

CAMBRIDGE

To: J. Ashworth/Phoenix Date: 28 August 1985

From: L. K. Park cc: P. M. Connor
 F. W. Eaton
 T. E. Winkel/Santa Ana
 J. W. Wolter
 W. R. Wright

Subject: Industrial Hygiene Survey

On 1 August 1985 I conducted an Industrial Hygiene Survey at the Phoenix plant. The results are discussed below.

Air Sampling - Fiber

The air sampling results indicate that employee asbestos exposure is below the OSHA Permissible Exposure Limit (PEL) of 2.0 fibers/cc for an 8-hour Time Weighted Average (TWA).

<u>Employee</u>	<u>Job</u>	<u>Ore</u>	<u>8-Hour TWA</u>
Carroll Fitchett	Model A Bagger/Furnace Operator	L-2	0.164
Dean Bailey	Maintenance/Forklift Driver	L-2, L-3	0.017
Kevin Jacobson	D-18 Bagger/Furnace Operator	L-3	0.029

The results of the engineering samples are also included. They are all low except for the product end of the Model 'A' stoner (1.27 fibers/cc), the D-18 baghouse drop (1.00 fibers/cc), and the Model 'A' wasterock hopper (1.00 fibers/cc). For the Model 'A' stoner, I recommend that the product side stoner flaps and exhaust ventilation pickups be checked. For the D-18 baghouse drop, I noticed that the 2 piece wooden lids (encompassing the circular structure of the drop) did not completely cover the entire drop. In addition, the lids did not completely encompass the circular doughnut shaped structure of the drop. However, I was told that new stainless steel lids were ordered to correct this existing problem. For the Model 'A' wasterock hopper, I recommend that the ventilation and flaps be thoroughly checked and that you make sure the hopper is properly aligned beneath the cover.

Air Sampling - Total Dust

The results of the personnel total dust sampling are below the American Conference of Governmental Industrial Hygienists (ACGIH) recommended Threshold Limit Value (TLV) and Grace Internal Limit (GIL) of 10 mg/m³ for an 8-hour TWA.

10001179

<u>Employee</u>	<u>Job</u>	<u>8-Hour TWA</u>
Mike Beaulieu	Monokote Mixer	2.806 mg/m ³
Steve Baldenegro	Monokote Bagger	3.439 mg/m ³

Noise Monitoring

Both employee noise dosimetry and area sound level meter readings were done at Phoenix. The results of the personnel and area noise dosimetry are indicated below and on the attached sheet.

<u>Employee</u>	<u>Job</u>	<u>8-Hour TWA (dBA)</u>	
		<u>80 dB Threshold</u>	<u>90 dB Threshold</u>
Kevin Jacobson	D-18 Bagger/Operator	86.9	66.8
Mike Beaulieu	Monokote Mixer/Bagger	90.2	86.6

The noise monitoring was done using both 80 dBA and 90 dBA threshold levels. An overexposure (85 dBA) with the 80 dBA threshold signals the need for a Hearing Conservation Program to be in effect, while an overexposure (90 dBA) with the 90 dBA threshold requires mandatory hearing protection in compliance with OSHA regulations.

Both monitored employees were above the OSHA "Action Level" of 85 dBA for an 8-hour TWA. Therefore, your existing Hearing Conservation Program must remain in effect for plant employees. This means that hearing protection is to be made available to the employees; however, they are not required to wear the protection. Also, annual hearing tests on all employees are required.

Safety Survey

I have no recommendations at this time.

Lawrence K Park

Lawrence K. Park

LKP/al

Attachments

P009

10001180

Location: Phoenix, Arizona
Date: July 31, 1985
Operator: Lawrence K. Park

Sound Level Meter Measurements

<u>Location</u>	<u>Distance (ft)</u>	<u>dBA</u>
Forklift driver (lifting product)	At operator's ear	86 - 88
Monokote mixing station	At operator's ear	89.0 - 89.5
D-18 bagging station	At operator's ear	84.0 - 86.0
Base of D-18 furnace	3 ft	92.7
Door - Q.C. room	At operator's ear	81.0 - 82.0
Base of Model 'A' furnace	At operator's ear	90.5 - 91.0
Model 'A' bagging station	At operator's ear	84.5

Instrument Used: DuPont MK-2 dosimeter

Calibrated with DuPont Acoustical Calibrator #20125 to 113.9 dB at 114.0 dB level.

