

August 22, 2019

**JAMES BULLOCK**  
**DEAN, SCHOOL OF PHYSICAL SCIENCES**

**RE: June 2019 Air Monitoring Report for Rowland Hall**

Dear Dean Bullock,

The attached report from Omega Environmental, dated August 14, 2019, provides air monitoring results for Rowland Hall during asbestos-related activities during the period of June 13 through June 19, 2019 on the first floor, Rooms 101 and 104.

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 me via phone (**949.824.4817**) or email (**amsamala@uci.edu**). After hours calls may be directed to 949.824.6200.

If you have any questions regarding the construction activities in 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,



Alvin Samala  
Manager, Industrial Hygiene, Chemical Safety, and Environmental Health  
Environmental Health and Safety

Attachment



Asbestos Air Monitoring Summary Report  
University of California, Irvine  
Rowland Hall – 1<sup>st</sup> Floor  
Rooms 101 and 104  
Irvine, California 92618

Project Number 2019-2285UCI  
August 14, 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", 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  
Senior Project Manager  
Principal, CAC #92-0284



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**ATTACHMENT A**

PCM Air Sample Results, Daily Notes and Inspectors' Certifications

## 1. EXECUTIVE SUMMARY

The following is an air monitoring summary report for the Rowland Hall, 1<sup>st</sup> Floor Fire Life Safety (FLS) Project. The areas included are Rooms 101 and 104 located at the University of California, Irvine (UCI) in Irvine California. The abatement contractor scope of work consisted of the following asbestos related activities:

- Work area preparation;
- Removal of non-asbestos ceiling tiles;
- Clean-up of asbestos-containing debris on ceiling tiles as well as assistance during the installation of an upgraded fire sprinkler system; and
- Spot removal of asbestos-containing above ceiling materials as necessary.

Project oversight and air monitoring was performed by Christopher Canas, a California Certified Site Surveillance Technician (CSST #16-5978) and Jesse Sanchez, an EPA-AHERA<sup>1</sup> Building Inspector and Asbestos Abatement Contractor Supervisor, with Omega Environmental Services, Inc. (Omega). The above activities were performed from June 13 to 19, 2019. The monitoring was performed at the direction of UCI Environmental Health and Safety (EH&S) and managed by Navid Salari, a California Certified Asbestos Consultant (CAC# 94-1557) with Omega. Attachment A includes copies of the air sample results, daily notes and inspectors' certifications.

## 2. AIR SAMPLE RESULTS

Perimeter and clearance air samples were collected during and at the completion of the asbestos related activities. The purpose of the area air monitoring was to measure the airborne fiber concentrations outside the containments to determine the effectiveness of the isolation methods employed during the asbestos related activities. Clearance air samples were collected inside the work areas following the completion of the asbestos related activities.

Analyses were performed using the Phase Contrast Microscopy (PCM) analytical methodology as described in National Institute for Occupational Safety and Health (NIOSH) 7400 A protocol. Omega's representatives are NIOSH-582<sup>2</sup> 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 Locations / Work Activity	Result (f/cc)
06/13-14/19	01	1 <sup>st</sup> floor, outside work area, lecture hall 104 by decontamination room / Ceiling tiles demolition and cleanup	0.003
06/13-14/19	02	1 <sup>st</sup> floor, outside work area, lecture hall 104 by decontamination room / Ceiling tiles demolition and cleanup	<0.002

<sup>1</sup> Asbestos Hazard Emergency Response Act

<sup>2</sup> NIOSH-582 or equivalent – Individual trained to analyze samples by Phase Contrast Microscopy





