



Dow U.S.A.

The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70765-0150

February 19, 1992

Daniel Cortez
Petrin Building 4106

cc: Rodney Bordelon Methanes Building 4601

Asbestos Monitoring

Enclosed are sample results for potential exposure to asbestos.

The OSHA 8-hour permissible exposure limit for asbestos is 0.2 f/cc >5 microns and the 30-minute short term exposure limit is 1 f/cc >5 microns.

The results displayed are based on sampling duration.

The data sheet shows the results of exposure using two methods, the Limit of Detection (LOD) and the Limit of Quantitation (LOQ). Included on the data sheet is an explanation of the method Limit of Quantitation.

Thank you,

Darlene S. Creel
Industrial Hygiene
Ext. 6181
Building 3502-E

Attachment

dsc

PRODUCED FOR THE ASBESTOS DATABASE

DATE: 3-2-92

MASTER No. 433871 dsc

DO A 114769
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EXPOSURE GUIDELINES

8-HR. TWA LIMIT - 0.20 FIB/CC

30-MINUTE LIMIT = 1.0 FIB/CC

LIMIT OF DETECTION = 7 FIB/MM2

LIMIT OF QUANTITATION = 100 FIB/MM2

**LOD

***LOQ

ASBESTOS MONITORING DATA RESULTS: METHANES 1992

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
2/1/92	13795	*439-31-5889	Insulator: Wet method used while removing asbestos from 1" and 2" "Out of Service" steam lines	30	75	0.05	<0.51
2/1/92	13896	*433-19-6528	Insulator: Wet method used while removing 25# of floor tile and adhesive	30	74	<0.01	<0.52
2/1/92	13897	*433-23-2653	Insulator: Wet method used while removing asbestos from 1" and 2" "Out of Service" steam pipes	30	77	0.2	<0.50

* The proper protective clothing was worn during the job. North 7700 Respirator with HEPA filters were worn during the job.

Note: The Limit of Quantitation has been defined as 100 Fibers/MM2 using the minimum fiber loading criteria specified. In the NIOSH analytical method 7400, the stated range of the method is 100 to 1300 Fibers/MM2 filter area. Although samples below this range can be analyzed, the method has not been validated below 100 Fibers/MM2. However, the NIOSH method 7400 also establishes the estimated Limit of Detection as 7 Fibers/MM2 (Reference OSHA Std. 1910.1001, Appendix B). Based on this information, we will establish 100 Fibers/MM2 filter area as our Limit of Quantitation and 7 Fibers/MM2 filter area as our Limit of Detection (which is more representative of the actual fibers present) for asbestos monitoring. We will report both Limit of Quantitation and Limit of Detection.

If only Limit of Quantitation were expressed, the minimum reportable result would calculate to be 0.04 Fibers per cc for an 8-hr. Time weighted average sample at a flow rate of 2 liters per minute and 0.6 fibers per cc for a 30 minute time weighted average short term sample at a flow rate of 2 liters per minute.

DO A 114770
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LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE No 13795

PLANT/DEPT. Methanex
MONITORING FOR: Asbestos FibersDATE 2-1-92
OTHER CHEMICALS PRESENT: _____

SAMPLE COLLECTION MEDIA:

- ☐ BADGE NO. _____ TYPE _____
TEMP/HUMIDITY: (REQUIRED FOR BADGES) _____
☐ CHARCOAL TUBE SIZE _____
☒ FILTER CASSETTE SIZE 2.5" 7m m
☐ SILICA TUBE SIZE _____
☐ DRAGER TUBE TYPE _____
☐ OTHER _____

SHIFT: ☒ 8 HR. ☐ 12 HR. ☒ PERSONNEL SAMPLE ☐ AREA SAMPLE
☒ FULL SHIFT TWA
☐ STEL/TASKEMPLOYEE NAME Wes Howard
EMPLOYEE I.D.# 439-31-5889
JOB CLASSIFICATION Insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Petrin CorpRESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE North 7700 w/nylon filter
☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING

wet Method used while removing Asbestos from 1" & 2" out of Service Steam pipes

ANALYTICAL REPORT REFERENCE # _____

ANALYTICAL RESULTS: 3.924
West Haverdale
* RESTRICTED FOR USE WITHIN DOW ONLY *LOD 0.05
VP-124LOQ 20.51
FORM FILLED IN BY: Daniel GaltPUMP SERIAL NO. 8817
CALIBRATION DEVICE: ☒ BUBBLEMETER ☐ ROTAMETER
☐ OTHER _____