P009

10001181

GRACE

NOISE DOSIMETRY RECORD II

Health, Safety & Toxicology

Plant Location PHOENIX, ARIZONA

Date August 1, 1985

Measurements by LARRY K PARK

EMPLOYEE NAME	Kevin Jacobsen	Mike Beaulieu		
SOC. SEC. NO.	536-78-4968	527-27-8758		
JOB DESCRIPTION	D-18 Bagger/Operator	Monotek mixer/bagger		
PROTECTIVE EQUIP.	3M8710, Earplugs	3M8710, Earplugs		
DOSIMETER NO.	013596	013589		
CALIBRATION	PRE POST	PRE POST		
MIN. IN WORKDAY	480	480		
TOTAL BREAK MIN.	0	0		
DOSIMETER	ON OFF	ON OFF		
TOTAL TIME	6:24 (384)	6:38 (398)		
(1) DOSE %	51.8	85.0		
(1) L avg. (dB)	86.9	90.2		
(2) DOSE %	03.2	51.6		
(2) L avg. (dB)	67.0	86.6		
L max. (dB)	123.9	124.9		
TIME OF L max.	5:12	4:41		
PEAK L max. (1/16 sec.)	139.0	127.3		
NOJ. 8-hr DOSE	64.6	102.4		
TIME > 115 dB	0:00	4:41		
(1) 8-hr TWA (dB)	(86.9)	(90.2)		
(2) 8-hr TWA (dB)	(66.8)	(86.6)		

Equipment: DuPont MK-2 dosimeter

Settings: (1) (2)

Threshold Level 80 dBA 90 dBA

Criterion level 90 dBA 90 dBA

Doubling Rate 5 dBA 5 dBA

Additional Comments For Mike; monotek mixing - 5-7 AM, 7-9 AM, 10-12 PM, 12-1 PM

Vice versa for other monotek mixer/bagger

No break or lunch taken.

10001182

C O N F I D E N T I A L

CONSTRUCTION

PRODUCTS

DIVISION

Report: 76194
Group: CPD Manufacturing
Date: 8/6/85
Charge No.: 1174
Requestor: Larry Park
Marketing or Manufacturing Approvals:
Name: T. E. Hamilton
Approved: T. E. Hamilton

REQUEST FOR TECHNICAL SERVICE

PROBLEM TITLE: Environmental Evaluation -- Air -- Fibrous Materials.

SIGNIFICANCE: The evaluation of workplace air on a periodic basis is necessary to comply with the air sampling section of the OSHA Asbestos Standard.

SPECIFIC OBJECTIVE: Determine fiber counts for filter media.

SUGGESTED APPROACH: Phase contrast microscopy.

DEADLINE (last day information will be of value): Two (2) weeks.

DETAILS OF PROBLEM:

Please evaluate personnel samples from Phoenix, Arizona.
Sample numbers PA-1 - PA-12.
Products and ores involved: L-2, L-3.

ACCEPTED BY RESEARCH DEPT.: John M. Kelly DATE: 8/6/85
ASSIGNED TO: B. O'LEARY

ADDITIONAL COPIES: Original to Library; J. W. Wolter, H. C. Duecker, F. W. Eaton,
W. R. Wright, P. M. Connor, J. C. Yang.

10001183

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REQUEST FOR TECHNICAL SERVICE

NUMBER: 76194
GROUP: CPD Manufacturing
ACTUAL COST: \$325.00
REPORTING DATE: 8/14/85

SUMMARY AND RESULTS:

Twelve personnel samples were received from Phoenix, AZ and were evaluated for their fiber content.

The results are as shown on the attached Air Sampling Record Sheet.


D. L. Vickey

DLV/ph

Attachment

10001184

GRACE

AIR SAMPLING RECORD SHEET

HEALTH, SAFETY & TOXICOLOGY DEPT.

