



Dow U.S.A.

The Dow Chemical Company
P.O. Box 180
Bacchusville, Louisiana 70765-0180

June 22, 1992

Daniel Cortez Petrin Building 4106
Eddie Guillory Petrin

cc: Rock Gustin LHC II Building 4801

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: 6/22/92
MASTER No. dsc 433871

DO A 114836
CONFIDENTIAL



LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE N^o 13469PLANT/DEPT. LHC II
MONITORING FOR: IT'SRSTUS FibersDATE 5-26-92
OTHER CHEMICALS PRESENT: _____

SAMPLE COLLECTION MEDIA

- ☒ BADGE NO. _____ TYPE _____
TEMP/HUMIDITY: (REQUIRED FOR BADGES) _____
☐ CHARCOAL TUBE SIZE _____
☒ FILTER CASSETTE SIZE 3.5 in
☐ SILICA TUBE SIZE _____
☐ DRAGER TUBE TYPE _____
☐ OTHER _____

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

PUMP FLOW RATE CALIBRATION:

BEGIN: 1. 2498 2496
2. 2504
3. 2512BEGINNING FLOW RATE AVG. 2503 ☒ CC/MIN ☐ L/MINENDING: 1. 2467 2462
2. 2475
3. 2464ENDING FLOW RATE AVG. 2467 ☒ CC/MIN ☐ L/MINSAMPLE AVERAGE FLOW RATE 2485TIME STARTED 12:15 PM
TIME STOPPED 12:45 PM
TOT. RUNNING TIME(MIN) 30 min. 75SAMPLE VOLUME (AVG FLOW X RUN TIME) 745.5SHIFT: ☒ 8 HR. ☐ 12 HR. ☒ PERSONNEL SAMPLE ☐ AREA SAMPLE
☐ FULL SHIFT TWA
☐ STEL/TASKEMPLOYEE NAME Brian Coates
EMPLOYEE I.D.# 435-06-2532
JOB CLASSIFICATION Insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Petroleum CorpRESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE Flath 7200 w/ Hpa
☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBADESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Dropping oil for Pumps on
10" line exposed to air in insulation on lines.ANALYTICAL REPORT REFERENCE # _____
ANALYTICAL RESULTS: 490
West Pine Lab.
* RESTRICTED FOR USE WITHIN DOW ONLY *

VP-124

0.01
LOD<0.51
LOQ
FORM FILLED IN BY: Daniel J. Coates

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: LHC II 1992

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
5/26/92	13469	*435-06-2532	Insulator: Prepping job for removal on 10" line, exposed asbestos insulation on lines	30	75	0.01	<0.51

* 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.

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