Date	Sample #	Sample Locations / Work Activity	Result (f/cc)
06/13-14/19	03	1 <sup>st</sup> floor, outside work area, lecture hall 104, negative air machine/ Ceiling tiles demolition and cleanup	0.006
06/14-15/19	01	1 <sup>st</sup> floor, outside work area by decontamination room, lecture hall 101 / Ceiling tiles demolition and cleanup	<0.002
06/14-15/19	02	1 <sup>st</sup> floor, outside work area by decontamination room, lecture hall 101 / Ceiling tiles demolition and cleanup	<0.002
06/14-15/19	03	1 <sup>st</sup> floor, outside work area by decontamination, lecture hall 101 / Ceiling tiles demolition and cleanup	0.003
06/15-16/19	01	1 <sup>st</sup> floor, outside work area, by decontamination room, lecture hall 104 / Ceiling tile demolition, cleaning and spot abatement	<0.002
06/15-16/19	02	1 <sup>st</sup> floor, outside work area, by decontamination room, lecture hall 104 / Ceiling tile demolition, cleaning and spot abatement	<0.002
06/15-16/19	03	1 <sup>st</sup> floor, outside work area, negative air exhaust, lecture hall 104 / Ceiling tile demolition, cleaning and spot abatement	0.005
06/15-16/19	04	1 <sup>st</sup> floor, outside work area, by decontamination room, lecture hall 101 / Ceiling tile demolition, cleaning and spot abatement	<0.002
06/15-16/19	05	1 <sup>st</sup> floor, outside work area, by decontamination room, lecture hall 101 / Ceiling tile demolition, cleaning and spot abatement	0.003
06/15-16/19	06	1 <sup>st</sup> floor, outside work area, negative air exhaust, lecture hall 101 / Ceiling tile demolition, cleaning and spot abatement	0.004
06/17-18/19	01	1 <sup>st</sup> floor, outside work area, by decontamination room, lecture hall 104 / Installing ceiling tiles and pipes	<0.002
06/17-18/19	02	1 <sup>st</sup> floor, outside work area, hallway, lecture hall 104 / Installing ceiling tiles and pipes	<0.002
06/17-18/19	03	1 <sup>st</sup> floor, outside work area, negative air machine, lecture hall 104 / Installing ceiling tiles and pipes	<0.002
06/17-18/19	04	1 <sup>st</sup> floor, outside work area, by decontamination room, lecture hall 101 / Installing ceiling tiles and pipes	<0.002
06/17-18/19	05	1 <sup>st</sup> floor, outside work area, hallway, lecture hall 101 / Installing ceiling tiles and pipes	<0.002
06/17-18/19	06	1 <sup>st</sup> floor, outside work area, negative air machine, lecture hall 101 / Installing ceiling tiles and pipes	0.003
06/18-19/19	01	1 <sup>st</sup> floor, outside work area, hallway by decontamination room, room 104 / Cleaning work area	<0.002
06/18-19/19	02	1 <sup>st</sup> floor, outside work area, hallway, room 104 / Cleaning work area	<0.002
06/18-19/19	03	1 <sup>st</sup> floor, outside work area, negative air exhaust, room 104 / Cleaning work area	0.003
06/18-19/19	04	1 <sup>st</sup> floor, outside work area, hallway by decontamination room, room 101/ Cleaning work area	<0.002
06/18-19/19	05	1 <sup>st</sup> floor, outside work area, by decontamination room, room 101 / Cleaning work area	<0.002
06/18-19/19	06	1 <sup>st</sup> floor, outside work area, negative air exhaust, room 101 / Cleaning work area	<0.002
06/19/19	01	1 <sup>st</sup> floor, room 101, inside work area, NW corner / Air clearance	0.004
06/19/19	02	1 <sup>st</sup> floor, room 101, inside work area, NE corner / Air clearance	0.004
06/19/19	03	1 <sup>st</sup> floor, room 101, inside work area, SW corner / Air clearance	0.003
06/19/19	04	1 <sup>st</sup> floor, room 101, inside work area, SE corner / Air clearance	0.004
06/19/19	05	1 <sup>st</sup> floor, room 101, inside work area, center area / Air clearance	0.003
06/19/19	06	1 <sup>st</sup> floor, room 104, inside work area, NW corner / Air clearance	0.005



Date	Sample #	Sample Locations / Work Activity	Result (f/cc)
06/19/19	07	1 <sup>st</sup> floor, room 104, inside work area, NE corner / Air clearance	0.005
06/19/19	08	1 <sup>st</sup> floor, room 104, inside work area, SW corner / Air clearance	0.005
06/19/19	09	1 <sup>st</sup> floor, room 104, inside work area, SE corner / Air clearance	0.004
06/19/19	10	1 <sup>st</sup> floor, room 104, inside work area, center area / Air clearance	0.004


*f/cc – Fibers per cubic centimeter*

Based on the results of the PCM analyses, all samples were found to contain fiber concentrations less than the EPA Clearance Criteria of 0.01 f/cc.



Attachment A

## Asbestos Abatement Air Monitoring Data (PCM)

Project Number:	2019-3385UCI	
Project Site Address:	Rowland Hall, 1st floor	
Sample Date:	6/13 – 6/14/19	
Analysis type:	PCM (NIOSH 7400A)	
Analysis by:	Jesse Sanchez	
Date Analyzed:	6/14/19	

Sample ID: 01	Start time: 0300	End time: 0500
Sample location: 1 <sup>st</sup> floor – Outside work area	Flow rate (LPM): 10	
Lecture hall 104 by Decontamination room	Total time: 120	Total volume: 1200
Work activity: ceiling tiles demolition + cleanup	No of fibers: 7	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		

Sample ID: 02	Start time: 0300	End time: 0500
Sample location: 1 <sup>st</sup> floor - Outside work area	Flow rate (LPM): 10	
lecture hall 104 by decontamination room	Total time: 120	Total volume: 1200
Work activity: ceiling tiles demolition + cleanup	No of fibers: 4.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		