Plant Location PHOENIX, ARIZONA
 Division CPD
 Sampling by LARRY PERL Date August 1, 1985
 Contaminant ASBESTOS FIBER

Weather Sunny
 Temperature 90°
 Pressure 29.80"
 Housekeeping Good

Type of Sampling: Personnel ✓ Engineering
 Collection Media 0.8 µm AA membrane
 Pump (type & model) DURANT P-2500

Sample No.	Employee Name & Social Security No.	Personal Protective Equipment	Job Location and Description	Pump No.	CLOCK TIME			Flow Rate $\mu\text{m}^3/\text{min}$	Total Volume Sampled	Personal Lab Evaluation
					On	Off	Total			
PA-1	Carroll Fitchett 526-19-5712	3M 8710, Earplugs	Model "A" Bagger / Furnace operator L-2	50	5:34 AM	6:50 AM	76	2.0	152	0.04
PA-2	Dean Bailey 526-69-0671	Earplugs	Maintenance / Fork lift driver	53	5:34 AM	7:00 AM	74	2.0	148	* 0.004
PA-3	Kevin Jacobson 536-78-4968	Earplugs, 3M 8710	D-18 Bagger / Furnace operator L-3	49	5:50 AM	6:34 AM	64	2.0	128	0.02
PA-4	Carroll Fitchett 526-19-5712	Same as PA-1	Same as PA-1	50	6:51 AM	8:40 AM	109	2.0	218	0.09
PA-5	Dean Bailey 526-69-0671	Same as PA-2	Same as PA-2	53	7:00 AM	8:44 AM	104	2.0	208	0.02
PA-6	Kevin Jacobson 536-78-4968	Same as PA-3	Same as PA-3	49	6:54 AM	8:42 AM	108	2.0	216	0.05
PA-7	Carroll Fitchett 526-19-5712	Same as PA-1	Same as PA-1	50	8:41 AM	10:17 AM	96	2.0	192	0.004
PA-8	Dean Bailey 526-69-0671	Same as PA-2	Same as PA-2	53	8:44 AM	10:07 AM	83	2.0	166	0.01
PA-9	Kevin Jacobson 536-78-4968	Same as PA-3	Same as PA-3	49	8:43 AM	10:20 AM	97	2.0	194	0.01
PA-10	Carroll Fitchett 526-19-5712	Same as PA-1	Same as PA-1	50	10:17 AM	12:12 PM	121	2.0	242	0.31

Additional Comments Breaks: None taken

Laboratory Evaluation by AP & McKay

Date P. 11.1.85

One: Libby 2,444 3

Furnace running: D-18(L-3) Model "A"(L-2)

10001185

GRACE

AIR SAMPLING RECORD SHEET

HEALTH, SAFETY & TOXICOLOGY DEPT.

Plant Location Phoenix, Arizona

Plant Location -
Division CPP

Sampling by Lacey Park

Date August 1, 1995

Contaminant	Asbestos Fibers
-------------	-----------------

Weather Snow

Temperature 96.

Pressure 28.50

Housekeeping ~~Good~~

Type of Sampling: Personnel ✓ EngineeringCollection Media On Yarn 99A machine

Pump (type & model) Defent P-2500

[illegible]

Additional Comments

Laboratory Evaluation by

Date _____

P. A. F. 80

C O N F I D E N T I A L

CONSTRUCTION

Report: 76195

PRODUCTS

Group: CPD Manufacturing

DIVISION

Date: 8/6/85

Charge No.: 1174

Requestor: Larry Park

Marketing or Manufacturing Approvals:

Name: T. E. Hamilton

Approved: T. E. Hamilton

REQUEST FOR TECHNICAL SERVICE

PROBLEM TITLE: Environmental Evaluation -- Air -- Fibrous Materials.

SIGNIFICANCE: The evaluation of workplace air on a periodic basis is necessary to comply with the air sampling section of the OSHA Asbestos Standard.

SPECIFIC OBJECTIVE: Determine fiber counts for filter media.

SUGGESTED APPROACH: Phase contrast microscopy.

DEADLINE (last day information will be of value): Two (2) weeks.

DETAILS OF PROBLEM:

Please evaluate engineering samples from Phoenix, Arizona.
Sample numbers PA-20 through PA-30
Products and ores involved: L-3, L-4, L-2.

ACCEPTED BY RESEARCH DEPT.: John M. Reilly DATE: 8/6/85

ASSIGNED TO: R. O'LEARY

10001187

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REQUEST FOR TECHNICAL SERVICE

NUMBER: 76195
GROUP: CPD Manufacturing
ACTUAL COST: \$300.00
REPORTING DATE: 8/19/85

SUMMARY AND RESULTS:

Eleven engineering samples were received from Phoenix, AZ and were evaluated for their fiber content.

