

July 2, 2019

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

RE: May 2019 Air Monitoring Report for Rowland Hall 4<sup>th</sup> Floor, Room 411, Service Level, Electrical Room, & Stairwell #2

Dear Dean Bullock,

The attached report from Omega Environmental, dated June 27, 2019, provides air monitoring results during asbestos-related construction activities on the 4<sup>th</sup> Floor - Room 411, Service Level – Electrical Room, & Stairwell #2 of Rowland Hall, for the period of May 8 through 20, 2019.

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  
Industrial Hygiene Manager  
Environmental Health and Safety

Attachment



Asbestos Air Monitoring Summary Report  
University of California, Irvine  
Rowland Hall – 4<sup>th</sup> Floor, Room 411  
Service Level Electrical Room and Stairwell #2  
Irvine, California 92618

Project Number 2019-3250UCI  
June 27, 2019

Prepared For:

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

Prepared By:

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

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

Navid Salari  
Sr. Project Manager, CAC #94-1597

A handwritten signature in blue ink, appearing to read "Steve Rosas", is 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 (4<sup>th</sup> Floor Room 411, Service Level Electrical Room and Stairwell #2) Fire Life Safety (FLS) project 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 and assistance during the installation of 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) with Omega Environmental Services, Inc. (Omega). The above activities were performed from May 6 through May 20, 2019. The monitoring was performed at the direction of the UCI Environmental Health and Safety (EH&S) and 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 containment to determine the effectiveness of the isolation methods employed during the asbestos related activities. Clearance air samples were collected inside the work area 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>1</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) |
|-------------|----------|---|---------------|
| 05/08-09/19 | 01       | 4 <sup>th</sup> Floor, outside work area, decontamination unit, clean room / ceiling tile removal | <0.002        |
| 05/08-09/19 | 02       | 4 <sup>th</sup> Floor, outside work area, hallway by decontamination unit / ceiling tile removal  | <0.002        |
| 05/08-09/19 | 03       | 4 <sup>th</sup> Floor, outside work area, by negative air machine / ceiling tile removal          | <0.002        |
|             |          |   |               |
| 05/09-10/19 | 1        | Service floor, outside work area, electrical room / spot abatement                                | 0.003         |

<sup>1</sup> NIOSH-582 or equivalent – Individual trained to analyze samples by Phase Contrast Microscopy



| Date        | Sample # | Sample Locations / Work Activity  | Result (f/cc) |
|-------------|----------|---|---------------|
| 05/09-10/19 | 2        | Service floor, outside work area, electrical room, perimeter / spot abatement                         | 0.004         |
| 05/09-10/19 | 3        | Service floor, outside work area, electrical room, perimeter / spot abatement                         | 0.003         |
| 05/09-10/19 | 4        | Service floor, inside work area, electrical room / air clearance                                      | 0.004         |
| 05/09-10/19 | 5        | Service floor, inside work area, electrical room / air clearance                                      | 0.004         |
| 05/09-10/19 | 1        | 2 <sup>nd</sup> floor, stairwell #2, outside work area, perimeter / Pipe insulation removal           | <0.002        |
| 05/09-10/19 | 2        | 2 <sup>nd</sup> floor, stairwell #2, outside work area, perimeter / Pipe insulation removal           | <0.002        |
| 05/09-10/19 | 3        | 2 <sup>nd</sup> floor, stairwell #2, outside work area, perimeter / Pipe insulation removal           | <0.002        |
| 05/09-10/19 | 4        | 2 <sup>nd</sup> floor, stairwell #2, inside work area / air clearance                                 | <0.002        |
| 05/09-10/19 | 5        | 2 <sup>nd</sup> floor, stairwell #2, inside work area / air clearance                                 | 0.002         |
| 05/10-11/19 | 1        | 3 <sup>rd</sup> floor hallway / None  | <0.002        |
| 05/10-11/19 | 2        | 4 <sup>th</sup> floor, outside work area, decontamination unit / spot abatement                       | 0.004         |
| 05/10-11/19 | 3        | 4 <sup>th</sup> floor, outside work area, hallway / spot abatement                                    | 0.002         |
| 05/10-11/19 | 4        | 4 <sup>th</sup> floor, outside work area, negative air machine exhaust / spot abatement               | 0.003         |
| 05/10-11/19 | 5        | 4 <sup>th</sup> floor, outside work area hallway / spot abatement                                     | 0.003         |
| 05/10-11/19 | 6        | 5 <sup>th</sup> floor, hallway / None   | <0.002        |
| 05/11-12/19 | 1        | 4 <sup>th</sup> floor, inside work area (Room 411) / air clearance                                    | 0.003         |
| 05/11-12/19 | 2        | 4 <sup>th</sup> floor, inside work area (Room 411) / air clearance                                    | 0.003         |
| 05/11-12/19 | 3        | 4 <sup>th</sup> floor, inside work area (Room 411) / air clearance                                    | 0.004         |
| 05/13-14/19 | 1        | 3 <sup>rd</sup> floor, hallway / standpipe demolition   | <0.002        |
| 05/13-14/19 | 2        | 4 <sup>th</sup> floor, outside work area, decontamination unit / cosco install main and lines         | <0.002        |
| 05/13-14/19 | 3        | 4 <sup>th</sup> floor, outside work area, hallway / cosco install main and lines                      | <0.002        |
| 05/13-14/19 | 4        | 4 <sup>th</sup> floor, outside work area, negative air machine exhaust / cosco install main and lines | <0.002        |
| 05/13-14/19 | 5        | 4 <sup>th</sup> floor, outside work area, hallway / cosco install main and lines                      | <0.002        |
| 05/13-14/19 | 6        | 5 <sup>th</sup> floor, hallway / standpipe demolition   | <0.002        |
| 05/14-15/19 | 1        | 3 <sup>rd</sup> floor, hallway / standpipe demolition   | <0.002        |
| 05/14-15/19 | 2        | 4 <sup>th</sup> floor, outside work area, decontamination unit / cosco install main and lines         | 0.003         |
| 05/14-15/19 | 3        | 4 <sup>th</sup> floor, outside work area, hallway / cosco install main and lines                      | <0.002        |
| 05/14-15/19 | 4        | 4 <sup>th</sup> floor, outside work area, negative air machine exhaust / cosco install main and lines | 0.003         |
| 05/14-15/19 | 5        | 4 <sup>th</sup> floor, outside work area, hallway / cosco install main and lines                      | <0.002        |
| 05/14-15/19 | 6        | 5 <sup>th</sup> floor, hallway / standpipe demolition   | <0.002        |
| 05/15-16/19 | 1        | 3 <sup>rd</sup> floor, hallway / standpipe demolition   | <0.002        |
| 05/15-16/19 | 2        | 4 <sup>th</sup> floor, outside work area, decontamination unit / cosco install main and lines         | <0.002        |
| 05/15-16/19 | 3        | 4 <sup>th</sup> floor, outside work area, hallway / cosco install main and lines                      | <0.002        |
| 05/15-16/19 | 4        | 4 <sup>th</sup> floor, outside work area, negative air machine exhaust / cosco install main and lines | <0.002        |
| 05/15-16/19 | 5        | 4 <sup>th</sup> floor, outside work area, hallway / cosco install main and lines                      | <0.002        |



| Date        | Sample # | Sample Locations / Work Activity   | Result (f/cc) |
|-------------|----------|--|---------------|
| 05/15-16/19 | 6        | 5 <sup>th</sup> floor, hallway / standpipe demolition  | <0.002        |
| 05/16-17/19 | 1        | 3 <sup>rd</sup> floor, hallway / standpipe demolition  | <0.002        |
| 05/16-17/19 | 2        | 4 <sup>th</sup> floor, outside work area, decontamination unit / cosco install main and lines                      | <0.002        |
| 05/16-17/19 | 3        | 4 <sup>th</sup> floor, outside work area, hallway / cosco install main and lines                                   | <0.002        |
| 05/16-17/19 | 4        | 4 <sup>th</sup> floor, outside work area, negative air machine exhaust / cosco install main and lines              | <0.002        |
| 05/16-17/19 | 5        | 4 <sup>th</sup> floor, outside work area, hallway / cosco install main and lines                                   | <0.002        |
| 05/16-17/19 | 6        | 5 <sup>th</sup> floor, hallway / standpipe demolition  | <0.002        |
| 05/17-18/19 | 1        | 3 <sup>rd</sup> floor, hallway / standpipe demolition  | <0.002        |
| 05/17-18/19 | 2        | 4 <sup>th</sup> floor, outside work area, decontamination unit / cosco install main and lines                      | <0.002        |
| 05/17-18/19 | 3        | 4 <sup>th</sup> floor, outside work area, hallway / cosco install main and lines                                   | <0.002        |
| 05/17-18/19 | 4        | 4 <sup>th</sup> floor, outside work area, negative air machine exhaust / cosco install main and lines              | <0.002        |
| 05/17-18/19 | 5        | 4 <sup>th</sup> floor, outside work area, hallway / cosco install main and lines                                   | <0.002        |
| 05/17-18/19 | 6        | 5 <sup>th</sup> floor hallway / standpipe demolition   | <0.002        |
| 05/18-19/19 | 1        | 4 <sup>th</sup> floor, outside work area, decontamination unit / BNB replacing ceiling tiles, ECG clean up         | 0.002         |
| 05/18-19/19 | 2        | 4 <sup>th</sup> floor, outside work area, hallway / BNB replacing ceiling tiles, ECG clean up                      | <0.002        |
| 05/18-19/19 | 3        | 4 <sup>th</sup> floor, outside work area, negative air machine exhaust / BNB replacing ceiling tiles, ECG clean up | <0.002        |
| 05/18-19/19 | 4        | 5 <sup>th</sup> floor hallway elevators / None   | <0.002        |
| 05/18-19/19 | 5        | 3 <sup>rd</sup> floor, hallway / None  | <0.002        |
| 5/20/10     | 1        | 4 <sup>th</sup> floor, inside work area (Room 411) / Final air clearance   | <0.002        |
| 5/20/10     | 2        | 4 <sup>th</sup> floor, inside work area (Room 411) / Final air clearance   | <0.002        |
| 5/20/10     | 3        | 4 <sup>th</sup> floor, inside work area (Room 411) / Final air clearance   | <0.002        |


