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QUEBEC ASBESTOS MINING ASSOCIATION

Thetford Mines, July 4th, 1974.

Mr. Lionel Piuze, Chairman,
Environmental Control Committee,
Quebec Asbestos Mining Association,
c/o Lake Asbestos of Quebec Limited,
Black Lake, Que.

Re: Ambient Air Survey

Dear Sir:-

Please find enclosed reports following the ambient air sampling conducted during the month of June in the Cities of Asbestos, Thetford Mines, Black Lake and the Towns of Robertsonville and Tring-Jonction.

You will notice that the average fiber concentrations, for each City and each Town found in 1974, were about the same than the average fiber concentrations found in 1973, except for the Town of Tring-Jonction.

Contrary to the other Cities and Town, the ambient air sampling conducted in the Town of Robertsonville was made on a rainy day. However, the results obtained were about the same as the ambient air sampling conducted in September 1973 when the day was clear and sunny.

Yours very truly,

Maurice Lachance

Maurice Lachance,
Industrial Hygiene Engineer.

QUEBEC ASBESTOS MINING ASSOCIATION

AMBIENT AIR SAMPLING IN THE CITY OF ASBESTOS

JUNE 4th, 1974.

Maurice Lachance,
Industrial Hygiene Engineer,
Thetford Mines, Que.

CITY OF ASBESTOS

NOTE: This report contains only asbestos fibers over five (5) microns in length. We realized in previous survey reports that counting fibers shorter than five (5) microns, with the magnification used with the Phase Contrast method, is very difficult and cannot be counted with accuracy. The count of fibers over five (5) microns in length is the only one counted for this survey.

The sampling time for all Membrane Filters collected was for a duration of 5 to 6 hours, with an average sampling rate of 2 litres per minute. The same sampling stations were used as for the previous ambient air surveys.

Fiber counts were made on a Phase Contrast Microscope with a magnification of 430X.

JUNE 4th, 1974.

Temperature - 76°F Barometric Pressure - 29.45"Hg.

Wind direction - South-East Velocity of Wind - 2 to 5 miles/hr.

Outside - Clear and Sunny

CITY OF ASBESTOS

F I B E R C O U N T S

STATION No	REMARKS	FIBERS/CC FIBER OVER 5 MICRONS
A.A.1	- Sample collected 200' north-east of the new asbestos plant-	0.04
A.A.2	- Sample collected 400' east of Olivier Blvd, 30' from the road on a birch tree-	0.08
A.A.3	- Sample collected at the corner of Laurier and Olivier Streets-South-East corner of Centre Culturel -	0.07
A.A.4	- Sample collected at the Town Hall on corner of du Roi and St-Luc Streets-	0.05
A.A.5	- Sample collected at the corner of St-Luc Street and Route No 32 - 200' N.E. corner of Recreation Centre-	0.07
A.A.6	- Sample collected at Asbestos Power Station on Nicolet road - 20' south of Hydro gate - (Water truck wetting the north dump road nearby) -	0.05
A.A.7	- Sample collected at Asbestos Cemetary on south fence between two gates -	0.01
A.A.8	- Sample collected near the Golf Course - 20' East of the main gate on road No 32 -	0.07
A.A.9	- Sample collected on Route No 32 - 300' West of Bourbeau Street - 30' North of highway on fence -	0.08
A.A.10	- Sample collected on corner of Manville W. and Morrill Streets in Saint Barnabé -	0.07
	AVERAGE:	0.06

REMARKS:

The average fiber concentration, over five (5) microns in length, was found to be 0.06 Fiber/cc. This compares with the average fiber concentration of 0.07 Fiber/cc found on August 27th, 1973.

QUEBEC ASBESTOS MINING ASSOCIATION

AMBIENT AIR SAMPLING IN THE CITY OF THETFORD MINES

June 7th, 1974.

Maurice Lachance,
Industrial Hygiene Engineer,
Thetford Mines, Que.

CITY OF THETFORD MINES

NOTE: Same sampling and counting techniques used as for the City of Asbestos.

Same sampling stations as used in the previous ambient air sampling survey, except for Station No 6 on Johnson street which was moved at the corner of Johnson and Bonneville streets, at Mr. Nelson Lehoux's house, 1040 Johnson street.

Station No 10 was also relocated from Lasalle College Recreation yard to 76 Dumais street nearby.

Sampling Time: 5 to 6 hours at 2 litres per minute.

June 7th

Temperature - 76°F

Barometric Pressure - 29.45" Hg.

Wind direction - South-East

Wind velocity - 2 to 5 miles/hr.

Outside - Clear - Sunny

CITY OF THETFORD MINES

F I B E R C O U N T S

STATION No	REMARKS	FIBERS/CC FIBERS OVER 5 MICRONS
1	Sample collected at the playground, north-east of intersection of Lafontaine and St-Patrick streets-South-East corner of tennis court fence-	0.15
2	Sample collected at the East Side of Ouellet street, halfway between Lapierre and Lafontaine streets-Sample placed on a birch tree 30 feet from the road-	0.07
3	Sample collected at the operation office of Asbestos Corporation-Front porch of P.R. & D. Department-South of Beaver Mine-	0.11
4	Sample collected in the housing relocation area-North of Boulevard Smith-At Setlakwe store in new St-Maurice -	0.11
5	Sample collected at the front entrance of Hôpital Général de Thetford Mines on Notre-Dame North street-Sample placed on a light pole-	0.18
6	Sample collected on the corner of Johnson and Bonneville streets at Mr. Nelson Lehoux's house at 1040 Johnson street-Sample placed on the carport post-	0.07
7	Sample collected at the corner of Notre-Dame South and Dostie streets-Front of veranda-	0.12
8	Sample collected in Ste-Marthe Parish-At Denis Bion's house-In backyard on radio tower-	0.04
9	Sample collected at the corner of Ouellet West and Sauvageau streets-On a bench behind the house-Fibre Glass plant behind the house now closed-	0.14
10	Sample collected at 76 Dumais street, between Notre-Dame South and La Fabrique streets-	0.17
	AVERAGE:	0.12

REMARKS:

The average fiber concentration, over five (5) microns in length, was found to be 0.12 Fibers/cc. This compares with the average fiber concentration of 0.14 Fibers/cc found on August 30th and 31st, 1973.