Sample ID: 03	Start time: 0305	End time: 0505
Sample location: 1 <sup>st</sup> floor – Outside work area	Flow rate (LPM): 10	
Negative air machine exhaust, lecture hall 104	Total time: 120	Total volume: 1200
Work activity: ceiling tiles demolition + cleanup	No of fibers: 14.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.006	
Other comments:		


Sample ID: 04	Start time: *	End time: *
Sample location: Field blank	Flow rate (LPM): *	
	Total time: *	Total volume: *
Work activity: None	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0	
Other comments:		

Sample ID: 05	Start time: *	End time: *
Sample location: Sealed blank	Flow rate (LPM): *	
	Total time: *	Total volume: *
Work activity: None	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0	
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	: Jesse Sanchez	Page <u>  1  </u> of <u>  1  </u>

## Asbestos Abatement Air Monitoring Data (PCM)

Project Number:	2019-3385UCI	
Project Site Address:	Rowland Hall, 1st floor	
Sample Date:	6/14 – 6/15/19	
Analysis type:	PCM (NIOSH 7400A)	
Analysis by:	Jesse Sanchez	
Date Analyzed:	6/15/19	

Sample ID: 01	Start time: 0100	End time: 0300
Sample location: 1 <sup>st</sup> floor – Outside work area	Flow rate (LPM): 10	
lecture hall 101 by Decontamination room	Total time: 120	Total volume: 1200
Work activity: ceiling tile demolition + clean	No of fibers: 2.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		

Sample ID: 02	Start time: 0100	End time: 0300
Sample location: 1 <sup>st</sup> floor - Outside work area	Flow rate (LPM): 10	
lecture hall 101 by decontamination room	Total time: 120	Total volume: 1200
Work activity: ceiling tile demolition + clean	No of fibers: 3	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		

Sample ID: 03	Start time: 0110	End time: 0310
Sample location: 1 <sup>st</sup> floor – outside work area	Flow rate (LPM): 10	
Negative air machine exhaust, lecture hall 101	Total time: 120	Total volume: 1200
Work activity: ceiling tile demolition + clean	No of fibers: 7.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		


Sample ID: 04	Start time: *	End time: *
Sample location: Field blank	Flow rate (LPM): *	
	Total time: *	Total volume: *
Work activity: None	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0	
Other comments:		

Sample ID: 05	Start time: *	End time: *
Sample location: Sealed blank	Flow rate (LPM): *	
	Total time: *	Total volume: *
Work activity: None	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0	
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	: Jesse Sanchez	Page <u>  1  </u> of <u>  1  </u>

## Asbestos Abatement Air Monitoring Data (PCM)

Project Number:	2019-3385UCI	
Project Site Address:	Rowland Hall, 1st floor	
Sample Date:	6/15 – 16/19	
Analysis type:	PCM (NIOSH 7400A)	
Analysis by:	Jesse Sanchez	
Date Analyzed:	6/16/19	

Sample ID: 01	Start time: 2200	End time: 2400
Sample location: 1 <sup>st</sup> floor – Outside work area	Flow rate (LPM): 10	
Decontamination room, lecture hall 104	Total time: 120	Total volume: 1200
Work activity: Demolition ceiling tiles, cleaning + spot Abatement	No of fibers: 1.5	No of fields: 100
Other comments:	Airborne fiber concentration (fibers/cc): <0.002	

Sample ID: 02	Start time: 2200	End time: 2400
Sample location: 1 <sup>st</sup> floor - Outside work area	Flow rate (LPM): 10	
by decontamination room , lecture hall 104	Total time: 120	Total volume: 1200
Work activity: Demolition ceiling tiles, cleaning + spot Abatement	No of fibers: 3	No of fields: 100
Other comments:	Airborne fiber concentration (fibers/cc): <0.002	

Sample ID: 03	Start time: 2210	End time: 2410
Sample location: 1 <sup>st</sup> floor – Outside work area	Flow rate (LPM): 10	
Negative air machine exhaust, lecture hall 104	Total time: 120	Total volume: 1200
Work activity: Demolition ceiling tiles, cleaning + spot Abatement	No of fibers: 11.5	No of fields: 100
Other comments:	Airborne fiber concentration (fibers/cc): 0.005	


Sample ID: 04	Start time: 0210	End time: 0410
Sample location: 1 <sup>st</sup> floor – Outside work area	Flow rate (LPM): 10	
by Decontamination room, lecture hall 101	Total time: 120	Total volume: 1200
Work activity: Demolition ceiling tiles, cleaning + spot Abatement	No of fibers: 5	No of fields: 100
Other comments:	Airborne fiber concentration (fibers/cc): <0.002	