*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 Project Air Monitoring Data Sheet

|                       |  |   |
|-----------------------|--|---|
| Project Number:       | 2019-3250UCI                                   |  |
| Project Site Address: | Rowland Hall – 4 <sup>th</sup> Floor, Room 411 |   |
| Sample Date:          | 05/08-09/2019                                  |   |
| Analysis type:        | PCM (NIOSH 7400A)                              |   |
| Analysis by:          | Chris Canas                                    |   |
| Date Analyzed:        | 05/09/2019                                     |   |

|   |  |                    |
|---|--|--------------------|
| Sample ID: 01   | Start time: 2215                                 | End time: 0515     |
| Sample location: 4 <sup>th</sup> Floor – outside work area , decontamination unit, clean room | Flow rate (LPM): 3.0                             |                    |
|   | Total time: 420                                  | Total volume: 1260 |
| Work activity: Ceiling tile removal   | No of fibers: 3.5                                | No of fields: 100  |
|   | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:   |  |                    |

|   |  |                    |
|---|--|--------------------|
| Sample ID: 02   | Start time: 2216                                 | End time: 0516     |
| Sample location: 4 <sup>th</sup> Floor – outside work area , hallway, by decontamination unit | Flow rate (LPM): 3.0                             |                    |
|   | Total time: 420                                  | Total volume: 1260 |
| Work activity: Ceiling tile removal   | No of fibers: 4.5                                | No of fields: 100  |
|   | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:   |  |                    |

|  |  |                    |
|--|--|--------------------|
| Sample ID: 03  | Start time: 0600                                 | End time: 1400     |
| Sample location: 4 <sup>th</sup> Floor – outside work area , by negative air machine exhaust | Flow rate (LPM): 3.0                             |                    |
|  | Total time: 420                                  | Total volume: 1260 |
| Work activity: Ceiling tile removal  | No of fibers: 4                                  | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| 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) | : Chris Canas |                                   |
| Signature           | : Chris Canas | Page <u>  1  </u> of <u>  1  </u> |



## Asbestos Project Air Monitoring Data (PCM)

|                       |   |   |
|-----------------------|---|---|
| Project Number:       | 2019-3250UCI                                  |  |
| Project Site Address: | Rowland Hall – Service Floor, Electrical room |   |
| Sample Date:          | 5/09–10/2019                                  |   |
| Analysis type:        | PCM (NIOSH 7400A)                             |   |
| Analysis by:          | Christopher Cañas                             |   |
| Date Analyzed:        | 05/10/19                                      |   |

|   |   |                    |
|---|---|--------------------|
| Sample ID: 1  | Start time: 10:12PM                             | End time: 5:12AM   |
| Sample location: Service Floor – Outside work area, Electrical Room | Flow rate (LPM): 3                              |                    |
|   | Total time: 420                                 | Total volume: 1260 |
| Work activity: Spot Abatement                                       | No of fibers: 8                                 | No of fields: 100  |
|   | Airborne fiber concentration (fibers/cc): 0.003 |                    |
| Other comments:   |   |                    |

|  |   |                    |
|--|---|--------------------|
| Sample ID: 2   | Start time: 10:10PM                             | End time: 5:10AM   |
| Sample location: Service Floor – Outside work area, Electrical Room, Perimeter | Flow rate (LPM): 3                              |                    |
|  | Total time: 420                                 | Total volume: 1260 |
| Work activity: Spot Abatement  | No of fibers: 10                                | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): 0.004 |                    |
| Other comments:  |   |                    |


|   |   |                    |
|---|---|--------------------|
| Sample ID: 3  | Start time: 10:14PM                             | End time: 5:14AM   |
| Sample location: Service Floor, Outside work area, Electrical Room, Perimeter | Flow rate (LPM): 3                              |                    |
|   | Total time: 420                                 | Total volume: 1260 |
| Work activity: Spot Abatement   | No of fibers: 7.5                               | No of fields: 100  |
|   | Airborne fiber concentration (fibers/cc): 0.003 |                    |
| Other comments:   |   |                    |

|   |   |                    |
|---|---|--------------------|
| Sample ID: 4  | Start time: 8:11PM                              | End time: 10:11PM  |
| Sample location: Service Floor - Inside work area Electrical Room | Flow rate (LPM): 10                             |                    |
|   | Total time: 120                                 | Total volume: 1200 |
| Work activity: Air Clearance                                      | No of fibers: 11                                | No of fields: 100  |
|   | Airborne fiber concentration (fibers/cc): 0.004 |                    |
| Other comments:   |   |                    |

|  |   |                    |
|--|---|--------------------|
| Sample ID: 5   | Start time: 8:12PM                              | End time: 10:12PM  |
| Sample location: Service Floor, Inside work area Electrical Room | Flow rate (LPM): 10                             |                    |
|  | Total time: 120                                 | Total volume: 1200 |
| Work activity: Air Clearance                                     | No of fibers: 9.5                               | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): 0.004 |                    |
| Other comments:  |   |                    |

|                     |                     |                                   |
|---------------------|---------------------|-----------------------------------|
| Sample name (print) | : Christopher Cañas |                                   |
| Signature           | : Christopher Cañas | Page <u>  1  </u> of <u>  2  </u> |

## Asbestos Project Air Monitoring Data (PCM)


|                       |   |   |
|-----------------------|---|---|
| Project Number:       | 2019-3250UCI                                  |  |
| Project Site Address: | Rowland Hall – Service Floor, Electrical room |   |
| Sample Date:          | 5/09–10/2019                                  |   |
| Analysis type:        | PCM (NIOSH 7400A)                             |   |
| Analysis by:          | Christopher Cañas                             |   |
| Date Analyzed:        | 05/10/19                                      |   |

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

|                               |   |                   |
|-------------------------------|---|-------------------|
| Sample ID: 7                  | Start time: *                               | End time: *       |
| Sample location: Sealed Blank | Flow rate (LPM): *                          |                   |
|                               | Total time: *                               | Total volume: *   |
| Work activity:                | No of fibers: 0                             | No of fields: 100 |
|                               | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:               |   |                   |

|                     |                     |                               |
|---------------------|---------------------|-------------------------------|
| Sample name (print) | : Christopher Cañas |                               |
| Signature           | : Christopher Cañas | Page <u> 2 </u> of <u> 2 </u> |

## Asbestos Project Air Monitoring Data (PCM)

|                       |  |   |
|-----------------------|--|---|
| Project Number:       | 2019-3250UCI                                       |  |
| Project Site Address: | Rowland Hall - 2 <sup>nd</sup> Floor, Stairwell #2 |   |
| Sample Date:          | 5/09–10/2019                                       |   |
| Analysis type:        | PCM (NIOSH 7400A)                                  |   |
| Analysis by:          | Christopher Canas                                  |   |
| Date Analyzed:        | 5/10/19  |   |

|   |  |                    |
|---|--|--------------------|
| Sample ID: 1  | Start time: 10:20PM                              | End time: 5:20AM   |
| Sample location: Outside work area, 2 <sup>nd</sup> Floor | Flow rate (LPM): 3                               |                    |
| Stairwell #2, Perimeter                                   | Total time: 420                                  | Total volume: 1260 |
| Work activity: Pipe insulation removal                    | No of fibers: 5                                  | No of fields: 100  |
| Glove bag procedures                                      | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:   |  |                    |

|   |  |                    |
|---|--|--------------------|
| Sample ID: 2  | Start time: 10:20PM                              | End time: 5:20AM   |
| Sample location: Outside work area, 2 <sup>nd</sup> Floor | Flow rate (LPM): 3                               |                    |
| Stairwell #2, Perimeter                                   | Total time: 420                                  | Total volume: 1260 |
| Work activity: Pipe insulation removal                    | No of fibers: 3.5                                | No of fields: 100  |
| Glove bag procedures                                      | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:   |  |                    |

|   |  |                    |
|---|--|--------------------|
| Sample ID: 3  | Start time: 10:20PM                              | End time: 5:20AM   |
| Sample location: Outside work area, 2 <sup>nd</sup> Floor | Flow rate (LPM): 3                               |                    |
| Stairwell #2, Perimeter                                   | Total time: 420                                  | Total volume: 1260 |
| Work activity: Pipe insulation removal                    | No of fibers: 3                                  | No of fields: 100  |
| Glove bag procedures                                      | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:   |  |                    |


|  |  |                     |
|--|--|---------------------|
| Sample ID: 4   | Start time: 8:20PM                               | End time: 10:20PM   |
| Sample location: Inside work area, 2 <sup>nd</sup> Floor | Flow rate (LPM): 10                              |                     |
| Stairwell #2   | Total time: 120                                  | Total volume: 1,200 |
| Work activity: Air Clearance                             | No of fibers: 5                                  | No of fields: 100   |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| Other comments:  |  |                     |

|  |   |                    |
|--|---|--------------------|
| Sample ID: 5   | Start time: 8:21PM                              | End time: 10:21PM  |
| Sample location: Inside work area, 2 <sup>nd</sup> floor | Flow rate (LPM): 10                             |                    |
| Stairwell #2   | Total time: 120                                 | Total volume: 1200 |
| Work activity: Air Clearance                             | No of fibers: 6                                 | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): 0.002 |                    |
| Other comments:  |   |                    |

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

|                     |                     |                                   |
|---------------------|---------------------|-----------------------------------|
| Sample name (print) | : Christopher Cañas |                                   |
| Signature           | : Christopher Cañas | Page <u>  1  </u> of <u>  2  </u> |


## Asbestos Project Air Monitoring Data (PCM)

|                       |  |   |
|-----------------------|--|---|
| Project Number:       | 2019-3250UCI                                       |  |
| Project Site Address: | Rowland Hall - 2 <sup>nd</sup> Floor, Stairwell #2 |   |
| Sample Date:          | 5/09–10/2019                                       |   |
| Analysis type:        | PCM (NIOSH 7400A)                                  |   |
| Analysis by:          | Christopher Cañas                                  |   |
| Date Analyzed:        | 5/10/19  |   |

|                               |   |                   |
|-------------------------------|---|-------------------|
| Sample ID: 7                  | Start time: *                               | End time: *       |
| Sample location: Sealed Blank | Flow rate (LPM): *                          |                   |
|                               | Total time: *                               | Total volume: *   |
| Work activity:                | No of fibers: 0                             | No of fields: 100 |
|                               | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:               |   |                   |

|                     |                     |                               |
|---------------------|---------------------|-------------------------------|
| Sample name (print) | : Christopher Cañas |                               |
| Signature           | : Christopher Cañas | Page <u> 2 </u> of <u> 2 </u> |

