AMBIENT ENVIRONMENTAL, INC.
Consulting/Engineering/Remediation
400 North Princeland Court Suite-3
Corona, California 92879
951 272-4730 *Phone*
951 272-4731 *Facsimile*
jp@ambientenv.com
www.ambientenvinc.com

July 8, 2019

University of California, Riverside
Planning Design & Construction
1223 University Avenue Suite 240
Riverside, California 92507
Attn: Mr. Dave Bomba

Re: Asbestos Dust Sampling Assessment for the project located at:
Pierce Hall First Floor University of California Riverside, California.

Dear Mr. Bomba,

Ambient Environmental Inc. performed an asbestos settle dust assessment at the above referenced location. The assessment was performed on July 8, 2019 by Mr. John Payne a California Certified Asbestos Consultant (#93-1226) and a United States Environmental Protection Agency (USEPA) certified asbestos building inspector. The purpose of the asbestos assessment was to identify settle dust remaining after the asbestos removal activity activities for detectable levels of asbestos.

Asbestos Sampling Procedures

Ambient Environmental Inc. obtained three bulk samples from the settle dust identified during the visual assessment. Each bulk sample was submitted to Forensic Analytical located at: 2959 Pacific Commerce Drive Rancho Dominguez, California (310) 763-2374. Forensic Analytical is accredited by the American Industrial Hygiene Association (AIHA), National Voluntary Laboratory Accreditation Program (NVLAP #101459-0), National Institute of Standards and Testing (NIST), and is a successful participant in the Proficiency Analytical Testing Program (PAT). Each sample analyzed by Polarized Light Microscopy (PLM) method in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples EPA - 600/M4-82-020" dated December 1982 and adopted by the National Voluntary Laboratory Accreditation Program (NVLAP) Title 15, part 7 of the Code of Federal Register as affiliated with the National Institute for Standards and Testing (NIST).

Current Federal USEPA Regulations define a material to be asbestos containing at 1% by weight. Current State of California regulations define a material to be asbestos containing at 0.1% by weight. For this reason, any sample reported as containing a trace amount of asbestos is assumed to contain asbestos. The following is the laboratory result:

Location	Material	Laboratory Results	Square Footage
Sample #1 Room 1227	Floor Settle Dust	2% Chrysotile (Black Mastic Debris in Settle Dust)	N/A
Sample #2 Room 1149	Floor Settle Dust	Non Detected	N/A
Sample #3 Room 1117	Floor Settle Dust	2% Chrysotile (Black Mastic Debris in Settle Dust)	N/A

Asbestos Containing Building Materials-Current federal and state regulations (SCAQMD Rule 1403) require only contractors who have been properly trained in the correct handling of asbestos containing buildings conduct any cleanup and/or removal activities. All environmental work should proceed under the guidance or direction of an independent State Certified Consultant.

Asbestos Cleanup and Decontamination Procedures:

Because there was detected levels of asbestos in two of the three samples obtained, Ambient recommends the settle dust within first work area be clean-up and/or decontamination per the following procedures.

This work activities should be performed by a California licensed abetment contractor with trained personnel. The designated work area should be off limits to unauthorized personnel during all clean up and decontamination procedures.

The work should be isolate with one layer of 6-mill polyethylene sheeting over all openings to the work area, sealing all seams with duct tape and strategically placing asbestos warning danger signs to prevent unauthorized entry. Also, a decontamination unit should be placed at the entrance to the work area consisting of a three-chamber wash station for worker decontamination. Only personnel authorized to perform asbestos cleanup and decontamination activities and inspection should be allowed within the contained work area.

Each worker decontamination should be accomplished upon exiting the work area through a three-stage decontamination enclosure. Each worker who exits the work area should HEPA vacuum their suit for any loose debris, then remove their suit by rolling

from top to bottom and properly disposing of their suit. A bucket of water should be used to decontaminate equipment, respirators and exposed skin.

All workers should be required to wear appropriate personal protective equipment during all cleanup and decontamination activities. Personal protective equipment utilized should include half face negative pressure respirators, full-bodied tyvek suits, boots and eye protectors. Each respirator should be equipped with HEPA filters.