The results are as shown on the attached Air Sampling Record Sheet.

D. L. Vickey / BOL

D. L. Vickey

DLV/ph

Attachment

10001188

GRACE

AIR SAMPLING RECORD SHEET

HEALTH, SAFETY & TOXICOLOGY DEPT.

Plant Location PHOENIX, ARIZONA Weather Sunny and HOT Type of Sampling: Personnel Engineering ☒
 Division EPD Temperature 106° Collection Media 0.8 um MF membrane
 Sampling by LARRY PACE Pressure 28.80 Hg Pump (type & model) DABOT P-2500
 Contaminant ASBESTOS FIBER Housekeeping Good

Sample No.	Employee Name & Social Security No.	Personal Protective Equipment	Job Location and Description	Pump No.	CLOCK TIME			Flow Rate	Total Volume Sampled	Signature
					On	Off	Total			
PA-20	--- AREA ---		Stoner, Model "A" (Product end) L-3	50	7:35 AM	3:25 PM	50	2.0 L/min	100	1.22
PA-21	---		Stoner, Model "A" (Wastewater end) L-3	53	2:27 PM	3:27 PM	50	2.0	100	0.49
PA-22	---		Stoner, D-18 (Product end) L-3	56	7:02 AM	8:02 AM	60	2.0	120	0.19
PA-23	---		Stoner, D-18 (Wastewater end) L-3	56	8:08 AM	9:00 AM	57	2.0	114	0.61
PA-24	---		Baghouse Drop Bag (Model "A") L-3	50	2:42 PM	3:43 PM	60	2.0	120	0.08
PA-25	---		Baghouse Drop Bag (D-18) L-4	53	2:44 PM	3:44 PM	60	2.0	120	1.08
PA-26	---		Wastewater Hopper (Model "A") L-3	55	3:30 PM	4:20 PM	50	2.0	100	1.00
PA-27	---		Wastewater Hopper (D-18) L-4	57	3:32 PM	4:32 PM	50	2.0	100	0.32
PA-28	---		Stoner, Model "A" (Product end) L-2	56	9:02 AM	10:00 AM	95	2.0	190	0.41
PA-29	---		Stoner, Model "A" (Wastewater end) L-2	56	10:38 AM	12:10 PM	92	2.0	184	0.48

Additional Comments Breaks: --- Laboratory Evaluation by SK. H. Kelly Date 8-14-85 10001189
 One: Lobby 3 → Model "A" Lobby 4 - D-18 Furnace
 Furnace running; D-18 Model A.

TOTAL DUST

CONSTRUCTION

Report: 76196

PRODUCTS

Group: CPD Manufacturing

DIVISION

Date: 8/6/85

Charge No.: 1174

Requestor: Larry Park

Marketing or Manufacturing Approvals:

Name: T. E. Hamilton

Approved: T.E. Hamilton

REQUEST FOR TECHNICAL SERVICE

PROBLEM TITLE: Environmental Evaluation -- Air -- Total Dust.

SIGNIFICANCE: The evaluation of workplace air on a periodic basis is necessary to comply with the air sampling section of the OSHA Air Contaminants Standard.

SPECIFIC OBJECTIVE: Determine the Total Dust on the sample and calculate the rate of deposition in mg/M^3 .

SUGGESTED APPROACH: Analytical Balance -- Filters have been pre-weighed.

DEADLINE (last day information will be of value): Two (2) weeks.

DETAILS OF PROBLEM:

Please evaluate personnel samples from Phoenix, Arizona.
Sample numbers ST-14 - ST-21.

Products and ores involved: L-3.

ACCEPTED BY RESEARCH DEPT.: John M. Rilly DATE: 8/8/85

ASSIGNED TO: P. O'LEARY

ADDITIONAL COPIES: Original to Library; J. W. Wolter, H. C. Duecker, F. W. Eaton,
W. R. Wright, P. M. Connor, J. C. Yang.

10001191

C O N F I D E N T I A L

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REQUEST FOR TECHNICAL SERVICE

NUMBER: 76196
GROUP: CPD Manufacturing
ACTUAL COST: \$65.00
REPORTING DATE: 8/14/85

SUMMARY AND RESULTS:

Eight personnel samples were received from Phoenix, AZ and were evaluated for their total dust content.