## Asbestos Project Air Monitoring Data (PCM)

|                       |  |   |
|-----------------------|--|---|
| Project Number:       | 2019-3250UCI                                   |  |
| Project Site Address: | Rowland Hall – 4 <sup>th</sup> Floor, Room 411 |   |
| Sample Date:          | 05/10-11/2019                                  |   |
| Analysis type:        | PCM (NIOSH 7400A)                              |   |
| Analysis by:          | Christopher Cañas                              |   |
| Date Analyzed:        | 05/11/2019                                     |   |

|  |  |                    |
|--|--|--------------------|
| Sample ID: 1                                     | Start time: 7:18pm                               | End time: 1:18am   |
| Sample location: 3 <sup>rd</sup> Floor – hallway | Flow rate (LPM): 3.5                             |                    |
|  | Total time: 360                                  | Total volume: 1260 |
| Work activity: None                              | No of fibers: 3                                  | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:                                  |  |                    |

|   |   |                    |
|---|---|--------------------|
| Sample ID: 2  | Start time: 7:20pm                              | End time: 1:20am   |
| Sample location: 4 <sup>th</sup> Floor – Outside work area , decontamination unit | Flow rate (LPM): 3.5                            |                    |
|   | Total time: 360                                 | Total volume: 1260 |
| Work activity: Spot Abatement   | No of fibers: 10                                | No of fields: 100  |
|   | Airborne fiber concentration (fibers/cc): 0.004 |                    |
| Other comments:   |   |                    |

|  |   |                    |
|--|---|--------------------|
| Sample ID: 3   | Start time: 7:21pm                              | End time: 1:21am   |
| Sample location: 4 <sup>th</sup> Floor – Outside work area , hallway | Flow rate (LPM): 3.5                            |                    |
|  | Total time: 360                                 | Total volume: 1260 |
| Work activity: Spot Abatement  | No of fibers: 6                                 | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): 0.002 |                    |
| Other comments:  |   |                    |


|  |   |                    |
|--|---|--------------------|
| Sample ID: 4   | Start time: 7:22pm                              | End time: 1:22am   |
| Sample location: 4 <sup>th</sup> Floor – outside work area , by negative air machine exhaust | Flow rate (LPM): 3.5                            |                    |
|  | Total time: 360                                 | Total volume: 1260 |
| Work activity: Spot Abatement  | No of fibers: 8.5                               | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): 0.003 |                    |
| Other comments:  |   |                    |

|  |   |                    |
|--|---|--------------------|
| Sample ID: 5   | Start time: 7:23pm                              | End time: 1:23am   |
| Sample location: 4 <sup>th</sup> Floor – outside work area , hallway | Flow rate (LPM): 3.5                            |                    |
|  | Total time: 360                                 | Total volume: 1260 |
| Work activity: Spot Abatement  | No of fibers: 7                                 | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): 0.003 |                    |
| Other comments:  |   |                    |

|  |  |                    |
|--|--|--------------------|
| Sample ID: 6                                     | Start time: 7:25pm                               | End time: 1:25am   |
| Sample location: 5 <sup>th</sup> Floor – hallway | Flow rate (LPM): 3.5                             |                    |
|  | Total time: 360                                  | Total volume: 1260 |
| Work activity: None                              | No of fibers: 2                                  | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                    |

|                     |                     |                                   |
|---------------------|---------------------|-----------------------------------|
| Sample name (print) | : Christopher Cañas |                                   |
| Signature           | : Christopher Cañas | Page <u>  1  </u> of <u>  2  </u> |

## Asbestos Project Air Monitoring Data (PCM)

|                       |  |   |
|-----------------------|--|---|
| Project Number:       | 2019-3250UCI                                   |  |
| Project Site Address: | Rowland Hall – 4 <sup>th</sup> Floor, Room 411 |   |
| Sample Date:          | 05/10-11/2019                                  |   |
| Analysis type:        | PCM (NIOSH 7400A)                              |   |
| Analysis by:          | Christopher Cañas                              |   |
| Date Analyzed:        | 05/11/2019                                     |   |

|                              |   |                   |
|------------------------------|---|-------------------|
| Sample ID: 7                 | Start time: *                               | End time: *       |
| Sample location: Field Blank | Flow rate (LPM): *                          |                   |
|                              | Total time: *                               | Total volume: *   |
| Work activity:               | No of fibers: 0                             | No of fields: 100 |
|                              | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:              |   |                   |


|                               |   |                   |
|-------------------------------|---|-------------------|
| Sample ID: 8                  | Start time: *                               | End time: *       |
| Sample location: Sealed Blank | Flow rate (LPM): *                          |                   |
|                               | Total time: *                               | Total volume: *   |
| Work activity:                | 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 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) | : Christopher Cañas |                                   |
| Signature           | : Christopher Cañas | Page <u>  2  </u> of <u>  2  </u> |

## Asbestos Project Air Monitoring Data (PCM)

|                       |  |   |
|-----------------------|--|---|
| Project Number:       | 2019-3250UCI                                   |  |
| Project Site Address: | Rowland Hall – 4 <sup>th</sup> Floor, Room 411 |   |
| Sample Date:          | 05/11-12/2019                                  |   |
| Analysis type:        | PCM (NIOSH 7400A)                              |   |
| Analysis by:          | Christopher Cañas                              |   |
| Date Analyzed:        | 05/12/2019                                     |   |


|  |   |                    |
|--|---|--------------------|
| Sample ID: 1   | Start time: 11:10pm                             | End time: 1:10am   |
| Sample location: 4 <sup>th</sup> Floor – Inside work area (Room 411) | Flow rate (LPM): 10                             |                    |
|  | Total time: 120                                 | Total volume: 1200 |
| Work activity: Air Clearance   | No of fibers: 8                                 | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): 0.003 |                    |
| Other comments:  |   |                    |

|  |   |                    |
|--|---|--------------------|
| Sample ID: 2   | Start time: 11:10pm                             | End time: 1:10am   |
| Sample location: 4 <sup>th</sup> Floor – Inside work area (Room 411) | Flow rate (LPM): 10                             |                    |
|  | Total time: 120                                 | Total volume: 1200 |
| Work activity: Air Clearance   | No of fibers: 6.5                               | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): 0.003 |                    |
| Other comments:  |   |                    |

|  |   |                    |
|--|---|--------------------|
| Sample ID: 3   | Start time: 11:10pm                             | End time: 1:10am   |
| Sample location: 4 <sup>th</sup> Floor – Inside work area (Room 411) | Flow rate (LPM): 10                             |                    |
|  | Total time: 120                                 | Total volume: 1200 |
| Work activity: Air Clearance   | No of fibers: 9                                 | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): 0.004 |                    |
| Other comments:  |   |                    |

|                     |                     |                                   |
|---------------------|---------------------|-----------------------------------|
| Sample name (print) | : Christopher Cañas |                                   |
| Signature           | : Christopher Cañas | Page <u>  1  </u> of <u>  1  </u> |

## Asbestos Project Air Monitoring Data (PCM)

|                       |                        |   |
|-----------------------|------------------------|---|
| Project Number:       | 2019-3250UCI           |  |
| Project Site Address: | Rowland Hall, Room 411 |   |
| Sample Date:          | 5/13/19 – 5/14/19      |   |
| Analysis type:        | PCM (NIOSH 7400A)      |   |
| Analysis by:          | Christopher Cañas      |   |
| Date Analyzed:        | 5/14/19                |   |

|  |  |                    |
|--|--|--------------------|
| Sample ID: 1                                     | Start time: 10:00pm                              | End time: 4:30am   |
| Sample location: 3 <sup>rd</sup> floor – hallway | Flow rate (LPM): 3.5                             |                    |
|  | Total time: 390                                  | Total volume: 1365 |
| Work activity: standpipe demo                    | No of fibers: 2.5                                | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:                                  |  |                    |

|  |  |                    |
|--|--|--------------------|
| Sample ID: 2   | Start time: 10:02pm                              | End time: 4:32am   |
| Sample location: 4 <sup>th</sup> floor – outside work area | Flow rate (LPM): 3.5                             |                    |
| Decontamination unit                                       | Total time: 390                                  | Total volume: 1365 |
| Work activity: install mains and lines (cosco)             | No of fibers: 5                                  | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:  |  |                    |

|  |  |                    |
|--|--|--------------------|
| Sample ID: 3   | Start time: 10:02pm                              | End time: 4:32am   |
| Sample location: 4 <sup>th</sup> floor – outside work area | Flow rate (LPM): 3.5                             |                    |
| hallway  | Total time: 390                                  | Total volume: 1365 |
| Work activity: install mains and lines (cosco)             | No of fibers: 3                                  | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:  |  |                    |

|  |  |                     |
|--|--|---------------------|
| Sample ID: 4   | Start time: 10:02pm                              | End time: 4:32am    |
| Sample location: 4 <sup>th</sup> floor – outside work area | Flow rate (LPM): 3.5                             |                     |
| Negative air machine exhaust                               | Total time: 390                                  | Total volume: 1,365 |
| Work activity: install mains and lines (cosco)             | No of fibers: 4.5                                | No of fields: 100   |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| Other comments:  |  |                     |


|  |  |                     |
|--|--|---------------------|
| Sample ID: 5   | Start time: 10:02pm                              | End time: 4:32am    |
| Sample location: 4 <sup>th</sup> floor – outside work area | Flow rate (LPM): 3.5                             |                     |
| hallway  | Total time: 390                                  | Total volume: 1,365 |
| Work activity: install mains and lines (cosco)             | No of fibers: 4                                  | No of fields: 100   |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| Other comments:  |  |                     |

|  |  |                     |
|--|--|---------------------|
| Sample ID: 6                                     | Start time: 10:04pm                              | End time: 4:30am    |
| Sample location: 5 <sup>th</sup> floor – hallway | Flow rate (LPM): 3.5                             |                     |
|  | Total time: 390                                  | Total volume: 1,365 |
| Work activity: standpipe demo                    | No of fibers: 2                                  | No of fields: 100   |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| Other comments:                                  |  |                     |

|                     |                     |                                   |
|---------------------|---------------------|-----------------------------------|
| Sample name (print) | : Christopher Cañas |                                   |
| Signature           | : Chris Canaz       | Page <u>  1  </u> of <u>  2  </u> |



