



## **ASBESTOS TEM LABORATORIES, INC.**

### **EPA Interim Method Polarized Light Microscopy Analytical Report**

**Laboratory Job #** \_\_\_\_\_

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ASBESTOS TEM LABORATORIES, INC

CA ELAP  
Lab No. 1866



Mar-23-22

Richmond, CA 94804

RE: LABORATORY JOB #

Polarized light microscopy analytical results for 3 bulk sample(s) with 1 sample split(s)

Job Site:

Job No.:

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager  
ASBESTOS TEM LABORATORIES, INC.

*Disclaimer - These results relate only to the samples tested as received and must not be reproduced, except in full, with the approval of the laboratory. Incorrect or illegible information supplied by the customer may adversely affect the validity of test results. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.*

*Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.*

# POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of

Contact:	Samples Indicated: 3	Report No.
	Reg. Samples Analyzed: 3	Date Submitted: Mar-18-22
Address:	Split Layers Analyzed: 1	Date Reported: Mar-23-22
Richmond, CA 94804	Job Site / No. 240 S 20th Street	

SAMPLE ID	% ASBESTOS TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
AH-Floor-01	None Detected	1) None Detected 2) 99-100% Opq	Tile
Lab ID # 97-10266-001A		3) Mar-18-22      4) Mar-23-22	Sheet Vinyl-Beige/Green
AH-Floor-01	None Detected	1) 70-80% Cellulose 2) 20-30% Tar	Tile
Lab ID # 97-10266-001B		3)                      4) Mar-23-22	Tar Felt-Black
AH-Pipe-01	None Detected	1) None Detected 2) 99-100% Opq	Dust from cement pipe
Lab ID # 97-10266-002		3) Mar-18-22      4) Mar-23-22	Dust-Black
AH-Off-01	None Detected	1) None Detected 2) 99-100% Opq, Tar	Suspected black mastic
Lab ID # 97-10266-003		3) Mar-18-22      4) Mar-23-22	Mastic-Black
Lab ID #		1) 2)	
		3)                      4)	
Lab ID #		1) 2)	
		3)                      4)	
Lab ID #		1) 2)	
		3)                      4)	
Lab ID #		1) 2)	
		3)                      4)	
Lab ID #		1) 2)	
		3)                      4)	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst



# ATEM LABORATORIES CHAIN OF CUSTODY

CALIFORNIA: 3431 Ettie Street Oakland, CA 94608

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NEVADA: 1350 Freepoint Blvd. #104, Sparks, NV 89431

Phone (775) 359-3377 Fax (775) 359-2798

You may also email this chain of custody to [asbestos@atemlabs.co@gmail.com](mailto:asbestos@atemlabs.co@gmail.com)

