

AIR SAMPLE ANALYSIS

Sample # 22-78

Concentration 1.007 f/cc

Slide Number 22/78 Mounted on 5/30 Analyzed on 6/5

Fibers 1561 Fields 110 Average Fibers/Field .53

Blank Filter:

Number _____ Fibers per _____ Fields _____ Average Fibers/Field _____

Concentration = $\frac{(\text{Average Count of Sample} - \text{Blank Filter Count}) \times (\text{Filter Area})}{(\text{Field Area}) \times (\text{Average Flow Rate}) \times (\text{Sample Time}) \times (1000)}$

Fibers/Cubic Centimeter of Air = $\frac{(.53 -) (855)}{(.003) (2.0) (75) (1000)} = \frac{(453.15)}{(450)} = 1.007 \checkmark$

Microscopist [Signature]

Computations By [Signature]

PLAINTIFF'S EXHIBIT

CT-559

CTD017924

AIR SAMPLE ANALYSISSample # 22-78

Concentration _____ f/cc

Slide Number 22-78 Mounted on 5-30-78 Analyzed on 6-6-78Fibers 92/2 Fields 100 Average Fibers/Field 0.46

Blank Filter:

Number _____ Fibers per _____ Fields Average Fibers/Field _____

$$\text{Concentration} = \frac{(\text{Average Count of Sample} - \text{Blank Filter Count}) \times (\text{Filter Area})}{(\text{Field Area}) \times (\text{Average Flow Rate}) \times (\text{Sample Time}) \times (1000)}$$
$$\text{Fibers/Cubic Centimeter of Air} = \frac{(.46 -) (855)}{(.003) (2.0) (85) (1000)} = \frac{(393.3)}{(510)} = .7711$$

$$\frac{393.3}{450.0} = .874$$

Microscopist mo.Computations By JPW

CTD017925

Sample # 22-78

Concentration

Employee Vernon Dineen Clock # 19 Job Classif. Tractor operator
Dept. 902 Location/Operation Rathe Mine #1

Pump Used: ☒ Bendix C115 Serial #1003 ☐ Bendix BDX44 Serial #8-77-2322

☐ _____
Calibrated 4-26-78 Checked Calibration ☐ Beginning _____
☐ Ending _____

Sampling Medium: ☒ Filter ☒ Pad ☐ Screen ☐ _____
Manufacturer: ☒ Millipore ☐ _____ Batch # AP/0037X

Weather Conditions: ☐ Hot ☐ Warm ☒ Cool ☐ Steamy ☐ Humid ☐ Rainy ☐ Dry
☐ Windy ☐ Calm ☐

Production Rate: ☐ Above Normal ☒ Normal ☐ Below Normal ☐ Machine Down

Comments: 8" / 50

Ventilation: ☐ Dust Hoods ☐ Dust Collector ☒ Windows Open ☐ Fans Operating

Air Velocity

Personal Protection: ☐ Disposable Respirator ☐ Permanent Respirator ☐ Power Pack
☐ White Suit ☐ Face Shield ☐ Hearing Protection ☒ Head Protection
☒ Foot Protection ☐ None ☐ _____

Product in Process: (Furnish) 8" / 50

Comments: ☐ Beard ☐ Smoking ☐ Long Hair _____

Time Log: Time Started Pump 7:20 Flow Meter Reading 57031

Time Started Pump 7.20 Flow Meter Reading 57031

Time Stopped Pump 8:55 Flow Meter Reading 61141

AREA	TIME READING		MINUTES		
	IN	OUT	IN	OUT	TOTAL
10 min Break					
TOTAL SAMPLING TIME					

SAMPLER: 14 Average Air Flow 2.0 Exposure Time 1

CTD017926