



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
CENTER FOR DISEASE CONTROL

PLAINTIFF'S
EXHIBIT
CAM-381

NATIONAL INSTITUTE FOR OCCUPATIONAL
SAFETY AND HEALTH - NIOSH
944 CHESTNUT RIDGE ROAD
MORGANTOWN, WEST VIRGINIA 26505

December 4, 1978

Mr. Gordon Gill
555 S. Flower Street
Los Angeles, California 90071

Dear Mr. Gill:

The preliminary evaluation of the environmental data collected as part of the industry-wide study of talc miners and millers has been completed.

The analysis of your Beaverhead Mine facility is included. This facility has been designated as plant number 16. This code number is unique to this facility and will appear on all summaries of data.

The respiratory dust samples were collected and analyzed according to NIOSH method SDS #29.02. This is listed in Table I.

The asbestos samples were collected and analyzed according to NIOSH method P & CAM #239. This is reported in Table II.

The crystalline silica samples were collected and analyzed according to NIOSH method P & CAM #109. This is reported in Table III.

The trace metal samples were collected and analyzed according to NIOSH method P & CAM #173. This is reported in Table IV.

The job classification codes for your facility are as follows:

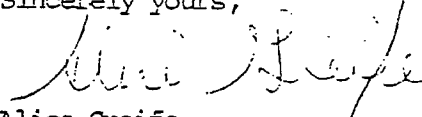
<u>Code #</u>	<u>Job Classifications</u>
10	Maintenance
14	Sorter
15	Driller
16	Truck driver
19	Miner II (laborer)
20	Shovel operator

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The arithmetic means of the respirable dust samples are given in Table V.

We would like to thank you for your cooperation in this project. If you have any questions concerning these results please feel free to contact me at (304) 599-7421.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Alice Greife".

Alice Greife
Industrial Hygienist
Environmental Investigations Branch

Enclosure

Table I

T A T I S T I C A L A N A L Y S I S S Y S T E M

11:13 TUESDAY, 11/13/78

----- PLANT=16 -----

OBS	UK	JOB	WORKER	DUST
265	206	7	7	0.16
266	207	10	4	0.03
267	207	10	5	0.04
268	211	14	15	1.16
269	211	14	14	0.36
270	211	14	13	0.93
271	211	14	10	1.42
272	211	14	9	1.38
273	211	14	12	2.86
274	206	15	6	0.14
275	206	16	3	0.00
276	206	16	1	0.29
277	206	19	8	0.66
278	206	20	11	1.85
279	206	20	2	0.10

Dust concentrations are expressed as mg/m^3

Plant 16

Table II
(asbestos)

detected (fibers/cc)	detection limit (fiber/cc)
<u>.01</u>	.01

Table III

The bulk analysis of your talc revealed .8% free silica. The limit of detection is .8%.

Table IV
(ug/sample)

Arithmetic Mean

Iron	Manganese	Calcium	Aluminum	Zinc	Nickle
7	<u>2</u>	7	23	<u>2</u>	<u>2</u>

Limit of Detection

3	2	5	15	2	2
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Table V

Job	$\bar{X}(\text{mg}/\text{m}^3)$	SD	N
7	.16	--	1
10	.04	.01	2
14	1.35	.83	6
15	.14	--	1
16	.15	.21	2
19	.66	--	1
20	.98	1.24	2

$\bar{X}$ = arithmetic mean SD = standard deviation N = number of workers in
job classification