

April 3, 2019

KENNETH C. JANDA
DEAN, SCHOOL OF PHYSICAL SCIENCES

RE: February 2019 Air Monitoring Report for Rowland Hall Fifth Floor

Dear Dean Janda,

The attached report from Omega Environmental, dated March 15, 2019, provides late January 2019 and February 2019 air monitoring results for the fifth floor of Rowland Hall during asbestos-related construction activities.

We have reviewed the report, including the air sample measurements. Furthermore, we also performed transmission electron microscopy (TEM) on four air samples. The results of this TEM analysis confirm:

1. The two 1.29.19 air samples taken outside the containment during the disturbance of non-asbestos containing materials (PCM result was above 0.01 f/cc) do not contain asbestos fibers.
2. The one 2.1.19 air sample taken outside the containment during the disturbance of non-asbestos containing materials (PCM result was above 0.01 f/cc) does not contain asbestos fibers.
3. The one 2.4.19 air sample taken outside the containment during the disturbance of non-asbestos containing materials (PCM result was above 0.01 f/cc) does not contain asbestos fibers.

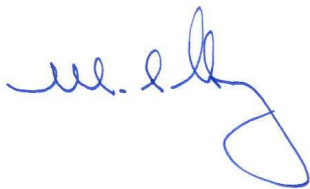
Based on our review, the air sample data has been determined to meet the Environmental Protection Agency (EPA) clearance criteria of 0.01 fibers per cubic centimeters of air (f/cc), which means the air quality in public spaces met or exceeded all applicable standards.

If you have any questions regarding the environmental health and safety of Rowland Hall, please don't hesitate to contact us via phone (949.824.6889) or email (magomez@uci.edu). After hours calls may be directed to 949.824.6200.

If you have any questions regarding the construction activities on the fifth floor of Rowland Hall, please contact Design and Construction Services Senior Project Manager Chris Schneider via email (jcshnel@uci.edu).

We look forward to a safe and successful completion of the Rowland Hall fire life safety improvement project. Please let us know if you have any questions.

Sincerely,



Marc A. Gomez
Assistant Vice-Chancellor
Environmental Health and Safety



Dick T. Sun
Associate Deputy Director
Environmental Health and Safety

Attachment



Asbestos Air Monitoring Summary Report
University of California, Irvine
Rowland Hall – 5th Floor Restrooms
Irvine, California 92618

Project Number 2019-3247UCI
April 3, 2019

Prepared For:

Susan Robb
University of California, Irvine
4600 Health Science Road
Irvine, California 92697

Prepared By:

Navid Salari
Omega Environmental Services
4570 Campus Drive, Suite 30
Newport Beach, California 92660

A handwritten signature in black ink, appearing to read "Navid Salari", is positioned above a horizontal line.

Navid Salari

Sr. Project Manager, CAC #94-1597

A handwritten signature in blue ink, appearing to read "Steve Rosas", is positioned above a horizontal line.

Steve Rosas

Senior Project Manager

Principal, CAC #92-0284



TABLE OF CONTENTS

1. EXECUTIVE SUMMARY	1
2. REGULATED AREA SET-UP AND SPOT REMOVAL/CLEAN-UP.....	1
3. AIR SAMPLE RESULTS	2

ATTACHMENT A

PCM Air Sample Results, Inspectors' Certifications and Laboratory Accreditation

1. EXECUTIVE SUMMARY

The following is an air monitoring summary report for the Rowland Hall, 5th Floor Fire Life Safety (FLS) project located at the University of California, Irvine (UCI) in Irvine California. The scope of work consisted of the following asbestos related activities:

- Removal of non-asbestos ceiling tiles
- Work area preparation for other trades
- Clean-up of asbestos-containing debris and assist during the installation of fire sprinkler system
- Spot removal of asbestos-containing materials as necessary
- Air monitoring and project oversight

Project oversight and air monitoring was performed by Jacqueline M. Cole, a California Certified Site Surveillance Technician (CSST #10-4687) and Jesse Sanchez, AHERA¹ Building Inspector with Omega Environmental Services, Inc. (Omega) on January 28 through February 6, 2019.

2. REGULATED AREA SET-UP AND SPOT REMOVAL/CLEAN-UP

Environmental Construction Group, Inc., (ECG) the asbestos abatement contractor established regulated area (5th Floor Restrooms, Rooms 544 and 546), using caution tape and asbestos danger signs at the perimeter of the work area. The contained regulated work area was constructed of polyethylene sheeting that isolated the work area from the public environment. Critical barriers of polyethylene sheeting and duct tape were used to seal windows, vents and entrance to the work area. Asbestos warning signs and caution signs were placed at the entrance to the work area. The regulated area complied with the requirements of the California Occupational Safety and Health Administration (Cal-OSHA) Standard Title 8, California Code of Regulations (CCR) Section 1529 Asbestos and South Coast Air Quality Management District (SCAQMD), Rule 1403.

Omega performed visual inspection of the established regulated work area prior to commencement of any spot abatement work. Decontamination units for the abatement workers were located at the perimeter of the work area. The contained work area was then placed under negative pressure, using high efficiency particulate air (HEPA) filtration devices to prevent the migration of asbestos fibers outside the containment. A sprayer was used to mist the work area with water as necessary, to minimize airborne fiber concentrations in the work area. Certified workers used disposable coveralls and half-face air purifying respirators with HEPA filters during the asbestos related activities. These protective clothing are removed by the workers as they exit the containment while going through the decontamination unit.

HEPA vacuums were used to clean the contained work area upon completion of the installation of the fire sprinkler system or as necessary. After passing the final visual

¹ Asbestos Hazard Emergency Response Act



inspection ECG misted a coating/encapsulant throughout the contained work area in order to “lock down” any potential residual fibers.

3. AIR SAMPLE RESULTS

Perimeter and clearance air samples were collected during and at the completion of the asbestos related activities. The purpose of the perimeter air monitoring was to measure the airborne fiber concentrations outside the containment to determine the effectiveness of the isolation method during the asbestos related activities. Clearance air sampling was conducted within the work area following the completion of asbestos related activities. Clearance air sample results did not exceed the Environmental Protection Agency (EPA) clearance criteria of 0.01 fibers per cubic centimeters of air (f/cc). The analysis was performed using the Phase Contrast Microscopy (PCM) analytical methodology as described in National Institute for Occupational Safety and Health (NIOSH) 7400 protocol. Omega’s representatives are NIOSH-582² certified and analyzed the collected air samples at the site. Table 1 provides a summary of the air sample results.

