

February 13, 2019

KENNETH C. JANDA
DEAN, SCHOOL OF PHYSICAL SCIENCES

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

Dear Dean Janda,

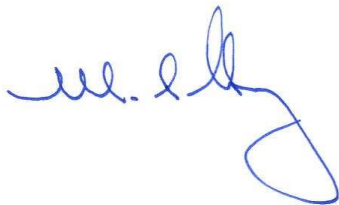
The attached report from Omega Environmental, dated February 11, 2019, provides January 2019 air monitoring results for the fifth floor of Rowland Hall during asbestos-related construction activities. We have reviewed the report, including the air sample measurements. Based on our review, the air sample 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 (**jcshne1@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
Irvine, California 92618

Project Number 2018-3221UCI
February 11, 2019

Prepared For:

Susan Robb
University of California, Irvine
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Irvine, California 92697

Prepared By:

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A handwritten signature in black ink, appearing to read "Navid Salari", written over a horizontal line.

Navid Salari

Sr. Project Manager, CAC #94-1597

A handwritten signature in blue ink, appearing to read "Steve Rosas", written over a horizontal line.

Steve Rosas

Principal, CAC #92-0284



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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) with Omega Environmental Services, Inc. (Omega) on January 1 through January 25, 2019.

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

Environmental Construction Group, Inc., (ECG) the asbestos abatement contractor established regulated areas, using caution tape and asbestos danger signs at the perimeter of the work areas. The contained regulated work areas were constructed of polyethylene sheeting that isolated the work areas from the public environment. Critical barriers of polyethylene sheeting and duct tape were used to seal windows, vents and entrances to each work area. Asbestos warning signs and caution signs were placed at the entrance to the work areas. The regulated areas 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 inspections of the established regulated areas prior to commencement of any spot abatement work. Decontamination units for the abatement workers were located at the perimeter of the work areas. The contained work areas were 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 areas with water as necessary, to minimize airborne fiber concentrations in the work areas. 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 units.

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 inspection ECG misted a coating/encapsulant throughout the contained work areas 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 areas 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 representative is NIOSH-582¹ 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)
1/2/19	1	Negative air exhaust	0.002
1/2/19	2	Room 533/535/hall corner, inside regulated work area / clearance	0.005
1/2/19	3	Room 533/535/hall corner, inside regulated work area / clearance	0.004
1/2/19	4	Room 533/535/hall corner, inside regulated work area / clearance	0.006
1/2/19	5	Center corridor, decon / Cosco install, ECG spot abatement	0.004
1/2/19	6	Hallway at 570-580, decon / Cosco install, ECG spot abatement	0.002
1/2/19	7	North Hallway 571-580, inside regulated work area / clearance	0.004
1/2/19	8	North Hallway 571-580, inside regulated work area / clearance	0.003
1/2/19	9	Room 571, inside regulated work area / clearance	0.002
1/2/19	10	Hallway at room 520 / ceiling tile removal, clean up	0.008
1/2/19	11	Hallway at elevators / ceiling tile removal, spot abatement, Cosco work	0.003
1/2/19	12	Lab blank	0.00
1/2/19	13	Field blank	0.00
1/3/19	1	Negative air exhaust	0.003
1/3/19	2	Room 520, decon / ECG bag out	0.006
1/3/19	3	Center corridor, decon / BNB install	0.004
1/3/19	4	Hallway between elevators / Cosco install	0.004
1/3/19	5	Lab blank	0.00
1/3/19	6	Field blank	0.00
1/4/19	1	Negative air exhaust	0.002
1/4/19	2	Room 520, decon / Cosco install, ECG clean, BNB install	0.004
1/4/19	3	Center corridor, decon / BNB install, ECG clean up	0.002
1/4/19	4	Center corridor inside regulated work area / Clearance	0.006
1/4/19	5	Center corridor inside regulated work area / Clearance	0.004

¹ NIOSH-582 or equivalent - Individual trained to analyze samples by Phase Contrast Microscopy



Date	Sample #	Sample Location / Work Activity	Result (f/cc)
1/4/19	6	Center corridor inside regulated work area / Clearance	0.002
1/4/19	7	Ice machine area, inside regulated work area / clearance	0.003
1/4/19	8	Hall between elevators, inside regulated work area / clearance	0.004
1/4/19	9	Hall between elevators, inside regulated work area / clearance	0.002
1/4/19	10	Lab. blank	0.00
1/4/19	11	Field blank	0.00
1/7/19	1	Lab. Blank	0.00
1/7/19	2	Field blank	0.00
1/7/19	3	Decon area, 518-520 / BNB install, ECG final clean up	0.007
1/10/19	1	Lab blank	0.00
1/10/19	2	Field blank	0.00
1/10/19	3	Decon at restrooms / ECG spot abatement, Cosco install	0.004
1/10/19	4	Negative air exhaust	0.002
1/10/19	5	U5B Decon / ECG spot abatement, Cosco install	0.004
1/10/19	6	U5B, inside regulated work area / clearance	0.001
1/11/19	1	Lab blank	0.00
1/11/19	2	Field blank	0.00
1/11/19	3	Decon at restrooms / ECG, plaster ceiling removal	0.005
1/11/19	4	Negative air exhaust	0.003
1/11/18	5	516, 510 partial hall / ECG ceiling tile removal	0.004
1/14/19	1	Lab blank	0.00
1/14/19	2	Field blank	0.00
1/14/19	3	Decon at restroom / ECG, plaster ceiling removal	0.006
1/14/19	4	Negative air exhaust	0.003
1/14/19	5	516, 510 partial hall / Cosco install	0.007
1/15/19	1	Lab blank	0.00
1/15/19	2	Field blank	0.00
1/15/19	3	Decon at restroom / ECG, spot abatement	0.004
1/15/19	4	Negative air exhaust	0.002
1/15/19	5	516, 510 partial hall / Cosco install, ECG clean, BNB ceiling tile install	0.003
1/16/19	1	Lab blank	0.00
1/16/19	2	Field blank	0.00
1/16/19	3	Decon at restroom / Cosco install	0.006
1/16/19	4	Negative air exhaust	0.003
1/16/19	5	516, 510 partial hall / BNB install, ECG final clean up	0.003
1/16/19	6	Room 516, inside regulated work area / clearance	0.002
1/16/19	7	510 hall, inside regulated work area / clearance	0.005



