THE INTERNATIONAL NICKEL COMPANY
OF CANADA, LIMITED

ONTARIO DIVISION
MINING AND SMELTING DIVISION

COPPER CLIFF
ONTARIO

RECEIVED
DEC 13 1966
J.C.C.

Jim
as per our phone conversation: we can obtain additional info if needed.
T.T. Pinder

December 1, 1966.

Mr. T.T. Pinder,
Utah Division,
Kennecott Copper Corp.,
P.O. Box 11299,
SALT LAKE CITY, Utah 84110,
U.S.A.

Dear Tom:

I finally got you the literature regarding our tailings seeding procedure. Enclosed you will find the regular procedures and pictures. Below I have made general comments which may be useful.

The pictures of the truck are enclosed as requested. Our Agricultural Department wants me to point out that this type of seeding was only used on some 80 acres which presented a special problem of exposure to prevailing winds. The remainder of the seeding was carried out by conventional farm machinery.

No grain was harvested on the tailings area this year but an additional 60 acres were seeded. Grain crops are only grown as companion or nurse crops to help establish the grass as the permanent cover. The grass is cut and some sold as hay to local farmers. This year approximately 4,000 bales were sold. A picture of our laying operations is also enclosed.

The snow has now arrived plus zero weather so Christmas is certainly going to be white. I hope you have a good Christmas season sprinkled with a bit of that good American bourbon.

John Cooke and I are already looking forward to that spring meeting so hope to see you then.

Yours very truly,

M.E. Young,
Superintendent of Safety.

MEY/bl

Encl.

0004

Date 12-16-66

To

PNE

GET SET-UP
TO GO INTO THE
FARMING BUSINESS
NEXT SPRING.

TT Binder's file

J. C. Compton, General Superintendent
of Mining and Concentrating

RECEIVED
JUN 26 1968
P. H. ENSIGN

UTAH COPPER DIVISION
INTEROFFICE MEMORANDUM

June 26, 1968

P. H. Ensign

Subject: Tailings Dust Control

Per our telephone conversation of June 25, a request is made for two representatives from the U. S. Bureau of Mines, Dr. LeRoy Wullstein and Mr. Rob Rogers, to visit the tailings pond agricultural plot to observe the growth of the seedlings.

The frequency of their visits to the plot would be two times per week for a period of two months beginning June 27, 1968.

Alton W. Huffaker

/mrh

CONCENTRATOR DUST CONTROL
1968
SUMMARY OF EVENTS

1. The Terracruzer and water wagon continued working on the pond.

2. The dike tree planting program continued. Some 1,500 Siberian Pea plants and 3,500 Black Locusts were planted during the year.

3. The field test plots on the west side of the tailing pond were completed in the fall and one filled with coarse cycloned tailing was 50 percent planted with tall wheat grass.

4. In April, the Dowell Division of the Dow Chemical Company proposed to treat 3, one-acre plots on the tailing pond with a hygroscopic polymer (E641), using the water wagon as the application vehicle. This initial test was postponed until November when Dowell then proposed to treat two, 25-acre plots using a helicopter as delivery means.

5. Plans were developed in October to purchase a second LeTourneau water wagon, but purchasing was deferred until Thiokol had an opportunity to demonstrate one of their vehicles on the tailing pond. Arrangements were also made to get a supply of Coherex on hand for application by the water wagon.

UTAH COPPER DIVISION
INTEROFFICE MEMORANDUM

RECEIVED
JUN 24 1968
P. H. ENSIGN

June 21, 1968

P. H. Ensign

Subject: Tailings Dust Control

On Wednesday, June 19, Mr. Royal Anderson and I accompanied Mr. Karl Dean of the U. S. Bureau of Mines around the tailings pond to find a location to plant some experimental plots of juncas - a native plant of a slightly higher form than the grasses. We determined that the old tailings area between dike levels on the east side of the pond would be most suitable. This area is that in which Mr. Arvey is currently planting young elm seedlings.

Mr. Dean sampled the oxidized tailings in the area and found acidic conditions which would be deleterious to growth. To avoid this, he is planning to haul fresh tailings into the area prior to planting the juncas. This procedure is that which I cleared with you verbally on June 20.

If you have any questions in regard to this test, please advise.