Sample ID: 05	Start time: 0210	End time: 0410
Sample location: 1 <sup>st</sup> floor – Lecture hall 101	Flow rate (LPM): 10	
Outside decontamination room	Total time: 120	Total volume: 1200
Work activity: Demolition ceiling tiles, cleaning + spot Abatement	No of fibers: 7.5	No of fields: 100
Other comments:	Airborne fiber concentration (fibers/cc): 0.003	

Sample ID: 06	Start time: 0220	End time: 0420
Sample location: 1 <sup>st</sup> floor – Lecture hall 101	Flow rate (LPM): 10	
Negative air machine exhaust	Total time: 120	Total volume: 1200
Work activity: Demolition ceiling tiles, cleaning + spot Abatement	No of fibers: 10	No of fields: 100
Other comments:	Airborne fiber concentration (fibers/cc): 0.004	

Sample name (print)	: Jesse Sanchez	
Signature	: Jesse Sanchez	Page <u>  1  </u> of <u>  2  </u>

## Asbestos Abatement Air Monitoring Data (PCM)


Project Number:	2019-3250UCI	
Project Site Address:	Rowland Hall	
Sample Date:	6/15 – 6/16/19	
Analysis type:	PCM (NIOSH 7400A)	
Analysis by:	Jesse Sanchez	
Date Analyzed:	6/16/19	

Sample ID: 07	Start time: *	End time: *
Sample location: Field blank	Flow rate (LPM): *	
	Total time: *	Total volume: *
Work activity: None	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0	
Other comments:		

Sample ID: 08	Start time: *	End time: *
Sample location: Sealed blank	Flow rate (LPM): *	
	Total time: *	Total volume: *
Work activity: None	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0	
Other comments:		

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

## Asbestos Abatement Air Monitoring Data (PCM)

Project Number:	2019-3385UCI	
Project Site Address:	Rowland Hall - 1st floor, Rooms 101 & 104	
Sample Date:	6/17 – 6/18/19	
Analysis type:	PCM (NIOSH 7400A)	
Analysis by:	Jesse Sanchez	
Date Analyzed:	6/18/19	

Sample ID: 01	Start time: 2220	End time: 2420
Sample location: 1 <sup>st</sup> floor – Outside work area	Flow rate (LPM): 10	
by Decontamination room, lecture hall 104	Total time: 120	Total volume: 1200
Work activity: Installing ceiling tiles + pipes	No of fibers: 3.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		

Sample ID: 02	Start time: 2220	End time: 2420
Sample location: 1 <sup>st</sup> floor - Outside work area	Flow rate (LPM): 10	
hallway, lecture hall 104	Total time: 120	Total volume: 1200
Work activity: Installing ceiling tiles + pipes	No of fibers: 1.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		

Sample ID: 03	Start time: 2225	End time: 2425
Sample location: 1 <sup>st</sup> floor – Outside work area	Flow rate (LPM): 10	
Negative air machine exhaust, lecture hall 104	Total time: 120	Total volume: 1200
Work activity: Installing ceiling tiles + pipes	No of fibers: 5	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		

Sample ID: 04	Start time: 0110	End time: 0310
Sample location: 1 <sup>st</sup> floor - Outside work area	Flow rate (LPM): 10	
by Decontamination room, lecture hall 101	Total time: 120	Total volume: 1200
Work activity: Installing ceiling tiles + pipes	No of fibers: 4	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		


Sample ID: 05	Start time: 0110	End time: 0310
Sample location: 1 <sup>st</sup> floor - Outside work area	Flow rate (LPM): 10	
Hallway, lecture hall 101	Total time: 120	Total volume: 1200
Work activity: Installing ceiling tiles + pipes	No of fibers: 3	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		

Sample ID: 06	Start time: 0115	End time: 0315
Sample location: 1 <sup>st</sup> floor - Outside work area	Flow rate (LPM): 10	
Negative air machine exhaust, lecture hall 101	Total time: 120	Total volume: 1200
Work activity: Installing ceiling tiles + pipes	No of fibers: 7.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		

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



## Asbestos Abatement Air Monitoring Data (PCM)

Project Number:	2019-3385UCI	
Project Site Address:	Rowland Hall - 1st floor, Rooms 101 & 104	
Sample Date:	6/18 – 6/19/19	
Analysis type:	PCM (NIOSH 7400A)	
Analysis by:	Jesse Sanchez	
Date Analyzed:	6/19/19	

Sample ID: 01	Start time: 2210	End time: 2410
Sample location: 1 <sup>st</sup> floor – Outside work area	Flow rate (LPM): 10	
Hallway by decontamination room, room104	Total time: 120	Total volume: 1200
Work activity: Cleaning work area	No of fibers: 1.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		