Negative pressure should be established inside the work area using differential pressure Air Filtration Devices (AFD) equipped with HEPA filters. After construction of the containment and negative pressure is established, the asbestos containing/contaminated dust should be removed utilizing hand tools, manual labor and HEPA filtered vacuums (Proof of SCAQMD permits for all HEPA equipment should be on site during all asbestos related activities). Wetting should be applied throughout all aspects of the cleanup and decontamination activities.

All waste should be placed into a DOT approved transparent 6-mil polyethylene bag, sealed then each waste bag should be placed into a second DOT approved transparent 6-mil polyethylene labeled bag for disposal as friable waste for disposal.

Final asbestos air clearance samples should be obtained and be at or below the EPA's recommended clearance level of 0.010 fibers per cubic centimeter prior to any re-occupancy of the work area.

Any recommendations in this report are professional opinions based solely on visual observations and analytical analyses, as described in this report. Opinions and/or recommendations presented herein apply to site conditions existing at the time of our investigation, they cannot necessarily apply to site changes of which this office is not aware of and/or has not had the opportunity to evaluate. Please contact the undersigned with your questions and/or comments regarding the sample result and/or location of material.

Sincerely,
Signed for Ambient Environmental, Inc. by

John L. Payne
CAC #93-1226

Attachments

Appendix - A	Chain of Custody and Bulk Sample Log
Appendix - B	Laboratory Certification of Analysis
Appendix - C	Certification

APPENDIX A

CHAIN OF CUSTODY
AND BULK SAMPLE LOG

AMBIENT ENVIRONMENTAL, INC.
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400 North Princeland Court Suite-3
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ASBESTOS BULK SAMPLE LOG

Client Name: UCR P&P

Project Location: Rivera Hall 156 Rm

Date: 7-8-19 Field Technician: John C Ryan

Project Number: 19-1132 Priority: ASAP X 24 HR ___ 3-5 Days ___

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
01	Room # 1227	Dust	
02	Room # 1145	"	
03	Room # 1117	"	

Chain of Custody Analytical Method: PLM: X TEM: ___ Other: ___

Sampled By		**Date**	**Time**
Relinquished By		**Date**	**Time**
Received By		**Date** 07.08.19	**Time** 1:46pm
Relinquished By		**Date**	**Time**
Received By		**Date**	**Time**

APPENDIX B

LABORATORY CERTIFICATES OF ANALYSIS

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-1

Ambient Environmental Inc
John Payne
400 N. Princeland Crt.
Ste. 3
Corona, CA 92879

Client ID: 5697
Report Number: B279652
Date Received: 07/08/19
Date Analyzed: 07/08/19
Date Printed: 07/08/19
First Reported: 07/08/19

Job ID/Site: 19-1132; Pierce Hall, 1st Floor

Date(s) Collected:

FALI Job ID: 5697
Total Samples Submitted: 3
Total Samples Analyzed: 3

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	51245454						
Layer: Grey Debris		Chrysotile	**Trace**				
Layer: Black Mastic Debris		Chrysotile	**2 %**				
Total Composite Values of Fibrous Components:		**Asbestos (Trace)**					
Cellulose (Trace)							
02	51245455						
Layer: Grey Semi-Fibrous Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
03	51245456						
Layer: Grey Debris		Chrysotile	**Trace**				
Layer: Black Mastic Debris		Chrysotile	**2 %**				
Total Composite Values of Fibrous Components:		**Asbestos (Trace)**					
Cellulose (Trace)							

Tiffani Ludd, Laboratory Supervisor, Rancho Dominguez Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-8684

APPENDIX C

CERTIFICATION

STATE OF CALIFORNIA — GAVIN NEWSOM, *Governor*

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Certification & Training Unit
2424 Arden Way, Suite 495
Sacramento, CA 95825-2417
(916) 574-2993 Office (916) 483-0572 Fax
http://www.dir.ca.gov/dosh/asbestos.html acru@dir.ca.gov

310191226C 80 87

Ambient Environmental, Inc.
John Lee Payne
400 Princeland Court, Suite 3
Corona CA 92879

May 16, 2019

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email with any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File

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

John Lee Payne
Name

Certification No. **93-1226**

Expires on **06/24/20**

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.

