

Air Sampling Data Explanation



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Client: St. Michael & All Angels Episcopal Church & School	Job #: 5411.02
Project: Pre-Phase I (Gym/Locker Rooms/ Mezzanine)	Lab Job #:
Address: 8011 Douglas Avenue Dallas, TX 75225	Rotometer #: Saul 1 Calibration Date: 03-Jul-2023
PPE: Disposable Suit; Safety Glasses; Gloves; Safety Footwear	Microscope ID: CX43RF

Sample Number	Sample Location	Activity	On Flow Rate LPM	Off Flow Rate LPM	Start Time	Stop Time	Total Time Min.	Volume	Fibers/Field	Fibers/CC
D23281	FB	----	----	----	----	----	----	----	0.0/100	<0.005
D23282	FFB	----	----	----	----	----	----	----	0.0/100	<0.005
D23283	IC- Gym	Removal of sheetrock with J/C	5.22	5.22	10:39	16:48	369	1,926	23.5/100	0.006
D23284	CR- Gym	" "	9.66	9.66	10:42	16:52	370	3,574	12.5/100	<0.005
D23285	OC- Gym	" "	9.66	9.66	10:31	16:56	385	3,719	13.5/100	<0.005
D23286	HE-Gym	" "	2.06	2.06	10:53	17:49	416	857	4.0/100	0.006
D23287	OWA-1 School Hallway West	Air Quality Monitor	2.06	2.06	8:39	15:30	411	847	2.5/100	0.006
D23288	OWA-2 School Hallway Center	" "	2.06	2.06	8:44	15:32	408	840	2.0/100	0.006
D23289	OWA-3 School Hallway East	" "	2.06	2.06	8:52	15:38	406	836	3.0/100	0.006
D23290	Construction barrier at stairs to the Gym	Removal of sheetrock with J/C	2.06	2.06	11:11	17:48	397	818	3.0/100	0.006

GENERAL INFORMATION	SAMPLE ACTIVITY	SAMPLE LOCATION	CHAIN OF CUSTODY
FIELD AREA = 0.00785 sq. mm	BL = Baseline (1,250 L)	IC = Inside Containment	Collected By: C. Saul Nazario
LPM=Liter Per Minute	AB = Abatement (include material)	OC = Outside Containment	Submitted By: <i>[Signature]</i>
FILTER AREA = 385 sq. mm	CL = Cleaning	CR = Decon. Clean Room	Received By: <i>[Signature]</i>
OLM = Overloaded Mixed	BK = Blank	FWA= Inside Work Area OWA= Outside Work Area	Analyzed By: C. Saul Nazario
	BO = Bag Out	OLM = Overloaded Mixed	Date: 05-Oct-2023

NIOSH 7400 Method - "A" Counting Rules Fibers/CC=Fibers Cubic Centimeter based on the following equation for a 25 mm filter cassette:
 LOQ=Limit of Quantitation based on 10 fibers/100 fields
$$\frac{(\text{fibers/field}) \times (385 \text{ mm}^2 / 1 \text{ filter}) \times (1 \text{ field} / 0.00785 \text{ mm}^2)}{\text{flowrate in liters} \times \text{sample time in minutes} \times (1000 \text{ cc} / 1 \text{ liter})}$$

Sample Location = Area where the sample is taken.

Activity = What activity the sample is used for.

On Flow Rate LPM = The liters per minute (LPM) at the start of the testing.

Off Flow Rate LPM = The LPM at the conclusion of the testing.

Start time = The moment the pump is turned on to begin sampling.

Stop Time = The moment the pump is turned off.

Total Time Minute = This is self-explanatory, it is how many minutes from the start to stop time.

Volume = This is the total minutes multiplied by the average rate between the On & Off Flow Rates.

Fibers/Field = NIOSH 7400 "A" Counting Rules are used to count all fibers (asbestos & non-asbestos) with a 3-to-1 length-to-width ratio and 5 microns or longer.

Fibers/CC = This is the fibers concentration in the sampled area. As per EPA regulations for clean air, this number has to be .010 f/cc or below. **NOTE:** This number can be higher than .010 f/cc inside the containment area (IC) when work is being performed.

Daily Air samples are analyzed using a Phase Contract Microscope (PCM).

Per EPA AHERA regulations, upon completion of asbestos abatement in each containment area encompassing 160 square feet or more clearance samples will be analyzed using Transmission Electron Microscopes (TEM), and all asbestos abatement containments under 160 square feet will be cleared using PCM air sample analysis.