Date	Sample #	Sample Location / Work Activity	Result (f/cc)
1/17/19	1	Lab blank	0.00
1/17/19	2	Field blank	0.00
1/17/19	3	Decon at restroom / Cosco install	0.006
1/17/19	4	Negative air exhaust	0.004
1/17/19	5	Northwest partial hallway entry / ECG ceiling tile removal	0.00
1/18/19	1	Lab blank	0.00
1/18/19	2	Field blank	0.00
1/18/19	3	Decon at restroom / Cosco install	0.005
1/18/19	4	Negative air exhaust	0.007
1/18/19	5	Northwest partial hallway / Cosco install	0.003
1/22/19	1	Lab blank	0.00
1/22/19	2	Field blank	0.00
1/22/19	3	Northwest partial hall entry / BNB install, ECG final clean up	0.003
1/22/19	4	Negative air exhaust	0.006

Table 2 provides a summary of the prevalent air sample results performed throughout the floors on January 22 and 25, 2019. The purpose of the prevalent air monitoring is to determine fiber concentrations during the normal building operations. The 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). 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.

Table 2 – Prevalent Air Sample Results

Date	Sample #	Sample Location / Work Activity	Result (f/cc)
1/22/19	01	4 th floor hallway in front of room 420 & 419	0.003
1/22/19	02	4 th floor hallway in front of elevator	0.007
1/22/19	03	4 th floor hallway in front of room 439 & 436	0.003
1/22/19	04	5 th floor hallway in front of room 538 & 539	0.002
1/22/19	05	5 th floor hallway in front of room 507 & 508	<0.002
1/22/19	06	5 th floor hallway in front of room 580 & 581	0.003
1/22/19	07	5 th floor hallway in front of room 540	0.002
1/22/19	08	2 nd floor hallway in front of room 290	0.003
1/22/19	09	2 nd floor hallway in front of elevator	0.005
1/22/19	10	2 nd floor hallway in front of room 256	0.004
1/22/19	11	3 rd floor hallway in front of elevator	0.003
1/22/19	12	3 rd floor hallway in front of room 347	0.005
1/22/19	13	3 rd floor hallway in front of room 329	0.007
1/22/19	14	Basement, front of dock hallway	0.002
1/22/19	15	Basement, front of elevator	0.002
1/22/19	16	Basement, NE hallway	<0.002




Date	Sample #	Sample Location / Work Activity	Result (f/cc)
1/22/19	17	1 st floor hallway in front of elevator	<0.002
1/22/19	18	1 st floor hallway in front of room 108 & 107	<0.002
1/22/19	19	1 st floor hallway in front of room 134	<0.002
1/22/19	20	Field blank	0.00
1/22/19	21	Sealed blank	0.00
1/25/19	1	5 th Floor - Room 540, center of suite	0.006
1/25/19	2	4 th Floor - Room 440, center of suite	<0.002
1/25/19	3	4 th floor – men’s restroom	0.002
1/25/19	4	3 rd Floor - Room 340, center of suite	0.004
1/25/19	5	3 rd floor – men’s restroom	0.005
1/25/19	6	2 nd Floor - Room 240, center of suite	<0.002
1/25/19	7	2 nd floor, men’s restroom	0.002
1/25/19	8	Blank	0.00
1/25/19	9	Blank	0.00

Fiber/cc – Fiber per cubic centimeter



Attachment A

PCM/TEM Sample Data Sheet

Project Number	: 2018-3221UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/02/19	
Analysis type	: PCM (NIOSH 7400A) <u> X </u> / TEM (NIOSH 7402) <u> </u>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name <u> </u>	
Date Analyzed	: 1/02/19	

Sample ID: 1	Start time: 0423	End time: 1206
Sample location: Negative air exhaust	Flow rate (LPM): 2.5	
	Total time: 463	Total volume: 1157.5
Work activity:	No of fibers: 5.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.002	
Other comments:		

Sample ID: 2	Start time: 0410	End time: 0530
Sample location: Room 533/535/hall corner	Flow rate (LPM): 15.0	
	Total time: 80	Total volume: 1200
Work activity: Clearance	No of fibers: 14	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.005	
Other comments:		

Sample ID: 3	Start time: 0411	End time: 0531
Sample location: Room 533/535/hall corner	Flow rate (LPM): 15.0	
	Total time: 80	Total volume: 1200
Work activity: Clearance	No of fibers: 12	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
Other comments:		


Sample ID: 4	Start time: 0411	End time: 0531
Sample location: Room 533/535/hall corner	Flow rate (LPM): 15.0	
	Total time: 80	Total volume: 1200
Work activity: Clearance	No of fibers: 15	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.006	
Other comments:		

Sample ID: 5	Start time: 0430	End time: 1157
Sample location: Center corridor decon	Flow rate (LPM): 2.5	
	Total time: 393	Total volume: 982.5
Work activity: Cosco Install, ECG spot abatement	No of fibers: 9.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
Other comments:		

Sample ID: 6	Start time: 0438	End time: 1209
Sample location: Hall at 570-580 decon	Flow rate (LPM): 2.5	
	Total time: 451	Total volume: 1127.5
Work activity:	No of fibers: 6	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.002	
Other comments:		

Sample name (print)	: Jacquie Cole	
Signature	:	Page <u> 1 </u> of <u> 3 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2018-3221UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/02/19	
Analysis type	: PCM (NIOSH 7400A) <u> X </u> / TEM (NIOSH 7402) <u> </u>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name <u> </u>	
Date Analyzed	: 1/02/19	

Sample ID: 7	Start time: 1034	End time: 1154
Sample location: North hallway 571-580	Flow rate (LPM): 15.0	
	Total time: 80	Total volume: 1200
Work activity: Clearance	No of fibers: 12	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
Other comments:		