Renewal – Card Attached (Revised 01/10/2019)

AMBIENT ENVIRONMENTAL, INC.
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jp@ambientenv.com

July 7, 2019

University of California, Riverside
Planning Design & Construction
1223 University Avenue Suite 240
Riverside, California 92507
Attn: Mr. Dave Bomba

Re: Final Clearance Air Sampling for the project located at:
Pierce Hall Hallway University of California Riverside, California.

To Mr. Bomba,

Final clearance air samples were obtained after the removal of the asbestos containing building materials within the contained work area. After a thorough visual inspection for any visible dust or debris remaining in the work area, Ambient Environmental obtained final air clearance. Samples were obtained by the use of a high flow electric air pump along with a twenty-five millimeter mixed cellulose ester-membrane filters, utilizing a fifty millimeter electrically conductive cowls as specified in 29 CFR 1101.1.

Samples were analyzed in accordance with the requirements of NIOSH Method 7400 Method for Phase Contrast Microscopy (PCM). Personnel involved in the analysis of PCM samples have completed NIOSH course 582 or its equivalent as required by 29 CFR 1101.1. All clearance air samples were less than or equal to the Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763.90 and the Environmental Protection Agency (EPA) asbestos airborne clearance criteria limit of 0.01 fiber per cubic centimeter (f/cc) by PCM.

This Letter of Completion is limited to work performed at the above referenced location. Based upon the air sample results, Ambient Environmental, Inc. can recommend the occupancy of the above referenced location.

Signed for Ambient Environmental, Inc. by:

John L. Payne
California Certified Asbestos Consultant #93-1226

AMBIENT ENVIRONMENTAL, INC.

CERTIFICATE OF ANALYSIS

CLIENT: University of California Riverside
PROJECT NAME: Pierce Hall Hallway University of California Riverside, CA
REPORT DATE: 7-7-19

SAMPLE NUMBER	SAMPLE LOCATION	DATE SAMPLE	FLOW RATE (L/MIN)	TIME (MIN)	SAMPLE VOLUME (LITER)	FIBER COUNT	D/L	FIBER /CC
01	Clearance-Inside Work Area	7-6-19	15.0	80	1200	8/100	0.002	<0.01
02	Clearance-Inside Work Area	7-6-19	15.0	80	1200	10/100	0.002	<0.01
03	Clearance-Outside Work Area	7-6-19	15.0	80	1200	1/100	0.002	<0.01
04	Blank	7-6-19	---	---	---	0/100	---	---

DL=Detection Limit
I certify that the above samples were analyzed in strict compliance with NIOSH 7400 standards and regulations.

Signed for John L. Payne Certified Asbestos Consultant

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July 8, 2019

University of California, Riverside
Planning Design & Construction
1223 University Avenue Suite 240
Riverside, California 92507
Attn: Mr. Dave Bomba

Re: Final Clearance Air Sampling for the project located at:
Pierce Hall First Floor University of California Riverside, California.

To Mr. Bomba,

Final clearance air samples were obtained after the cleanup of the asbestos containing dust inside the rooms and hallways on the first floor within the contained work area. After a thorough visual inspection for any visible dust remaining inside the work area, Ambient Environmental obtained final air clearance. Samples were obtained by the use of an electric air pump along with a twenty-five millimeter mixed cellulose ester-membrane filters, utilizing a fifty millimeter electrically conductive cowls as specified in 29 CFR 1101.1.

Samples were analyzed in accordance with the requirements of NIOSH Method 7400 Method for Phase Contrast Microscopy (PCM). Personnel involved in the analysis of PCM samples have completed NIOSH course 582 or its equivalent as required by 29 CFR 1101.1. All clearance air samples were less than or equal to the Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763.90 and the Environmental Protection Agency (EPA) asbestos airborne clearance criteria limit of 0.01 fiber per cubic centimeter (f/cc) by PCM.

