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Mr. Jim Rogers
Manager, Water Resources
Nunavut Region
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by email

RE: Request to Dispose of Contaminated Soils Underground at Lupin Mine - Clarification

Dear Jim:

In response to your questions concerning our application to dispose of contaminated soils in the underground stopes at Lupin, I am providing the attached drawings for clarification. As stated in the Lupin reclamation plans submitted to the Nunavut Water Board, the remediation strategy for surface soils containing residual hydrocarbons or elevated concentrations of metals is either direct burial in the TCA or disposal within the mined-out workings. Disposal in the TCA will not be an option once restoration is complete and the preferred disposal method for contaminated surface soils at this point is to place these materials underground.

There are 5 stopes open to surface in the West Zone portion of the Lupin orebody. The widths of the stopes vary between 2.0 and 4.0 metres. The length and depth of the stopes is listed in the table below and can be seen on the attached long section and plan views.

Stope #	Length	Depth
1	38 m	27 m
2	33 m	7 m
3	39 m	70 m
4	81 m	70 m
5	17 m	7 m

Stope #1 originally extended from surface to the 87-metre level (i.e. 87 metres deep), but was filled to the 27-metre level to allow for mining of the crown pillar portion in 1997.

Dump blocks will be constructed at the ends and/or sides of stopes 1, 2, 3 and 5 to allow for safe dumping into the voids. Stope #4, however, will require 3 drop raises to be developed on the west side of the stope. These drop raises will be approximately 10 metres deep, by 2.4m x 2.4m in area. As illustrated on the long section view, the upper portion of stope #4 is already partially filled with development waste. In order to gain access to the open void below the sill pillar, the raises will be drilled and blasted from surface to breakthrough into the stope just below the sill pillar. Waste soil can then be dumped through the raises to fill the stope below 27-metre level. Another raise may be developed in the stope #2 area to fill the void below the sill pillar in that location.

Stopes 1, 2 and 5 are inaccessible from underground and completely isolated. Stopes 3 and 4 extend most of the way down to 87-level, but a muck bridge has developed a short distance above 87-level in the stope #3 area which prohibits any backfill from reaching the level. The drawpoints in the stope #4 area are plugged with frozen muck, preventing access to the open stope on 87 level. There is no access to any of the stopes from the intermediate levels.

Once the stopes are filled, a 1-metre cap of sand will be placed on the backfill and the sand will be capped by at least a metre of surface till, which has been stockpiled beside the stopes.

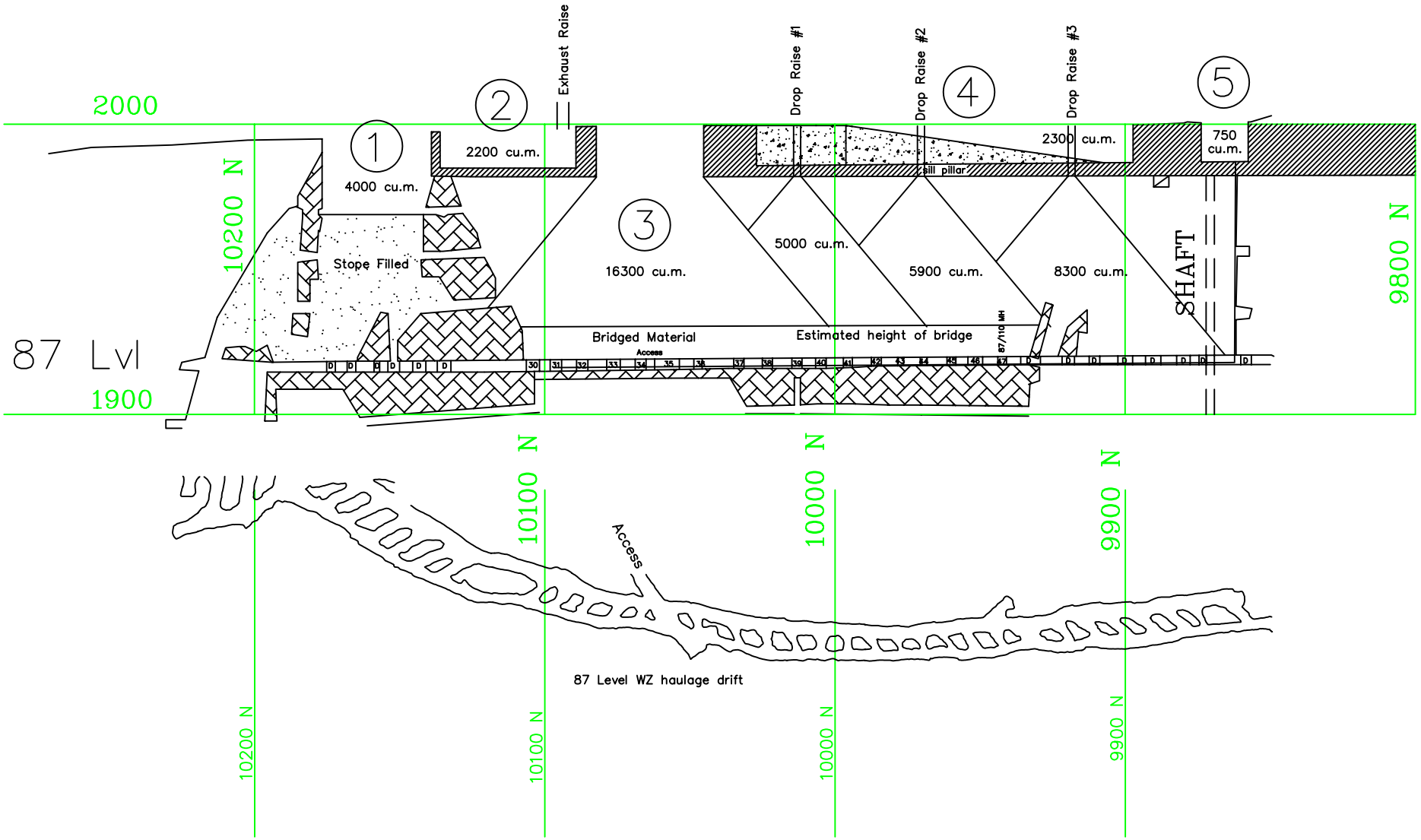
If you need further explanation about the process, please don't hesitate to call me.

Sincerely,

Original signed by
Michael Tansey

Michael Tansey
Reclamation Manager, Lupin

West Zone Crown Pillar Stopes




FARM
5
4
3
2
1
3
2
1
7m deep
7m to sill
ramp
open to 87 lvl(?)
7m deep
Open to 27 lvl
WZ OPEN STOPES
EMERGENCY POWERHOUSE
exhaust fan
CZ Exh Rse Stope
(approximate)
HOIST ROOM
fresh air fan