Sample ID: 02	Start time: 2210	End time: 2410
Sample location: 1 <sup>st</sup> floor - outside work area	Flow rate (LPM): 10	
hallway, room 104	Total time: 120	Total volume: 1200
Work activity: Cleaning work area	No of fibers: 2	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		

Sample ID: 03	Start time: 2215	End time: 2415
Sample location: 1 <sup>st</sup> floor – outside work area	Flow rate (LPM): 10	
Negative air machine exhaust	Total time: 120	Total volume: 1200
Work activity: Cleaning work area	No of fibers: 7	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
Other comments:		


Sample ID: 04	Start time: 0105	End time: 0305
Sample location: 1 <sup>st</sup> floor - outside work area	Flow rate (LPM): 10	
hallway by decontamination room 101	Total time: 120	Total volume: 1200
Work activity: Cleaning work area	No of fibers: 2	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		

Sample ID: 05	Start time: 0105	End time: 0305
Sample location: 1 <sup>st</sup> floor - outside work area	Flow rate (LPM): 10	
by decontamination room 101	Total time: 120	Total volume: 1200
Work activity: Cleaning work area	No of fibers: 1.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		

Sample ID: 06	Start time: 0110	End time: 0310
Sample location: 1 <sup>st</sup> floor - outside work area	Flow rate (LPM): 10	
Negative air machine exhaust for room 101	Total time: 120	Total volume: 1200
Work activity: Cleaning work area	No of fibers: 4.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): <0.002	
Other comments:		

Sample name (print)	: Jesse Sanchez	
Signature	: Jesse Sanchez	Page__1__ of __1__

## Asbestos Project Air Monitoring Data (PCM)

Project Number:	2019-3385UCI	
Project Site Address:	Rowland Hall - 1st floor, Rooms 101 & 104	
Sample Date:	6/19/2019	
Analysis type:	PCM (NIOSH 7400A)	
Analysis by:	Christopher Cañas	
Date Analyzed:	6/19/2019	

### Room 101 PCM Results

Sample ID: 1	Start time: 8:10am	End time: 9:40am
<b>Sample location:</b> Inside work area - NW Corner	Flow rate (LPM): 15	
	Total time: 90	Total volume: 1,350
Work activity: Air Clearance	No of fibers: 10.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
<b>Other comments:</b>		

Sample ID: 2	Start time: 8:10am	End time: 9:40am
<b>Sample location:</b> Inside work area - NE Corner	Flow rate (LPM): 15	
	Total time: 90	Total volume: 1,350
Work activity: Air Clearance	No of fibers: 11	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
<b>Other comments:</b>		


Sample ID: 3	Start time: 8:10am	End time: 9:40am
<b>Sample location:</b> Inside work area - SW Corner	Flow rate (LPM): 15	
	Total time: 90	Total volume: 1,350
Work activity: Air Clearance	No of fibers: 8.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
<b>Other comments:</b>		

Sample ID: 4	Start time: 8:10am	End time: 9:40am
<b>Sample location:</b> Inside work area - SE Corner	Flow rate (LPM): 15	
	Total time: 90	Total volume: 1,350
Work activity: Air Clearance	No of fibers: 11	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
<b>Other comments:</b>		

Sample ID: 5	Start time: 8:10am	End time: 9:40am
<b>Sample location:</b> Inside work area - Center Area	Flow rate (LPM): 15	
	Total time: 90	Total volume: 1,350
Work activity: Air Clearance	No of fibers: 9.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.003	
<b>Other comments:</b>		

Sample name (print)	: Christopher Cañas	1
Signature	: Christopher Cañas	

## Asbestos Project Air Monitoring Data (PCM)

Project Number:	2019-3385UCI	
Project Site Address:	Rowland Hall - 1st floor, Rooms 101 & 104	
Sample Date:	6/19/2019	
Analysis type:	PCM (NIOSH 7400A)	
Analysis by:	Christopher Cañas	
Date Analyzed:	6/19/2019	

### Room 104 PCM Results

Sample ID: 6	Start time: 10:00am	End time: 11:30am
<b>Sample location:</b> Inside work area - NW Corner	Flow rate (LPM): 15	
	Total time: 90	Total volume: 1,350
Work activity: Air Clearance	No of fibers: 13	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.005	
<b>Other comments:</b>		

Sample ID: 7	Start time: 10:00am	End time: 11:30am
<b>Sample location:</b> Inside work area - NE Corner	Flow rate (LPM): 15	
	Total time: 90	Total volume: 1,350
Work activity: Air Clearance	No of fibers: 12.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.005	
<b>Other comments:</b>		