This Letter of Completion is limited to work performed at the above referenced location. Based upon the air sample results and visual inspection, Ambient Environmental, Inc. can recommend the re-occupancy of the above referenced location.

Signed for Ambient Environmental, Inc. by:

John L. Payne
California Certified Asbestos Consultant #93-1226

AMBIENT ENVIRONMENTAL, INC.

CERTIFICATE OF ANALYSIS

CLIENT: University of California Riverside
PROJECT NAME: Pierce Hall Hallway First Floor Hallway and Rooms University of California Riverside, CA
REPORT DATE: 7-8-19

SAMPLE NUMBER	SAMPLE LOCATION	DATE SAMPLE	FLOW RATE (L/MIN)	TIME (MIN)	SAMPLE VOLUME (LITER)	FIBER COUNT	D/L	FIBER /CC
01	Clearance-Inside Room 1144	7-8-19	15.0	82	1230	4/100	0.002	<0.01
02	Clearance-Inside Room 1141-1117	7-8-19	15.0	82	1230	5/100	0.002	<0.01
03	Clearance-Inside Room 1132	7-8-19	15.0	81	1215	3/100	0.002	<0.01
04	Clearance-Inside Room 1104	7-8-19	15.0	80	1200	4/100	0.002	<0.01
05	Clearance-Inside Room 1105	7-8-19	15.0	81	1215	3/100	0.002	<0.01
06	Clearance-Inside Hallway	7-8-19	15.0	80	1200	4/100	0.002	<0.01
07	Clearance-Inside Lobby	7-8-19	15.0	80	1200	3/100	0.002	<0.01
08	Clearance-Inside 1225 Hallway	7-8-19	15.0	82	1230	3/100	0.002	<0.01
09	Clearance-Inside Room 1219-1220 Hallway	7-8-19	15.0	82	1230	4/100	0.002	<0.01

DL=Detection Limit I certify that the above samples were analyzed in strict compliance with NIOSH 7400 standards and regulations.

Signed for John L. Payne Certified Asbestos Consultant

AMBIENT ENVIRONMENTAL, INC.
Consulting/Engineering/Remediation
www.ambientenvinc.com
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951 272-4731 *Facsimile*
jp@ambientenv.com

July 10, 2019

University of California, Riverside
Planning Design & Construction
1223 University Avenue Suite 240
Riverside, California 92507
Attn: Mr. Dave Bomba

Re: Ambient Air Sampling for the project located at:
Pierce Hall Second Floor and First Floor Lobby University of California Riverside, California.

To Mr. Bomba,

Ambient air samples were obtained from the second floor and first floor lobby. Samples were obtained by the use of an electric air pump along with a twenty-five millimeter mixed cellulose ester-membrane filters, utilizing a fifty millimeter electrically conductive cowls as specified in 29 CFR 1101.1.

Samples were analyzed in accordance with the requirements of NIOSH Method 7400 Method for Phase Contrast Microscopy (PCM). Personnel involved in the analysis of PCM samples have completed NIOSH course 582 or its equivalent as required by 29 CFR 1101.1. All clearance air samples were less than or equal to the Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763.90 and the Environmental Protection Agency (EPA) asbestos airborne clearance criteria limit of 0.01 fiber per cubic centimeter (f/cc) by PCM.

This Letter of Completion is limited to work performed at the above referenced location. Based upon the air sample results, Ambient Environmental, Inc. can recommend the occupancy of the above referenced locations.

Signed for Ambient Environmental, Inc. by:

John L. Payne
California Certified Asbestos Consultant #93-1226

AMBIENT ENVIRONMENTAL, INC.