PUMP FLOW RATE CALIBRATION:

BEGIN: 1. 2528 2528
2. 2530
3. 2533BEGINNING FLOW RATE AVG. 2530 ☒ CC/MIN ☐ L/MIN
ENDING: 1. 2479 2481
2. 2477
3. 2479ENDING FLOW RATE AVG. 2479 ☒ CC/MIN ☐ L/MINSAMPLE AVERAGE FLOW RATE 2504.5TIME STARTED 7:30
TIME STOPPED 8:00
TOT. RUNNING TIME(MIN) 30SAMPLE VOLUME (AVG FLOW X RUN TIME) 75



LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE NO 13896

PLANT/DEPT. Methuen
MONITORING FOR: Asbestos FibersDATE 2-1-92
OTHER CHEMICALS PRESENT: _____

SAMPLE COLLECTION MEDIA:

- ☐ BADGE NO. _____ TYPE _____
TEMP/HUMIDITY: (REQUIRED FOR BADGES) _____
☐ CHARCOAL TUBE SIZE _____
☒ FILTER CASSETTE SIZE 25 mm
☐ SILICA TUBE SIZE _____
☐ DRAGER TUBE TYPE _____
☐ OTHER _____

PUMP SERIAL NO. 5122
CALIBRATION DEVICE: ☒ BOBBLEMETER ☐ ROTAMETER
☐ OTHER _____

PUMP FLOW RATE CALIBRATION:

BEGIN: 1. 2419 2434
2. 2423
3. 2428BEGINNING FLOW RATE AVG. 2426 ☒ CC/MIN ☐ L/MINENDING: 1. 2491 2477
2. 2493
3. 2477ENDING FLOW RATE AVG. 2492 ☒ CC/MIN ☐ L/MINSAMPLE AVERAGE FLOW RATE 2454SHIFT: ☒ 8 HR. ☐ 12 HR. ☒ PERSONNEL SAMPLE ☐ AREA SAMPLE
☐ FULL SHIFT TWA
☐ STEL/TASKEMPLOYEE NAME Trevor Simon
EMPLOYEE I.D.# 433-19-6528
JOB CLASSIFICATION Insulation
IH JOB CODE # _____
CONTRACTOR COMPANY Petrin Corp.TIME STARTED 7:18
TIME STOPPED 7:48
TOT. RUNNING TIME(MIN) 30RESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE North 7700 w/ High Filter

- ☐ MOUTH-BIT ☐ DUST ☐ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

SAMPLE VOLUME (AVG FLOW X RUN TIME) 74DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Wet Method used whileremoving 25 # of Floor Tile & Adhesive

ANALYTICAL REPORT REFERENCE

ANALYTICAL RESULTS: 490 LOD LO.01 LO.52
West Paine Lab LOD LO.01 LO.52

* RESTRICTED FOR USE WITHIN DOW ONLY *

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FORM FILLED IN BY:

Daniel [Signature]DO A 114772
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LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE NO 13897

PLANT/DEPT. MethaneMONITORING FOR: Asbestos FibersDATE 2-1-92

OTHER CHEMICALS PRESENT: _____

SAMPLE COLLECTION MEDIA:

☐ BADGE NO. _____ TYPE _____

TEMP/HUMIDITY: (REQUIRED FOR BADGES) _____

☐ CHARCOAL TUBE SIZE _____☒ FILTER CASSETTE SIZE 25 mm☐ SILICA TUBE SIZE _____☐ DRAGER TUBE TYPE _____☐ OTHER _____SHIFT: ☒ 8 HR. ☐ 12 HR. ☒ PERSONNEL SAMPLE ☐ AREA SAMPLE☐ FULL SHIFT TWA☐ STEL/TASKEMPLOYEE NAME Wendell AcostaEMPLOYEE I.D.# 433-23-2653JOB CLASSIFICATION Insulator

IH JOB CODE # _____

CONTRACTOR COMPANY Petroleum Corp.RESPIRATOR USED? ☒ YES ☐ NORESPIRATOR MODEL / CANISTER TYPE North 7700 w/ Hg/Alk.☐ MOUTH-BIT ☐ DUST ☐ HALF-FACE☐ FULL-FACE ☐ AIR-LINE ☐ SCBADESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Wet method used whileremoving Asbestos from 1" x 2" out of Service Steam pipes

ANALYTICAL REPORT REFERENCE # _____

ANALYTICAL RESULTS: 15,204West Paine Lab40.20LODLO.50LOQ

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FORM FILLED IN BY: D. J. P. [Signature]DO A 114773
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