Sample ID: 8	Start time: 1035	End time: 1155
Sample location: North hallway 571-580	Flow rate (LPM): 15.0	
	Total time: 80	Total volume: 1200
Work activity: Clearance	No of fibers: 8.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		

Sample ID: 9	Start time: 1037	End time: 1157
Sample location: Room 571	Flow rate (LPM): 15.0	
	Total time: 80	Total volume: 1200
Work activity: Clearance	No of fibers: 5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.002	
Other comments:		


Sample ID: 10	Start time: 1052	End time: 1210
Sample location: Hall at 520	Flow rate (LPM): 3.0	
	Total time: 79	Total volume: 234
Work activity: Ceiling tile removal, clean up	No of fibers: 4	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.008	
Other comments:		

Sample ID: 11	Start time: 0623	End time: 1208
Sample location: Hall at elevators	Flow rate (LPM): 2.5	
	Total time: 345	Total volume: 862.5
Work activity: Ceiling tile removal, spot Abatement, Cosco	No of fibers: 6	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		

Sample ID: 12	Start time: N/A	End time:
Sample location: Lab Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample name (print)	: Jacquie Cole	
Signature	:	Page <u> 2 </u> of <u> 3 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2018-3221UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/02/19	
Analysis type	: PCM (NIOSH 7400A) <u> X </u> / TEM (NIOSH 7402) <u> </u>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name <u> </u>	
Date Analyzed	: 1/02/19	

Sample ID: 13	Start time: N/A	End time:
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
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 <u> 3 </u> of <u> 3 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2018-3221UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/03/19	
Analysis type	: PCM (NIOSH 7400A) <u> X </u> / TEM (NIOSH 7402) <u> </u>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name <u> </u>	
Date Analyzed	: 1/03/19	

Sample ID: 1	Start time: 0432	End time: 1208
Sample location: Negative air exhaust	Flow rate (LPM): 2.5	
	Total time: 456	Total volume: 1140
Work activity:	No of fibers: 8	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		

Sample ID: 2	Start time: 0413	End time: 1145
Sample location: Room 520 decon	Flow rate (LPM): 2.5	
	Total time: 452	Total volume: 1130
Work activity: ECG bagout,	No of fibers: 14	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.006	
Other comments:		

Sample ID: 3	Start time: 0423	End time: 1207
Sample location: Center corridor decon	Flow rate (LPM): 2.5	
	Total time: 464	Total volume: 1160
Work activity: BNB install	No of fibers: 10.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
Other comments:		


Sample ID: 4	Start time: 0427	End time: 1206
Sample location: Hall between elevators	Flow rate (LPM): 2.5	
	Total time: 459	Total volume: 1147.5
Work activity: Cosco install	No of fibers: 11	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
Other comments:		

Sample ID: 5	Start time: N/A	End time:
Sample location: Lab Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 6	Start time: N/A	End time:
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample name (print)	: Jacquie Cole	
Signature	:	Page <u> 1 </u> of <u> 1 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2018-3221UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/04/19	
Analysis type	: PCM (NIOSH 7400A) <input checked="" type="checkbox"/> / TEM (NIOSH 7402) <input type="checkbox"/>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name _____	
Date Analyzed	: 1/04/19	

Sample ID: 1	Start time: 0416	End time: 1035
Sample location: Negative air exhaust	Flow rate (LPM): 2.5	
	Total time: 379	Total volume: 947.5
Work activity:	No of fibers: 4	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.002	
Other comments:		

Sample ID: 2	Start time: 0412	End time: 1159
Sample location: Room 520 decon	Flow rate (LPM): 2.5	
	Total time: 467	Total volume: 1167.5
Work activity: Cosco install, ECG clean	No of fibers: 11	No of fields: 100
BNB install	Airborne fiber concentration (fibers/cc): 0.004	
Other comments:		

Sample ID: 3	Start time: 0423	End time: 0921
Sample location: Center corridor decon	Flow rate (LPM): 2.5	
	Total time: 298	Total volume: 745
Work activity: BNB install, ECG clean	No of fibers: 4	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.002	
Other comments:		


Sample ID: 4	Start time: 0746	End time: 0906
Sample location: Center corridor	Flow rate (LPM): 15.0	
	Total time: 80	Total volume: 1200
Work activity: Clearance	No of fibers: 17	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.006	
Other comments:		

Sample ID: 5	Start time: 0747	End time: 0907
Sample location: Center corridor	Flow rate (LPM): 15.0	
	Total time: 80	Total volume: 1200
Work activity: Clearance	No of fibers: 11	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
Other comments:		

Sample ID: 6	Start time: 0747	End time: 0907
Sample location: Center Corridor	Flow rate (LPM): 15.0	
	Total time: 80	Total volume: 1200
Work activity: Clearance	No of fibers: 7	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.002	
Other comments:		

Sample name (print)	: Jacquie Cole	
Signature	:	Page <u> 1 </u> of <u> 2 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2018-3221UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/04/19	
Analysis type	: PCM (NIOSH 7400A) <u> X </u> / TEM (NIOSH 7402) _____	
Analysis by	: IH Name Jacquie Cole / Laboratory Name _____	
Date Analyzed	: 1/04/19	

Sample ID: 7	Start time: 0740	End time: 0903
Sample location: Ice machine area	Flow rate (LPM): 15.0	
	Total time: 83	Total volume: 1245
Work activity: Clearance	No of fibers: 9	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		

Sample ID: 8	Start time: 0735	End time: 0900
Sample location: Between Elevators	Flow rate (LPM): 15.0	
	Total time: 85	Total volume: 1275
Work activity: Clearance	No of fibers: 11	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
Other comments:		

Sample ID: 9	Start time: 0736	End time: 0900
Sample location: Between Elevators	Flow rate (LPM): 15.0	
	Total time: 84	Total volume: 1260
Work activity: Clearance	No of fibers: 6	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.002	
Other comments:		


Sample ID: 10	Start time: N/A	End time:
Sample location: Lab Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 11	Start time: N/A	End time:
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
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 <u> 2 </u> of <u> 2 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2018-3221UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/07/19	
Analysis type	: PCM (NIOSH 7400A) <u> X </u> / TEM (NIOSH 7402) <u> </u>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name <u> </u>	
Date Analyzed	: 1/07/19	

