MICRO ANALYTICAL LABORATORIES, INC.

PHASE CONTRAST MICROSCOPY

1023
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

PROJECT:

JOB NO. R1147447
DEMO/ABATEMENT
DVC, LIBRARY BLDG.

Micro Log In 203303
Total Samples 4
Date Sampled 03/09/2015
Date Received 03/09/2015
Date Analyzed 03/09/2015

Sample ID	Field Data	Lab Data	Fibers / cc	Limits
Client: R1147447-030915-P1 Micro: 203303-01 DECON DEMO/ABATEMENT	Time 375 Rate 4.3 Liters 1612.5	Fibers 35.5 Fields 100 F/mm² 45.2	0.011	LCL UCL 0.006 0.015 LOD LOQ 0.002 0.024 CV 0.34
Client: R1147447-030915-P2 Micro: 203303-02 NORTH NAM DISD. DEMO/ABATEMENT	Time 375 Rate 4.3 Liters 1612.5	Fibers 5.5 Fields 100 F/mm² 7.0	0.002	LCL UCL 0.001 0.002 LOD LOQ 0.002 0.024 CV 0.25
Client: R1147447-030915-P3 Micro: 203303-03 CB AT ENTRY CORR/LOBBY DEMO/ABATEMENT	Time 326 Rate 4.3 Liters 1401.8	Fibers 11.5 Fields 100 F/mm² 14.6	0.004	LCL UCL 0.002 0.006 LOD LOQ 0.002 0.027 CV 0.25
Client: R1147447-030915-P4 Micro: 203303-04 CB AT MEDIA SVCS. DEMO/ABATEMENT	Time 326 Rate 4.3 Liters 1401.8	Fibers 32.5 Fields 100 F/mm² 41.4	0.011	LCL UCL 0.006 0.016 LOD LOQ 0.002 0.027 CV 0.34

Technical Supervisor: _____ 3/9/2015 Analyst: LM
Frank Raviola, M.S. Date Reported

AIHA IHLAP LABORATORY Accreditation / PAT ID No. 101768. SOP PCM1. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm^2. Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm^2. The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration and overall lab statistics. Intralaboratory analyst coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration + [1.645 x CV x Standard]). If a CV is not recorded on this report, there are not yet enough data for the analyst. Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. *Note: the 8 hour TWA may not be statistically accurate for actual total times less than 360 minutes. Zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report.* Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these results. This report shall not be reproduced except in full, without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Note: due to software limitations, the number of reported significant figures does not necessarily reflect the uncertainty of the analysis. Micro Analytical Laboratories, Inc. shall not be responsible for clients' deviations from any prescribed sampling parameters. Air volumes are based on client data. The laboratory's verifiability of results is limited to fibers per mm^2. This analysis counts total fibers and cannot distinguish asbestos from non-asbestos fibers. For asbestos identification and counts, TEM reanalysis of the same filter is recommended. N/A = not applicable.

RGA ENVIRONMENTAL

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__PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070

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PCM AIR SAMPLE DATA SHEET 203307

* PCM Analysis
* NIOSH 7400A

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SAMPLE ID CODE

Job Code – mmddyy – Sample Type – Sample # (11422-022405-P-1)

Job Code: Numeric Code from RGA Project #
mmddyy: month day year (022405)
Sample Type: A-Area, P-Perimeter, B-Baseline, C-Clearance, BL-Blank Sample #: 1, 2, 3, ...

Project Name/Address/Building No. : Demo/abatement, OUC, Library Bldg.

RGA Project #: R1147447 **Sampled By:** N. Arscott **Sampling Date:** 3/9/15

Sample(s) Sent To: ___ RGA ___ EMSL ___ **Other:** MAL **TAT:** ___ **Rush** ✓ **24Hrs** ___ **3-5 Days**

ANALYZED BY RGA (NAME): _____ **DATE:** _____

FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)**

***ADDITIONAL REPORT RECIPIENT(S): _____ ***

1
SAMPLE ID: R1147447-030915-P1
SAMPLE LOCATION Decon
WORK ACTIVITY: Demo / abatement
TIME ON: 0735 TIME OFF: 1350
FLOW RATES: 4.3 (LPM)
TOTAL MINUTES: 375 VOLUME: 1,612.5 (L)
Number of Fibers _____ Number of Fields _____
AIRBORNE FIBER CONC. = _____ *fibers/cc*

2
SAMPLE ID: R1147447-030915-P2
SAMPLE LOCATION North NAM discl.
WORK ACTIVITY: Demo / abatement
TIME ON: 0736 TIME OFF: 1351
FLOW RATES: 4.3 (LPM)
TOTAL MINUTES: 375 VOLUME: 1,612.5 (L)
Number of Fibers _____ Number of Fields _____
AIRBORNE FIBER CONC. = _____ *fibers/cc*

3
SAMPLE ID: R1147447-030915-P3
SAMPLE LOCATION CB@ entry cor/lobby
WORK ACTIVITY: Demo / abatement
TIME ON: 0830 TIME OFF: 1356
FLOW RATES: 4.3 (LPM)
TOTAL MINUTES: 326 VOLUME: 1,401.8 (L)
Number of Fibers _____ Number of Fields _____
AIRBORNE FIBER CONC. = _____ *fibers/cc*

4
SAMPLE ID: R1147447-030915-P4
SAMPLE LOCATION CB@ Media Svcs.
WORK ACTIVITY: Demo/abatement
TIME ON: 0829 TIME OFF: 1355
FLOW RATES: 4.3 (LPM)
TOTAL MINUTES: 326 VOLUME: 1,401.8 (L)
Number of Fibers _____ Number of Fields _____
AIRBORNE FIBER CONC. = _____ *fibers/cc*

SAMPLE ID: _____
SAMPLE LOCATION _____
WORK ACTIVITY: _____
TIME ON: _____ TIME OFF: _____
FLOW RATES: _____ (LPM)
TOTAL MINUTES: _____ VOLUME: _____ (L)
Number of Fibers _____ Number of Fields _____
AIRBORNE FIBER CONC. = _____ *fibers/cc*

Relinquished By: N. Arscott **Signature:** _____ **Date/Time:** 3/9/15

Received By: _____ **Signature:** _____ **Date/Time:** 3.9.15 6:30p

Relinquished By: _____ **Signature:** _____ **Date/Time:** _____

Received By: _____ **Signature:** _____ **Date/Time:** _____