The results are as shown on the attached Air Sampling Record Sheet.


D. L. Vickey

DLV/ph

Attachment

10001192

GRACE

AIR SAMPLING RECORD SHEET

HEALTH, SAFETY & TOXICOLOGY DEPT.

Plant Location PHOENIX, ARIZONA Weather Sunny Type of Sampling: Personnel ☒ Engineering ☐
 Division CPD Temperature 98° Collection Media Polysorbate 20
 Sampling by LAKE PACE Date August 1, 1985 Pump (type & model) Model P-5500
 Contaminant TOTAL DUST Housekeeping Good

Sample No.	Employee Name & Social Security No.	Personal Protective Equipment	Job Location and Description	Pump No.	CLOCK TIME			Flow Rate	Total Volume Sampled	Lab Evaluation
					On	Off	Total			
ST-14	Mike Beaulieu 527-27-8758	3M 8710, Earplugs	Monokote mixer	55	5 ⁴⁰ AM	5 ⁵⁷ AM	77	2.0 ^{gpm}	154	1.299
ST-15	Steve Baldenegro 527-53-5002	Earplugs	Mondote bagger	57	5 ⁴² AM	6 ⁵⁹ AM	77	2.0	154	3.571
ST-16	Mike Beaulieu 527-27-8758	Same as ST-14	Monokote bagger	55	6 ⁵⁷ AM	8 ⁰⁷ AM	117	2.0	234	0.241
ST-17	Steve Baldenegro 527-53-5002	Same as ST-15	Mondote mixer	57	6 ⁵⁹ AM	8 ⁵⁵	116	2.0	232	4.597
ST-18	Mike Beaulieu 527-27-8758	Same as ST-14	Mondote mixer/bagger	55	8 ⁵⁷	10 ³⁴	100	2.0	200	2.800
ST-19	Steve Baldenegro 527-53-5002	Same as ST-15	Mondote mixer/bagger	57	8 ⁵⁵	10 ³⁴	101	2.0	202	1.188
ST-20	Mike Beaulieu 527-27-8758	Same as ST-14	Mondote bagger	55	10 ³⁴	12 ¹⁵	101	2.0	202	6.931
ST-21	Steve Baldenegro 527-53-5002	Same as ST-15	Mondote mixer	57	10 ³⁴	12 ¹⁶	100	2.0	200	4.500
			TOTAL DUST							

Additional Comments Ch. L-3 Laboratory Evaluation by Ed. Wiley 10001193
Good! None taken. Date 8.14.85

ZONOLITE PLANT - INDUSTRIAL HYGIENE AUDIT

Plant Location: PHOENIX, ARIZONA

Date: July 31, August 1 1985

Audited By: LARRY PARK

AIR SAMPLING LOCATIONS:

ASBESTOS (Personnel):

✓ Vermiculite Baggers } D-18,
✓ Furnace Operators } Model "A"
✓ Truck Loaders
✓ Maintenance (Clean-up)
Other, (List) _____

TOTAL DUST:

☒ Monokote Mixer
☒ Monokote Bagger
 _____ Perlite Bagger
 _____ Soil Line Mixer
 _____ Soil Line Bagger
 _____ Other, (List) _____

ENGINEERING SAMPLES:

ENGINEERING SAMPLES.	
✓	Stoner (Product End) } $\begin{matrix} 8-1-75 \\ \downarrow \\ D-18(L-3) \end{matrix}$
✓	Stoner (Waste End) } $\begin{matrix} \text{Model "A" (L-2, L-3)} \\ \uparrow \quad \uparrow \\ 8-1-75 \quad 7-31-75 \end{matrix}$
✓	Waste Rock Hopper } $\begin{matrix} D-18(L-4) \\ \text{Model "A" (L-3)} \end{matrix}$
✓	Bag House Waste Drop } $\begin{matrix} D-18(L-4) \\ \text{Model "A" (L-3)} \end{matrix}$
✓	Other, (List) <u>Unloading ore car (L-) - taken 15' downwind</u>

NOISE MONITORING: (list job descriptions)

1. Kevin Jacobsen - D-18 Furnace bagging/granulation
 2. Mike Beaulieu - Monokot mixer / bagging
 3. Area sampling - D-18 Furnace area, Model 'A' Furnace area, Forklift, Q.C. room, Monokot area.
 4. _____
 5. _____
- 10001194

(✓) = Satisfactory Condition

HEALTH SURVEILLANCE PROGRAM

Pre-Employment Physicals

Annual Surveillance: Chest X-ray

Lung-Function Test

Audiogram

Health Questionnaire

✓	Status (list)
✓	
✓	
✓	
✓	
✓	
✓	Need to send 20.