Sample ID: 1	Start time: N/A	End time: N/A
Sample location: Lab Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 2	Start time: N/A	End time: N/A
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 3	Start time: 0410	End time: 0744
Sample location: 518-520 decon	Flow rate (LPM): 3.0	
	Total time: 214	Total volume: 642
Work activity: BNB install, ECG final clean up	No of fibers: 10	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.007	
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 <u> 1 </u> of <u> 1 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2018-3221UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/10/19	
Analysis type	: PCM (NIOSH 7400A) <u> X </u> / TEM (NIOSH 7402) <u> </u>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name <u> </u>	
Date Analyzed	: 1/10/19	

Sample ID: 1	Start time: N/A	End time: N/A
Sample location: Lab Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 2	Start time: N/A	End time: N/A
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 3	Start time: 0437	End time: 1201
Sample location: Decon at restrooms	Flow rate (LPM): 2.5	
	Total time: 444	Total volume: 1110
Work activity: Plaster ceiling/fireproofing debris removal	No of fibers: 11	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
Other comments:		


Sample ID: 4	Start time: 0441	End time: 1202
Sample location: Negative air exhaust	Flow rate (LPM): 2.5	
	Total time: 441	Total volume: 1102.5
Work activity:	No of fibers: 6	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.002	
Other comments:		

Sample ID: 5	Start time: 0636	End time: 1156
Sample location: U5B Decon	Flow rate (LPM): 2.5	
	Total time: 320	Total volume: 800
Work activity: ECG spot abatement, Cosco install	No of fibers: 7	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
Other comments:		

Sample ID: 6	Start time: 1027	End time: 1147
Sample location: U5B	Flow rate (LPM): 15.0	
	Total time: 80	Total volume: 1200
Work activity: Clearance	No of fibers: 4	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.001	
Other comments:		

Sample name (print)	: Jacquie Cole	
Signature	:	Page <u> 1 </u> of <u> 1 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2018-3221UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/11/19	
Analysis type	: PCM (NIOSH 7400A) <u> X </u> / TEM (NIOSH 7402) _____	
Analysis by	: IH Name Jacquie Cole / Laboratory Name _____	
Date Analyzed	: 1/11/19	

Sample ID: 1	Start time: N/A	End time: N/A
Sample location: Lab Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 2	Start time: N/A	End time: N/A
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 3	Start time: 0423	End time: 1157
Sample location: Decon at restrooms	Flow rate (LPM): 2.5	
	Total time: 454	Total volume: 1135
Work activity: ECG – plaster ceiling removal	No of fibers: 12	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.005	
Other comments:		


Sample ID: 4	Start time: 0424	End time: 1159
Sample location: Negative air exhaust	Flow rate (LPM): 2.5	
	Total time: 455	Total volume: 1137.5
Work activity:	No of fibers: 7.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		

Sample ID: 5	Start time: 0704	End time: 1120
Sample location: 516, 510 partial hall	Flow rate (LPM): 2.5	
	Total time: 256	Total volume: 640
Work activity: ECG – plaster ceiling removal	No of fibers: 6	No of fields:
	Airborne fiber concentration (fibers/cc): 0.004	
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 <u> 1 </u> of <u> 1 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2019-3247UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/14/19	
Analysis type	: PCM (NIOSH 7400A) <input checked="" type="checkbox"/> / TEM (NIOSH 7402) <input type="checkbox"/>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name _____	
Date Analyzed	: 1/14/19	

Sample ID: 1	Start time: N/A	End time: N/A
Sample location: Lab Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 2	Start time: N/A	End time: N/A
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 3	Start time: 0456	End time: 1117
Sample location: Decon at restrooms	Flow rate (LPM): 2.5	
	Total time: 381	Total volume: 952.5
Work activity: ECG – plaster ceiling removal	No of fibers: 13	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.006	
Other comments:		


Sample ID: 4	Start time: 0409	End time: 1115
Sample location: Negative air exhaust	Flow rate (LPM): 2.5	
	Total time: 426	Total volume: 1065
Work activity:	No of fibers: 8	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		

Sample ID: 5	Start time: 0454	End time: 1129
Sample location: 516, 510 partial hall	Flow rate (LPM): 2.5	
	Total time: 358	Total volume: 962.5
Work activity: Cosco install	No of fibers: 15	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.007	
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 <u> 1 </u> of <u> 1 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2019-3247UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/15/19	
Analysis type	: PCM (NIOSH 7400A) <u> X </u> / TEM (NIOSH 7402) <u> </u>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name <u> </u>	
Date Analyzed	: 1/15/19	

Sample ID: 1	Start time: N/A	End time: N/A
Sample location: Lab Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 2	Start time: N/A	End time: N/A
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 3	Start time: 0420	End time: 1149
Sample location: Decon at restrooms	Flow rate (LPM): 2.5	
	Total time: 449	Total volume: 1122.5
Work activity: ECG – spot abatement	No of fibers: 11	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
Other comments:		


Sample ID: 4	Start time: 0421	End time: 1148
Sample location: Negative air exhaust	Flow rate (LPM): 2.5	
	Total time: 447	Total volume: 1117.5
Work activity:	No of fibers: 6	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.002	
Other comments:		

Sample ID: 5	Start time: 0418	End time: 1213
Sample location: 516, 510 partial hall	Flow rate (LPM): 2.5	
	Total time: 475	Total volume: 1187.5
Work activity: Cosco install, ECG clean, BNB	No of fibers: 9	No of fields: 100
Ceiling tile install	Airborne fiber concentration (fibers/cc): 0.003	
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 <u> 1 </u> of <u> 1 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2019-3247UCI	 <p>OMEGA ENVIRONMENTAL EPA/NIOSH/OSHA</p>
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/16/19	
Analysis type	: PCM (NIOSH 7400A) <input checked="" type="checkbox"/> / TEM (NIOSH 7402) <input type="checkbox"/>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name _____	
Date Analyzed	: 1/16/19	