Table 1 - Air Sample Results

Date	Sample #	Sample Location / Work Activity	Result (f/cc)
1/28/19	NA	No sampling / mobilizing equipment and materials	NA
1/29/19	01	Outside work area (Restroom), negative air exhaust /drywall ceiling install	<0.003
1/29/19	02	Outside work area (Restroom), hallway outside decon / drywall ceiling install	0.022*
1/29/19	03	Outside work area (Restroom), hallway outside decon / drywall ceiling install	0.007
1/29/19	04	Outside work area (Restroom), hallway by room 540 / drywall ceiling installation	0.013*
1/29/19	05	Blank	0.00
1/29/19	06	Blank	0.00
1/30/19	01	Outside work area (Restroom), negative air exhaust / installing drywall, restroom 544/546 ceiling	<0.003
1/30/19	02	Outside work area (Restroom), hallway, outside decon / installing drywall, restroom ceiling 544/546	0.005
1/30/19	03	Outside work area (Restroom) in front of room 540 and 539 / installing drywall, restroom ceiling	0.006
1/30/19	04	Blank	0.00
1/30/19	05	Blank	0.00
1/31/19	01	Outside work area (Restroom), negative air exhaust / installing drywall, restroom 544/546 ceiling	<0.003
1/31/19	02	Outside work area (Restroom), hallway, outside decon / installing drywall, restroom ceiling 544/546	0.003
1/31/19	03	Outside work area (Restroom), hallway, outside decon / installing drywall, restroom ceiling 544/546	0.010

² NIOSH-582 or equivalent - Individual trained to analyze samples by Phase Contrast Microscopy



Date	Sample #	Sample Location / Work Activity	Result (f/cc)
2/1/19	01	Outside work area (Restroom), negative air exhaust / installing drywall, restrooms 544/546	<0.002
2/1/19	02	Outside work area (Restroom), outside decon / installing drywall 544/546	0.027*
2/1/19	03	Outside work area (Restroom), outside decon / installing drywall 544/546	0.007
2/4/19	01	Outside work area (Restroom), negative air exhaust / cleanup and detailing restrooms 544/546	0.002
2/4/19	02	Outside work area (Restroom), hallway, outside decon / cleanup and detailing restrooms 544/546	0.030*
2/4/19	03	Outside work area (Restroom), hallway in front of room 539, 540 / cleanup and detailing restrooms 544/546	0.004
2/4/19	04	Blank	0.00
2/6/19	1	Inside work area, men's restroom, (#544) SE region / final clearance	<0.002
2/6/19	2	Inside work area, men's restroom (#544) center region / final clearance	<0.002
2/6/19	3	Inside work area, hallway between restroom / final clearance	<0.002
2/6/19	4	Inside work area, women's restroom (#546) NE region/ final clearance	<0.002
2/6/19	5	Inside work area, women's restroom (#546) center region / final clearance	0.002
2/6/19	6	Lab blank	0.00
2/6/19	7	Field blank	0.00

Fiber/cc – Fiber per cubic centimeter

* – See table 2 for TEM sample results

Table 2 is a comparison of air monitoring sample results of the samples with elevated fiber counts collected from the 5th Floor Restrooms of Rowland Hall during the Fire Life Safety Construction related activities (drywall installation). The samples with elevated fiber counts were analyzed by both PCM and Transmission Electron Microscopy (TEM). PCM identifies the total number of fibers in a sample but cannot distinguish between asbestos and non-asbestos fibers.

*Table 2 – Air Sample TEM Results

Date	Sample #	Sample Locations / Work Activity	PCM Results (f/cc)	TEM Results Adjusted (f/cc)
1/29/19	02	Outside work area (Restroom), hallway outside decon / drywall ceiling install	0.022	<0.0021 0% Asbestos
1/29/19	04	Outside work area (Restroom), hallway by room 540 / drywall ceiling installation	0.013	<0.0022 0% Asbestos
2/1/19	02	Outside work area (Restroom), outside decon / installing drywall 544/546	0.027	<0.0021 0% Asbestos
2/4/19	02	Outside work area (Restroom), hallway, outside decon / cleanup and detailing restrooms 544/546	0.030	<0.0020% 0% Asbestos

(f/cc) fibers per cubic centimeter of air

The TEM analysis is performed in accordance with NIOSH 7402 Method. The air samples were submitted under chain of custody procedures to LA Testing laboratory located at 5431 Industrial Drive in Huntington Beach, California (Tel: 714-828-4999). LA Testing laboratory is accredited by the National Institute of Standards and



Technology (NIST), National Voluntary Laboratory Accreditation Program (NVLAP) and by the American Industrial Hygiene Association (AIHA). (Attachment A includes copies of the laboratory analytical reports)

Based on the results of the TEM analysis of all four (4) selected samples were found to be less than the Environmental Protection Agency (EPA) Clearance Criteria of 0.01 f/cc and no asbestos fibers were detected in the samples.



Attachment A



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@lateesting.com

LA Testing Order: 331902106

Customer ID: OMEG34

Customer PO:

Project ID:

Attention: Navid Salari
Omega Environmental Services, Inc.
4570 Campus Drive
Suite 30
Newport Beach, CA 92660

Phone: (949) 302-6826

Fax:

Received Date: 02/01/2019 13:40 PM

Analysis Date: 02/04/2019

Collected Date: 01/29/2019

Project: 2019-3247UCI / Rowland Hall Irvine, CA 92697

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
01	5th floor - restroom containment, negative air exhaust	01/29/2019	871.5	<5.5	100	0.003	<7.01	<0.003	
331902106-0001									
02	5th floor - restroom containment, outside decon hallway	01/29/2019	1270	56.5	100	0.002	72.0	0.022	
331902106-0002									
03	5th floor - restroom containment, outside decon hallway	01/29/2019	1270	18	100	0.002	22.9	0.007	
331902106-0003									
04	Room 540 - hallway of room 540	01/29/2019	1254	34	100	0.002	43.3	0.013	
331902106-0004									
05	Blank	01/29/2019		<5.5	100		<7.01		Field Blank
331902106-0005									
06	Blank	01/29/2019		<5.5	100		<7.01		Field Blank
331902106-0006									

The results reported have been blank corrected as applicable.