CERTIFICATE OF ANALYSIS

CLIENT: University of California Riverside
PROJECT NAME: Pierce Hall Hallway Second Floor and First Floor Lobby University of California Riverside, CA
REPORT DATE: 7-10-19

SAMPLE NUMBER	SAMPLE LOCATION	DATE SAMPLE	FLOW RATE (L/MIN)	TIME (MIN)	SAMPLE VOLUME (LITER)	FIBER COUNT	D/L	FIBER /CC
01	Ambient-First Floor Lobby	7-9-19	15.0	80	1200	3/100	0.002	<0.01
02	Ambient-Second Floor Hallway	7-9-19	15.0	81	1215	3/100	0.002	<0.01
03	Ambient-Room 2231	7-9-19	15.0	81	1215	3/100	0.002	<0.01
04	Ambient-Second Floor Hallway	7-9-19	15.0	80	1200	4/100	0.002	<0.01
05	Ambient-Room 2126	7-9-19	15.0	82	1275	3/100	0.002	<0.01
06	Ambient-Room 2133	7-9-19	15.0	81	1215	4/100	0.002	<0.01
07	Ambient-Room 2112	7-9-19	15.0	82	1275	3/100	0.002	<0.01

DL=Detection Limit-I certify that the above samples were analyzed in strict compliance with NIOSH 7400 standards and regulations.

Signed for John L. Payne Certified Asbestos Consultant

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July 12, 2019

University of California, Riverside
Planning Design & Construction
1223 University Avenue Suite 240
Riverside, California 92507
Attn: Mr. Dave Bomba

Re: Asbestos Dust Sampling Assessment for the project located at:
Pierce Hall First Floor University of California Riverside, California.

Dear Mr. Bomba,

Ambient Environmental Inc. obtained tape lift samples throughout select areas of the above referenced location on July 11, 2019. Mr. John Payne a California Certified Asbestos Consultant (#93-1226) and a United States Environmental Protection Agency (USEPA) certified asbestos building inspector obtained the samples.

The purpose of the assessment was to locate and identify suspect dust for detectable levels of asbestos. Once a visual inspection was performed, representative tape lift samples were obtained by applying a transparent tape to the surfaces and lifting the dust from the substrate and placing the tape onto a clear 1mm thick Micro Slide for analysis. The samples were recorded on a sample log and possession of the sample were tracked by a chain of custody record. Ambient Environmental, Inc. representative performed proper decontamination procedures to prevent the spread of any secondary contamination.

Thirty tape lift samples were visually analyzed for asbestos. All bulk samples were submitted to Forensic Analytical located at: 2959 Pacific Commerce Drive Rancho Dominguez, California (310) 763-2374. Forensic Analytical is accredited by the American Industrial Hygiene Association (AIHA), National Voluntary Laboratory Accreditation Program (NVLAP #101459-0), National Institute of Standards and Testing (NIST), and is a successful participant in the Proficiency Analytical Testing Program (PAT). Each sample analyzed by Polarized Light Microscopy (PLM) method in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples EPA - 600/M4-82-020" dated December 1982 and adopted by the National Voluntary Laboratory Accreditation Program (NVLAP) Title 15, part 7 of the

Code of Federal Register as affiliated with the National Institute for Standards and Testing (NIST).

Current Federal USEPA Regulations define a material to be asbestos containing at 1% by weight. Current State of California regulations define a material to be asbestos containing at 0.1% by weight. For this reason, any sample reported as containing a trace amount of asbestos is assumed to contain asbestos. The following is the laboratory result:

Asbestos Cleanup and Decontamination Procedures:

Because there was detected levels of asbestos in one of the thirty settle tape lift dust samples obtained, Ambient recommends the settle dust within room 1144 upper cabinet be clean-up and decontamination per the following procedures.

The work activities should be performed by a California licensed abetment contractor with trained personnel. The designated work area should be off limits to unauthorized personnel during all clean up and decontamination procedures. All workers should be required to wear appropriate personal protective equipment during all asbestos cleanup and decontamination activities. Personal protective equipment utilized will include half face negative pressure respirators, full-bodied tyvek suite, boots and eye protectors. Each respirator should be equipped with HEPA filters.