Sample ID: 1	Start time: N/A	End time: N/A
Sample location: Lab Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 2	Start time: N/A	End time: N/A
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 3	Start time: 0429	End time: 1201
Sample location: Decon at restrooms	Flow rate (LPM): 2.5	
	Total time: 452	Total volume: 1130
Work activity: Cosco install	No of fibers: 16	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.006	
Other comments:		


Sample ID: 4	Start time: 0432	End time: 1201
Sample location: Negative air exhaust	Flow rate (LPM): 2.5	
	Total time: 449	Total volume: 1122.5
Work activity:	No of fibers: 9	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		

Sample ID: 5	Start time: 0438	End time: 0925
Sample location: 516, 510 partial hall	Flow rate (LPM): 2.5	
	Total time: 287	Total volume: 717.5
Work activity: BNB install, ECG final clean up	No of fibers: 5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		

Sample ID: 6	Start time: 0744	End time: 0904
Sample location: 516	Flow rate (LPM): 15.0	
	Total time: 80	Total volume: 1200
Work activity: Clearance	No of fibers: 6	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.002	
Other comments:		

Sample name (print)	: Jacquie Cole	
Signature	:	Page <u> 1 </u> of <u> 2 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2019-3247UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/16/19	
Analysis type	: PCM (NIOSH 7400A) <u> X </u> / TEM (NIOSH 7402) <u> </u>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name <u> </u>	
Date Analyzed	: 1/16/19	

Sample ID: 7	Start time: 0746	End time: 0908
Sample location: 510 Hall	Flow rate (LPM): 15.0	
	Total time: 82	Total volume: 1230
Work activity: Clearance	No of fibers: 13.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.005	
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 <u> 2 </u> of <u> 2 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2019-3247UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/17/19	
Analysis type	: PCM (NIOSH 7400A) <u> X </u> / TEM (NIOSH 7402) <u> </u>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name <u> </u>	
Date Analyzed	: 1/17/19	

Sample ID: 1	Start time: N/A	End time: N/A
Sample location: Lab Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 2	Start time: N/A	End time: N/A
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 3	Start time: 0421	End time: 1129
Sample location: Decon at restrooms	Flow rate (LPM): 2.5	
	Total time: 428	Total volume: 1070
Work activity: Cosco install	No of fibers: 14	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.006	
Other comments:		


Sample ID: 4	Start time: 0424	End time: 1131
Sample location: Negative air exhaust	Flow rate (LPM): 2.5	
	Total time: 427	Total volume: 1067.5
Work activity:	No of fibers: 9.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
Other comments:		

Sample ID: 5	Start time: 0943	End time: 1130
Sample location: Northwest partial hallway entry	Flow rate (LPM): 3.0	
	Total time: 107	Total volume: 321
Work activity: ECG ceiling tile removal	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
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 <u> 1 </u> of <u> 1 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2019-3247UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/18/19	
Analysis type	: PCM (NIOSH 7400A) <input checked="" type="checkbox"/> / TEM (NIOSH 7402) <input type="checkbox"/>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name _____	
Date Analyzed	: 1/18/19	

Sample ID: 1	Start time: N/A	End time: N/A
Sample location: Lab Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 2	Start time: N/A	End time: N/A
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 3	Start time: 0432	End time: 1142
Sample location: Decon at restrooms	Flow rate (LPM): 2.5	
	Total time: 430	Total volume: 1075
Work activity: Cosco install	No of fibers: 11	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.005	
Other comments:		


Sample ID: 4	Start time: 0435	End time: 1138
Sample location: Negative air exhaust	Flow rate (LPM): 2.5	
	Total time: 423	Total volume: 1057.5
Work activity:	No of fibers: 16	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.007	
Other comments: Cosco drilling through exterior plaster near sample		

Sample ID: 5	Start time: 0434	End time: 1136
Sample location: Northwest partial hall	Flow rate (LPM): 2.5	
	Total time: 422	Total volume: 1055
Work activity: Cosco install	No of fibers: 8	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
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 <u> 1 </u> of <u> 1 </u>

PCM/TEM Sample Data Sheet

Project Number	: 2019-3247UCI	
Project Site Address	: Rowland Hall, Building 400, UCI Irvine	
Sample Date	: 1/22/19	
Analysis type	: PCM (NIOSH 7400A) <u> X </u> / TEM (NIOSH 7402) <u> </u>	
Analysis by	: IH Name Jacquie Cole / Laboratory Name <u> </u>	
Date Analyzed	: 1/22/19	

Sample ID: 1	Start time: N/A	End time: N/A
Sample location: Lab Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 2	Start time: N/A	End time: N/A
Sample location: Field Blank	Flow rate (LPM):	
	Total time: N/A	Total volume:
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.00	
Other comments:		

Sample ID: 3	Start time: 0425	End time: 0733
Sample location: Northwest partial hall entry	Flow rate (LPM): 2.5	
	Total time: 188	Total volume: 470
Work activity: BNB install, ECG final clean	No of fibers: 3	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		

Sample ID: 4	Start time: 0429	End time: 0752
Sample location: Negative air exhaust	Flow rate (LPM): 2.5	
	Total time: 203	Total volume: 507.5
Work activity:	No of fibers: 7	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.006	
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 <u> 1 </u> of <u> 1 </u>



