

UNITED SIERRA

BQX 1201 TRENTON, NEW JERSEY 08606
DIVISION CYPRUS MINES CORPORATION
TELEPHONE 609 • 883-5111 TWX 510 • 685-9585

March 19, 1971

810376


Mr. J. G. Simpson
Regional Manager - Western Canada
Cyprus Exploration Corporation, Ltd.
510 West Hastings Street
Vancouver 2, British Columbia, Canada

Dear Mr. Simpson:

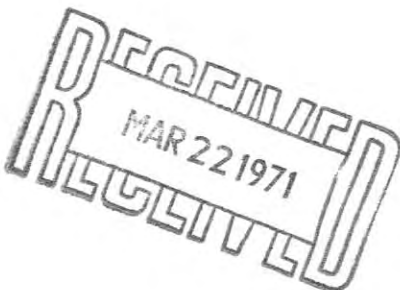
Thank you for your letter of March 11th. The samples of alumino-silicate mica submitted by the prospector were not enclosed, and as yet have not been received under separate cover as noted at the bottom of your letter. As soon as these arrive, we will have them run through our lab. and will let you have our thoughts on the matter.

Very truly yours,

UNITED SIERRA DIVISION
Cyprus Mines Corporation


H. T. MULRYAN
President

HTM:EE
cc: C. A. Marks



Miss Lavigne.
*Paul reminded me that all samples
submitted to us should be declared
as rock samples for analysis - if
no commercial value!*

TS

92-I-3 - PROPERTY SUBMITTED
Vancouver Island

CYPRUS EXPLORATION CORPORATION, LTD.
510 WEST HASTINGS STREET
VANCOUVER 2, BRITISH COLUMBIA
TELEPHONE: 683-9304

File

com

[Handwritten signature]
2/7/71

May 10, 1971

Mr. H. T. Mulryan,
President,
United Sierra Division,
Cyprus Mines Corporation,
Box 1201,
TRENTON, New Jersey,
U.S.A. 08606

Dear Sir:

I recently carried out a brief field examination of the aluminosilicate mica occurrence, samples of which you considered might have a good market potential, and enclose the relevant 1:50,000 map sheet showing the location of the mica and nearby low-grade pyrophyllite deposits.

The mica showing is very poorly exposed in a roadside ditch a few feet above sea level and dips at approximately 50° to the southeast into the hillside. Only the hanging wall and a few feet width of the mica are exposed. The host rock is a banded acid lava, with the hanging wall of the mica showing intense alteration and silicification. There is no direct evidence of origin although it seems likely that the deposit is associated with hydrothermal activity related to the intrusion of porphyritic and dioritic dykes which are common in the area. The silicified and rather distinctive cap rock outcrops sporadically along the roadside ditch for about 500'. Previous efforts to drill the mica have been amateurish and the best result to date is 20-30 feet of badly mangled core drilled down dip into the mica showing. It is impossible to assess the size of the deposit at present, but one hesitates to place the potential at much more than 50,000 tons which assumes a strike length of 500', an incline depth of 300', and a width of 10'. I would imagine this would be too small for consideration, however, the location is literally at roadside within a few hundred yards of docking facilities and could certainly be drilled off for a few thousand dollars.

While in the vicinity, I took the opportunity for a quick look at the nearby "pyrophyllite" deposits owned by the same party. Previous trenching and development is now completely

covered by secondary growth jungle, and the term is not used lightly when referring to the west coast of Vancouver Island. These occurrences are well described in an old Mines Department publication, and as I have little to add, I enclose a copy of this description and maps. The material is certainly very murky with a good deal of silica intermixed. As assays are quoted in the Mine's report, I leave it to you as to whether you would like any samples sent on.

In general terms, I was disappointed with the development of the showings and subject to your views, I would hesitate to make any recommendation for acquisition. If you feel the mica does have outstanding market and price capabilities, I think we could negotiate a small work commitment with an option to purchase which could include both the mica and pyrophyllite deposits. At the same time, a nearby occurrence of high-grade limestone which is of excellent quality would be worth a little preliminary investigation as a source of chemical grade lime, whitening and glazing material.

If you are interested, please contact me at your early convenience and I will, at least, keep the door open on Cyprus's behalf.

Yours very truly,

CYPRUS EXPLORATION CORPORATION, LTD.