All cleanup and decontaminate activities should be performed by the use of hand tools and HEPA filtered vacuumed (Proof of SCAQMD permits for all HEPA equipment will be on site during all asbestos related activities). Any waste generated during these activities should be placed into a DOT approved transparent 6-mil polyethylene bag, sealed then each waste bag should be placed into a second DOT approved transparent 6-mil polyethylene labeled bag for disposal as friable waste for disposal. All asbestos containing and/or contaminated debris should be kept wet during all aspects of these asbestos procedures. Upon completion of the work activities, final samples should be obtained. All final samples should have no asbestos contents prior to any release of the work area.

Any recommendations in this report are professional opinions based solely on visual observations and analytical analyses, as described in this report. Opinions and/or recommendations presented herein apply to site conditions existing at the time of our investigation, they cannot necessarily apply to site changes of which this office is not aware of and/or has not had the opportunity to evaluate.

Please contact the undersigned with your questions and/or comments regarding the sample result and/or location.

Sincerely,
Signed for Ambient Environmental, Inc. by

John L. Payne
CAC #93-1226

Attachments

Appendix - A	Chain of Custody and Bulk Sample Log
Appendix - B	Certification

TAPE LIFT SAMPLE RESULTS AND LOCATION

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-1

Ambient Environmental Inc
John Payne
400 N. Princeland Crt.
Ste. 3
Corona, CA 92879

Client ID: 5697
Report Number: B279899
Date Received: 07/12/19
Date Analyzed: 07/12/19
Date Printed: 07/12/19
First Reported: 07/12/19

Job ID/Site: 19-1132; Pierce Hall UCR

Date(s) Collected: 07/11/2019

FALI Job ID: 5697-UCR
Total Samples Submitted: 30
Total Samples Analyzed: 30

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	51246212						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (3 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
02	51246213						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (15 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
03	51246214						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
04	51246215						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
05	51246216						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
06	51246217						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							

2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-8684

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
07	51246218						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (3 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
08	51246219						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (3 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
09	51246220						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (3 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
10	51246221						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
11	51246222						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
12	51246223						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
13	51246224						
Layer: White Debris			**ND**				
Layer: Yellow Mastic Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
14	51246225						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							

2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-8684

Client Name: Ambient Environmental Inc

Report Number: B279899
Date Printed: 07/12/19

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
15	51246226						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
16	51246227						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
17	51246228						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
18	51246229						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (3 %)							
Comment: TapeRlift sample: Quantitative data may not be repeatable or represent the entire sample.							
19	51246230						
Layer: White Debris			**ND**				
Layer: Black Mastic Debris		Chrysotile	**2 %**				
Total Composite Values of Fibrous Components:		**Asbestos (Trace)**					
Cellulose (3 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
20	51246231						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (3 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
21	51246232						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
22	51246233						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
23	51246234						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
24	51246235						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
25	51246236						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
26	51246237						
Layer: White Debris			**ND**				
Layer: Beige Mastic Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
27	51246238						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
28	51246239						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (3 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
29	51246240						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							
30	51246241						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %)							
Comment: Tapelift sample: Quantitative data may not be repeatable or represent the entire sample.							

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Client Name: Ambient Environmental Inc

Report Number: B279899
Date Printed: 07/12/19

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer

Tiffani Ludd, Laboratory Supervisor, Rancho Dominguez Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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APPENDIX A

CHAIN OF CUSTODY
AND BULK SAMPLE LOG

AMBIENT ENVIRONMENTAL, INC.
Consulting/Engineering/Remediation

400 North Princeland Court Suite-3
Corona, California 92879
951 272-4730 *Phone*
951 272-4731 *Facsimile*
www.ambientenvinc.com

ASBESTOS BULK SAMPLE LOG

Client Name: UCR P.D

Project Location: PIERCE HALL UCR

Date: 7-11-19 **Field Technician:** John C Payan

Project Number: 19-1132 **Priority:** ASAP ✓ 24 HR ___ 3-5 Days ___

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
01	1227 CABINET	DUST	
02	1227 DESK PHONE 137		
03	1225E PICTURE FRAME TOP OF		
04	1225A SHELF		
05	1223 DESK		
06	1223 DESK		
07	CR1200 DESK		
08	1220A CONTER		
09	1220C DESK		
10	1219A BOOK SHELF		

