

# MICRO ANALYTICAL LABORATORIES, INC.

## TEM YAMATE LEVEL II (MODIFIED)

1122  
 C & W Environmental Consulting  
 2532 Santa Clara Avenue  
 PMB 390  
 Alameda, CA 94501

PROJECT:  
 COUNTY OF MONTEREY  
 SUPERIOR COURTHOUSE  
 NORTH WING  
 240 CHURCH STREET  
 SALINAS, CA

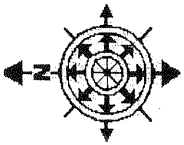
Micro Log In **86717**  
 Total Samples 1  
 Date Sampled 09/06/2006  
 Date Received 09/07/2006  
 Date Analyzed 09/07/2006

SAMPLE INFORMATION	ASBESTOS STRUCTURE COUNT	CALCULATED ASBESTOS STRUCTURE CONCENTRATION													
<b>CLIENT ID</b> <div style="border: 1px dashed black; padding: 2px; display: inline-block;">COM-9606-R3-6</div> MICRO ID 86717-01 Time 386 LPM 4.00 Liters 1544.0 <b>DESCRIPTION</b> THIRD FLOOR MEZZANINE AT WATER FOUNTAIN (REANALYSIS OF PCM 86715-06)	<b>ASBESTOS TYPE</b> CHRYSOTILE <input type="text" value="0"/> GRUNERITE (AMOSITE) <input type="text" value="0"/> RIEBECKITE (CROCIDOLITE) <input type="text" value="0"/> TREMOLITE <input type="text" value="0"/> ACTINOLITE <input type="text" value="0"/> ANTHOPHYLLITE <input type="text" value="0"/> <b>TOTAL ASBESTOS</b> <input type="text" value="0"/>	<b>Str. per mm<sup>2</sup></b> <div style="border: 1px dashed black; padding: 2px; display: inline-block;">&lt; 9.4</div> 95% LCL 0.0 95% UCL 34.8	<b>Str. per cc</b> <div style="border: 1px dashed black; padding: 2px; display: inline-block;">&lt; 0.002</div> 95% LCL 0.000 95% UCL 0.009												
<b>Asbestos Structures Subdivided By Length</b>															
		<table border="1"> <thead> <tr> <th>Length</th> <th>No.</th> <th>S/mm<sup>2</sup></th> <th>S/cc</th> </tr> </thead> <tbody> <tr> <td>&lt;5 μm</td> <td>0</td> <td>&lt; 9.4</td> <td>&lt; 0.002</td> </tr> <tr> <td>≥ 5 μm</td> <td>0</td> <td>&lt; 9.4</td> <td>&lt; 0.002</td> </tr> </tbody> </table>	Length	No.	S/mm <sup>2</sup>	S/cc	<5 μm	0	< 9.4	< 0.002	≥ 5 μm	0	< 9.4	< 0.002	
Length	No.	S/mm <sup>2</sup>	S/cc												
<5 μm	0	< 9.4	< 0.002												
≥ 5 μm	0	< 9.4	< 0.002												
<b>COMMENTS</b> NO ASBESTOS DETECTED The particle loading is moderate.															

Operating Parameters	Field Filter Data	Analytical Sensitivity	SAED Photo No. / ID
TEM Magnification 16,000X ± 5% Grid Squares 10 Grid Square Area 0.0106 mm <sup>2</sup> Scan Area 0.1060 mm <sup>2</sup>	Type MCE Diameter 25 mm Collection Area 385 mm <sup>2</sup>	0.002 Str. per cc <b>Quantitation Limits</b> 0.009 Str. per cc 34.8 Str. per mm <sup>2</sup>	<b>Non-asbestos Structures</b> Gypsum 0 Other 0

Technical Supervisor: Frank Raviola, M.S. Date Reported: 9/7/2006 Analyst: FPR

Analyses follow a modification of the Level II protocol from Yamate and others, 1984, "Methodology for the Measurement of Airborne Asbestos by Transmission Electron Microscopy". Direct preparations follow the AHERA method (1987), 40 CFR Part 763, Appendix A to Subpart E. Asbestiform structures with aspect ratio of 3:1 or greater, are counted. Analysis may be stopped after 50 or more asbestos structures are counted. Concentrations and limits expressed in "Structures per mm<sup>2</sup>" are applicable only to samples with volumes of 1199 or more liters. The 95% UCL and LCL (Upper and Lower Limits of the Two-sided 95% Confidence Interval) are estimated measures of variability; they represent the highest and lowest expected concentrations (with 95% confidence) for a given asbestos count, based on measured concentration and standard statistical principles. Variability due to different airborne fiber distributions, whether on different portions of the same filter or from different filters from the same sampled area, may be significantly greater. Analytical sensitivity is the airborne concentration represented by each asbestos structure; it is not the same as the detection limit. The detection limit is approximately 3.7 times the analytical sensitivity. Non-asbestos counts are approximate; specific characterization of non-asbestos particles is not applicable to this analysis. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. Air volume information is reported as given by the client. N/G = not given. N/A = not applicable.



**C&W Environmental Consulting, Inc.**

86717  
Yamato

**CHAIN OF CUSTODY**

Project: \_\_\_\_\_

Client: County of Monterey - North Wing Courthouse Sampling Date: 9/16/06

Site Address: 740 Church St. Salinas CA. Page (s): 1 of 1

Turnaround Time:  Rush

ID	Analysis	Description	Start Time	Stop Time	Total Time	Average LPM	Total Liters	Pore Size
COM-9666-A3-1	PCM	BASEMENT - WEST CORRIDOR AT CONSTRUCTION DOOR	17:01	11:31		4		0.8
- 2		- S.E. F.I.C.E. ROOM	17:03	11:33		4		
- 3		- NORTH CORRIDOR AT MECH. ROOM	17:05	11:36		4		
- 4		1/F LOBBY AT WATER FOUNTAIN	17:08	11:39		4		
- 5		2/F MEZZANINE AT STAIRWAY	17:12	11:41		4		
- 6		3/F MEZZANINE AT WATER FOUNTAIN	17:18	11:44		4		
- 7		EAST ROOF	17:24	11:49		4		
- 8		PENTHOUSE WEST ROOM	17:25	11:50		4		
- 9		FIELD BLANK	:	:				
- 10		SEALED BLANK	:	:				

Additional Notes: REANALYZE #'S 2, 3, 7, 8 AND ANY OTHER SAMPLE OVER 0.01 F/CC BY  
BEN YAMATO 2

Relinquished by: [Signature] Date & Time: 9/16/06

Received by: [Signature] Date & Time: 9/17/06 3:30 PM

Asbestos/Lead

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