J. G. Simpson
Regional Manager - Western Canada

JGS/jel

Encls.

c.c. C. A. Mark, C.M.C., Los Angeles

Lawrence Al. Si Mines.

File



WARNOCK HERSEY
INTERNATIONAL LIMITED
125 East 4th Ave., Vancouver 10, B.C. Phone 876-4111 - Telex 04-50353

COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION

REPORT OF: Chemical Analysis FILE NO. 465 - 13780

AT Vancouver Laboratory DATE March 17, 1971

PROJECT: Limestone Sample REPORT NO.

REPORTED TO: Cyprus Exploration Corporation Ltd., ORDER NO.
1101 - 510 West Hastings Street
Vancouver, B.C.

We have tested the sample of Limestone submitted by you on March 12, 1971 and report as hereunder

TEST RESULTS

	<u>Percent by Weight</u>
Acid Insolubles	- 0.16
Silicon (SiO ₂)	- 0.07
Iron (Fe ₂ O ₃)	- 0.02
Aluminum (Al ₂ O ₃)	- 0.10
Calcium (CaO)	- 55.00
Magnesium (MgO)	- 0.18
Sulfur (SO ₃)	- 0.01
Loss on Ignition (LOI)	- 43.70
Calcium (CaCO ₃)*	- 98.21

* The Calcium Carbonate is calculated from the calcium oxide content.

WARNOCK HERSEY

Ted M. Williams

T. M. Williams
SUPERVISOR, GENERAL LABORATORY

RECEIVED
MAR 18 1971
REGULATORY

GPS → CCM → File

CYPRUS EXPLORATION CORPORATION, LTD.
510 WEST HASTINGS STREET
VANCOUVER 2, BRITISH COLUMBIA
TELEPHONE: 683-9304

June 8, 1971

JGS
6/8/71

Mr. R. E. Lawrence,
Al-Si Mining & Milling Co. Ltd. (NPL),
1505 West 3rd Avenue,
VANCOUVER 9, B.C.

Dear Sir:

On the basis of my report on your mica and pyrophyllite properties, our United Sierra Division has indicated that they would not be interested in the pyrophyllite deposits, and that the tonnage indications on the mica are too small to warrant their attention at this time. If you can come up with some shallow boreholes or trenching data that extends the present single outcrop of mica, we would, of course, be interested to hear from you.

Yours very truly,

CYPRUS EXPLORATION CORPORATION, LTD.

J.G.S.

J. G. Simpson
Regional Manager - Western Canada

JGS/jel

c.c. C. A. Mark, C.M.C., Los Angeles

UNITED SIERRA

BOX 1201 TRENTON, NEW JERSEY 08606
DIVISION CYPRUS MINES CORPORATION
TELEPHONE 609 • 883-5111 TWX 510 • 685-9585

May 27, 1971

Mr. J. G. Simpson
Regional Manager - Western Canada
Cyprus Exploration Corporation, Ltd.
510 West Hastings Street
Vancouver 2, British Columbia, Canada

Dear Mr. Simpson:

Thank you very much for your letter of May 10th in which you outline the situation with respect to the mica showing on Vancouver Island. As you indicate, the deposit did not appear to be too encouraging and we don't think that a great deal of further effort should be expended. So far as the pyrophyllite is concerned, this is not of interest either, given the location of the material.

Again, limestone with its relatively low value should be nearer potential consuming markets to be of genuine interest.

We nevertheless thank you very much for calling these matters to our attention, and look forward to hearing from you with respect to any other interesting non-metallics that you encounter.

Best regards.

Very truly yours,

UNITED SIERRA DIVISION
Cyprus Mines Corporation

H. T. MULRYAN
President

HTM:EE

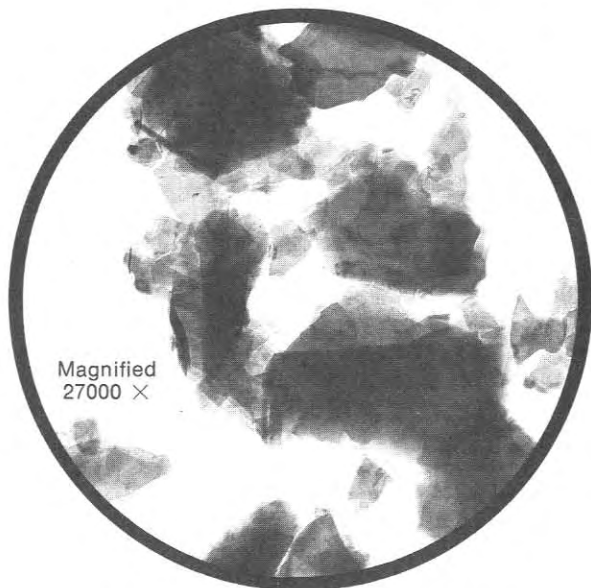


195 → file
Islen - what's the story on this?

