Encampment Minerals, Inc. Exploration Plan Submitted on 07/17/2017

DNR Summary Report

Encampment Minerals, Inc. (Encampment) submitted an exploration plan on July 17, 2017 and it is summarized here by the DNR. Their state nonferrous metallic minerals leases require that they submit a plan. The proposed exploration activities are shown in a standard format and legend. This report was created by the Minnesota DNR, Division of Lands and Minerals.

This report is posted on the DNR’s exploration plan webpage.

Figure 1 – Locator map for exploration plan
DNR Summary Report

Exploration Plan Summarized by the Minnesota DNR on July 24, 2017

**Narrative:** Encampment Minerals, Inc., an exploration company, plans to explore for metallic mineral deposits on 5 of its state nonferrous metallic mineral leases. The project area is about 5 miles south of Hoyt Lakes in St. Louis County (see Figure 1). They plan to drill exploratory borings into the bedrock on up to 15 drill sites. The company may need to adjust some of the drill sites up to 500 feet depending on new data and ground conditions. The company states that drill sites will be located no less than 300 feet from the St. Louis River. The work will occur in winter when the ground is frozen. The company has drilled in this project area since 2009 on an intermittent basis. They submitted an Exploration Plan to the DNR for review on July 17, 2017.

**State nonferrous metallic mineral leases:** MM-10207-N, MM-10208-N, MM-10209-N, MM-10256-N, and MM-10258-N

**Public Land Survey location:** Township 57, Range 14, Sections 3, 4, 9, & 10

**Types of exploration activity:** Exploratory Borings and down hole geophysical surveys.

**Expected time period of activity:** December 2017 through April 2018

**Plans to access exploration sites:** The Explorer will use existing access trails and develop some new trails as shown in Figure 2.

**Surface ownership:** Upon DNR approval the Explorer has the right to work on state-owned surface, which covers most of these state mineral leases. Other parties own the surface over some of the leased state mineral parcels and adjacent lands. The Explorer states they will not conduct exploration activities on those lands or use existing access trails without prior agreement with the landowners.

**Explorer contact:** Ted DeMatties, (763) 232-8281 or tdematties@aol.com

Maps and Data Disclaimer

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Regarding Drill Pad Sites for Exploratory Borings

The average size of a drill pad proposed here is 50’x50’ which is approximately .057 acres in extent. At this size it would take almost 700 exploratory drill pad sites to fill a 40 acre footprint. The 15 drill pad sites shown here are significantly exaggerated in size (35x) so they can be seen on the map.

What are Special Features?

*State Lease boundaries depicted are for reference only. The state of Minnesota’s land and mineral interests GIS data is mapped at the 40 acre level of resolution.

Base maps - National Forest System Roads; DNR Public Land Survey Townships and Section Bounds;

The beds of significant rivers and water bodies in DNR’s Public Waters Inventory (PWI) are excluded from exploration activity.

*Active state nonferrous metallic minerals leases with proposed activity. Lease identification numbers labeled on the map (ex. MM-10258-N).

The St. Louis River is a State Water Trail which is a Special Feature.

Native Plant Communities Imperiled (S2).

High biodiversity significance mapped by the Minnesota Biological Survey staff.

Figure 2. DNR Summary Overview Map of Exploration Plan

Proposed Exploratory Boring Sites
Existing Access Trails to Boring Sites
Proposed New Access Trails to Boring Sites

Scale 1:24,000

0 0.25 0.5 1 Mile

Figure 2 by DNR - Lands and Minerals Division 07/24/2017