R Heaney
Robert J. Heaney

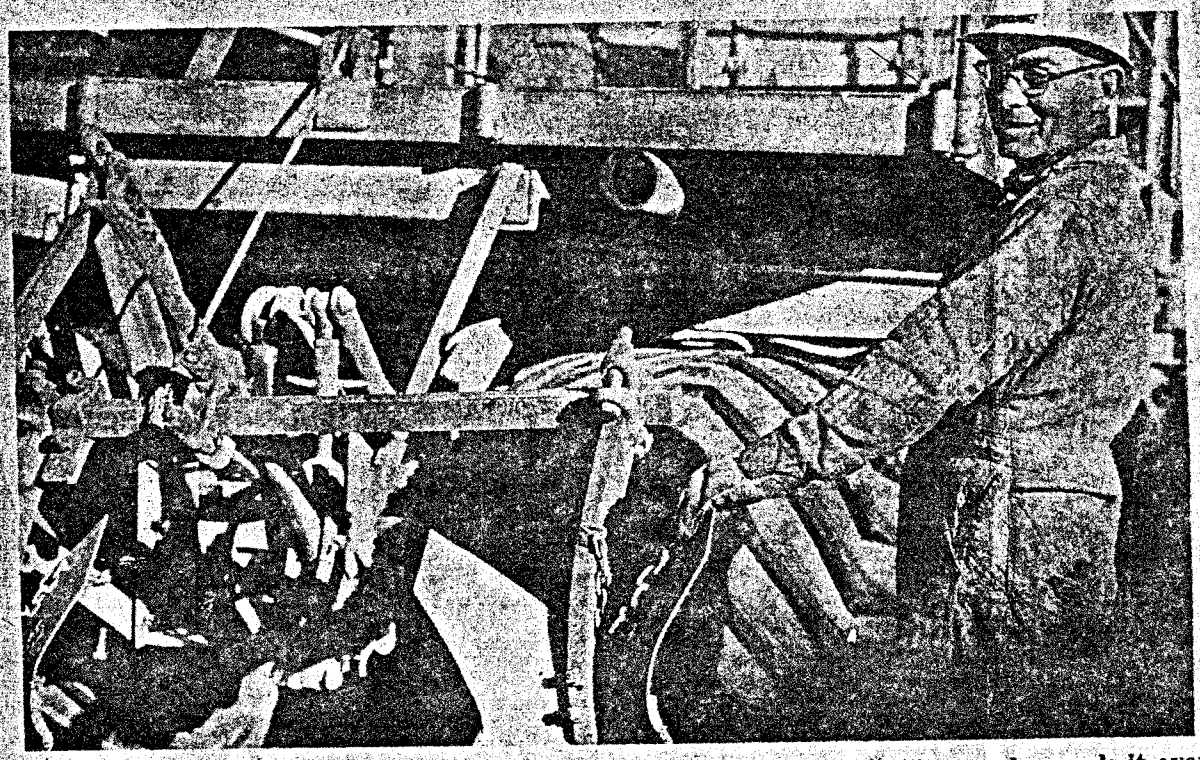
/mrh

cc: C. A. Behle
C. F. Erskine

Tailings Dust Problems Studied

Nov. 9 1967

Tour Made of KCC Properties by



HUGE MACHINE — Lyman Breeze of Magna, Kennecott Copper Corp. employe, is shown standing with his hand upon the blade that is pulled by a Terra-Cruiser, one of the machines used by the copper firm to control the tailings dust. Mr. Breeze shows the huge tire size and power of the outfit that digs moist tailings and spreads it over the dry-top to curtail the movement of tailings by wind. Four of these blades dig deeply into the lower, wet surface to break up the dried top, forming wind-barriers. They are operated at right angles to the wind.

Led by the Magna Elected Council, Chick Paris, president, county and state officials were in Magna Thursday, made a survey, and visited several sites, including the Kennecott Copper Corp. tailing ponds as part of a study to ascertain if the dust problem could be solved.

Considerable criticism and complaints have been made by citizens about the dust and Atty. Gen. Phil L. Hansen and Salt Lake County Commissioner Marvin G. Jensen, represented the state and county to tour the area.

They visited the Webster School, where Principal Owen Cluff told of the dust hazards, then went to the Arthur-Magna Concentrator offices and heard P. H. Ensign, superintendent, tell of steps that Kennecott has taken to find a solution to the tailings problem, saw the tailings ponds, and were also briefly at several local business firms.

Mr. Hansen said he was sure there must be a solution to the problem and felt that with the scientists America has, some remedy to control the dust could be found.

The attorney general said that if the dust was proven to be a public nuisance, the courts could take action.

Commissioner Jensen said that the County Commission would do whatever it could to help relieve the situation.

Mr. Ensign said Kennecott had undertaken various methods to control the fine dust by spraying; use of encrusting agents to hold it down; attempts to irrigate the ground with water and keep it moist, equipment purchased to keep the soil wet; use of snow fences, and attempts to grow vegetation on the ponds.

But, Mr. Ensign continued, these measures have failed because of the shifting of the water throughout the 5,100-acre ponds.

Commissioner Jensen said that plans call for the state and federal bureaus to build a monitoring station at the Brockbank Junior High School and county employes would be in charge, as part of a study of the dust problem.

Mr. Paris, Magna Elected Council president, said that his group would continue to study the problem, and also cooperate with the Bureau of Mines at the University of Utah to obtain further information and facts.

ies by Officials Rites He

Thursday, November 9, 1967