Analyst(s):
Dennies Ly PCM 6

Michael DeCavallas, Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.39, 21-50 fibers = 0.25, 51-100 fibers = 0.22. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.32. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. LA Testing maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in acceptable condition unless otherwise noted. Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 02/04/2019 13:37 PM



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@lateesting.com

LA Testing Order: 331905108

Customer ID: OMEG34

Customer PO:

Project ID:

Attention: Navid Salari
Omega Environmental Services, Inc.
4570 Campus Drive
Suite 30
Newport Beach, CA 92660

Phone: (949) 302-6826

Fax:

Received Date: 03/13/2019 01:10 PM

Analysis Date: 03/13/2019

Collected Date: 01/29/2019

Project: Reference: 331902106 / 2019-3247UCI / Rowland Hall Irvine, CA 92697

Test Report:Asbestos Analysis of Air Samples by Transmission Electron Microscopy via NIOSH Method 7402

Sample	Volume (Liters)	Non Asbestos Fibers	Asbestos Type(s)	Asbestos Fibers	PCM F/cc	*Asbestos % of total	7402 Adjusted (TEM)	Notes
02	1270	23.0	None Detected		0.022	0 %	<0.0021	
331905108-0001								
04	1254	12.5	None Detected		0.013	0 %	<0.0022	
331905108-0002								

NIOSH 7402 method only reports fibers > 5µm in length and > 0.25µm in width.

This method requires a minimum of 2 field blank analyses per set.

* The above results are not blank corrected.

Average number of asbestos fibers on field blanks: N/A

Average number of non-asbestos fibers on field blanks: N/A

Analyst(s)

Larry Kolk (2)

Michael DeCavallas, Laboratory Manager
or other approved signatory

EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.
Samples analyzed by LA Testing Huntington Beach, CA

#331902106

Air Sample Data Sheet



Project Number: 2019-3247UCI

Project Site Address: Rowland Hall Irvine, CA 92697

Sample Date: January 29, 2019

Analysis Method: NIOSH 7400

Analysis by:

Date Analyzed:

24hr. test

Sample ID: 01	Start time: 11:58	End time: 05:48
Sample location: 5th Floor - Restroom	Flow rate (LPM): 2.49	
containment, Negative air exhaust	Total time:	Total volume:
Fibers:		
Fields:		
f/cc:		
Sample ID: 02	Start time: 12:04	End time: 02:04
Sample location: 5th Floor - Restroom	Flow rate (LPM): 10.58	
containment, outside decon. hallway	Total time: 120	Total volume: 1,270
Fibers:		
Fields:		
f/cc:		
Sample ID: 03	Start time: 02:05	End time: 04:05
Sample location: 5th Floor - Restroom	Flow rate (LPM): 10.58	
containment, outside decon. hallway	Total time: 120	Total volume: 1,270
Fibers:		
Fields:		
f/cc:		
Sample ID: 04	Start time: 04:20	End time: 05:40
Sample location: Room 540 - Hallway of room	Flow rate (LPM): 15.68	
540	Total time: 80	Total volume: 1,254
Fibers:		
Fields:		
f/cc:		

Sampler name (print): Jesse Sanchez & Navid Salari

Signature: Jesse Sanchez & Navid Salari

Page 01 of 02

received: SP (WT) 2-1-19 @ 1:40PM

#331902106 Air Sample Data Sheet



Project Number: **2019-3247UCI**
 Project Site Address: **Rowland Hall Irvine, CA 92697**
 Sample Date: **January 29, 2019**
 Analysis Method: **NIOSH 7400**
 Analysis by:
 Date Analyzed:

Sample ID: 05	Start time: *	End time: *
Sample location: Blank	Flow rate (LPM): *	
	Total time: *	Total volume: *
Fibers:		
Fields:		
f/cc:		
Sample ID: 06	Start time: *	End time: *
Sample location: Blank	Flow rate (LPM): *	
	Total time: *	Total volume: *
Fibers:		
Fields:		
f/cc:		
Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Fibers:		
Fields:		
f/cc:		
Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Fibers:		
Fields:		
f/cc:		

Sampler name (print): **Jesse Sanchez & Navid Salari**
 Signature: **Jesse Sanchez & Navid Salari**



Project Number: 2019-3247UCI	Date:01/28/2019
Project Name: Rowland Hall	Omega Representative: Navid Salari & Jesse Sanchez
Project Address: Rowland Hall UCI Irvine, CA	Company: ECG + BNB
Client Contact:	Contact:
Client Phone #:	Contact#:

TIME AND ACTIVITY

10:00	Omega, ECG + BNB arrive on site to begin today's work shift. Omega, ECG supervisor Jose Ramos & BNB enter Rowland Hall. BNB will set up their crews on the 5th & 4th floor in clean area where there is no fireproofing present. Omega & ECG supervisor, wait for BNB to begin work on the 5th floor restrooms. Scope of Work: BNB crew will be doing frame work installing new solid plaster ceiling within containment using proper PPE.
11:00	BNB are still mobilizing their crews into their assigned areas. At this time BNB will be installing new ceiling tiles on the 5th floor hallway before entering restroom containment.
12:30	Work continues to move forward, BNB continue to install 5th floor hallway ceiling tiles. ECG supervisor Jose Ramos and Omega continue to wait for BNB to enter containment to install new ceiling frame inside restroom containment on the 5th floor.
01:30	Work continues to move forward, BNB continue to install 5th floor hallway ceiling tiles.
02:00	BNB crew break for lunch.
02:30	BNB crew return from lunch.
03:10	At this time same work continues on the 5th floor hallway BNB still have not yet worked inside restroom containment.
04:20	BNB continue to work on the 5th floor hallway installing new ceiling tiles.
05:00	BNB crew break for their second lunch.
05:30	BNB crew return from lunch.
05:38	BNB 1 man crew enters containment to mobilize equipment. *Note: BNB Javier states to ECG supervisor Jose Ramos they will not work until 0800 as previously discussed, shift will end today at 0630. Due to this BNB will only move in equipment inside the containment. No air monitoring for today.

Omega Site Representative Signature: Navid Salari & Jesse Sanchez	01/28/2019
---	------------

TIME AND ACTIVITY

06:10 BNB exit out of containment.

06:15 ECG + Omega inspect containment for any damages to the containments integrity. *Note: Containment was in good condition.

06:30 Shift has ended for today. ECG, Omega & BNB off site.

Omega Site Representative Signature: Navid Salari & Jesse Sanchez

01/28/2019



Project Number: 2018-3247UCI	Date :01/29/2019
Project Name: Rowland Hall	Omega Representative: Jesse Sanchez & Navid Salari
Project Address: Rowland Hall #400 Irvine, CA UCI	Company: ECG + BNB
Client Contact:	Contact:
Client Phone #:	Contact#:

TIME AND ACTIVITY

22:00	Omega, ECG & BNB arrive on site to begin today's work shift. Scope of work: BNB will be entering containment to install plaster ceiling inside the 5th floor's restroom. At this time Omega & ECG supervisor are waiting for BNB to begin work in the restroom, BNB are mobilizing equipment and organizing their crews throughout the 5th and 4th floor.
23:50	At this time BNB 2 man crew begin to put on their PPE + half-face P100 respirators. They will be entering the containment to install ceiling frame for new plaster ceiling for the restrooms.
23:58	At this time Omega mobilize and set up perimeter air samples.
01:00	Work continues to move forward, no issues to report at this time.
01:50	BNB begin to exit containment, removing PPE within the decon.
02:00	BNB crew break for lunch.
03:00	BNB crew return from lunch.
04:30	Work continues to move forward, no issues to report at this time. BNB 2 man crew continue to work inside the containment install ceiling frame for new plaster ceiling for the restrooms.
05:45	BNB crew begin to exit out of containment.
05:48	At this time Omega begin to demobilize perimeter air samples.
06:15	Omega + ECG supervisor inspect the containment to check it's integrity. *Note: Containment is in good condition.
06:30	BNB, ECG + Omega are off site, shift has ended for today.