LA Testing

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

LA Testing Order: 331901341

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: 01/23/2019 09:55 AM

Analysis Date: 01/23/2019

Collected Date: 01/22/2019

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
01	4th floor hallway - in front of room #420 & 419	01/22/2019	1521.6	10	100	0.002	12.7	0.003	
331901341-0001									
02	4th floor hallway - in front of elevator	01/22/2019	1521.6	22	100	0.002	28.0	0.007	
331901341-0002									
03	4th floor hall - in front of room #439 & 436	01/22/2019	1521.6	8	100	0.002	10.2	0.003	
331901341-0003									
04	Hallway - in front of room #538 & 539 5th floor	01/22/2019	1521.6	7	100	0.002	8.92	0.002	
331901341-0004									
05	5th floor hallway - in front of room # 507 & 508	01/22/2019	1521.6	<5.5	100	0.002	<7.01	<0.002	
331901341-0005									
06	5th floor hallway - in front of 580 & 581	01/22/2019	1521.6	8	100	0.002	10.2	0.003	
331901341-0006									
07	5th floor: room #540 hallway	01/22/2019	1521.6	7	100	0.002	8.92	0.002	
331901341-0007									
08	2nd floor hallway - in front of room #290	01/22/2019	1521.6	10	100	0.002	12.7	0.003	
331901341-0008									
09	2nd floor hallway - in front of elevator	01/22/2019	1521.6	17	100	0.002	21.7	0.005	
331901341-0009									
10	2nd floor hallway in front of room #256	01/22/2019	1521.6	12	100	0.002	15.3	0.004	
331901341-0010									
11	3rd floor hallway - in front of elevator	01/22/2019	1521.6	10	100	0.002	12.7	0.003	
331901341-0011									
12	3rd floor hallway - in front of room #347	01/22/2019	1521.6	14	100	0.002	17.8	0.005	
331901341-0012									
13	3rd floor hallway - in front of room #329	01/22/2019	1521.6	22	100	0.002	28.0	0.007	
331901341-0013									
14	Basement - front of dock hallway	01/22/2019	1521.6	6	100	0.002	7.64	0.002	

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: 01/23/2019 16:43 PM



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

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

LA Testing Order: 331901341

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: 01/23/2019 09:55 AM

Analysis Date: 01/23/2019

Collected Date: 01/22/2019

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
331901341-0014									
15	Basement - front of elevator	01/22/2019	1521.6	6	100	0.002	7.64	0.002	
331901341-0015									
16	Basement - NE hallway	01/22/2019	1521.6	<5.5	100	0.002	<7.01	<0.002	
331901341-0016									
17	1st floor hallway - in front of elevator	01/22/2019	1521.6	<5.5	100	0.002	<7.01	<0.002	
331901341-0017									
18	1st floor hallway - in front of room #108 & 107	01/22/2019	1521.6	<5.5	100	0.002	<7.01	<0.002	
331901341-0018									
19	1st floor hallway - in front of room #134	01/22/2019	1521.6	<5.5	100	0.002	<7.01	<0.002	
331901341-0019									
20	F - blank	01/22/2019		<5.5	100		<7.01		Field Blank
331901341-0020									
21	S - blank	01/22/2019		<5.5	100		<7.01		Lab Blank
331901341-0021									

The results reported have been blank corrected as applicable.

Analyst(s): _____

Larry Kolk PCM 21

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: 01/23/2019 16:43 PM



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

#331901341

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

Company: <i>Omega Env Services</i>		EMSL Customer ID:	
Street: <i>5740 Campus Dr.,</i>		City: <i>Newport Beach</i>	State/Province:
Zip/Postal Code: <i>92640</i>	Country:	Telephone #:	Fax #:
Report To (Name): <i>Navid</i>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: <i>navid@omegaeenv.com</i>		Purchase Order:	
Project Name/Number: <i>2019-3247UCI</i>		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	
U.S. State Samples Taken:		EMSL Project ID (Internal Use Only):	

LA Testing-Bill to: Same Different - If Bill to is Different note instructions in Comments**
 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"/>
---	--	--


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
<i>1-21</i>	<i>See attached data sheet</i>		

Client Sample # (s): <i>21</i>	-	Total # of Samples: <i>21</i>
Relinquished (Client): <i>M. Saberi</i>	Date: <i>1/23/19</i>	Time: <i>9:55 AM</i>
Received (Lab): <i>SP (WF)</i>	Date: <i>1-23-19</i>	Time: <i>9:55 AM</i>
Comments/Special Instructions:		

PCM/TEM Sample Data Sheet

Project Number	: 2019-3247 UCI	
Project Site Address	: Rowland Hall 5 th Floor Irvine, CA 92697	
Sample Date	: 01/22/2019	
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	: 01/22/2019	

Sample ID: 01	Start time: 1445	End time: 1645
Sample location: 4 th Floor Hallway - In front of Room #420 & 419	Flow rate (LPM): 12.68	
Work activity: Background	Total time: 120	Total volume:
	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample ID: 02	Start time: 1446	End time: 1646
Sample location: 4 th Floor Hallway - In front of Elevator	Flow rate (LPM): 12.68	
Work activity: Background	Total time: 120	Total volume:
	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample ID: 03	Start time: 1447	End time: 1647
Sample location: 4 th Floor Hallway - In front of Room #439 & 436	Flow rate (LPM): 12.68	
Work activity: Background	Total time: 120	Total volume:
	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	


Sample ID: 04	Start time: 1449	End time: 1649
Sample location: Hallway - In front of Room #538 & 539 5 th Floor	Flow rate (LPM): 12.68	
Work activity: Background	Total time: 120	Total volume:
	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample ID: 05	Start time: 1450	End time: 1650
Sample location: 5 th Floor Hallway - In front of Room #507 & 508	Flow rate (LPM): 12.68	
Work activity: Background	Total time: 120	Total volume:
	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample ID: 06	Start time: 1451	End time: 1651
Sample location: 5 th Floor Hallway - In front of 580 & 581	Flow rate (LPM): 12.68	
Work activity: Background	Total time: 120	Total volume:
	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample name (print)	:	
Signature	:	
		Page <u>1</u> of <u>4</u>

PCM/TEM Sample Data Sheet

Project Number	:	2019-3247 UCI	
Project Site Address	:		
Sample Date	:		
Analysis type	:	PCM (NIOSH 7400A) <u>X</u> / TEM (NIOSH 7402) _____	
Analysis by	:	IH Name _____ / Laboratory Name _____	
Date Analyzed	:		

Sample ID: 07	Start time: 1540	End time: 1740
Sample location: 5 th Floor - Room # 540	Flow rate (LPM): 12.68	
Hallway	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID: 08	Start time: 1712	End time: 1912
Sample location: 2 nd Floor Hallway - In front of Room # 290	Flow rate (LPM): 12.68	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID: 09	Start time: 1713	End time: 1913
Sample location:	Flow rate (LPM): 12.68	
	Total time:	Total volume:
Work activity: 2 nd Floor Hallway - In front of Elevator	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		