I will inform Lawrence they aren't interested

AI-SI MINING AND MILLING
IS PLEASED TO INTRODUCE

AI-Si Mica Powder



*The plate like particles of AISi Mica
viewed through a super magnifying
electron microscope*

For further information write to

AI-Si Mining and Milling Co. Ltd. (N.P.L.)

Office: 1505 West 3rd Avenue
Vancouver 9, B.C.

Telephone (604) 731-2185

Mine & Mill:
Fair Harbour, Vancouver Island, B.C.

FOR APPLICATIONS SEE OTHER SIDE

Al-Si has large reserves of MICA for commercial applications such as paint pigments, extenders & fillers; also cosmetics, etc.

(AlSi) Mica Tests

white, brightness—92.9 to 100 on G.E.
meter

fineness through a 325 mesh screen 99.9

Waterground Mica

*Produced by a slow frictional grinding process
giving maximum flakiness, high sheen
slip and purity*

The term mica embraces a series of minerals of which muscovite, a silicate of aluminum and potassium, is most often found employed in connection with the paint trade. It is known as laminated inert. The crystals of mica have a very perfect basal cleavage which enables them to be split up into thin plates or laminae. AlSi mica is free from impurities such as iron manganese and other matter which would detract from the whiteness and transparency, it is a material of specific value in the manufacture of paints.

The lustre of mica resulting from its plate-like particle shape immediately suggests its use as an extender in aluminum paints and, in fact, very substantial amounts of mica can be added to such paints without noticeable detriment.

Mica is also a valuable addition to anti-corrosive paints. It may be used to extend red lead paints to a considerable degree without noticeable depreciation of their excellent anti-corrosive properties, but with an attractive saving in cost. Furthermore, used in conjunction with iron oxide and, under certain conditions, with zinc dust (zinc chromate), mica has been found to actually improve the anti-corrosive effect of these pigments.

The prolonged exposure of surface coatings to high temperatures is known to cause substantial losses in film weight as a result of disintegration. The presence of mica in alkyd finishes, for example, is known to reduce these losses appreciably.

Mica also enhances the tensile strength of varnished cloths.

**For further information and
samples write to AlSi
at our Vancouver office**

CYPRUS EXPLORATION CORPORATION, LTD.

510 WEST HASTINGS STREET
VANCOUVER 2, BRITISH COLUMBIA
TELEPHONE: 683-9304

April 2, 1971

United Sierra Division,
Cyprus Mines Corporation,
Box 1201,
TRENTON, New Jersey
U.S.A. 08606


Attention: Mr. H. T. Mulryan, President

Dear Sir:

Thank you for your prompt reply on the muscovite sample. I will follow the matter up with a field investigation, and will keep you informed of further developments.

Yours very truly,

CYPRUS EXPLORATION CORPORATION, LTD.


J. G. Simpson
Regional Manager - Western Canada

JGS/jel

Encl.

Pyrophyllite - block has manuscript on it.
In 1970 put in \$12,000.

Lawrence has to pay back \$30,000.

li. has formed A.S. M.C. - not many shares sold.

National Lead interested in property.

~~b.d. Dept.~~

Presently can make any deal -

Mostly will be going to the public for money than A.S.

Fair Harbour will soon be evacuated & bldgs. will be available for acquisition

Deal Cash - to reimburse

Mr. Lawrence going to property April 8-10.

will be at Angelus. 683-2435 until Wednesday.

WA flies to Tahsis.

Island Airways from Tahsis to Fair Harbour.

Mike All at Zeballos, Tahsis Co.