Omega Site Representative Signature: Jesse Sanchez & Navid Salari	01/29/2019
---	------------



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@lateesting.com

LA Testing Order: 331902105

Customer ID: OMEG34

Customer PO:

Project ID:

Attention: Navid Salari
Omega Environmental Services, Inc.
4570 Campus Drive
Suite 30
Newport Beach, CA 92660

Phone: (949) 302-6826

Fax:

Received Date: 02/01/2019 13:40 PM

Analysis Date: 02/04/2019

Collected Date: 01/30/2019

Project: 2019-3247UCI / Rowland Hall Irvine, CA 92697

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
01	5th floor - restroom containment, negative air exhaust	01/30/2019	896.4	<5.5	100	0.003	<7.01	<0.003	
331902105-0001									
02	5th floor - restroom containment, outside decon hallway	01/30/2019	1270	14.2	100	0.002	18.1	0.005	
331902105-0002									
03	5th floor - restroom containment in front of room #540 & #539	01/30/2019	1270	15.8	100	0.002	20.1	0.006	
331902105-0003									
04	Blank	01/30/2019		<5.5	100		<7.01		Field Blank
331902105-0004									
05	Blank	01/30/2019		<5.5	100		<7.01		Field Blank
331902105-0005									

The results reported have been blank corrected as applicable.

Analyst(s):
Dennies Ly PCM 5

Michael DeCavallas, Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.39, 21-50 fibers = 0.25, 51-100 fibers = 0.22. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.32. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. LA Testing maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in acceptable condition unless otherwise noted. Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 02/04/2019 13:39 PM

#331902105

Air Sample Data Sheet



Project Number: 2019-3247UCI

Project Site Address: Rowland Hall Irvine, CA 92697

Sample Date: January 30, 2019

Analysis Method: NIOSH 7400

Analysis by:

Date Analyzed:

Z. W. Kat

Sample ID: 01	Start time: 23:55	End time: 05:55
Sample location: 5th Floor - Restroom	Flow rate (LPM): 2.49	
containment, Negative air exhaust	Total time: 360	Total volume: 896.4
Fibers:		
Fields:		
f/cc:		
Sample ID: 02	Start time: 24:09	End time: 02:09
Sample location: 5th Floor - Restroom	Flow rate (LPM): 10.58	
containment, outside decon. hallway	Total time: 120	Total volume: 1,270
Fibers:		
Fields:		
f/cc:		
Sample ID: 03	Start time: 24:05	End time: 02:05
Sample location: 5th Floor - Restroom	Flow rate (LPM): 10.58	
containment in front of room # 540 & # 539	Total time: 120	Total volume: 1,270
Fibers:		
Fields:		
f/cc:		
Sample ID: 04	Start time: *	End time: *
Sample location: Blank	Flow rate (LPM): *	
	Total time: *	Total volume: *
Fibers:		
Fields:		
f/cc:		

Sampler name (print): Jesse Sanchez & Navid Salari

Signature: Jesse Sanchez & Navid Salari

Page 01 of 02

Air Sample Data Sheet



Project Number: 2019-3247UCI
Project Site Address: Rowland Hall Irvine, CA 92697
Sample Date: January 30, 2019
Analysis Method: NIOSH 7400
Analysis by:
Date Analyzed:

Sample ID: 05	Start time: *	End time: *
Sample location: Blank	Flow rate (LPM): *	
	Total time: *	Total volume: *
Fibers:		
Fields:		
f/cc:		
Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Fibers:		
Fields:		
f/cc:		
Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Fibers:		
Fields:		
f/cc:		
Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Fibers:		
Fields:		
f/cc:		

Sampler name (print): Jesse Sanchez & Navid Salari
Signature: Jesse Sanchez & Navid Salari



Project Number: 2018-3247UCI	Date :01/30/2019
Project Name: Rowland Hall	Omega Representative: Jesse Sanchez & Navid Salari
Project Address: Rowland Hall #400 Irvine, CA UCI	Company: ECG + BNB
Client Contact:	Contact:
Client Phone #:	Contact#:

TIME AND ACTIVITY

22:00	Omega + ECG supervisor arrive on site to begin today's work shift. At this time BNB have not yet arrived on site.
23:00	BNB arrive on site at this time. BNB crew begin to mobilize equipment to the 5th floor.
23:50	BNB begin to put on their PPE + Half-face respirator. Scope of Work: BNB 2 man crew will be entering the containment to begin installing drywall for the restroom ceiling.
23:55	At this time Omega mobilize and set up perimeter air samples.
01:55	BNB begin to exit out of containment.
02:00	Crew break for lunch.
03:00	Crew return from lunch.
03:10	At this time BNB 2 man crew continue to install drywall for restroom ceiling, wearing proper PPE + half-face respirator.
04:30	Work continues to move forward, no issues to report at this time. BNB 2 man crew continue to install drywall for restroom ceiling.
05:30	BNB 2 man crew begin to exit out of containment, removing their protective suit within the decon.
05:55	Omega begin to demobilize perimeter air samples at this time.
06:00	Omega + ECG begin to inspect the containment to check its integrity. *Note: containment is in good condition.
06:30	At this time shift has ended ECG, Omega + BNB off site.

Omega Site Representative Signature: Jesse Sanchez & Navid Salari	01/30/2019
---	------------



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@lateesting.com

LA Testing Order: 331902100

Customer ID: OMEG34

Customer PO:

Project ID:

Attention: Navid Salari
Omega Environmental Services, Inc.
4570 Campus Drive
Suite 30
Newport Beach, CA 92660

Phone: (949) 302-6826

Fax:

Received Date: 02/01/2019 13:40 PM

Analysis Date: 02/04/2019

Collected Date: 01/31/2019

Project: 2019-3247UCI / Rowland Hall Irvine, CA 92697

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
01	5th floor - restroom containment, negative air exhaust	01/31/2019	896.4	<5.5	100	0.003	<7.01	<0.003	
331902100-0001									
02	5th floor - restroom containment, outside decon. hallway	01/31/2019	1270	8.5	100	0.002	10.8	0.003	
331902100-0002									
03	5th floor - restroom containment, outside decon. hallway	01/31/2019	1270	27	100	0.002	34.4	0.010	
331902100-0003									

This method requires the submission of field blanks with each sample set. No discernable field blanks were submitted, samples are not blank corrected.