## Asbestos Project Air Monitoring Data (PCM)


|                       |                        |   |
|-----------------------|------------------------|---|
| Project Number:       | 2019-3250UCI           |  |
| Project Site Address: | Rowland Hall, Room 411 |   |
| Sample Date:          | 5/13/19 – 5/14/19      |   |
| Analysis type:        | PCM (NIOSH 7400A)      |   |
| Analysis by:          | Christopher Cañas      |   |
| Date Analyzed:        | 5/14/19                |   |

|                              |   |                   |
|------------------------------|---|-------------------|
| Sample ID: 7                 | Start time: *                               | End time: *       |
| Sample location: Field blank | Flow rate (LPM): *                          |                   |
|                              | Total time: *                               | Total volume: *   |
| Work activity:               | No of fibers: 0                             | No of fields: 100 |
|                              | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:              |   |                   |

|                               |   |                   |
|-------------------------------|---|-------------------|
| Sample ID: 8                  | Start time: *                               | End time: *       |
| Sample location: Sealed blank | Flow rate (LPM): *                          |                   |
|                               | Total time: *                               | Total volume: *   |
| Work activity:                | No of fibers: 0                             | No of fields: 100 |
|                               | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:               |   |                   |

|                     |                     |                                   |
|---------------------|---------------------|-----------------------------------|
| Sample name (print) | : Christopher Cañas |                                   |
| Signature           | :Chris Canas        | Page <u>  2  </u> of <u>  2  </u> |

## Asbestos Project Air Monitoring Data (PCM)

|                       |  |   |
|-----------------------|--|---|
| Project Number:       | 2019-3250UCI                                   |  |
| Project Site Address: | Rowland Hall – 4 <sup>th</sup> Floor, Room 411 |   |
| Sample Date:          | 5/14/19 – 5/15/19                              |   |
| Analysis type:        | PCM (NIOSH 7400A)                              |   |
| Analysis by:          | Christopher Cañas                              |   |
| Date Analyzed:        | 5/15/19  |   |

|  |  |                    |
|--|--|--------------------|
| Sample ID: 1                                     | Start time: 10:00pm                              | End time: 4:30am   |
| Sample location: 3 <sup>rd</sup> floor – hallway | Flow rate (LPM): 3.5                             |                    |
|  | Total time: 390                                  | Total volume: 1365 |
| Work activity: standpipe demo                    | No of fibers: 2.5                                | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:                                  |  |                    |

|  |   |                    |
|--|---|--------------------|
| Sample ID: 2   | Start time: 10:02pm                             | End time: 4:32am   |
| Sample location: 4 <sup>th</sup> floor – outside work area | Flow rate (LPM): 3.5                            |                    |
| Decontamination unit                                       | Total time: 390                                 | Total volume: 1365 |
| Work activity: install mains and lines (cosco)             | No of fibers: 7.5                               | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): 0.003 |                    |
| Other comments:  |   |                    |

|  |  |                    |
|--|--|--------------------|
| Sample ID: 3   | Start time: 10:02pm                              | End time: 4:32am   |
| Sample location: 4 <sup>th</sup> floor – outside work area hallway | Flow rate (LPM): 3.5                             |                    |
|  | Total time: 390                                  | Total volume: 1365 |
| Work activity: install mains and lines (cosco)                     | No of fibers: 3                                  | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:  |  |                    |


|  |   |                    |
|--|---|--------------------|
| Sample ID: 4   | Start time: 10:02pm                             | End time: 4:32am   |
| Sample location: 4 <sup>th</sup> floor – outside work area | Flow rate (LPM): 3.5                            |                    |
| Negative air machine exhaust                               | Total time: 390                                 | Total volume: 1365 |
| Work activity: install mains and lines (cosco)             | No of fibers: 9                                 | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): 0.003 |                    |
| Other comments:  |   |                    |

|  |  |                     |
|--|--|---------------------|
| Sample ID: 5   | Start time: 10:02pm                              | End time: 4:32am    |
| Sample location: 4 <sup>th</sup> floor – outside work area hallway | Flow rate (LPM): 3.5                             |                     |
|  | Total time: 390                                  | Total volume: 1,365 |
| Work activity: install mains and lines (cosco)                     | No of fibers: 4.5                                | No of fields: 100   |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| Other comments:  |  |                     |

|  |  |                     |
|--|--|---------------------|
| Sample ID: 6                                     | Start time: 10:04pm                              | End time: 4:30am    |
| Sample location: 5 <sup>th</sup> floor – hallway | Flow rate (LPM): 3.5                             |                     |
|  | Total time: 390                                  | Total volume: 1,365 |
| Work activity: standpipe demo                    | No of fibers: 5                                  | No of fields: 100   |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| Other comments:                                  |  |                     |

|                     |                     |                                   |
|---------------------|---------------------|-----------------------------------|
| Sample name (print) | : Christopher Cañas |                                   |
| Signature           | : Chris Canas       | Page <u>  1  </u> of <u>  2  </u> |

## Asbestos Project Air Monitoring Data (PCM)


|                       |  |   |
|-----------------------|--|---|
| Project Number:       | 2019-3250UCI                                   |  |
| Project Site Address: | Rowland Hall – 4 <sup>th</sup> Floor, Room 411 |   |
| Sample Date:          | 5/14/19 – 5/15/19                              |   |
| Analysis type:        | PCM (NIOSH 7400A)                              |   |
| Analysis by:          | Christopher Cañas                              |   |
| Date Analyzed:        | 5/15/19  |   |

|                              |   |                   |
|------------------------------|---|-------------------|
| Sample ID: 7                 | Start time: *                               | End time: *       |
| Sample location: Field blank | Flow rate (LPM): *                          |                   |
|                              | Total time: *                               | Total volume: *   |
| Work activity:               | No of fibers: 0                             | No of fields: 100 |
|                              | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:              |   |                   |

|                               |   |                   |
|-------------------------------|---|-------------------|
| Sample ID: 8                  | Start time: *                               | End time: *       |
| Sample location: Sealed blank | Flow rate (LPM): *                          |                   |
|                               | Total time: *                               | Total volume: *   |
| Work activity:                | No of fibers: 0                             | No of fields: 100 |
|                               | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:               |   |                   |

|                     |                     |                                   |
|---------------------|---------------------|-----------------------------------|
| Sample name (print) | : Christopher Cañas |                                   |
| Signature           | : Chris canas       | Page <u>  2  </u> of <u>  2  </u> |

## Asbestos Project Air Monitoring Data (PCM)

|                       |  |   |
|-----------------------|--|---|
| Project Number:       | 2019-3250UCI                                   |  |
| Project Site Address: | Rowland Hall – 4 <sup>th</sup> Floor, Room 411 |   |
| Sample Date:          | 5/15/19 – 5/16/19                              |   |
| Analysis type:        | PCM (NIOSH 7400A)                              |   |
| Analysis by:          | Christopher Cañas                              |   |
| Date Analyzed:        | 5/16/19  |   |

|  |  |                   |
|--|--|-------------------|
| Sample ID: 1                                     | Start time: 10:00pm                              | End time: 4:30am  |
| Sample location: 3 <sup>rd</sup> floor – hallway | Flow rate (LPM): 3.5                             |                   |
|  | Total time: 390                                  | Total volume:1365 |
| Work activity: standpipe demo                    | No of fibers: 2.5                                | No of fields: 100 |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                   |
| Other comments:                                  |  |                   |

|  |  |                    |
|--|--|--------------------|
| Sample ID: 2   | Start time: 10:02pm                              | End time: 4:32am   |
| Sample location: 4 <sup>th</sup> floor – outside work area | Flow rate (LPM): 3.5                             |                    |
| Decontamination unit                                       | Total time: 390                                  | Total volume:1,365 |
| Work activity: install mains and lines (cosco)             | No of fibers: 5                                  | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:  |  |                    |

|  |  |                   |
|--|--|-------------------|
| Sample ID: 3   | Start time: 10:02pm                              | End time: 4:32am  |
| Sample location: 4 <sup>th</sup> floor – outside work area | Flow rate (LPM): 3.5                             |                   |
| hallway  | Total time: 390                                  | Total volume:1365 |
| Work activity: install mains and lines (cosco)             | No of fibers: 3                                  | No of fields: 100 |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                   |
| Other comments:  |  |                   |


|  |  |                   |
|--|--|-------------------|
| Sample ID: 4   | Start time: 10:02pm                              | End time: 4:32am  |
| Sample location: 4 <sup>th</sup> floor – outside work area | Flow rate (LPM): 3.5                             |                   |
| Negative air machine exhaust                               | Total time: 390                                  | Total volume:1365 |
| Work activity: install mains and lines (cosco)             | No of fibers: 4.5                                | No of fields: 100 |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                   |
| Other comments:  |  |                   |

|  |  |                   |
|--|--|-------------------|
| Sample ID: 5   | Start time: 10:02pm                              | End time: 4:32am  |
| Sample location: 4 <sup>th</sup> floor – outside work area | Flow rate (LPM): 3.5                             |                   |
| hallway  | Total time: 390                                  | Total volume:1365 |
| Work activity: install mains and lines (cosco)             | No of fibers: 4                                  | No of fields: 100 |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                   |
| Other comments:  |  |                   |

|  |  |                   |
|--|--|-------------------|
| Sample ID: 6                                     | Start time: 10:04pm                              | End time: 4:30am  |
| Sample location: 5 <sup>th</sup> floor – hallway | Flow rate (LPM): 3.5                             |                   |
|  | Total time: 390                                  | Total volume:1365 |
| Work activity: standpipe demo                    | No of fibers: 2                                  | No of fields: 100 |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                   |
| Other comments:                                  |  |                   |

|                     |                     |                                   |
|---------------------|---------------------|-----------------------------------|
| Sample name (print) | : Christopher Cañas |                                   |
| Signature           | : Chris canas       | Page <u>  1  </u> of <u>  2  </u> |