Chain of Custody **Analytical Method: PLM:** ✓ **TEM:** ___ **Other:** ___

Sampled By		**Date**	**Time**
Relinquished By		**Date**	**Time**
Received By		**Date** 07-12-19	**Time** 11 Am
Relinquished By		**Date**	**Time**
Received By		**Date**	**Time**

D/O

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951 272-4731 *Facsimile*
www.ambientenvinc.com

ASBESTOS BULK SAMPLE LOG

Client Name: UCR P&D

Project Location: PIERCE HALL UCR

Date: 7-11-19 **Field Technician:**

Project Number: 19-1132 **Priority:** ASAP 7 24 HR ___ 3-5 Days ___

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
11	1220 F BOOKSHELF	DUST	
12	1221 COUNTER		
13	CR1100		
14	1132 BOOK SHELF		
15	1132 DESK		
16	1134 SHREDDER		
17	1134 DESK		
18	1140 DESK		
19	1144 UPPER CABINET		
20	1148 DESK		

Chain of Custody **Analytical Method: PLM:** 1 **TEM:** ___ **Other:** ___

Sampled By		**Date**	**Time**
Relinquished By		**Date**	**Time**
Received By		**Date** 07-12-19	**Time** 11 AM
Relinquished By		**Date**	**Time**
Received By		**Date**	**Time**

P/O

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Consulting/Engineering/Remediation

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Corona, California 92879
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ASBESTOS BULK SAMPLE LOG

Client Name: UCR PiD

Project Location: Pitzer Hall UCR

Date: 7-11-19 **Field Technician:** John Payne

Project Number: 19-1132 **Priority:** ASAP ✓ 24 HR ___ 3-5 Days ___

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
21	1149 computer	Dust	
22	1141 Bookshelf		
23	1139 Blue cabinet		
24	1139 Top of Equip. next to Fume Hood		
25	1129 Brown cabinet		
26	1125 Bottle Rack		
27	1125 Plaster Hood		
28	1105 Desk		
29	1104 Desk		
30	1120 counter		

Chain of Custody **Analytical Method: PLM:** ✓ **TEM:** ___ **Other:** ___

Sampled By		**Date**	**Time**
Relinquished By		**Date**	**Time**
Received By		**Date** 07-12-19	**Time** 11AM
Relinquished By		**Date**	**Time**
Received By		**Date**	**Time**

APPENDIX B

CERTIFICATION

STATE OF CALIFORNIA
GAVIN NEWSOM, *Governor*

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Certification & Training Unit
2424 Arden Way, Suite 495
Sacramento, CA 95825-2417
(916) 574-2993 Office (916) 483-0572 Fax
http://www.dir.ca.gov/dosh/asbestos.html acru@dir.ca.gov

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Ambient Environmental, Inc.
John Lee Payne
400 Princeland Court, Suite 3
Corona CA 92879

May 16, 2019

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email with any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File

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

John Lee Payne
Name

Certification No. **93-1226**

Expires on **06/24/20**

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.

Renewal – Card Attached (Revised 01/10/2019)

AMBIENT ENVIRONMENTAL, INC.
Consulting/Engineering/Remediation
www.ambientenvinc.com
400 North Princeland Court Suite-3
Corona, California 92879
951 272-4730 *Phone*
951 272-4731 *Facsimile*
jp@ambientenv.com

July 19, 2019

University of California, Riverside
Architects & Engineers
1223 University Avenue Suite 240
Riverside, California 92507
Attn: Mr. Dave Bomba

Re: Final Asbestos Clearance (Micro Vac) Sampling for the project located at:
Pierce Hall Room 1144 and 1148 University of California Riverside, California.

To Mr. Bomba,

Final clearance asbestos micro vac samples were obtained after the cleanup of the settle dust debris identified in the report dated July 12, 2019. After a thorough visual inspection for any visible dust or debris remaining, Ambient Environmental obtained final micro vac samples (12x12 area). Samples were obtained by the use of a low flow electric air pump along with a twenty-five millimeter mixed cellulose ester-membrane filters, utilizing a fifty millimeter electrically conductive cowls as specified in 29 CFR 1101.1.

