

**Nunavut Water Board
Public Hearing
Kugluktuk, November 15, 2001**

Speaking Notes for Hugh Ducasse

Mr. Chairman and members of the board, thank you for this opportunity to present information regarding reclamation activities at Lupin. My name is Hugh Ducasse and I am the Manager of Loss Control and Environmental Affairs. I have been working at the Lupin mine since 1985.

Slide 1

I will discuss some of the reclamation work that has been done to date in the industrial and residential facilities at the site and Dave Hohnstein will follow with the reclamation that has taken place in the tailings containment area and our conceptual plan for completing the reclamation of the tailings containment area. If at any time you find that the information I am giving you is unclear or if you have any questions, please do not hesitate to let me know.

Over the years, Lupin has diligently practiced progressive reclamation of the site. As of the end of this summer, we have spent a total of \$5.6M on reclamation work at Lupin and we are now at the point where there is very little left that can be done in the industrial and residential areas of the site until after we have finished milling.

Slide 2

This aerial photograph was taken in August of this year. Starting at the top of the photo, we have removed the fuel transfer station and all the associated piping from this location just west of the airstrip.

The three roads just east of the airstrip, and several others that are to the south of this photo, have been removed from service by having the accesses removed and the surface scarified to promote natural revegetation. In total, approximately 1500 metres of roadway have been reclaimed in this manner.

The original airstrip has also been reclaimed by removing the access and scarifying the surface.

In 1987 we had a leak in the tailings line just south of the sewage ponds. This area was reclaimed by stripping the tailings material and the surface soils and covering the area with esker sand. This work was completed in 1995 and since then, natural revegetation has begun to take hold.

Several storage buildings that were near the float plane dock have also been removed.

Slide 3

This is another aerial view of the industrial and residential facilities. The two holes in the ground on the right of the photo are the Centre Zone and West Zone Crown Pillars. This is where the ore body has been mined right up to surface.

Slide 4

The yellow arrow points to the location of what was a third hole, the East Zone Crown Pillar. A considerable amount of scrap steel was dumped down the hole. This was then covered with approximately 25 metres of oversize waste rock and underground waste rock. Finally, the overburden that had been previously stockpiled from prior to crown pillar mining was pushed back over the site and re-graded.

We have recently begun backfilling the CZ Crown Pillar since mining is now complete in that area. When that has been filled, we will once again push the overburden over it and re-grade the area.

Once the WZ Crown Pillar is completely mined out, it will be kept open until the final reclamation of the site begins. It will then be used for disposal of non-hazardous scrap material and, like the EZ and CZ, will be capped with waste rock and overburden.

Just below the yellow arrow was the location of a large steel clad building that was approximately 85 'X 140'. This building was sold, dismantled and shipped to another mine site in the NWT.

Slide 5

The next four slides will show the reclamation work that was done this summer. The two orange buildings you see in the foreground are the A and B Annexes that were used for accommodations in the first few years of Lupin's operations.

Slide 6

Since these buildings were no longer needed they were removed and the area was re-graded.

Slide 7

This picture was taken during the dismantling of the "Redpath" Annex. Once again, these buildings were used for accommodations in the early days and were no longer needed.

Slide 8

This is the same area after the buildings were completely removed and the site re-graded.

Slide 9

The entire original 6" diameter tailings line that ran from the mill to the tailings containment area was removed this summer. This was approximately 6 km of pipe. That concludes the reclamation that we did this year.

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Mr. Chairman and members of the board, I hope this brief presentation has given you insight into some of the reclamation that has taken place at Lupin to date. As I mentioned earlier, we have done just about everything we can do in terms of reclamation in the industrial and residential areas of the site at this time. As other facilities become obsolete, they too will be reclaimed and we do have plans for progressive reclamation of the tailings containment area, as Dave will present next.

As you all know, Lupin is not the only mine that Echo Bay operates or has operated. Echo Bay has three other operating mines in the United States and at each of these properties Echo Bay practices progressive reclamation. The quality of this progressive reclamation work is evidenced by the fact that:

- The McCoy/Cove Mine has received the Nevada State Excellence in Mine Reclamation Award for "Waste Rock Dumps" and for "Wildlife Habitat Enhancement";
- The Round Mountain Mine has received the Nevada Department of Environmental Protection Award for Excellence for the ongoing reclamation of the Manhattan site; and,
- The Sunnyside Mine has received the Colorado State Reclamation Award.

In addition to the four operating mines, Echo Bay has fully reclaimed several others. In the NWT, Echo Bay reclaimed the Pine Point Mine and the Port Radium Mine. In the United States, we reclaimed:

- the Alaska Juneau, mine which was recently given a complete release without prejudice by the state of Alaska; and,
- we reclaimed the Borealis Mine, which received the Nevada State Excellence in Mine Reclamation Awards for both "Mine Reclamation" and "Overall Mine Reclamation".

Our history shows that Echo Bay has not only met our reclamation obligations, but we have gone beyond the industry standard and have been officially recognised for our environmental commitment. There is no reason to believe that we will do otherwise at the Lupin site.

This concludes my presentation. Mr. Chairman and members of the Board, thank you listening. If you have any questions I will do my best to answer them, otherwise.