## Asbestos Project Air Monitoring Data (PCM)


|                       |  |   |
|-----------------------|--|---|
| Project Number:       | 2019-3250UCI                                   |  |
| Project Site Address: | Rowland Hall – 4 <sup>th</sup> Floor, Room 411 |   |
| Sample Date:          | 5/15/19 – 5/16/19                              |   |
| Analysis type:        | PCM (NIOSH 7400A)                              |   |
| Analysis by:          | Christopher Cañas                              |   |
| Date Analyzed:        | 5/16/19  |   |

|                              |   |                   |
|------------------------------|---|-------------------|
| Sample ID: 7                 | Start time: *                               | End time: *       |
| Sample location: Field blank | Flow rate (LPM): *                          |                   |
|                              | Total time: *                               | Total volume: *   |
| Work activity:               | No of fibers: 0                             | No of fields: 100 |
|                              | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:              |   |                   |

|                               |   |                   |
|-------------------------------|---|-------------------|
| Sample ID: 8                  | Start time: *                               | End time: *       |
| Sample location: Sealed blank | Flow rate (LPM): *                          |                   |
|                               | Total time: *                               | Total volume: *   |
| Work activity:                | No of fibers: 0                             | No of fields: 100 |
|                               | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:               |   |                   |

|                     |                     |                                   |
|---------------------|---------------------|-----------------------------------|
| Sample name (print) | : Christopher Cañas |                                   |
| Signature           | : Chris canas       | Page <u>  2  </u> of <u>  2  </u> |

## Asbestos Project Air Monitoring Data (PCM)

|                       |                         |   |
|-----------------------|-------------------------|---|
| Project Number:       | 2019-3250UCI            |  |
| Project Site Address: | Rowland Hall – Room 411 |   |
| Sample Date:          | 5/16/19 – 5/17/19       |   |
| Analysis type:        | PCM (NIOSH 7400A)       |   |
| Analysis by:          | Christopher Cañas       |   |
| Date Analyzed:        | 5/17/19                 |   |

|  |  |                     |
|--|--|---------------------|
| Sample ID: 1                                     | Start time: 10:00pm                              | End time: 4:30am    |
| Sample location: 3 <sup>rd</sup> floor – hallway | Flow rate (LPM): 3.5                             |                     |
|  | Total time: 390                                  | Total volume: 1,365 |
| Work activity: standpipe demo                    | No of fibers: 2.5                                | No of fields: 100   |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| <b>Other comments:</b>                           |  |                     |

|   |  |                     |
|---|--|---------------------|
| Sample ID: 2  | Start time: 10:02pm                              | End time: 4:32am    |
| Sample location: 4 <sup>th</sup> floor – outside work area, by decontamination unit | Flow rate (LPM): 3.5                             |                     |
|   | Total time: 390                                  | Total volume: 1,365 |
| Work activity: install mains and lines (cosco)                                      | No of fibers: 5                                  | No of fields: 100   |
|   | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| <b>Other comments:</b>  |  |                     |

|   |  |                     |
|---|--|---------------------|
| Sample ID: 3  | Start time: 10:02pm                              | End time: 4:32am    |
| Sample location: 4 <sup>th</sup> floor – outside work area, hallway | Flow rate (LPM): 3.5                             |                     |
|   | Total time: 390                                  | Total volume: 1,365 |
| Work activity: install mains and lines (cosco)                      | No of fibers: 3                                  | No of fields: 100   |
|   | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| <b>Other comments:</b>  |  |                     |


|  |  |                     |
|--|--|---------------------|
| Sample ID: 4   | Start time: 10:02pm                              | End time: 4:32am    |
| Sample location: 4 <sup>th</sup> floor – outside work area by negative air machine exhaust | Flow rate (LPM): 3.5                             |                     |
|  | Total time: 390                                  | Total volume: 1,365 |
| Work activity: install mains and lines (cosco)   | No of fibers: 4.5                                | No of fields: 100   |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| <b>Other comments:</b>   |  |                     |

|   |  |                     |
|---|--|---------------------|
| Sample ID: 5  | Start time: 10:02pm                              | End time: 4:32am    |
| Sample location: 4 <sup>th</sup> floor – outside work area, hallway | Flow rate (LPM): 3.5                             |                     |
|   | Total time: 390                                  | Total volume: 1,365 |
| Work activity: install mains and lines (cosco)                      | No of fibers: 4                                  | No of fields: 100   |
|   | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| <b>Other comments:</b>  |  |                     |

|  |  |                     |
|--|--|---------------------|
| Sample ID: 6                                     | Start time: 10:04pm                              | End time: 4:30am    |
| Sample location: 5 <sup>th</sup> floor – hallway | Flow rate (LPM): 3.5                             |                     |
|  | Total time: 390                                  | Total volume: 1,365 |
| Work activity: standpipe demo                    | No of fibers: 2                                  | No of fields: 100   |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| <b>Other comments:</b>                           |  |                     |

|                     |                      |             |
|---------------------|----------------------|-------------|
| Sample name (print) | : Christopher Cañas  |             |
| Signature           | : <i>Chris Cañas</i> | Page 1 of 2 |

## Asbestos Project Air Monitoring Data (PCM)


|                       |                         |   |
|-----------------------|-------------------------|---|
| Project Number:       | 2019-3250UCI            |  |
| Project Site Address: | Rowland Hall – Room 411 |   |
| Sample Date:          | 5/16/19 – 5/17/19       |   |
| Analysis type:        | PCM (NIOSH 7400A)       |   |
| Analysis by:          | Christopher Cañas       |   |
| Date Analyzed:        | 5/17/19                 |   |

|                              |   |                   |
|------------------------------|---|-------------------|
| Sample ID: 7                 | Start time: *                               | End time: *       |
| Sample location: Field blank | Flow rate (LPM): *                          |                   |
|                              | Total time: *                               | Total volume: *   |
| Work activity:               | No of fibers: 0                             | No of fields: 100 |
|                              | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:              |   |                   |

|                               |   |                   |
|-------------------------------|---|-------------------|
| Sample ID: 8                  | Start time: *                               | End time: *       |
| Sample location: Sealed blank | Flow rate (LPM): *                          |                   |
|                               | Total time: *                               | Total volume: *   |
| Work activity:                | No of fibers: 0                             | No of fields: 100 |
|                               | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:               |   |                   |

|                     |                      |             |
|---------------------|----------------------|-------------|
| Sample name (print) | : Christopher Cañas  |             |
| Signature           | : <i>Chris Cañas</i> | Page 2 of 2 |

## Asbestos Project Air Monitoring Data (PCM)

|                       |                   |   |
|-----------------------|-------------------|---|
| Project Number:       | 2019-3250UCI      |  |
| Project Site Address: | UC Irvine         |   |
| Sample Date:          | 5/17/19 – 5/18/19 |   |
| Analysis type:        | PCM (NIOSH 7400A) |   |
| Analysis by:          | Christopher Cañas |   |
| Date Analyzed:        | 5/18/19           |   |

|  |  |                     |
|--|--|---------------------|
| Sample ID: 1                                     | Start time: 10:00pm                              | End time: 4:30am    |
| Sample location: 3 <sup>rd</sup> floor – hallway | Flow rate (LPM): 3.5                             |                     |
|  | Total time: 390                                  | Total volume: 1,365 |
| Work activity: standpipe demo                    | No of fibers: 1                                  | No of fields: 100   |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| <b>Other comments:</b>                           |  |                     |

|   |  |                     |
|---|--|---------------------|
| Sample ID: 2  | Start time: 10:02pm                              | End time: 4:32am    |
| Sample location: 4 <sup>th</sup> floor – outside work area, by decontamination unit | Flow rate (LPM): 3.5                             |                     |
|   | Total time: 390                                  | Total volume: 1,365 |
| Work activity: install mains and lines (cosco)                                      | No of fibers: 3                                  | No of fields: 100   |
|   | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| <b>Other comments:</b>  |  |                     |

|   |  |                     |
|---|--|---------------------|
| Sample ID: 3  | Start time: 10:02pm                              | End time: 4:32am    |
| Sample location: 4 <sup>th</sup> floor – outside work area, hallway | Flow rate (LPM): 3.5                             |                     |
|   | Total time: 390                                  | Total volume: 1,365 |
| Work activity: install mains and lines (cosco)                      | No of fibers: 2.5                                | No of fields: 100   |
|   | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| <b>Other comments:</b>  |  |                     |

|  |  |                     |
|--|--|---------------------|
| Sample ID: 4   | Start time: 10:02pm                              | End time: 4:32am    |
| Sample location: 4 <sup>th</sup> floor – outside work area by negative air machine exhaust | Flow rate (LPM): 3.5                             |                     |
|  | Total time: 390                                  | Total volume: 1,365 |
| Work activity: install mains and lines (cosco)   | No of fibers: 4.5                                | No of fields: 100   |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| <b>Other comments:</b>   |  |                     |


|   |  |                     |
|---|--|---------------------|
| Sample ID: 5  | Start time: 10:02pm                              | End time: 4:32am    |
| Sample location: 4 <sup>th</sup> floor – outside work area, hallway | Flow rate (LPM): 3.5                             |                     |
|   | Total time: 390                                  | Total volume: 1,365 |
| Work activity: install mains and lines (cosco)                      | No of fibers: 3.5                                | No of fields: 100   |
|   | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| <b>Other comments:</b>  |  |                     |

|  |  |                     |
|--|--|---------------------|
| Sample ID: 6                                     | Start time: 10:04pm                              | End time: 4:30am    |
| Sample location: 5 <sup>th</sup> floor – hallway | Flow rate (LPM): 3.5                             |                     |
|  | Total time: 390                                  | Total volume: 1,365 |
| Work activity: standpipe demo                    | No of fibers: 1.5                                | No of fields: 100   |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| <b>Other comments:</b>                           |  |                     |

|                     |                     |             |
|---------------------|---------------------|-------------|
| Sample name (print) | : Christopher Cañas |             |
| Signature           | : Chris Canas       | Page 1 of 2 |