Contact thru personell at Tahsis Co. - send telex to

~~to Lawrence All.~~



45'

30'

15'

127°00'

REFERENCE

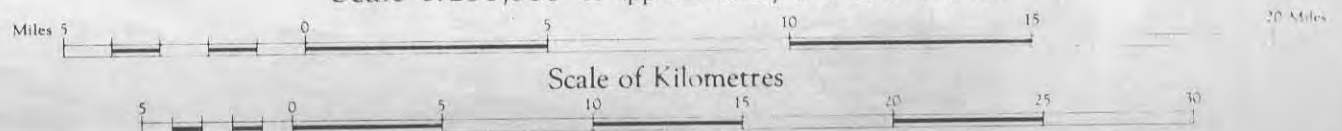
- Land Act
- Timber or Pulp Lease, Timber or Pulp Licence
- Reserve
- Boundary
- Rest Boundary
- License
- Area
- 40 acres



ALERT BAY

BRITISH COLUMBIA

Scale 1:250,000 or approximately 1 Inch to 4 Miles



PAUL

Alsi Mica

MR Lawrence in Town
Angelas Hotel

left Message for
him to call you.

CYPRUS EXPLORATION CORPORATION, LTD.
510 WEST HASTINGS STREET
VANCOUVER 2, BRITISH COLUMBIA
TELEPHONE: 683-9304

April 2, 1971

Mr. R. E. Lawrence,
Al-Si Mining & Milling Co. Ltd., (N.P.L.)
1505 West 3rd Avenue,
VANCOUVER 9, B.C.

Dear Sir:

The sample of alumino-silica mica has been examined by our Sierra Talc Division with favourable results.

I would be grateful if you could arrange for me to visit the property at your convenience so that we can make some estimate of its potential.

I will be away from Vancouver until the end of April, but any time after this would be suitable. If you feel the matter requires more urgent attention, please feel free to call on our Dr. Carew McFall at the above number who will, no doubt, be able to accommodate with an earlier examination.

Yours very truly,

CYPRUS EXPLORATION CORPORATION, LTD.

J. G. Simpson
Regional Manager - Western Canada

*Pacific Western,
B.C. Airlines.*

Island Airlines.

*Campbell River
Fair Harbour.*

via Tasus.

JGS/jel

c.c. Dr. C. Carew McFall

Miss Laryrie.
New Prospectors B.C.

MR. LAWRENCE.

Together with letter
to Sierra Table
Division.

TELEPHONE 604/731-2185

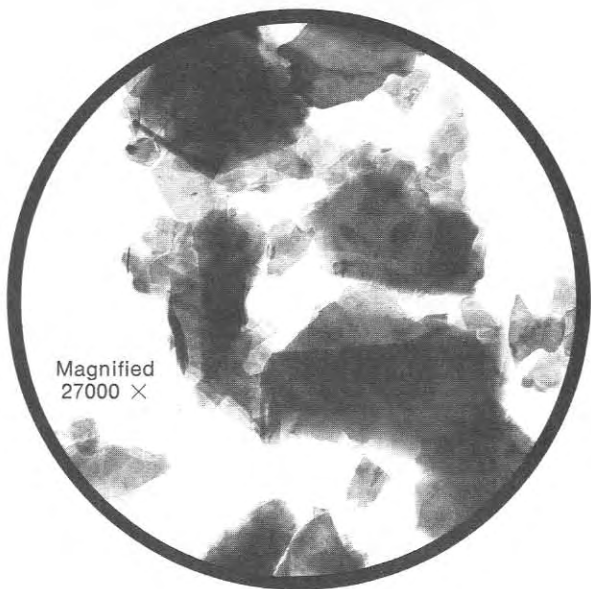
Al-Si MINING AND MILLING CO. LTD. (N.P.L.)
RAY LAWRENCE, PRESIDENT

OFFICE:
1505 WEST 3RD AVENUE
VANCOUVER 9, B.C.
CANADA

MILL AND MINE:
FAIR HARBOUR, B.C.
VANCOUVER ISLAND

Al-Si MINING AND MILLING
IS PLEASED TO INTRODUCE

Al-Si Mica Powder



Magnified
27000 X

*The plate like particles of AlSi Mica
viewed through a super magnifying
electron microscope*

For further information write to

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FOR APPLICATIONS SEE OTHER SIDE

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RAY LAWRENCE, PRESIDENT

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MILL AND MINE:

**FAIR HARBOUR, B.C.
VANCOUVER ISLAND**

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**For further information and
samples write to AlSi
at our Vancouver office**