Sample ID: 10	Start time: 1714	End time: 1914
Sample location: 2 nd Floor Hallway In front of Room # 256	Flow rate (LPM): 12.68	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID: 11	Start time: 1716	End time: 1916
Sample location: 3 rd Floor Hallway - In front of Elevator	Flow rate (LPM): 12.68	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample ID: 12	Start time: 1717	End time: 1917
Sample location: 3 rd Floor Hallway - In front of Room # 347	Flow rate (LPM): 12.68	
	Total time:	Total volume:
Work activity:	No of fibers:	No of fields:
	Airborne fiber concentration (fibers/cc):	
Other comments:		

Sample name (print)	:	
Signature	:	
		Page <u>2</u> of <u>4</u>

PCM/TEM Sample Data Sheet

Project Number	: 2019-3247UCI	
Project Site Address	:	
Sample Date	:	
Analysis type	: PCM (NIOSH 7400A) _____ / TEM (NIOSH 7402) _____	
Analysis by	: IH Name _____ / Laboratory Name _____	
Date Analyzed	:	

Sample ID: 13	Start time: 1718	End time: 1918
Sample location: 3rd Floor Hallway - In front of Room #329	Flow rate (LPM): 12.68	Total time:
Work activity:	No of fibers:	No of fields:
Airborne fiber concentration (fibers/cc):		
Other comments:		

Sample ID: 14	Start time: 1931	End time: 2131
Sample location: Basement - front of Dock Hallway	Flow rate (LPM): 12.68	Total time:
Work activity:	No of fibers:	No of fields:
Airborne fiber concentration (fibers/cc):		
Other comments:		

Sample ID: 15	Start time: 1932	End time: 2132
Sample location: Basement - front of elevator	Flow rate (LPM): 12.68	Total time:
Work activity:	No of fibers:	No of fields:
Airborne fiber concentration (fibers/cc):		
Other comments:		

Sample ID: 16	Start time: 1933	End time: 2133
Sample location: Basement - NE Hallway	Flow rate (LPM): 12.68	Total time:
Work activity:	No of fibers:	No of fields:
Airborne fiber concentration (fibers/cc):		
Other comments:		


Sample ID: 17	Start time: 1935	End time: 2135
Sample location: 1st Floor Hallway - In front of Elevator In front of Room #108 & 107	Flow rate (LPM): 12.68	Total time:
Work activity: of Room - Elevator	No of fibers:	No of fields:
Airborne fiber concentration (fibers/cc):		
Other comments: Background		

Sample ID: 18	Start time: 1936	End time: 2136
Sample location: 1st Floor Hallway - In front of Room #108 & 107	Flow rate (LPM): 12.68	Total time:
Work activity: Background	No of fibers:	No of fields:
Airborne fiber concentration (fibers/cc):		
Other comments:		

Sample name (print)	:
Signature	:

Page 3 of 4

PCM/TEM Sample Data Sheet

Project Number	:	2017-3247 HCT	
Project Site Address	:		
Sample Date	:		
Analysis type	:	PCM (NIOSH 7400A) _____ / TEM (NIOSH 7402) _____	
Analysis by	:	IH Name _____ / Laboratory Name _____	
Date Analyzed	:		

Sample ID: 19	Start time: 1937	End time: 2137
Sample location: 15 th Floor Hallway - In front of Room 134	Flow rate (LPM): 12.68	Total time:
Work activity: Background	No of fibers:	No of fields:
Airborne fiber concentration (fibers/cc):		
Other comments:		

Sample ID: 20	Start time: N/A	End time: N/A
Sample location: F-Blanks	Flow rate (LPM): N/A	Total time: N/A
Work activity: ↓	No of fibers:	No of fields:
Airborne fiber concentration (fibers/cc):		
Other comments:		

Sample ID: 21	Start time:	End time:
Sample location: Blank	Flow rate (LPM):	Total time:
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:
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:
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:
Work activity:	No of fibers:	No of fields:
Airborne fiber concentration (fibers/cc):		
Other comments:		

Sample name (print)	:	
Signature	:	

Page 4 of 4



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: 331901564

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: 01/25/2019 12:30 PM

Analysis Date: 01/25/2019

Collected Date: 01/25/2019

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 331901564-0001	Room #540 center of suite	01/25/2019	1257.15	14.5	100	0.002	18.5	0.006	
2 331901564-0002	Room #440 center of suite	01/25/2019	1257.15	<5.5	100	0.002	<7.01	<0.002	
3 331901564-0003	4th floor - restroom men's	01/25/2019	1257.15	5.5	100	0.002	7.01	0.002	
4 331901564-0004	Room #340 center of suite	01/25/2019	1257.15	9.5	100	0.002	12.1	0.004	
5 331901564-0005	3rd floor - restroom men's	01/25/2019	1257.15	13.5	100	0.002	17.2	0.005	
6 331901564-0006	Room #240 center of suite	01/25/2019	1257.15	<5.5	100	0.002	<7.01	<0.002	
7 331901564-0007	2nd floor - restroom men's	01/25/2019	1257.15	5.5	100	0.002	7.01	0.002	
8 331901564-0008	Blank	01/25/2019		<5.5	100		<7.01		Field Blank
9 331901564-0009	Blank	01/25/2019		<5.5	100		<7.01		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s):
Larry Kolk PCM 9

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: 01/25/2019 15:11 PM



Chain of Custody EMSL Order Number (Lab Use Only):