## Asbestos Project Air Monitoring Data (PCM)


|                       |                   |   |
|-----------------------|-------------------|---|
| Project Number:       | 2019-3250UCI      |  |
| Project Site Address: | UC Irvine         |   |
| Sample Date:          | 5/17/19 – 5/18/19 |   |
| Analysis type:        | PCM (NIOSH 7400A) |   |
| Analysis by:          | Christopher Cañas |   |
| Date Analyzed:        | 5/18/19           |   |

|                                     |   |                   |
|-------------------------------------|---|-------------------|
| Sample ID: 7                        | Start time: *                               | End time: *       |
| Sample location: <b>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 |                   |
| Other comments:                     |   |                   |

|                                      |   |                   |
|--------------------------------------|---|-------------------|
| Sample ID: 8                         | Start time: *                               | End time: *       |
| Sample location: <b>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 |                   |
| Other comments:                      |   |                   |

|                     |                     |             |
|---------------------|---------------------|-------------|
| Sample name (print) | : Christopher Cañas |             |
| Signature           | : Chris Canas       | Page 2 of 2 |

## Asbestos Project Monitoring Data (PCM)

|                       |                        |   |
|-----------------------|------------------------|---|
| Project Number:       | 2019-3250UCI           |  |
| Project Site Address: | Rowland Hall, Room 411 |   |
| Sample Date:          | 05/18-19/2019          |   |
| Analysis type:        | PCM (NIOSH 7400A)      |   |
| Analysis by:          | NS                     |   |
| Date Analyzed:        | 05/19/2019             |   |

|   |   |                    |
|---|---|--------------------|
| Sample ID: 01   | Start time: 21:45                               | End time: 23:40    |
| Sample location: 4 <sup>th</sup> Floor, outside work area | Flow rate (LPM): 12.0                           |                    |
| Decontamination unit                                      | Total time: 115                                 | Total volume: 1380 |
| Work activity: BNB replacing ceiling tile                 | No of fibers: 6                                 | No of fields: 100  |
| ECG clean up  | Airborne fiber concentration (fibers/cc): 0.002 |                    |
| Other comments:   |   |                    |

|   |  |                      |
|---|--|----------------------|
| Sample ID: 02   | Start time: 21:51                                | End time: 23:56      |
| Sample location: 4 <sup>th</sup> Floor, outside work area | Flow rate (LPM): 10.5                            |                      |
| Hallway   | Total time: 125                                  | Total volume: 1312.5 |
| Work activity: BNB replacing ceiling tile                 | No of fibers: 4                                  | No of fields: 100    |
| ECG clean up  | Airborne fiber concentration (fibers/cc): <0.002 |                      |
| Other comments:   |  |                      |

|   |  |                    |
|---|--|--------------------|
| Sample ID: 03   | Start time: 21:53                                | End time: 23:54    |
| Sample location: 4 <sup>th</sup> Floor, outside work area | Flow rate (LPM): 10.0                            |                    |
| Negative air machine exhaust                              | Total time: 121                                  | Total volume: 1210 |
| Work activity: BNB replacing ceiling tiles                | No of fibers: 3                                  | No of fields: 100  |
| ECG clean up  | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:   |  |                    |


|  |  |                    |
|--|--|--------------------|
| Sample ID: 04  | Start time: 21:56                                | End time: 23:58    |
| Sample location: 5 <sup>th</sup> Floor, hallway by elevators | Flow rate (LPM): 10.5                            |                    |
|  | Total time: 122                                  | Total volume: 1281 |
| Work activity: None  | No of fibers: 2                                  | No of fields: 100  |
|  | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:  |  |                    |

|   |  |                    |
|---|--|--------------------|
| Sample ID: 05                                   | Start time: 22:01                                | End time: 24:05    |
| Sample location: 3 <sup>rd</sup> Floor, hallway | Flow rate (LPM): 10.0                            |                    |
|   | Total time: 124                                  | Total volume: 1240 |
| Work activity: None                             | No of fibers: 4                                  | No of fields: 100  |
|   | Airborne fiber concentration (fibers/cc): <0.002 |                    |
| Other comments:                                 |  |                    |

|                             |   |                   |
|-----------------------------|---|-------------------|
| Sample ID: 06               | Start time:                                   | End time:         |
| Sample location:            | Flow rate (LPM):                              |                   |
|                             | Total time:                                   | Total volume:     |
| Work activity:              | No of fibers: 0                               | No of fields: 100 |
|                             | Airborne fiber concentration (fibers/cc): 0.0 |                   |
| Other comments: Field blank |   |                   |

|                     |             |                                   |
|---------------------|-------------|-----------------------------------|
| Sample name (print) | : N. Salari |                                   |
| Signature           | : N. Salari | Page <u>  1  </u> of <u>  2  </u> |


## Asbestos Project Monitoring Data (PCM)

|                       |                        |   |
|-----------------------|------------------------|---|
| Project Number:       | 2019-3250UCI           |  |
| Project Site Address: | Rowland Hall, Room 411 |   |
| Sample Date:          | 05/18-19/2019          |   |
| Analysis type:        | PCM (NIOSH 7400A)      |   |
| Analysis by:          | NS                     |   |
| Date Analyzed:        | 05/19/2019             |   |

|                              |   |                   |
|------------------------------|---|-------------------|
| Sample ID: 07                | Start time:                                   | End time:         |
| Sample location:             | Flow rate (LPM):                              |                   |
|                              | Total time:                                   | Total volume:     |
| Work activity:               | No of fibers: 0                               | No of fields: 100 |
|                              | Airborne fiber concentration (fibers/cc): 0.0 |                   |
| Other comments: Sealed blank |   |                   |
|                              |   |                   |

|                     |             |             |
|---------------------|-------------|-------------|
| Sample name (print) | : N. Salari |             |
| Signature           | : N. Salari | Page 2 of 2 |

## Asbestos Project Air Monitoring Data Sheet

|                       |  |   |
|-----------------------|--|---|
| Project Number:       | 2019-3250UCI                                   |  |
| Project Site Address: | Rowland Hall - 4 <sup>th</sup> floor, Room 411 |   |
| Sample Date:          | 5/20/19  |   |
| Analysis type:        | PCM (NIOSH 7400A)                              |   |
| Analysis by:          | Christopher Cañas                              |   |
| Date Analyzed:        | 5/20/19  |   |

|   |  |                     |
|---|--|---------------------|
| Sample ID: 1  | Start time: 5:45am                               | End time: 7:45am    |
| Sample location: 4 <sup>th</sup> floor – Inside work area | Flow rate (LPM): 10                              |                     |
| Room 411  | Total time: 120                                  | Total volume: 1,200 |
| Work activity: Final air clearance                        | No of fibers: 4                                  | No of fields: 100   |
|   | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| Other comments:   |  |                     |

|   |  |                     |
|---|--|---------------------|
| Sample ID: 2  | Start time: 5:45am                               | End time: 7:45am    |
| Sample location: 4 <sup>th</sup> floor – Inside work area | Flow rate (LPM): 10                              |                     |
| Room 411  | Total time: 120                                  | Total volume: 1,200 |
| Work activity: Final air clearance                        | No of fibers: 5                                  | No of fields: 100   |
|   | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| Other comments:   |  |                     |

|   |  |                     |
|---|--|---------------------|
| Sample ID: 3  | Start time: 5:45am                               | End time: 7:45am    |
| Sample location: 4 <sup>th</sup> floor – Inside work area | Flow rate (LPM): 10                              |                     |
| Room 411  | Total time: 120                                  | Total volume: 1,200 |
| Work activity: Final air clearance                        | No of fibers: 3.5                                | No of fields: 100   |
|   | Airborne fiber concentration (fibers/cc): <0.002 |                     |
| Other comments:   |  |                     |

|                              |   |                   |
|------------------------------|---|-------------------|
| Sample ID: 4                 | Start time: *                               | End time: *       |
| Sample location: Field blank | Flow rate (LPM): *                          |                   |
|                              | Total time: *                               | Total volume: *   |
| Work activity:               | No of fibers: 0                             | No of fields: 100 |
|                              | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:              |   |                   |

|                               |   |                   |
|-------------------------------|---|-------------------|
| Sample ID: 5                  | Start time: *                               | End time: *       |
| Sample location: Sealed blank | Flow rate (LPM): *                          |                   |
|                               | Total time: *                               | Total volume: *   |
| Work activity:                | No of fibers: 0                             | No of fields: 100 |
|                               | Airborne fiber concentration (fibers/cc): 0 |                   |
| Other comments:               |   |                   |

|                     |                     |             |
|---------------------|---------------------|-------------|
| Sample name (print) | : Christopher Cañas |             |
| Signature           | : Christopher Cañas | Page 1 of 1 |

# Field Notes

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|                |                  |               |                   |
|----------------|------------------|---------------|-------------------|
| PROJECT NAME   | UCI Rowland Hall | SITE CONTACT  | Susan Robb        |
| PROJECT NUMBER | 2019-3250UCI     | CLIENT NUMBER | (949) 233-8889    |
| DATE           | 5/6/19           | IH NAME       | Christopher Cañas |

|   |
|---|
| <b>10:00pm:</b> Christopher Cañas from omega is on site to perform oversight abatement in room 411 (fourth floor) in Rowland hall. ECG is the abatement contractor and will be removing acoustical ceiling as marked by the general contractor. A standard procedure has been approved by all parties involved in regard to abatement in room 411. ECG will construct a 3-stage decontamination unit (decon): equipped with a clean room, shower room, and an equipment room that will attach to the containment. Omega will ensure and maintain a negative enclosed pressure system inside the containment with the use of negative air machines and a manometer. A separate bag-out chamber will also be included |
| <b>10:40pm:</b> All worker certifications and notifications have been checked prior to any work beginning   |
| <b>12:00am:</b> For the remainder of the shift ECG will work on prepping the containment for abatement. No asbestos work will be performed today.   |
| <b>2:00am:</b> ECG continues to work on prepping the containment for abatement. They will be sealing all critical & primary barriers.   |
| <b>4:00am:</b> The work has not changed in room 411.  |
| <b>6:00am:</b> All work is finished for the day and ECG managed to prep approximately 35% of the containment.   |
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Omega IH Signature: Chris Canas

