



**Dow U.S.A.**

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

September 9, 1992

Daniel Cortez      Petrin      Building 4106  
Eddie Guillory      Petrin

**PRODUCED FOR THE ASBESTOS DATABASE**

**DATE:** 9-10-92

**MASTER No.** 433871 dsc

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

DO A 114848  
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**DOW** LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE NO 15442

PLANT/DEPT LHC II  
MONITORING FOR: Asbestos Fibers

DATE 8-13-92  
OTHER CHEMICALS PRESENT: \_\_\_\_\_

TEMP. \_\_\_\_\_ DEGREE F HUMIDITY \_\_\_\_\_  
SAMPLE COLLECTION MEDIA  
☐ BADGE NO. \_\_\_\_\_ TYPE \_\_\_\_\_  
☐ CHARCOAL TUBE SIZE \_\_\_\_\_  
☒ FILTER CASSETTE SIZE 25 mm  
☐ SILICA TUBE SIZE \_\_\_\_\_  
☐ DRAGER TUBE TYPE \_\_\_\_\_  
☐ OTHER \_\_\_\_\_

PUMP SERIAL NO 5122  
CALIBRATION DEVICE: ☒ BUBBLEMETER ☐ ROTAMETER  
☐ OTHER \_\_\_\_\_

PUMP FLOW RATE CALIBRATION: 2510  
BEGIN 1. 2514  
2. 2510  
3. 2508

BEGINNING FLOW RATE AVG. 2511 ☒ CC/MIN ☐ L/MIN  
ENDING 1. 2450 2450  
2. 2450  
3. 2446

ENDING FLOW RATE AVG. 2449 ☒ CC/MIN ☐ L/MIN

SAMPLE AVERAGE FLOW RATE 2480

TIME STARTED 10:00 am  
TIME STOPPED 10:30 am  
TOT. RUNNING TIME(MIN) 30 min.

SAMPLE VOLUME (AVG FLOW X RUN TIME) 74

SHIFT: ☒ 8 HR. ☐ 12 HR.  
☒ PERSONNEL SAMPLE ☐ AREA SAMPLE  
☐ FULL SHIFT TWA ☐ WIND  
☐ STEL/TASK ☐ DIRECTION

EMPLOYEE NAME Tracy Simon  
EMPLOYEE I.D.# 433-19-0528  
JOB CLASSIFICATION insulator  
IH JOB CODE # \_\_\_\_\_  
CONTRACTOR COMPANY Petrol Corp

RESPIRATOR USED? ☒ YES ☐ NO  
RESPIRATOR MODEL / CANISTER TYPE North 7700 w/lypa  
☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE  
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Removing insulation from 3" line - West Method.

ANALYTICAL REPORT REFERENCE # 20-4576  
ANALYTICAL RESULTS 490 0.01 LO.52  
LO.5

\* RESTRICTED FOR USE WITHIN DOW ONLY \*

VP-124

FORM FILLED IN BY: Eddie Guilkey

**DOW** LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE NO 15437

PLANT/DEPT LHC II  
MONITORING FOR: Asbestos Fibers

DATE 8-14-92  
OTHER CHEMICALS PRESENT: \_\_\_\_\_

TEMP. \_\_\_\_\_ DEGREE F HUMIDITY \_\_\_\_\_  
SAMPLE COLLECTION MEDIA  
☐ BADGE NO. \_\_\_\_\_ TYPE \_\_\_\_\_  
☐ CHARCOAL TUBE SIZE \_\_\_\_\_  
☒ FILTER CASSETTE SIZE 25 mm  
☐ SILICA TUBE SIZE \_\_\_\_\_  
☐ DRAGER TUBE TYPE \_\_\_\_\_  
☐ OTHER \_\_\_\_\_

PUMP SERIAL NO 5122  
CALIBRATION DEVICE: ☒ BUBBLEMETER ☐ ROTAMETER  
☐ OTHER \_\_\_\_\_

PUMP FLOW RATE CALIBRATION: 2514  
BEGIN 1. 2526  
2. 2511  
3. 2512

BEGINNING FLOW RATE AVG. 2519 ☒ CC/MIN ☐ L/MIN  
ENDING 1. 2433 2433  
2. 2423  
3. 2427

ENDING FLOW RATE AVG. 2434 ☒ CC/MIN ☐ L/MIN

SAMPLE AVERAGE FLOW RATE 2409

TIME STARTED 9:30 am  
TIME STOPPED 10:00 am  
TOT. RUNNING TIME(MIN) 30 min.

SAMPLE VOLUME (AVG FLOW X RUN TIME) 75

SHIFT: ☒ 8 HR. ☐ 12 HR.  
☒ PERSONNEL SAMPLE ☐ AREA SAMPLE  
☐ FULL SHIFT TWA ☐ WIND  
☐ STEL/TASK ☐ DIRECTION

EMPLOYEE NAME Edwin Adams  
EMPLOYEE I.D.# 437-60-11124  
JOB CLASSIFICATION insulator  
IH JOB CODE # \_\_\_\_\_  
CONTRACTOR COMPANY Petrol Corp

RESPIRATOR USED? ☒ YES ☐ NO  
RESPIRATOR MODEL / CANISTER TYPE North 7700 w/lypa  
☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE  
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Removing insulation from 3" line - West Method.

ANALYTICAL REPORT REFERENCE # 20-4576  
ANALYTICAL RESULTS 490 LO.01 LO.51  
LO.5

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VP-124

FORM FILLED IN BY: Eddie Guilkey

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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: LHC II 1992**

| DATE    | SAMPLE # | PERSONNEL    | DESCRIPTION                                                   | DUR(MIN) | VOL(L) | ** LOD<br>FIB/CC | ***LOQ<br>FIB/CC |
|---------|----------|--------------|---------------------------------------------------------------|----------|--------|------------------|------------------|
| 8/13/92 | 15442    | *433-19-6528 | Insulator: Removing insulation from 3" line - WET METHOD USED | 30       | 74     | 0.01             | <0.52            |
| 8/14/92 | 15437    | *437-60-8864 | Insulator: Removing insulation from 3" line - WET METHOD USED | 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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