22 2016 report – 2016 Annual report) in 2017.

Taking into consideration the results from the 2014 to 2016 work plan, Agnico Eagle intended to continue to scarify the surface of Quarry 22, as in previous years, with the back-end of a grader, allowing ground surface to be aerated thus increasing degradation of PHC. However, because of repeated observation of Peregrine Falcon activity and nesting during our quarry inspections, we decided to limit all activity within the area, including scarification.

This decision was taken to minimize impact on potential success of nesting for this species and therefore ensure proper conditions of nesting activity.

Regular inspections of the quarry were also performed during the year to ensure that runoff, if any, would be free of any visible sheen and would not impact the environment. No issues with runoff water inside the quarry were noted in 2017.

2.2 QUARRY 22 SAMPLING

Sampling was planned for the summer of 2017, but the aforementioned falcon presence and safety concerns prevented the campaign from being completed.

SECTION 3 • CONCLUSION/RECOMMENDATION

Based on the degradation history of PHC's in the Meadowbank Landfarm and upon analysing results from the 2014 and 2016 Q22 soil sampling, Agnico Eagle is confident that the natural degradation of Petroleum Hydro Carbon (PHC) related products is an effective remediation method for Q22. Therefore Agnico proposes to continue scarifying the surface areas in Q22 during the summer of 2018 and conduct another round of sampling in the late fall before freeze up, if conditions allow the items to be completed without disturbance to wildlife. Results will be compared to the 2014 and 2016 data to monitor the level of degradation.

Results will be collated and analysed further to follow the degradation rates of the quarry surface. If needed, further course of action could include removal of additional material. Nonetheless, Agnico considers the actual methodology to be a satisfactory solution to the remediation of the quarry.

Agnico will ensure that runoff (if any) will stay within the site of the quarry during freshet and thus not impact any watercourses and/or the environment. This item is part of our weekly AWAR inspection. To date there have not been any impacts to water outside of this quarry.

Agnico will then assess any future actions based on the next soil sampling campaign.