# Field Notes

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|                |                  |               |                   |
|----------------|------------------|---------------|-------------------|
| PROJECT NAME   | UCI Rowland Hall | SITE CONTACT  | Susan Robb        |
| PROJECT NUMBER | 2019-3250UCI     | CLIENT NUMBER | (949) 233-8889    |
| DATE           | 5/7/19           | IH NAME       | Christopher Cañas |

|  |
|--|
| <p><b>10:00pm:</b> Christopher Cañas from omega is on site to perform oversight abatement in room 411 (fourth floor) in Rowland hall. ECG is the abatement contractor and will be removing acoustical ceiling as marked by the general contractor. A standard procedure has been approved by all parties involved in regard to abatement in room 411. ECG will construct a 3-stage decontamination unit (decon): equipped with a clean room, shower room, and an equipment room that will attach to the containment. Omega will ensure and maintain a negative enclosed pressure system inside the containment with the use of negative air machines and a manometer. A separate bag-out chamber will also be included</p> |
| <p><b>10:35pm:</b> All worker certifications and notifications have been checked prior to any work beginning</p>   |
| <p><b>11:40am:</b> For the remainder of the shift ECG will work on prepping the containment for abatement. No asbestos work will be performed today.</p>   |
| <p><b>1:35am:</b> ECG continues to work on prepping the containment for abatement. They will be sealing all critical &amp; primary barriers.</p>   |
| <p><b>3:00am:</b> The work has not changed in room 411.</p>  |
| <p><b>5:00am:</b> All work is finished for the day and ECG managed to prep approximately 60% of the containment.</p>   |
| <p><b>6:00am:</b> Omega off site</p>   |
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Omega IH Signature: Chris Canas

# Field Notes

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|                |                  |               |                   |
|----------------|------------------|---------------|-------------------|
| PROJECT NAME   | UCI Rowland Hall | SITE CONTACT  | Susan Robb        |
| PROJECT NUMBER | 2019-3250UCI     | CLIENT NUMBER | (949) 233-8889    |
| DATE           | 5/8/19           | IH NAME       | Christopher Cañas |

|  |
|--|
| <p><b>10:00pm:</b> Christopher Cañas from omega is on site to perform oversight abatement in room 411 (fourth floor) in Rowland hall. ECG is the abatement contractor and will be removing acoustical ceiling as marked by the general contractor. A standard procedure has been approved by all parties involved in regard to abatement in room 411. ECG will construct a 3-stage decontamination unit (decon): equipped with a clean room, shower room, and an equipment room that will attach to the containment. Omega will ensure and maintain a negative enclosed pressure system inside the containment with the use of negative air machines and a manometer. A separate bag-out chamber will also be included</p> |
| <p><b>10:25pm:</b> Air pumps have been set up at this time and will run continuously until the end of the shift. All worker certifications and notifications have been checked prior to any work beginning.</p>  |
| <p><b>11:48am:</b> For the remainder of the shift ECG will work on prepping the containment for abatement. No asbestos work will be performed today.</p>   |
| <p><b>1:30am:</b> ECG continues to work on prepping the containment for abatement. They will be sealing all critical &amp; primary barriers.</p>   |
| <p><b>2:00am:</b> Lunch</p>  |
| <p><b>3:10am:</b> Pumps are still running at this time and work has not changed in room 411.</p>   |
| <p><b>5:00am:</b> All work is finished for the day and ECG managed to prep approximately 80% of the containment. Air samples have indicated results are below PEL and have been posted on the decon unit for public viewing.</p>   |
| <p><b>6:00am:</b> Omega off site</p>   |
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Omega IH Signature: \_\_\_\_\_

# Field Notes

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|                |                  |               |                   |
|----------------|------------------|---------------|-------------------|
| PROJECT NAME   | UCI Rowland Hall | SITE CONTACT  | Susan Robb        |
| PROJECT NUMBER | 2019-3250UCI     | CLIENT NUMBER | (949) 233-8889    |
| DATE           | 5/9/19           | IH NAME       | Christopher Cañas |

|  |
|--|
| <p><b>10:00pm:</b> Christopher Cañas from omega is on site to perform oversight abatement in room 411 (fourth floor) in Rowland hall. ECG is the abatement contractor and will be removing acoustical ceiling as marked by the general contractor. A standard procedure has been approved by all parties involved in regard to abatement in room 411. ECG will construct a 3-stage decontamination unit (decon): equipped with a clean room, shower room, and an equipment room that will attach to the containment. Omega will ensure and maintain a negative enclosed pressure system inside the containment with the use of negative air machines and a manometer. A separate bag-out chamber will also be included</p> |
| <p><b>10:25pm:</b> Air pumps have been set up at this time and will run continuously until the end of the shift. All worker certifications and notifications have been checked prior to any work beginning.</p>  |
| <p><b>11:30am:</b> For the remainder of the shift ECG will now work on abatement in room 411. A visual clearance was performed by Omega before work began. Workers will be using proper engineering controls as well as PPE that includes: Hard hat, safety gloves, safety glasses, Tyvek suit, respirator, and steel toe boots while working inside. All worker certifications have been checked prior to them entering the containment.</p>  |
| <p><b>2:00am:</b> Lunch</p>  |
| <p><b>3:10am:</b> Pumps are still running at this time and work has not changed in room 411. Workers are continuing work in room 411 and are using proper engineering controls while abating acoustical ceiling materials.</p>   |
| <p><b>5:00am:</b> All work is finished for the day and ECG managed to remove approximately 30% ACM materials. Air samples have indicated results are below PEL and have been posted on the decon unit for public viewing.</p>  |
| <p><b>6:00am:</b> Omega off site</p>   |
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Omega IH Signature: \_\_\_\_\_



# Field Notes

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|                |                  |               |                   |
|----------------|------------------|---------------|-------------------|
| PROJECT NAME   | UCI Rowland Hall | SITE CONTACT  | Susan Robb        |
| PROJECT NUMBER | 2019-3250UCI     | CLIENT NUMBER | (949) 233-8889    |
| DATE           | 5/10/19          | IH NAME       | Christopher Cañas |

|  |
|--|
| <p><b>10:00pm:</b> Christopher Cañas from omega is on site to perform oversight abatement in room 411 (fourth floor) in Rowland hall. ECG is the abatement contractor and will be removing acoustical ceiling as marked by the general contractor. A standard procedure has been approved by all parties involved in regard to abatement in room 411. ECG will construct a 3-stage decontamination unit (decon): equipped with a clean room, shower room, and an equipment room that will attach to the containment. Omega will ensure and maintain a negative enclosed pressure system inside the containment with the use of negative air machines and a manometer. A separate bag-out chamber will also be included</p> |
| <p><b>10:25pm:</b> Air pumps have been set up at this time and will run continuously until the end of the shift. All worker certifications and notifications have been checked prior to any work beginning. For the remainder of the shift ECG will now work on abatement in room 411. A visual clearance was performed by Omega before work began. Workers will be using proper engineering controls as well as PPE that includes: Hard hat, safety gloves, safety glasses, Tyvek suit, respirator, and steel toe boots while working inside. All worker certifications have been checked prior to them entering the containment.</p>   |
| <p><b>12:00am:</b> Pumps are still running at this time and work has not changed in room 411. Workers are continuing work in room 411 and are using proper engineering controls while abating acoustical ceiling materials.</p>  |
| <p><b>2:00am:</b> Lunch</p>  |
| <p><b>5:00am:</b> All work is finished for the day and ECG managed to remove approximately 65% ACM materials. Air samples have indicated results are below PEL and have been posted on the decon unit for public viewing.</p>  |
| <p><b>6:00am:</b> Omega off site</p>   |
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Omega IH Signature: \_\_\_\_\_

# Field Notes

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|                |                  |               |                   |
|----------------|------------------|---------------|-------------------|
| PROJECT NAME   | UCI Rowland Hall | SITE CONTACT  | Susan Robb        |
| PROJECT NUMBER | 2019-3250UCI     | CLIENT NUMBER | (949) 233-8889    |
| DATE           | 5/11/19          | IH NAME       | Christopher Cañas |

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| <p><b>10:00pm:</b> Christopher Cañas from omega is on site to perform oversight abatement in room 411 (fourth floor) in Rowland hall. ECG is the abatement contractor and will be removing acoustical ceiling as marked by the general contractor. A standard procedure has been approved by all parties involved in regard to abatement in room 411. ECG will construct a 3-stage decontamination unit (decon): equipped with a clean room, shower room, and an equipment room that will attach to the containment. Omega will ensure and maintain a negative enclosed pressure system inside the containment with the use of negative air machines and a manometer. A separate bag-out chamber will also be included</p> |
| <p><b>10:25pm:</b> Air pumps have been set up at this time and will run continuously until the end of the shift. All worker certifications and notifications have been checked prior to any work beginning. For the remainder of the shift ECG will now work on abatement in room 411. A visual clearance was performed by Omega before work began. Workers will be using proper engineering controls as well as PPE that includes: Hard hat, safety gloves, safety glasses, Tyvek suit, respirator, and steel toe boots while working inside. All worker certifications have been checked prior to them entering the containment.</p>   |
| <p><b>12:00am:</b> Pumps are still running at this time and work has not changed in room 411. Workers are continuing work in room 411 and are using proper engineering controls while abating acoustical ceiling materials.</p>  |
| <p><b>2:00am:</b> Lunch</p>  |
| <p><b>4:30am:</b> Final visual was done earlier before lunch and proceeded with encapsulation: Now awaiting final air clearance to complete for final results. No teardown will be done at this time and cosco will re-enter work area next shift for installment of mainlines. Afterwards ECG will perform a second cleanup and omega will perform a 2<sup>nd</sup> air clearance as well.</p>  |
| <p><b>5:00am:</b> All work is finished for the day and ECG managed to remove approximately 100% ACM materials per SOW. Air samples have indicated results are below PEL and have been posted on the decon unit for public viewing.</p>   |
| <p><b>6:00am:</b> Omega off site</p>   |