Sample ID: 8	Start time: 10:00am	End time: 11:30am
<b>Sample location:</b> Inside work area - SW Corner	Flow rate (LPM): 15	
	Total time: 90	Total volume: 1,350
Work activity: Air Clearance	No of fibers: 13.5	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.005	
<b>Other comments:</b>		

Sample ID: 9	Start time: 10:00am	End time: 11:30am
<b>Sample location:</b> Inside work area - SE Corner	Flow rate (LPM): 15	
	Total time: 90	Total volume: 1,350
Work activity: Air Clearance	No of fibers: 11	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
<b>Other comments:</b>		

Sample ID: 10	Start time: 10:00am	End time: 11:30am
<b>Sample location:</b> Inside work area - Center Area	Flow rate (LPM): 15	
	Total time: 90	Total volume: 1,350
Work activity: Air Clearance	No of fibers: 11	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0.004	
<b>Other comments:</b>		

Sample name (print)	: Christopher Cañas	2
Signature	: Christopher Cañas	

## Asbestos Project Air Monitoring Data (PCM)

Project Number:	2019-3385UCI	
Project Site Address:	Rowland Hall - 1st floor, Rooms 101 & 104	
Sample Date:	6/19/2019	
Analysis type:	PCM (NIOSH 7400A)	
Analysis by:	Christopher Cañas	
Date Analyzed:	6/19/2019	

Sample ID: 11	Start time: *	End time: *
<b>Sample location: Field blank</b>	Flow rate (LPM): *	
	Total time: *	Total volume: *
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0	
<b>Other comments:</b>		

Sample ID: 12	Start time: *	End time: *
<b>Sample location: Sealed blank</b>	Flow rate (LPM): *	
	Total time: *	Total volume: *
Work activity:	No of fibers: 0	No of fields: 100
	Airborne fiber concentration (fibers/cc): 0	
<b>Other comments:</b>		

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

Sample name (print)	: Christopher Cañas	3
Signature	: Christopher Cañas	



**Omega Environmental Services, Inc.**

**Daily Field Log**

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

Project Number: 2019-3385UCI	Date: 06/13/2019
Project Name: UCI	Omega Representative: Jesse Sanchez
Project Address: Rowland Hall - 1st floor, rooms 101 & 104	
Client Contact:	
Client Phone #:	

**TIME AND ACTIVITY**

<b>2000</b>	<b>Omega + ECG arrive on-site to start 8 pm shift, Scope of work: ECG will set up a full-containment in lecture hall 104 for demo ceiling tiles and spot abatement. After containment is set up ECG will request visual inspection from Omega to start the work.</b>
<b>2100</b>	<b>At this time ECG begin to mobilize equipment for containment set up.</b>
<b>2100</b>	<b>At this time work continues to move forward, no issues to report.</b>
<b>2200</b>	<b>Omega walks through the containment.</b>
<b>2300</b>	<b>At this time ECG continue to set up containment, no issues to report.</b>
<b>2400</b>	<b>Crew break for lunch.</b>
<b>0100</b>	<b>Crew return from lunch.</b>
<b>0110</b>	<b>ECG continue to set up full-containment in the lecture room 104.</b>
<b>0215</b>	<b>ECG request visual inspection from Omega.</b>
<b>0250</b>	<b>Omega gives the ok to start the work.</b>
<b>0300</b>	<b>Omega demobilize perimeter air samples at this time + ECG enter containment wearing proper PPE + Half-face Respirators.</b>
<b>0405</b>	<b>Work continues to move forward, ECG continue to demo ceiling tiles + vacuuming the area and tiles.</b>
<b>0500</b>	<b>Omega demobilize perimeter air samples, Omega will analyze samples using NIOSH 7400 method.</b>
<b>0600</b>	<b>Shift has ended for today, ECG + Omega off-site.</b>

Omega Site Representative Signature: Jesse Sanchez	Date: 06/13/2019
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Project Number: 2019-3385UCI	Date: 06/14/2019
Project Name: UCI	Omega Representative: Jesse Sanchez
Project Address: Rowland Hall - 1st floor	
Client Contact:	
Client Phone #:	

