



Dow U.S.A.

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

April 27, 1992

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cc: Marty Morrison Utilities Building 1801

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: 4-27-92

MASTER No. 433871

DO A 114670
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EXPOSURE GUIDELINES

8-HR. TWA LIMIT - 0.20 FIB/CC

30-MINUTE LIMIT = 1.0 FIB/CC

**LOD

LIMIT OF DETECTION = 7 FIB/MM2

***LOQ

LIMIT OF QUANTITATION = 100 FIB/MM2

ASBESTOS MONITORING DATA RESULTS: UTILITIES 1992

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
4/23/92	13524	*439-11-1161	Insulator: Removing damaged 90 deg. from 435# steam line. WET METHOD USED	30	76	<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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LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE NO 13524

PLANT/DEPT. Utilities
MONITORING FOR: Asbestos FibersDATE 4-22-92

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 David Prestley
EMPLOYEE I.D.# 439-11-1161
JOB CLASSIFICATION insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Petricor CorpRESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE North 7700 w/4gpa
☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBADESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Remaining damaged 90° from 435#
atom line.ANALYTICAL REPORT REFERENCE # 20-3361ANALYTICAL RESULTS: 490 <0.01 <0.51

* RESTRICTED FOR USE WITHIN DOW ONLY *

VP-124

FORM FILLED IN BY: Edie GuilloryDO A 114672
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