Analyst(s):
Dennies Ly PCM 3

Michael DeCavallas, Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.39, 21-50 fibers = 0.25, 51-100 fibers = 0.22. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.32. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. LA Testing maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in acceptable condition unless otherwise noted. Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC-IHLAP Accredited #101650

Initial report from: 02/04/2019 13:47 PM

#331902100

Air Sample Data Sheet

Project Number: **2019-3247UCI**

Project Site Address: Rowland Hall Irvine, CA 92697

Sample Date: **January 31, 2019**Analysis Method: **NIOSH 7400**

Analysis by:

Date Analyzed:

24 hr. Tank

Sample ID: 01	Start time: 24:13	End time: 06:13
Sample location: 5th Floor - Restroom	Flow rate (LPM): 2.49	
containment, Negative air exhaust	Total time:	Total volume:
Fibers:		
Fields:		
f/cc:		

Sample ID: 02	Start time: 24:15	End time: 02:15
Sample location: 5th Floor - Restroom	Flow rate (LPM): 10.58	
containment, outside decon. hallway	Total time: 120	Total volume: 1,270
Fibers:		
Fields:		
f/cc:		

Sample ID: 03	Start time: 02:16	End time: 04:16
Sample location: 5th Floor - Restroom	Flow rate (LPM): 10.58	
containment, outside decon. hallway	Total time: 120	Total volume: 1,270
Fibers:		
Fields:		
f/cc:		

Sample ID:	Start time: *	End time: *
Sample location:	Flow rate (LPM): *	
	Total time: *	Total volume: *
Fibers:		
Fields:		
f/cc:		

Sampler name (print): **Jesse Sanchez**Signature: **Jesse Sanchez**

received: SP (WF)

2-1-19 @ 1:40 PM

Page 1 of 1



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 4570 Campus Drive, Suite 30
 Newport Beach, California 92660
 Phone: (949) 252-2145, Fax: (949) 252-2148

Daily Field Log

Page #

Project Number: 2019-3247UCI	Date: 01/31/2019
Project Name: Rowland Hall	Omega Representative: Jesse Sanchez & Navid Salari
Project Address: Rowland Hall #400 Irvine, CA UCI	
Client Contact:	
Client Phone #:	

TIME AND ACTIVITY

2200	Omega + ECG supervisor arrive on site to begin todays work shift. BNB are not on site at this time.
2300	BNB arrive on site to begin todays work shift. BNB at this time are mobilizing equipment before entering Containment. Scope of work: BNB will enter containment to install dry wall ceiling, 2 man crew.
2400	BNB enter containment to begin todays work. BNB will also briefly clean their mess as the work proceeds.
2413	Omega mobilize and set up perimeter air samples.
0130	At this time no issues to report, work continues to move forward. Containment integrity is in good condition.
0200	Crew break for lunch.
0300	Crew return from lunch.
0305	BNB enter containment wearing proper PPE + Half-face respirator to continue installing dry wall ceiling in the Restroom containment.
0440	Omega + ECG supervisor walk outside the containment to visual inspection outside the containment + the Containments negative pressure. No concerns at this time.
0530	No issues to report at this time work continues to move forward. BNB are still inside the containment.
0610	BNB begin to exit containment through the decontamination room.
0613	Omega begin to demobilize perimeter air samples + ECG inspect the integrity of the containment.
0630	Omega, ECG + BNB off site, shift ended for today. Integrity of the containment is in good condition.

Omega Site Representative Signature: Jesse Sanchez & Navid Salari

Date: 01/31/2019



LA Testing

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<http://www.LATesting.com> / gardengrovelab@lateesting.com

LA Testing Order: 331902256

Customer ID: OMEG34

Customer PO:

Project ID:

Attention: Navid Salari
Omega Environmental Services, Inc.
4570 Campus Drive
Suite 30
Newport Beach, CA 92660

Phone: (949) 302-6826

Fax:

Received Date: 02/05/2019 08:25 AM

Analysis Date: 02/05/2019

Collected Date: 02/01/2019

Project: 2019-3247UCI - Rowland Hall Irvine/ CA 92697

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
01	5th floor - restroom cont. Neg air exhaust	02/01/2019	1096.16	<5.5	100	0.001	<7.01	<0.001	
331902256-0001									
02	5th floor - restroom cont. outside decon	02/01/2019	1270	70	100	0.002	89.2	0.027	
331902256-0002									
03	5th floor - restroom cont. outside decon	02/01/2019	1270	19	100	0.002	24.2	0.007	
331902256-0003									

This method requires the submission of field blanks with each sample set. No discernable field blanks were submitted, samples are not blank corrected.

Analyst(s):
Larry Kolk PCM 3

Michael DeCavallas, Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.39, 21-50 fibers = 0.25, 51-100 fibers = 0.22. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.32. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. LA Testing maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in acceptable condition unless otherwise noted. Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 02/05/2019 19:59 PM



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LA Testing Order: 331902256

Customer ID: OMEG34

Customer PO:

Project ID:

Attention: Navid Salari
Omega Environmental Services, Inc.
4570 Campus Drive
Suite 30
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Phone: (949) 302-6826

Fax:

Received Date: 02/05/2019 08:25 AM

Analysis Date: 04/02/2019

Collected Date: 02/01/2019

Project: Reference 331902256 2019-3247UCI - Rowland Hall Irvine/ CA 92697

Test Report:Asbestos Analysis of Air Samples by Transmission Electron Microscopy via NIOSH Method 7402

Sample	Volume (Liters)	Non Asbestos Fibers	Asbestos Type(s)	Asbestos Fibers	PCM F/cc	*Asbestos % of total	7402 Adjusted (TEM) F/cc	Notes
02	1270	6.5	None Detected		0.027	0 %	<0.0021	

331902256-0002

NIOSH 7402 method only reports fibers > 5µm in length and > 0.25µm in width.

This method requires a minimum of 2 field blank analyses per set.

* The above results are not blank corrected.