\* denotes required field

Company:		Phone: *		Email:					
Address: *		State: CA Zip: 94604		Email:					
Job Site: *		Job #:		Email:					
Reporting *	<input type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> Mail <input type="checkbox"/> Pickup <input type="checkbox"/> Billing	<input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Mail <input type="checkbox"/> Pre-Paid	Billing Email:						
Results Due: *	<input type="checkbox"/> 2 HR <input type="checkbox"/> 4 HR <input type="checkbox"/> 6 HR <input type="checkbox"/> 8 HR <input checked="" type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 3 DAY <input type="checkbox"/> 5 DAY <input type="checkbox"/> 10 DAY <input type="checkbox"/> Hold Samples (until )	After Hours: **							
Asbestos Air	<input type="checkbox"/> PCM NIOSH 7400 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> TEM AHERA <input type="checkbox"/> TEM CARB Mod. AHERA <input type="checkbox"/> TEM EPA Yamate Level II <input type="checkbox"/> TEM NIOSH 7402 <input type="checkbox"/> ISO 10312 <input type="checkbox"/> ISO 13794 <input type="checkbox"/> Sensitivity	<input type="checkbox"/> TEM EPA Qualitative <input type="checkbox"/> TEM EPA Quantitative <input type="checkbox"/> TEM EPA Quantitative							
Asbestos Bulk	<input checked="" type="checkbox"/> PLM Standard (EPA 600/R-93-1) <input type="checkbox"/> PLM 400 Point Count <input type="checkbox"/> PLM 1000 PC <input type="checkbox"/> PLM 400 PC Gravimetric Reduction <input type="checkbox"/> PLM 1000 PC Grav. Red. <input type="checkbox"/> TEM-NOA EPA/CARB Quantitative <input type="checkbox"/> EPA Soil Screening Qualitative <input type="checkbox"/> Total Particulates (Gravimetric)	<input type="checkbox"/> Erionite							
Asbestos Soils	<input type="checkbox"/> CARB 435 Prep Only <input type="checkbox"/> CARB 435 PLM <input type="checkbox"/> 400 PC <input type="checkbox"/> 800 PC <input type="checkbox"/> 1000 PC <input type="checkbox"/> 1200 PC <input type="checkbox"/> ASTM D-5756 Fiber Count: <input type="checkbox"/> ASTM D-5756 Mass <input type="checkbox"/> ASTM D-6480 Dust Wipe	<input type="checkbox"/> NIOSH 0500 <input type="checkbox"/> NIOSH 0600 <input type="checkbox"/> TTLC <input type="checkbox"/> STLC <input type="checkbox"/> TCLP							
Asbestos Dust	<input type="checkbox"/> 100.2 Potable Drinking Water <input type="checkbox"/> 100.1 Non Potable Water	note that 100.2 will be used for all water samples unless otherwise requested							
Asbestos Water	<input type="checkbox"/> Lead Paint Chips EPA-SW-846 7000B <input type="checkbox"/> Lead Dust Wipe EPA-SW-846 7000B <input type="checkbox"/> Lead Air NIOSH 7082	Crystalline Silica in Bulk (NIOSH 7500) <input type="checkbox"/> Crystalline Silica in Bulk (NIOSH 7500) <input type="checkbox"/> Single Species <input type="checkbox"/> All Species <input type="checkbox"/> Single Species <input type="checkbox"/> All Species <input type="checkbox"/> Single Species <input type="checkbox"/> All Species							
Lead/Silica	<input type="checkbox"/> Custom Analysis **	<input type="checkbox"/> TEM Chatfield (Semi-Quant) <input type="checkbox"/> NIOSH 0500 <input type="checkbox"/> NIOSH 0600 <input type="checkbox"/> TTLC <input type="checkbox"/> STLC <input type="checkbox"/> TCLP							
Custom/Other	<input type="checkbox"/> Composite <input type="checkbox"/> Prep Only <input type="checkbox"/> 8 Hour TWA <input type="checkbox"/> Other **								
Special Instruct.									
Sample # *	Sample Type	Date Collected	Time On	Time Off	Total Time (min)	Flow Rate (ppm)	Volume or Area Sampled	Hold Sample	Description *
AT-Flor-01		3/18/22				On	Average	<input type="checkbox"/>	T.I.E
AT-Flor-01						Off		<input type="checkbox"/>	Dust from cement pipe
AT-FF-01								<input type="checkbox"/>	suspected black mastic
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
Submitted By *									MB
Date/Time Submitted *	3/18/22 @ 1420								MAR 18 '22 2:24PM
Submitted By									
Date/Time Submitted									

\*\* For any special instructions, RUSH results or Custom Analysis, you must clarify these specifications AND, of more importance, contact us here at ATEM ahead of time to manage scheduling to meet your requests. This includes dropping off samples for rush, same day analysis. Drop off and processing of samples after hours cannot be accommodated without proper notification from you, and confirmation by ATEM staff. All samples will be held for 3 months from the date of receipt at ATEM. Additional sample storage time may be obtained through ATEM Customer Service.