**TIME AND ACTIVITY**

<b>2000</b>	<b>Omega + ECG arrive on-site to start 8 pm shift, Scope of work: ECG will enter containment wearing proper PPE + Half-face respirator to demo ceiling for spot abatement in lecture hall 101.</b>
<b>2015</b>	<b>At this time ECG begin to mobilize equipment near the work area to begin the work.</b>
<b>2020</b>	<b>ECG enter containment wearing proper PPE + Half-face respirators.</b>
<b>2100</b>	<b>At this time work continues to move forward, no issues to report ECG continue to demo ceiling tiles.</b>
<b>2200</b>	<b>Omega enters containment wearing proper PPE + Full-face respirator to observe the work.</b>
<b>2300</b>	<b>Omega exits containment, work continues to move forward poly walls have good integrity.</b>
<b>2400</b>	<b>Crew break for lunch.</b>
<b>0100</b>	<b>Crew return from lunch + Omega mobilize and set up high flow perimeter air samples.</b>
<b>0200</b>	<b>No issues to report, ECG continue to work under negative pressure containment.</b>
<b>0300</b>	<b>At this time Omega begin to demobilize perimeter air samples.</b>
<b>0400</b>	<b>ECG begin to load out bags of ceiling tiles to be disposed of.</b>
<b>0500</b>	<b>Omega sends PCM air results to UCI Reps. + Omega Rep. Navid Salari.</b>
<b>0600</b>	<b>Shift has ended for today ECG + Omega off site.</b>

Omega Site Representative Signature: Jesse Sanchez	Date: 06/14/2019
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 Newport Beach, California 92660  
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Project Number: 2019-3385UCI	Date: 06/15/2019
Project Name: UCI	Omega Representative: Jesse Sanchez
Project Address: Rowland Hall - 1st floor, Rooms 101 & 104	
Client Contact:	
Client Phone #:	

**TIME AND ACTIVITY**

<b>2000</b>	<b>At this time Omega + ECG arrive on-site to start 8 pm shift, Scope of work: ECG will enter containment to work On spot abatement. Cosco have laid out designated areas for ECG to spot abatement for pipe installation. Work Areas will consist of lecture hall 104 and 101. Omega will be setting up high flow air samples for perimeter air Monitoring, crew consist of 1 supervisor + 5 workers.</b>
<b>2020</b>	<b>ECG enter containment wearing proper PPE + Half-face respirators to work on spot abatement.</b>
<b>2050</b>	<b>At this time ECG supervisor inform Omega they will be working on demo ceiling tiles first, Cosco had made lay Outs where ceiling tiles need to be removed, ECG will start the work on Lecture hall 104.</b>
<b>2130</b>	<b>No issues to report at this time ECG will soon begin on spot abatement.</b>
<b>2200</b>	<b>Omega mobilize and set up perimeter air samples running at 10 LPM.</b>
<b>2330</b>	<b>No issues to report at this time, work continues to move forward.</b>
<b>2400</b>	<b>Crew break for lunch.</b>
<b>0100</b>	<b>Crew return from lunch.</b>
<b>0110</b>	<b>ECG enter containment (Lecture hall 104) to clean the area of any debris or trash that was made.</b>
<b>0200</b>	<b>At this time ECG enter the other containment (Lecture hall 101) to demo ceiling tiles + work on spot abatement.</b>
<b>0210</b>	<b>Omega mobilize and set up perimeter air samples.</b>
<b>0300</b>	<b>At this time Omega enters containment (Lecture hall 101) to observe the work.</b>
<b>0330</b>	<b>Omega exits containment, work continues to move forward ECG are working on spot abatement of fireproof Overspray.</b>
<b>0525</b>	<b>ECG begin to exit the decontamination room.</b>
<b>0600</b>	<b>Shift has ended for today, ECG have completed spot abatement.</b>

Omega Site Representative Signature: Jesse Sanchez	Date: 06/15/2019
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**Daily Field Log**

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Project Number: 2019-3385UCI	Date: 06/17/2019
Project Name: UCI	Omega Representative: Jesse Sanchez
Project Address: Rowland Hall - 1st floor, Rooms 101 & 104	
Client Contact:	
Client Phone #:	

**TIME AND ACTIVITY**

<b>2200</b>	<b>Omega + ECG and BNB arrive on-site to start 10 pm shift, Scope of work: Cosco will enter containment to</b>
	<b>Complete installing pipes, BNB will also enter containment to install ceiling tiles, the containment will consist of</b>
	<b>Lecture hall 101 + 104. ECG will prep the south service floor hallway to demo ceiling tiles to then be demobilized</b>
	<b>To the dumpster, ECG will clean the ceiling tiles before demobilizing them.</b>
<b>2215</b>	<b>At this time Cosco + BNB enter containment (104) wearing proper PPE + Half-face respirator.</b>
<b>2220</b>	<b>Omega mobilize and set up perimeter air samples at lecture hall 104 containment + ECG begin to prep the south</b>
	<b>Hallway on the service floor.</b>
<b>2300</b>	<b>At this time work continues to move forward, no issues to report.</b>
<b>2420</b>	<b>At this time Omega demobilize perimeter air samples from Lecture hall 104, samples have been running at 10</b>
	<b>LPM.</b>
<b>0100</b>	<b>At this time BNB enter lecture hall 101 containment to install ceiling tiles.</b>
<b>0110</b>	<b>Omega mobilize and set up perimeter air samples at the lecture hall containment 101.</b>
<b>0200</b>	<b>Crew break for lunch.</b>
<b>0300</b>	<b>Crew return from lunch.</b>
<b>0310</b>	<b>Omega demobilize perimeter air samples from Lecture hall 101.</b>
<b>0400</b>	<b>At this time ECG continue to demo ceiling tiles, BNB are nearly done installing ceiling tiles in Lecture hall 101.</b>
<b>0435</b>	<b>At this time ECG supervisor request visual inspection from Omega environment to tear down the poly floors</b>
	<b>and walls.</b>
<b>0438</b>	<b>Omega enter containment wearing proper PPE + Full-face respirator to conduct visual inspection.</b>
<b>0520</b>	<b>At this time Omega exits containment + informs ECG supervisor they have the ok to tear down the containment.</b>
<b>0600</b>	<b>Shift has ended for today, ECG have torn down the containment, ECG + Omega are off site</b>