Omega IH Signature: \_\_\_\_\_

# Field Notes

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|                |                  |               |                   |
|----------------|------------------|---------------|-------------------|
| PROJECT NAME   | UCI Rowland Hall | SITE CONTACT  | Susan Robb        |
| PROJECT NUMBER | 2019-3250UCI     | CLIENT NUMBER | (949) 233-8889    |
| DATE           | 5/13/19          | IH NAME       | Christopher Cañas |

|   |
|---|
| <p><b>6:00pm:</b> Omega Representative Christopher Cañas on site. ECG will be assisting Cosco and BNB with main line install/cleanup throughout the building. Today work will begin in the fourth-floor hallway. ECG will assist with ceiling tile removal and cleanup. No asbestos work is expected to be performed tonight. Shift begins at 10:00pm and now awaiting ECG arrival.</p> |
| <p><b>8:00pm:</b> No work at this time.</p>   |
| <p><b>10:00pm:</b> ECG has arrived on site and is now mobilizing.</p>   |
| <p><b>11:30am:</b> At this time, pumps have already been set, and ECG is prepping a containment for tile removal.</p>   |
| <p><b>1:00am:</b> ECG began working with BNB for ceiling tile removal, they built a containment with a negative air machine used as an air scrubber. No asbestos work is being performed at this moment.</p>  |
| <p><b>2:30am:</b> Lunch</p>   |
| <p><b>4:30am:</b> Pumps have completed cycle for this shift. Will now retrieve data to analyze. Visual has been done for work on the fourth floor. Now performing final cleanup prior to teardown.</p>  |
| <p><b>6:15am:</b> Work has now been complete for the day. No asbestos work was performed. ECG did manage to complete tile replacement in the fourth floor with BNB. Cosco still needs more time to work in room 411 before second clearance can be done in room 411. Omega off site</p>   |
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Omega IH Signature: Christopher Cañas

# Field Notes

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|----------------|------------------|---------------|-------------------|
| PROJECT NAME   | UCI Rowland Hall | SITE CONTACT  | Susan Robb        |
| PROJECT NUMBER | 2019-3250UCI     | CLIENT NUMBER | (949) 233-8889    |
| DATE           | 5/14/19          | IH NAME       | Christopher Cañas |

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|---|
| <p><b>6:00pm:</b> Omega Representative Christopher Cañas on site. ECG will be assisting Cosco and BNB with main line install/cleanup throughout the building. Today work will begin in the fourth-floor hallway. ECG will assist with ceiling tile removal and cleanup. No asbestos work is expected to be performed tonight. Shift begins at 10:00pm and now awaiting ECG arrival.</p> |
| <p><b>8:30pm:</b> No work at this time.</p>   |
| <p><b>10:25pm:</b> ECG has arrived on site and is now mobilizing.</p>   |
| <p><b>11:30am:</b> At this time, pumps have already been set, and ECG is prepping a containment for tile removal.</p>   |
| <p><b>1:00am:</b> ECG began working with BNB for ceiling tile removal, they built a containment with a negative air machine used as an air scrubber. This is a continuation of the previous shift. No asbestos work is being performed at this time.</p>  |
| <p><b>2:30am:</b> Lunch</p>   |
| <p><b>4:30am:</b> Pumps have completed cycle for this shift. Will now retrieve data to analyze. Visual has been done for work on the fourth floor. Now performing final cleanup prior to teardown.</p>  |
| <p><b>6:10am:</b> Work has now been complete for the day. No asbestos work was performed. ECG did manage to complete tile replacement in the fourth floor with BNB. Cosco still needs more time to work in room 411 before second clearance can be done in room 411. Omega off site</p>   |
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Omega IH Signature: Christopher Cañas

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|----------------|------------------|---------------|-------------------|
| PROJECT NAME   | UCI Rowland Hall | SITE CONTACT  | Susan Robb        |
| PROJECT NUMBER | 2019-3250UCI     | CLIENT NUMBER | (949) 233-8889    |
| DATE           | 5/15/19          | IH NAME       | Christopher Cañas |

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|---|
| <p><b>6:00pm:</b> Omega Representative Christopher Cañas on site. ECG will be assisting Cosco and BNB with main line install/cleanup throughout the building. Today's work will begin in the 1<sup>st</sup> floor stairway. ECG will perform abatement on a TSI pipe in stairwell number 2 which will be followed by clearance.</p> |
| <p><b>8:30pm:</b> No work at this time.</p>   |
| <p><b>10:25pm:</b> ECG has arrived on site and is now mobilizing.</p>   |
| <p><b>11:30am:</b> At this time, pumps have already been set, and ECG is prepping a containment for TSI removal.</p>  |
| <p><b>1:00am:</b> ECG began working in stairwell number two, they built a containment with a negative air machine that exhausts outside the building.</p>   |
| <p><b>2:30am:</b> Lunch</p>   |
| <p><b>4:30am:</b> Pumps have completed cycle for this shift. Will now retrieve data to analyze. Visual has been done for work on the fourth floor. Now performing final cleanup prior to teardown.</p>  |
| <p><b>6:10am:</b> Visual inspection and encapsulation has been complete, now running a final air clearance in area.</p>   |
| <p><b>8:30am:</b> Work is now complete. Results indicated area fiber concentration was below PEL. Teardown is now complete and Omega and ECG are leaving site. No accidents to report.</p>  |
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Omega IH Signature: Christopher Cañas

# Field Notes

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|----------------|------------------|---------------|-------------------|
| PROJECT NAME   | UCI Rowland Hall | SITE CONTACT  | Susan Robb        |
| PROJECT NUMBER | 2019-3250UCI     | CLIENT NUMBER | (949) 233-8889    |
| DATE           | 5/16/19          | IH NAME       | Christopher Cañas |

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|---|
| <p><b>6:00pm:</b> Omega Representative Christopher Cañas on site. ECG will be assisting Cosco and BNB with main line install/cleanup throughout the building. Today work will begin in room 411. ECG will assist with ceiling tile removal and cleanup. No asbestos work is expected to be performed tonight. Shift begins at 10:00pm and now awaiting ECG arrival.</p> |
| <p><b>8:40pm:</b> No work at this time.</p>   |
| <p><b>10:48pm:</b> ECG has arrived on site and is now mobilizing.</p>   |
| <p><b>12:30am:</b> At this time, pumps have already been set, and ECG is working in a containment for tile removal.</p>   |
| <p><b>1:20am:</b> ECG began working with BNB for ceiling tile removal, they are in a containment with a negative air machine exhausted to an outside area. No asbestos work is being performed at this moment.</p>  |
| <p><b>2:30am:</b> Lunch</p>   |
| <p><b>4:35am:</b> Pumps have completed cycle for this shift. Will now retrieve data to analyze. Visual has been done for work on the fourth floor. Now performing final cleanup before shift end.</p>   |
| <p><b>6:08am:</b> Work has now been complete for the day. No asbestos work was performed. ECG managed to complete 50% tile replacement in the fourth floor with BNB. BNB still needs more time to work in room 411 before second clearance can be done in room 411. Omega off site</p>  |
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Omega IH Signature: Christopher Cañas

# Field Notes

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|----------------|------------------|---------------|-------------------|
| PROJECT NAME   | UCI Rowland Hall | SITE CONTACT  | Susan Robb        |
| PROJECT NUMBER | 2019-3250UCI     | CLIENT NUMBER | (949) 233-8889    |
| DATE           | 5/17/19          | IH NAME       | Christopher Cañas |

|   |
|---|
| <p><b>6:00pm:</b> Omega Representative Christopher Cañas on site. ECG will be assisting Cosco and BNB with main line install/cleanup throughout the building. Today work will begin in room 411. ECG will assist with ceiling tile removal and cleanup. No asbestos work is expected to be performed tonight. Shift begins at 10:00pm and now awaiting ECG arrival.</p> |
| <p><b>8:25pm:</b> No work at this time.</p>   |
| <p><b>10:42pm:</b> ECG has arrived on site and is now mobilizing.</p>   |
| <p><b>12:10am:</b> At this time, pumps have already been set, and ECG is working in a containment for tile removal.</p>   |
| <p><b>1:30am:</b> ECG began working with BNB for ceiling tile removal, they are in a containment with a negative air machine exhausted to an outside area. No asbestos work is being performed at this moment.</p>  |
| <p><b>2:30am:</b> Lunch</p>   |
| <p><b>4:40am:</b> Pumps have completed cycle for this shift. Will now retrieve data to analyze. Visual has been done for work on the fourth floor. Now performing final cleanup before shift end.</p>   |
| <p><b>7:30am:</b> Work has now been complete for the day. No asbestos work was performed. ECG managed to complete 80% tile replacement in the fourth floor with BNB. BNB still needs more time to work in room 411 before second clearance can be done in room 411. Omega off site</p>  |
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Omega IH 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: 2019-3299UCI                          | Date: 5/18/2019          |
| Project Name: Asbestos Project Monitor Air Monitoring | Omega Representative: NS |
| Project Address: Rowland Hall – Room 411              |                          |

**TIME AND ACTIVITY**

9:30 PM – Omega on site. Work area was inspected. No asbestos-related activities.

The work includes ceiling tile replacement by the General Contractor (BNB) and the final clean-up will be conducted after completion of the ceiling tiles throughout the work area by the abatement contractor (ECG).

10:30 - Perimeter air samples in progress on the 4th floor by decontamination unit, negative air machine exhaust and hallway.

In addition, area are samples in progress on the 3<sup>rd</sup> and 5<sup>th</sup> floors hallways.

12:30 AM - BNB completed the ceiling tile replacement. ECG will continue with the clean up inside the work area.

Final air samples will be collected on Monday (May 20)

1:30 AM – All perimeter and area samples were collected. The concentrations of total airborne fibers for any of the collected samples did not exceed the EPA recommended criteria of 0.01 f/cc.

1:30 AM – Omega off site

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| Omega Site Representative Signature: <i>N. Salari</i> | Date: 5/19/19 |
|---|---------------|



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

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.