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM **Mr. R.E. Lawrence,**

ADDRESS **No. 18, R.R. 1, Port Kells, B.C.**

LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
29507	#1	<p>Spectrochemical Analysis: Silicon, aluminum, iron, sodium, and potassium, a fraction of 1 per cent of calcium, and very small fractions of 1 per cent of copper, titanium, gallium, and barium were found.</p> <p>Assays: Silica 44.70% Alumina 36.90% Calcium Oxide 0.12% Magnesium Oxide 0.07% Sulphur Trioxide 0.22% Iron Oxide 1.17% Sodium Oxide 2.99% Potassium Oxide 9.11% Water (-105°C) 0.13% Water (+105°C) 4.60%</p> <p>Identification - The green mineral is muscovite.</p>
29508	#2	<p>Identification - The whitish green mineral is muscovite.</p>
29509	#3	<p>Identification - The blue mineral is dumortierite.</p>

THIS DOCUMENT, OR ANY PART THEREOF, MAY NOT BE REPRODUCED
FOR PROMOTIONAL OR ADVERTISING PURPOSES.

DATE **November 25th 1968**

L. Metcalfe

Limestone

Vancouver Laboratory

Chemical Analysis

May 10, 1962

196

Dr. V. Do'ange
Marina B. Iding
Vancouver, B. C.
Attention: Mr. D. D. Campbell

WE HEREBY CERTIFY that the following results were obtained by us on samples submitted May 8, 1962:

<u>Limestone</u>	<u>K 1</u>	<u>K 2</u>	<u>K 3</u>
Loss on Ignition	43.36%	43.00%	42.46%
Acid Insoluble Material	0.60	1.01	1.20
Iron Oxide (Fe_2O_3)	0.34	0.32	0.25
Alumina (Al_2O_3)	0.36	0.30	0.31
Calcium Oxide (CaO)	54.90	55.01	55.40
Magnesia (MgO)	0.30	0.20	0.30
Undetermined	0.14	0.16	0.16

$CaCO_3$

54.90

55.01

55.40

COAST ELDRIDGE

[Signature]
G. Smith
Chief Chemist

eps

Line 100

Vancouver Laboratory

Chemical Analysis

May 10, 1962

Dr. V. De'Angelo
Marine Bi. Lab.
Vancouver, B.C.
Attention: Mr. B. N. Campbell

Re your request that the following results were obtained by us on samples submitted May 8, 1962.

<u>Constituents</u>	<u>1</u>	<u>2</u>	<u>3</u>
Loss on Ignition	41.302	41.002	42.402
Acid Insoluble Material	0.40	1.01	1.20
Iron Oxide (Fe_2O_3)	0.34	0.32	0.15
Alumina (Al_2O_3)	0.36	0.30	0.31
Calcium Oxide (CaO)	54.96	55.01	55.40
Magnesia (MgO)	0.30	0.30	0.30
Substrains	0.16	0.18	0.10
	58.30	58.01	57.84

COAST ELDRIDGE

[Signature]
Dr. G. Smith
Chief Chemist

CYPRUS EXPLORATION CORPORATION, LTD.
510 WEST HASTINGS STREET
VANCOUVER 2, BRITISH COLUMBIA
TELEPHONE: 683-9304

March 11, 1971

Mr. H. T. Mulryan,
United Sierra Division,
Cyprus Mines Corporation,
380 Scotch Road (Box 1201),
TRENTON, New Jersey
U.S.A. 08606

Dear Sir:

I enclose a small hand specimen and a wet-ground sample of alumino-silicate mica submitted by a prospector.

The deposit is associated with pyrophyllite and good grade limestone within a radius of less than a mile, is situated very close to tidewater on the southwest coast of Vancouver Island, and could be available to Cyprus at relatively low cost.

I would be grateful if you could verify the chemistry and physical properties of the material and advise as to whether you feel there is a market potential. The brochure is somewhat over-optimistic in that there is no mine as such and the size of the deposit is not proven. If you feel there is a market for this material, I will examine the deposit when weather permits and advise you further.

Yours very truly,

CYPRUS EXPLORATION CORPORATION, LTD.

J. G. Simpson
Regional Manager - Western Canada

JGS/jel

Encl. under separate cover

c.c. Mr. C. A. Mark, C.M.C., Los Angeles

JGS
2/3/71