PROGRAMS, PROCEDURES AND RECORDKEEPING

Copy of OSHA Regulations (29CFR1910)

General Safety Rules

Formal Inspection Program

Incident Investigation

Safety Meetings

First Aid Training & Equipment

Written Respirator Program

Respirator Training & Fitting Records

Copy of Hearing Conservation Std.

Hearing Conservation Training Records

OSHA 200 Log (6 day up-to-date)

Lockout and Tag Procedures

Baghouse Entry Procedure

Employee Hazard Communication

Forklift Driver Training Program

Asbestos Training - "Picture Perfect"

Other Programs

✓	Status (list)
✓	
✓	
✓	
✓	
✓	
✓	
✓	Needs to be sent
	None until 8/1/85
✓	
✓	
✓	
✓	
✓	
✓	
✓	

10001195

PLANT WALK-THROUGH SURVEY:

(✓) = Satisfactory Condition

ENGINEERING CONTROLS

Waste Rock Hoppers

Stoner Flaps

Baghouse Waste Drop

Bag Waste Compactor

Monokote Mixing Ventilation

General & Miscellaneous Ventilation

✓	Status (list)
✓	Please see comments #2
✓	
✓	Please see comments, #1.
✓	
✓	
✓	

GENERAL CONDITIONS

Employee Work Practices

Proper Respirator Use

Personal Protective Equipment Use

Plant Housekeeping

Forklift Trucks

Truck Wheel Chocks & Dock Plates

Machine Guards and Railings

Ladders

Fire Extinguishers

Battery Charging Stations

Electrical Cords

Labeled Electrical Panels

Storage & Handling of Flammables

Warehouse Storage (Pallets)

Stoner Deck Conditions

Secured Compressed Gas Cylinders

[illegible]

Comments:

① The lids for the D-18, model A baghouse waste dump did not completely cover the dump. However, new lids are ordered to fix this problem.

① There is about a 6-8 inch gap between the hood and the waistcoat hangers.

Signature:

Laurence K Post

10001196

And now...

James A. Smith

APR 9 1984



McGill
University

School of Occupational Health
Ecole de Santé au Travail
Charles Meredith House (514) 392-4568

March 30th 1984

Mr. H.A. Eschenback
Health, Safety and Toxicology Department
W.R. Grace & Co.
62 Whittemore Avenue
Cambridge, Mass. 02140
U.S.A.

Dear Harry,

I have recently spent a few days with Dr Chris Wagner from Cardiff and had the opportunity of talking to him about tremolite. I mentioned the report you sent to me by John Davis from Edinburgh on Russian vermiculite and the reference in it to further studies in Cardiff. Chris Wagner tells me that the only publication or report from his group is the one attached. You will see that this is rather inconclusive. The fact remains, however, that he personally feels that the contribution to disease of tremolite in certain circumstances may be very important and he is currently trying to carry out and promote research in this field.

In our studies in Quebec of the chrysotile mines, we have wondered for some time whether the tremolite component, although very small (about 1%), might not produce more than its share of cancer. I may have told you that at autopsy, both in chrysotile miners and in chrysotile factory workers, tremolite fibres are as frequently found in lung tissue as chrysotile. We, too, are thinking of ways in which we could investigate this problem further.

I don't suppose any of this helps you very much or is very reassuring; tremolite occurs in such a variety of forms that clearly no simple conclusion can be reached about its effects. The results obtained at Libby will be important but cannot be readily extrapolated to other situations.

Let me know if there are any other points you would like me to look into.

Sincerely,

J. Corbett McDonald, MD FRCP
Professor

JCMcD:jb

Postal address: 1130 Pine Avenue West, Montreal, PQ, Canada H3A 1A3

10001674