Average number of asbestos fibers on field blanks: N/A

Average number of non-asbestos fibers on field blanks: N/A

Analyst(s)

Jeffrey Deboo (1)


Michael DeCavallas, Laboratory Manager
or other approved signatory

EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.
Samples analyzed by LA Testing Huntington Beach, CA

X6 hour TAT

#331902256

PCM/TEM Sample Data Sheet

Project Number	: 2019-3247UCI	
Project Site Address	: Rowland Hall Irvine, CA 92697	
Sample Date	: 02-01-2019	
Analysis type	: PCM (NIOSH 7400A) <input checked="" type="checkbox"/> / TEM (NIOSH 7402) <input type="checkbox"/>	
Analysis by	: IH Name _____ / Laboratory Name LA Testing	
Date Analyzed	:	

Sample ID: 01	Start time: 20:26	End time: 03:48
Sample location: 5th floor - Restroom	Flow rate (LPM): 2.49	
Cont. Neg Air Exhaust	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

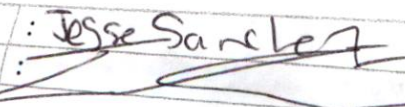
Sample ID: 02	Start time: 20:40	End time: 22:40
Sample location: 5th floor - Restroom	Flow rate (LPM): 10.58	
Cont outside decon	Total time: 120	Total volume: 1,270
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID: 03	Start time: 23:49	End time: 01:49
Sample location: 5th floor - Restroom	Flow rate (LPM): 10.58	
Cont outside decon	Total time: 120	Total volume: 1,270
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample name (print) : Jesse Sanchez
 Signature : 



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Daily Field Log

Page #

Project Number: 2019-3247UCI	Date: 02/01/2019
Project Name: Rowland Hall	Omega Representative: Jesse Sanchez & Navid Salari
Project Address: Rowland Hall #400 Irvine, CA UCI	
Client Contact:	
Client Phone #:	

TIME AND ACTIVITY

2000	Omega, ECG + BNB arrive on site to begin today's work shift. Scope of work: BNB will enter containment wearing proper PPE + Half-face respirator to continue installing dry wall ceiling. BNB are nearly complete with installing the ceiling. After BNB complete installing the ceiling ECG supervisor will enter containment to visually inspect the area to then begin clean-up.
2020	At this time BNB have mobilized equipment from their equipment pit and begin to put on their PPE + Half-face Respirators.
2026	Omega mobilize and set up samples.
2140	At this time there are no issues to report, work continues to move forward.
2340	ECG + Omega visual inspect the outside of the containment, no issues to report, the integrity is in good condition.
2400	Crew break for lunch.
0100	Crew return from lunch.
0110	BNB enter containment wearing proper PPE + Half-face respirator to continue installing dry wall ceiling.
0230	BNB are still working within the containment at this time. No issues to report at this time. BNB continue to install dry wall ceiling.
0330	BNB begin to exit out of containment through the decon.
0348	Omega demobilize perimeter air samples. ECG supervisor enters containment to visually check the work area for next work shift.
0400	ECG, BNB, + Omega off site shift ended for today. ECG will clean the work area next work shift.,

Omega Site Representative Signature: Jesse Sanchez & Navid Salari	Date: 02/01/2019
---	------------------



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<http://www.LATesting.com> / gardengrovelab@lateesting.com

LA Testing Order: 331902255

Customer ID: OMEG34

Customer PO:

Project ID:

Attention: Navid Salari
Omega Environmental Services, Inc.
4570 Campus Drive
Suite 30
Newport Beach, CA 92660

Phone: (949) 302-6826

Fax:

Received Date: 02/05/2019 08:25 AM

Analysis Date: 02/05/2019

Collected Date: 02/04/2019

Project: 2019-3247UCI - Rowland Hall Irvine/ CA 92697

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
01	5th floor - restroom cont. neg. air exhaust	02/04/2019	1157.84	10	100	0.001	12.7	0.002	
331902255-0001									
02	5th floor - restroom cont. outside decon. Hallway	02/04/2019	1270	77	100	0.002	98.1	0.030	
331902255-0002									
03	5th floor - restroom hallway in front of rooms 539,540	02/04/2019	1270	11	100	0.002	14.0	0.004	
331902255-0003									
04	Blank	02/04/2019		<5.5	100		<7.01		Field Blank
331902255-0004									

The results reported have been blank corrected as applicable.

Analyst(s): _____

Larry Kolk PCM 4

Michael DeCavallas, Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.39, 21-50 fibers = 0.25, 51-100 fibers = 0.22. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.32. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. LA Testing maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in acceptable condition unless otherwise noted. Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 02/05/2019 13:59 PM



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LA Testing Order: 331905089

Customer ID: OMEG34

Customer PO:

Project ID:

Attention: Navid Salari
Omega Environmental Services, Inc.
4570 Campus Drive
Suite 30
Newport Beach, CA 92660

Phone: (949) 302-6826

Fax:

Received Date: 03/13/2019 12:28 PM

Analysis Date: 03/13/2019

Collected Date: 02/04/2019

Project: Reference 331902255 2019-3247UCI-Rowland Hall Irvine/ CA 92697

Test Report:Asbestos Analysis of Air Samples by Transmission Electron Microscopy via NIOSH Method 7402

Sample	Volume (Liters)	Non Asbestos Fibers	Asbestos Type(s)	Asbestos Fibers	PCM F/cc	*Asbestos % of total	7402 Adjusted (TEM)	Notes
02	1270	14.0	None Detected		0.03	0 %	<0.0021	

331905089-0001

NIOSH 7402 method only reports fibers > 5µm in length and > 0.25µm in width.

This method requires a minimum of 2 field blank analyses per set.

* The above results are not blank corrected.

Average number of asbestos fibers on field blanks: N/A

Average number of non-asbestos fibers on field blanks: N/A

Analyst(s)

Larry Kolk (1)

Michael DeCavallas, Laboratory Manager
or other approved signatory

EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.
Samples analyzed by LA Testing Huntington Beach, CA

*6 Hour TAT

#331902255

PCM/TEM Sample Data Sheet



Project Number	: 2019-3247UCI
Project Site Address	: Rowland Hall Irvine, CA 92697
Sample Date	: 02-04-2019
Analysis type	: PCM (NIOSH 7400A) <input checked="" type="checkbox"/> / TEM (NIOSH 7402) <input type="checkbox"/>
Analysis by	: IH Name _____ / Laboratory Name <u>LA Testing</u>
Date Analyzed	:

Sample ID: 01	Start time: 22:50	End time: 06:35
Sample location: 5th Floor - Restroom	Flow rate (LPM): 2.49	
Cont., Neg. Air Exhaust	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID: 02	Start time: 22:55	End time: 24:55
Sample location: 5th Floor - Restroom	Flow rate (LPM): 10.58	
Cont. Outside Decan. Hallway	Total time: 120	Total volume: 1,270
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID: 03	Start time: 22:56	End time: 24:56
Sample location: 5th Floor Restroom	Flow rate (LPM): 10.58	
Hallway in front of Rooms 539, 540	Total time: 120	Total volume: 1,270
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID: 04	Start time: *	End time: *
Sample location: Blank	Flow rate (LPM): *	
	Total time: *	Total volume: *
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample name (print)	: Jesse Sanchez
Signature	:
Reid J. W. Page 01 of 01	