Omega Site Representative Signature: Jesse Sanchez	Date: 06/17/2019
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**Daily Field Log**

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Project Number: 2019-3385UCI	Date: 06/18/2019
Project Name: UCI	Omega Representative: Jesse Sanchez
Project Address: Rowland Hall - 1st floor	
Client Contact:	
Client Phone #:	

**TIME AND ACTIVITY**

<b>2200</b>	<b>At this time Omega, ECG + Cosco arrive on-site to start 10 pm shift. Omega Heri Rodriguez briefs Omega Jesse</b>
	<b>On any activities during his shift, Heri is relieved from site. Scope of work: ECG will enter Lecture hall 101 and</b>
	<b>104 containment to work on final clean up. BNB will be working on installing ceiling tiles + Cosco will be</b>
	<b>Installing pipes for new fire system on the 1<sup>st</sup> floor.</b>
<b>2210</b>	<b>Omega mobilize and set up perimeter air samples for the lecture hall 104 + ECG enter containment Lecture hall</b>
	<b>104 wearing proper PPE + Half-face respirators.</b>
<b>2300</b>	<b>At this time there are no issues to report, ECG continue to work in Lecture hall 104 cleaning the work area.</b>
<b>2410</b>	<b>Omega demobilize perimeter air samples from Lecture hall 104.</b>
<b>0100</b>	<b>At this time ECG continue to clean the work area lecture hall 104 + ECG send a crew to enter Lecture hall 101</b>
	<b>To clean the area.</b>
<b>0105</b>	<b>At this time Omega mobilize and set up perimeter air samples for Lecture hall 101.</b>
<b>0200</b>	<b>Crew break for lunch.</b>
<b>0300</b>	<b>Crew return from lunch.</b>
<b>0310</b>	<b>At this time Omega demobilize perimeter air samples from Lecture hall 101.</b>
<b>0400</b>	<b>At this time ECG request visual inspection from Omega in Lecture hall containment 101 and 104.</b>
<b>0405</b>	<b>Omega enters containment Lecture hall 101 to conduct visual inspection.</b>
<b>0435</b>	<b>Omega exits containment 101 to enter 104 lecture hall containment.</b>
<b>0500</b>	<b>At this time Omega exits containment 104, ECG has the ok to encapsulate both lecture hall containments 101 and</b>
	<b>104.</b>
<b>0600</b>	<b>At this time shift has ended, ECG have encapsulated the work areas Omega will run clearances during the next</b>
	<b>Shift.</b>

Omega Site Representative Signature: Jesse Sanchez	Date: 06/18/2019
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State of California  
Division of Occupational Safety and Health  
**Certified Site Surveillance Technician**

**Christopher E Canas**

Name

Certification No. 16-5978

Expires on 08/16/19



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.



# Asbestos Training Program

This is to certify

**Christopher Canas**

\*\*\*\*

Has successfully completed 40 hours  
of formal training entitled

**NIOSH 582  
Equivalency**

Presented By  
Environmental Compliance Training  
PO BOX 16555  
San Diego, CA. 92176  
(858) 558-7465

Director:   
Walter T. Amenta, CIH

Class Dates: 12/11/2017 to 12/15/2017  
Expiration Date: N/A  
Certification Number: 1217N582E-02





# 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**





# Certificate of Attendance

CERTIFICATE NUMBER

**32297**

*This is to Certify that*

**JESSE SANCHEZ**

*Has Completed the Course of*

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

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

**September 21, 2018**

COMPLETION DATE

**E091718NIOSH**

CLASS NUMBER / STARTING DATE

**091718**

CERTIFICATE EXPIRES

***Ecologics Training Institute***

State of California  
Division of Occupational Safety and Health  
**Certified Asbestos Consultant**

**Navid Salari**  
Name



Certification No. **94-1557**

Expires on **03/10/20**

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.