Each micro vac sample was submitted to Forensic Analytical located at: 2959 Pacific Commerce Drive Rancho Dominguez, California (310) 763-2374. Forensic Analytical is accredited by the American Industrial Hygiene Association (AIHA), National Voluntary Laboratory Accreditation Program (NVLAP #101459-0), National Institute of Standards and Testing (NIST), and is a successful participant in the Proficiency Analytical Testing Program (PAT). Each sample analyzed by Polarized Light Microscopy (PLM) method in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples EPA - 600/M4-82-020" dated December 1982 and adopted by the National Voluntary Laboratory Accreditation Program (NVLAP) Title 15, part 7 of the Code of Federal Register as affiliated with the National Institute for Standards and Testing (NIST).

This Letter of Completion is limited to work performed at the above referenced location. Based upon the sample results, Ambient Environmental, Inc. can recommend the occupancy of the above referenced location.

Signed for Ambient Environmental, Inc. by:

John L. Payne
California Certified Asbestos Consultant #93-1226

Attachments

Appendix - A	**Chain of Custody and Bulk Sample Log**
Appendix - B	**Laboratory Certification of Analysis**
Appendix - C	**Certification**

APPENDIX A

CHAIN OF CUSTODY
AND BULK SAMPLE LOG

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ASBESTOS BULK SAMPLE LOG

Client Name: UCR P&D

Project Location: Pierce Hall, UCR

Date: 7-17-19 **Field Technician:** [illegible]

Project Number: 19-1464 **Priority:** ASAP ✓ 24 HR ___ 3-5 Days ___

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
01	Room 1144 Top of cabinet	Dust	
02	Room 1148 Desk	↓	

Chain of Custody **Analytical Method: PLM:** ✓ **TEM:** ___ **Other:** ___

Sampled By		**Date**	**Time**
Relinquished By		**Date**	**Time**
Received By		**Date** 07 18 19	**Time** 1:15pm
Relinquished By		**Date**	**Time**
Received By		**Date**	**Time**

APPENDIX B

LABORATORY CERTIFICATES OF ANALYSIS

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-1

Ambient Environmental Inc
John Payne
400 N. Princeland Crt.
Ste. 3
Corona, CA 92879

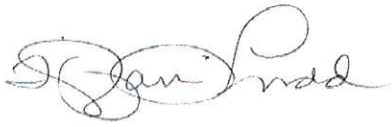
Client ID: 5697
Report Number: B290198
Date Received: 07/18/19
Date Analyzed: 07/18/19
Date Printed: 07/18/19
First Reported: 07/18/19

Job ID/Site: 19-1464; Pierce Hall, UCR

Date(s) Collected:

FALI Job ID: 5697-UCR
Total Samples Submitted: 2
Total Samples Analyzed: 2

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	51248631						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components: **Asbestos (ND)**							
Cellulose (Trace)							
Comment: Microvac: Quantitative data may not be repeatable or represent the entire sample.							
02	51248632						
Layer: White Debris			**ND**				
Total Composite Values of Fibrous Components: **Asbestos (ND)**							
Cellulose (Trace)							
Comment: Microvac: Quantitative data may not be repeatable or represent the entire sample.							



Tiffani Ludd, Laboratory Supervisor, Rancho Dominguez Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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APPENDIX C

CERTIFICATION

STATE OF CALIFORNIA GAVIN NEWSOM, *Governor*

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Certification & Training Unit
2424 Arden Way, Suite 495
Sacramento, CA 95825-2417
(916) 574-2993 Office (916) 483-0572 Fax
http://www.dir.ca.gov/dosh/asbestos.html acru@dir.ca.gov

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Ambient Environmental, Inc.
John Lee Payne
400 Princeland Court, Suite 3
Corona CA 92879

May 16, 2019

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Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email with any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File

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

John Lee Payne
Name
Certification No. **93-1226**
Expires on **06/24/20**
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.

Renewal – Card Attached (Revised 01/10/2019)