Log

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Newport Beach, California 92660

Phone: (949) 252-2145, Fax: (949) 252-2148

Page 01 of 2

Project Number: 2019-3247UCI	Date:02/04/2019
Project Name: Rowland Hall	Omega Representative: Jesse Sanchez & Navid Salari
Project Address: Rowland Hall #400 Irvine, CA UCI	Company: ECG
Client Contact:	Contact:
Client Phone #:	Contact#:

TIME AND ACTIVITY

22:00	ECG, Forensic Analytical + Omega arrive on site to begin todays work shift. Scope of work: ECG, which consist of a 2 man crew + 1 supervisor will be cleaning the restroom containment on the 5th floor. Omega + Forensic will enter the containment to give visual inspection for ECG to encapsulate the work area.
22:10	ECG begin to mobilize their equipment to the 5th floor to enter the containment.
22:40	ECG 2 man crew enter containment wearing proper PPE + Half-face respirator.
22:50	Omega mobilize & set up perimeter air samples. Forensic Analytical also set up high flow air pumps for side by side sampling.
23:30	At this time ECG begin to load out waste bags from inside the containment to the metal dumpster. Omega reminds to clean the waste bags before loading them out.
24:30	Work continues to move forward, 1 BNB worker enters containment wearing proper PPE + Half-face respirator to conduct work on the door. ECG continue to clean the work area.
24:55	Omega begin to demobilize high flow perimeter samples + Forensic. Omega still has 1 low flow air pump running at the negative air exhaust.
01:45	At this time ECG begin to exit out of containment.
02:00	Crew break for lunch.
03:00	Crew return from lunch.
03:10	ECG enter containment wearing proper PPE + Half-face respirator to continue cleaning inside the containment.
04:30	At this time work continues to move forward, no issues to report at this time. ECG continue to clean the work area.
05:30	ECG request visual inspection of the containment.

Omega Site Representative Signature: Jesse Sanchez & Navid Salari

02/04/2019

TIME AND ACTIVITY

05:45 **Omega + Forensic enter containment wearing proper PPE + Respirators.**

06:00 **At this time ECG begin to encapsulate the work area. Containment had minor issues with debris & moisture, but Omega, ECG + Forensic walk through the containment together to repair any issues. Area passed after minor repairs. *Note: Omega + Forensic exit out of containment.**

06:35 **At this time Omega begin to demobilize perimeter air samples. ECG containment to clean outside of the containment, which consist of sweeping & demobilizing equipment.**

07:00 **Shift has ended for today. ECG + Omega & Forensic off site, containment remains up while the encapsulation settles. Omega + Forensic will return to conduct final air clearance.**

Omega Site Representative Signature: Jesse Sanchez & Navid Salari

02/04/2019



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LA Testing Order: 331902356

Customer ID: OMEG34

Customer PO:

Project ID:

Attention: Navid Salari
Omega Environmental Services, Inc.
4570 Campus Drive
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Phone: (949) 302-6826

Fax:

Received Date: 02/06/2019 09:30 AM

Analysis Date: 02/06/2019

Collected Date: 02/06/2019

Project: 2019-3247UCI

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
1 331902356-0001	Mens restroom SE region	02/06/2019	1200	<5.5	100	0.002	<7.01	<0.002	
2 331902356-0002	Mens restroom center region	02/06/2019	1200	<5.5	100	0.002	<7.01	<0.002	
3 331902356-0003	Hallway between restrooms	02/06/2019	1200	<5.5	100	0.002	<7.01	<0.002	
4 331902356-0004	Womens room NE region	02/06/2019	1200	<5.5	100	0.002	<7.01	<0.002	
5 331902356-0005	Womens room center region	02/06/2019	1200	5.5	100	0.002	7.01	0.002	
6 331902356-0006	Lab blank	02/06/2019		<5.5	100		<7.01		Lab Blank
7 331902356-0007	Field blank	02/06/2019		<5.5	100		<7.01		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s): _____

Larry Kolk PCM 7

Michael DeCavallas, Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.39, 21-50 fibers = 0.25, 51-100 fibers = 0.22. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.32. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. LA Testing maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in acceptable condition unless otherwise noted. Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 02/06/2019 13:36 PM

RUSH



Asbestos Chain of Custody
LA Testing Order Number (Lab Use Only):

#331902356

LA TESTING
 5431 INDUSTRIAL DRIVE
 HUNTINGTON BEACH, CA
 92649
 PHONE: (714) 828-4999
 FAX: (714) 828-4944

Company: <u>Omega Environmental</u>		EMSL Customer ID:	
Street: <u>4570 Campus Dr, Ste 30</u>		City: <u>Newport Beach</u>	State/Province: <u>CA</u>
Zip/Postal Code:	Country:	Telephone #:	Fax #:
Report To (Name): <u>Navid Salari</u>		Please Provide Results: <input type="checkbox"/> Fax <input type="checkbox"/> Email	
Email Address: <u>Navid@Omegagenv.com</u>		Purchase Order:	
Project Name/Number: <u>2019-3247001</u>		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	
U.S. State Samples Taken:		EMSL Project ID (Internal Use Only):	

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 Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For TEM Air 3 hours through 6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with LA Testing's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> Check if samples are from NY <input checked="" type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NYS 198.8 SOF-V <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM- Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) Other: <input type="checkbox"/>
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Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm


Samplers Name: _____ Samplers Signature: _____

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	See Attached		
	7 PCM		

Client Sample # (s): <u>1 - 7</u>	Total # of Samples: <u>7</u>
Relinquished (Client): <u>[Signature]</u>	Date: <u>2/10/19</u> Time: <u>0930</u>
Received (Lab): <u>SP(UA)</u>	Date: <u>2-10-19</u> Time: <u>9:30AM</u>
Comments/Special Instructions:	

#331002356

PCM Sample Data Sheet

Project Number	: 2019-3247 UCI	
Project Site Address	: Rawland Hall Bldg 400 UCI Irvine 5th fl	
Sample Date	: 2/6/19	
Analysis type	: PCM (NIOSH 7400A) <input checked="" type="checkbox"/>	
Analysis by	: IH Name _____ / Laboratory Name _____	
Date Analyzed	:	

Sample ID: 1	Start time: 0503	End time: 0703
Sample location: Mens Restroom SE Region	Flow rate (LPM): 10.0	
Work activity: Clearance	Total time: 120	Total volume: 1200
	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	