#331901564

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

Company: <u>Omega Env. Services</u>		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>4570 Campus Dr.</u>		Third Party Billing requires written authorization from third party	
City:	State/Province:	Zip/Postal Code:	Country:
Report To (Name): <u>David@omegaenv.com</u>	Fax #:	Purchase Order:	
Telephone #:	Email Address:		
Project Name/Number: <u>209-324741</u>	Please Provide Results: <input type="checkbox"/> Fax <input type="checkbox"/> Email <input type="checkbox"/> Mail		
U.S. State Samples Taken:	Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential		
Turnaround Time (TAT) Options* - Please Check			
<input checked="" type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week
*For RUSH TATs, Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)			
Asbestos			
PCM - Air <input checked="" type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/8hr. TWA 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 - Water Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) 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%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP 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"/> EPA Reg. 1 Screening Protocol (Qualitative)	Other:
Lead (Pb)		Materials Science	
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C	<input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVFs (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other: <input type="checkbox"/>	
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	Other: <input type="checkbox"/>		
Microbiology			
Swab and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types)	Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types)	IAQ	
Sewage Screen <input type="checkbox"/> Sewage Screen (P/A) <input type="checkbox"/> Sewage Screen (Membrane Filtration)	DNA & PCR Testing: (See Analytical Guide for Code) Code:	Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist	
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A, SM 9223B) <input type="checkbox"/> Heterotrophic Plate Count (PP, SM 9215B) <input type="checkbox"/> Fecal Coliform (SM 9222D)	Legionella: (See Analytical Guide for Code) Code:	<input type="checkbox"/> Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>	
**Comments/Special Instructions:			
Client Sample #s	Total # of Samples:		
Relinquished (Client): <u>N. Saha</u>	Date: <u>1/25/19</u>	Time: <u>12:30 PM</u>	
Received (Lab): <u>BN</u>	Date: <u>1-25-19</u>	Time: <u>1230P</u>	

#331901564

PCM/TEM Sample Data Sheet

Project Number	: 2019-3247UCI	
Project Site Address	: Rowland Hall	
Sample Date	: 1/25/19	
Analysis type	: PCM (NIOSH 7400A) <input checked="" type="checkbox"/> / TEM (NIOSH 7402) <input type="checkbox"/>	
Analysis by	: IH Name J. Sanchez / Laboratory Name	
Date Analyzed	:	

Sample ID: 1	Start time: 0655	End time: 0820
Sample location:	Flow rate (LPM): 14.79	
	Total time: 85	Total volume:
Work activity: Room # 540 Center of suite	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample ID: 2	Start time: 0659	End time: 0824
Sample location: Room # 440 Center of suite	Flow rate (LPM): 14.79	
	Total time: 85	Total volume:
Work activity:	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample ID: 3	Start time: 0700	End time: 0825
Sample location: 4 th Floor - Rest Room men's	Flow rate (LPM): 14.79	
	Total time: 85	Total volume:
Work activity:	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample ID: 4	Start time: 0835	End time: 1000
Sample location: Room # 340 Center of suite	Flow rate (LPM): 14.79	
	Total time: 85	Total volume:
Work activity:	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	


Sample ID: 5	Start time: 0837	End time: 1002
Sample location: 3rd Floor - Restroom men's	Flow rate (LPM): 14.79	
	Total time: 85	Total volume:
Work activity:	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample ID: 6	Start time: 0847	End time: 1012
Sample location: Room # 240 Center of suite	Flow rate (LPM): 14.79	
	Total time: 85	Total volume:
Work activity:	No of fibers:	No of fields:
Other comments:	Airborne fiber concentration (fibers/cc):	

Sample name (print)	:
Signature	:

Page 01 of 02

PCM/TEM Sample Data Sheet

Project Number	:	2019-3247UQ	
Project Site Address	:	Rowland Hall	
Sample Date	:	1/25/19	
Analysis type	:	PCM (NIOSH 7400A) _____ / TEM (NIOSH 7402) _____	
Analysis by	:	IH Name _____ / Laboratory Name _____	
Date Analyzed	:		

Sample ID: 7	Start time: 0848	End time: 1013
Sample location: 2nd Floor - Restroom Men's	Flow rate (LPM): 14.79	Total volume:
Work activity:	Total time: 85	No of fibers:
	No of fields:	Airborne fiber concentration (fibers/cc):
Other comments:		

Sample ID: 8	Start time:	End time:
Sample location: Blank	Flow rate (LPM):	Total volume:
Work activity:	Total time:	No of fibers:
	No of fields:	Airborne fiber concentration (fibers/cc):
Other comments:		

Sample ID: 9	Start time:	End time:
Sample location: Blank	Flow rate (LPM):	Total volume:
Work activity:	Total time:	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 volume:
Work activity:	Total time:	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 volume:
Work activity:	Total time:	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 volume:
Work activity:	Total time:	No of fibers:
	No of fields:	Airborne fiber concentration (fibers/cc):
Other comments:		

Sample name (print)	:	
Signature	:	
		Page 02 of 02

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

86567

This is to Certify that

JACQUELINE COLE

Has Completed the Course of

AIR SAMPLING & ANALYSIS OF AIRBORNE ASBESTOS (NIOSH-582 EQUIVALENT)

For purposes of accreditation under section 206 of the Toxic Substances Control Act (TSCA) and compliance with AMAP in accordance with 59 FR 5236 effective April 1994

ARMANDO DUCOING

DIRECTOR

May 27, 2011

COMPLETION DATE

E052311NIOSH582

052311

CLASS NUMBER / STARTING DATE

CERTIFICATE EXPIRES

Ecologics Training Institute

3930 E. Miraloma Avenue, Unit G . Anaheim, CA 92806 . Ph (714) 480-0111 . Fax (714) 480-0222

www.ecologicsonline.com

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101384-0

LA Testing-Huntington Beach
Huntington Beach, CA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

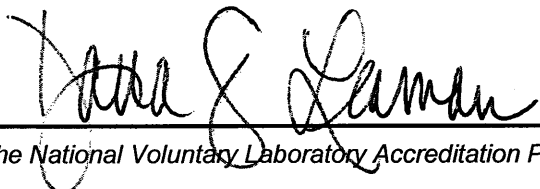
Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2018-07-01 through 2019-06-30

Effective Dates




For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

LA Testing-Huntington Beach

5431 Industrial Drive
Huntington Beach, CA 92649
Christopher Miranda
Phone: 714-828-4999
Email: cmiranda@latesting.com
<http://www.latesting.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101384-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

A handwritten signature in black ink, appearing to read "Christopher Miranda".

For the National Voluntary Laboratory Accreditation Program



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>