



Greg Lewicki And Associates, PLLC

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February 24, 2020

Elliott Russell
Colorado Division of Reclamation, Mining, and Safety
1313 Sherman St, Room 215
Denver, CO 80203

**Detroit City Mine
Adequacy Review Response TR-04; M-2017-003**

Mr. Russell

Colorado Calumet Co. has prepared the following response to your adequacy review of Technical Revision 04 of the Detroit City Mine reclamation permit.

1. Adequacy Items

- 1. Please revise Number 6 of the Waste Rock Sampling Plan to reflect that a sample will be taken from every 2000 cubic yards of waste rock that is transported to the surface of the mine instead of the waste rock that the mine ships offsite.*

Applicant Response: Number 6 of the Waste Rock Sampling Plan is revised to read as follows:

“A sample, as described above, will be taken from every 2000 cubic yards of waste rock that is transported to the surface of the mine. At a minimum, one sample will be taken each calendar year that material is transported to the surface of the mine, e.g. if no waste rock is produced during a given year, no sample will be taken.”

- 2. To ensure results are submitted more timely to the Division, please revise Number 7 of the Waste Rock Sampling Plan to state that sample results will be provided to the Division instead of as a part of the annual report.*

Applicant Response: Number 7 of the Waste Rock Sampling Plan is revised to read as follows:

“Sample results will be provided to the Division promptly following sampling and lab analysis.”

2. Additional Items

The entire Waste Rock Sampling Plan, updated as shown above, can be found attached to this letter for clarity.

Please contact me if you have any further questions or concerns.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ben Langenfeld", with a stylized flourish at the end.

Ben Langenfeld, P.E.
Greg Lewicki and Associates

3. Waste Rock Sampling Plan

In order to monitor waste rock from the mine workings that is shipped offsite to a landfill or other appropriate and approved destination, the following sampling plan will be implemented:

- 1) Rock generated from underground development is piled within the underground workings. From these piles, waste rock is transported to the surface for loading into trucks that take material offsite.
- 2) At the surface, the waste rock will be passed through a crusher and crushed to a size of two inches minus. This is the size that all material shipped offsite is crushed to.
- 3) The crushed rock output will be sampled using a five-gallon bucket. A sample will be pulled from the crusher output every five minutes until at least five buckets have been filled or all of the waste rock feed has been crushed, whichever is less.
- 4) These five gallon buckets will be mixed and split thoroughly. From this source, a fifteen pounds final sample will be taken.
- 5) The fifteen pound final sample will be sent to a certified laboratory for whole rock analysis and acid-base accounting.
- 6) A sample, as described above, will be taken from every 2000 cubic yards of waste rock that is transported to the surface of the mine. At a minimum, one sample will be taken each calendar year that material is transported to the surface of the mine, e.g. if no waste rock is produced during a given year, no sample will be taken.
- 7) Sample results will be provided to the Division promptly following sampling and lab analysis.