Sample ID: 2	Start time: 0503	End time: 0503
Sample location: Mens Restroom Center Region	Flow rate (LPM): 10.0	
Work activity: Clearance	Total time: 120	Total volume: 1200
	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample ID: 3	Start time: 0504	End time: 0504
Sample location: Hallway between Restrooms	Flow rate (LPM): 10.0	
Work activity: Clearance	Total time: 120	Total volume: 1200
	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	


Sample ID: 4	Start time: 0505	End time: 0505
Sample location: Womens Room NE Region	Flow rate (LPM): 10.0	
Work activity: Clearance	Total time: 120	Total volume: 1200
	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample ID: 5	Start time: 0505	End time: 0505
Sample location: Womens Room Center Region	Flow rate (LPM): 10.0	
Work activity: Clearance	Total time: 120	Total volume: 1200
	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample ID: 6	Start time: N/A	End time:
Sample location: Lab Blank	Flow rate (LPM):	
Work activity:	Total time: N/A	Total volume:
	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample name (print)	: Jacquie Cole	
Signature	: 	Page 1 of 2

PCM Sample Data Sheet

Project Number	: 2019-3247 UC1	
Project Site Address	: Rowland Hall Bldg 400 UC1 Irvine	
Sample Date	: 2/6/19	
Analysis type	: PCM (NIOSH 7400A) <input checked="" type="checkbox"/>	
Analysis by	: IH Name _____ / Laboratory Name _____	
Date Analyzed	:	

Sample ID: 7	Start time: N/A	End time:
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID:	Start time:	End time:
Sample location:	Flow rate (LPM):	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample name (print)	: Jacquie Cole	
Signature	: 	Page 2 of 2



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

LA Testing Huntington Beach

5431 Industrial Drive, Huntington Beach, CA 92649

Laboratory ID: 101650

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|---|--------------------------------------|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: June 01, 2020 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: June 01, 2020 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: June 01, 2020 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> UNIQUE SCOPES | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Elizabeth Bair

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

LA Testing Huntington Beach
 5431 Industrial Drive, Huntington Beach, CA 92649

Laboratory ID: **101650**
 Issue Date: 09/28/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 08/01/1981

IHLAP Scope Category	Field of Testing (FoT) (FoTs cover all relevant IH matrices)	Technology sub-type/ Detector	Published Reference Method/ Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>	
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1003 Modified		
			NIOSH 1005		
			NIOSH 1007		
			NIOSH 1400 Modified		
			NIOSH 1500		
			NIOSH 1501		
			NIOSH 1550		
			NIOSH 2000 Modified		
			NIOSH 2500 Modified		
			NIOSH 2546 Modified		
			OSHA 109		
			OSHA 91		
		GC/ECD	NIOSH 5503		
		GC/MS	EPA TO-15		
	Gas Chromatography (Diffusive Samplers)			NIOSH 1500	
				NIOSH 1501 Modified	
				OSHA 1001	
				OSHA 1014	
	Ion Chromatography (IC)			NIOSH 6004 Modified	
				NIOSH 6011	
NIOSH 6013					
NIOSH 6016					
NIOSH 7903					
NIOSH 7906					
		NIOSH 7907			
IHLAP Scope Category	Field of Testing (FoT) (FoTs cover all relevant	Technology sub-type/ Detector	Published Reference Method/ Title of In-	Method Description or Analyte	



	IH matrices)	Detector	house Method	(for internal methods only)
Chromatography Core	Ion Chromatography (IC)		NIOSH 7908	
			OSHA 1008	
			OSHA ID-113	
			OSHA ID-165SG	
			OSHA ID-182	
			OSHA ID-188	
			OSHA ID-214	
			OSHA ID-215 Rev 2	
	Liquid Chromatography	HPLC/UV	NIOSH 2016 Modified	
			NIOSH 2532	
			NIOSH 5042 Modified	
			NIOSH 5506	
			OSHA 1007	
			OSHA 42	
OSHA 47				
OSHA 58 Modified				
Spectrometry Core	Atomic Absorption	CVAA	NIOSH 6009 Modified	
	Inductively-Coupled Plasma	ICP/MS	NIOSH 7300 Modified	
		ICP/AES	NIOSH 7303	
	X-ray Diffraction (XRD)		NIOSH 7300 Modified	
			NIOSH 7303	
	UV/VIS (Colorimetric)		NIOSH 7500	
			OSHA ID-142	
			NIOSH 6010	
			NIOSH 6014	
			NIOSH 7600	
			OSHA ID-1019	
	OSHA ID-190			
Asbestos/Fiber Microscopy Core	Phase Contrast Microscopy (PCM)		NIOSH 7400	
Miscellaneous Core	Gravimetric		NIOSH 0500	
			NIOSH 0600	
	Thermo-optical Analysis (TOA)		NIOSH 5040	
Beryllium Testing	Inductively-Coupled Plasma	ICP/MS	NIOSH 7300 Modified	
			NIOSH 7303 Modified	
		ICP/AES	NIOSH 7300 Modified	

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician

Jacqueline M Cole

Name



Certification No. **10-4687**

Expires on **11/17/19**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.



Certificate of Attendance

CERTIFICATE NUMBER

89016

This is to Certify that

JESSE SANCHEZ

Has Completed the Course of

AHERA ASBESTOS ABATEMENT CONTRACTOR/SUPERVISOR 8 HR. REFRESHER COURSE CA-014-04

UNDER TSCA 206, FOR PURPOSES OF COMPLIANCE WITH 29 CFR 1926.1101 AND
TITLE 8 CCR 1529 AND TITLE 8 CCR 5208.

ARMANDO DUCOING

DIRECTOR

August 31, 2018

COMPLETION DATE

E083118CSR

CLASS NUMBER / STARTING DATE

083118

August 31, 2019

CERTIFICATE EXPIRES

Ecologics Training Institute



Certificate of Attendance

CERTIFICATE NUMBER

79041

This is to Certify that

JESSE SANCHEZ

Has Completed the Course of

AHERA ASBESTOS ABATEMENT BUILDING INSPECTOR 4 HR. REFRESHER COURSE CA-014-06

UNDER TSCA 206, FOR PURPOSES OF COMPLIANCE WITH 29 CFR 1926.1101 AND
TITLE 8 CCR 1529 AND TITLE 8 CCR 5208.

ARMANDO DUCOING

DIRECTOR

August 17, 2018

COMPLETION DATE

E081718BIR

CLASS NUMBER / STARTING DATE

081718

August 17, 2019

CERTIFICATE EXPIRES

Ecologics Training Institute