QUEBEC ASBESTOS MINING ASSOCIATION

AMBIENT AIR SAMPLING IN THE CITY OF BLACK LAKE

JUNE 18th, 1974.

Maurice Lachance,
Industrial Hygiene Engineer.
Thetford Mines, Que.

CITY OF BLACK LAKE

NOTE: Same sampling and counting techniques used as for the Cities of Asbestos and Thetford Mines. The use of Membrane Filters for sampling and the counts made on a Phase Contrast Microscope with a magnification of 430X.

Sampling Time: 5 to 6 hours at 2 litres per minute.

JUNE 18th

Temperature - 64° to 70° F

Barometric Pressure - 28.75" Hg.

Wind Direction - West - North-West

Wind Velocity - 5 to 8 miles/hr.

Relative Humidity - 72% to 89%

Outside - Cloudy with Sunny Periods.

CITY OF BLACK LAKE

F I B E R C O U N T S

STATION No	REMARKS	FIBERS/CC FIBERS OVER 5 MICRONS
1	Sample collected at the City Hall on Notre-Dame street - Back of building -	0.12
2	Sample collected in front of Centre Culturel - Sample placed on the old Kiosque -	0.07
3	Sample collected in the backyard of house situated at 303 St-Charles street -	0.06
4	Sample collected in the back of Maurice Lauzon's house on Lamennais street - A few hundred feet from Route No 1 -	0.06
	AVERAGE:	0.08

REMARKS:

The average fiber concentration, over five (5) microns in length, was found to be 0.08 Fiber/cc. This compares with the average fiber concentration of 0.06 Fiber/cc found on September 5th, 1973.

QUEBEC ASBESTOS MINING ASSOCIATION

AMBIENT AIR SAMPLING IN THE TOWN OF ROBERTSONVILLE

JUNE 21st, 1974.

Maurice Lachance,
Industrial Hygiene Engineer,
Thetford Mines, Que.

TOWN OF ROBERTSONVILLE

NOTE: Same sampling and counting techniques used as for the Cities of Asbestos, Thetford Mines and Black Lake.

Same sampling stations as used in the previous ambient air sampling survey.

Membrane Filters used as sampling media and counts made on a Phase Contrast Microscope with a magnification of 430X.

Sampling Time: 5 to 6 hours at 2 litres per minute.

JUNE 21st, 1974.

Temperature - 59°F

Barometric Pressure - 28.50" Hg.

Wind Direction - West

Wind Velocity - 0 to 10 miles/hr.

Relative Humidity - 80%

Outside - Cloudy followed by showers and heavy rain.

TOWN OF ROBERTSONVILLE

F I B E R C O U N T S

STATION No	REMARKS	FIBERS/CC FIBERS OVER 5 MICRONS
1	Sample collected in a school yard at the corner of College Avenue and Ste-Marguerite street -	0.08
2	Sample collected at the corner of Route No 1 and Route No 269 to Pontbriand - Back of Drouin Electric Shop -	0.03
	AVERAGE:	0.06

REMARKS:

The average fiber concentration, over five (5) microns in length, was found to be 0.06 Fibers/cc. This compares with the average fiber concentration of 0.08 Fibers/cc found on September 11th, 1973.

QUEBEC ASBESTOS MINING ASSOCIATION

AMBIENT AIR SAMPLING IN THE TOWN OF TRING-JONCTION

JUNE 28th, 1974.

Maurice Lachance,
Industrial Hygiene Engineer,
Thetford Mines, Que.

TOWN OF TRING-JONCTION JUNE 28th, 1974.

NOTE: Same sampling and counting techniques as used in the Cities of Asbestos and Thetford Mines. The use of Membrane Filters for sampling and the counts made on a Phase Contrast Microscope with a magnification of 430X.

Sampling time: 5 to 6 hours at 2 liters per minute.

June 28th

Temperature - 71°F

Barometric Pressure - 29.16" Hg.

Wind Direction - West - South-West

Wind Velocity - 0 to 8 miles/hr.

Relative Humidity - 49%

Outside - Clear, Sunny.

TOWN OF TRING-JONCTION

F I B E R C O U N T S

STATION No	REMARKS	FIBERS/CC FIBERS OVER 5 MICRONS
1	Sample collected on old rue Principale-Gravel Road - East of the mine - On a post ten feet from the road -	0.13
2	Sample collected at the corner of rue Roy and rue du Réservoir - on a school yard fence -	0.05
3	Sample collected on Range No 2 - One thousand feet from Route No 1 - Over a mile from the mine - On a fence, 10 feet from the gravel road-	0.12
	AVERAGE:	0.10

REMARKS:

The average fiber concentration, over five (5) microns in length, was found to be 0.10 Fibers/cc. This compares with the average fiber concentration of 0.06 Fibers/cc found on September 10th, 1973.