



assess  
resolve  
strengthen

**CITADEL** ENVIRONMENTAL SERVICES, INC.

**SAN BERNARDINO COMMUNITY COLLEGE DISTRICT**  
114 S. Del Rosa Drive  
San Bernardino, California 92408

## **Asbestos Operations and Maintenance Program – Final**

September 22, 2014

Citadel Project Number 0069.1029.0

Crafton Hills College  
11711 Sand Canyon Road  
Yucaipa, California 92399

**[www.citadelenvironmental.com](http://www.citadelenvironmental.com)**

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## **1.0 CRAFTON HILLS COLLEGE POLICY**

Asbestos has been determined to be a naturally occurring carcinogen once used in a wide range of building products. Asbestos-containing materials (ACM) and presumed asbestos-containing materials (presumed ACM) remain in the buildings of Crafton Hill College (CHC), located at 11711 Sand Canyon Road in Yucaipa, California. Presumed ACM refers to any suspect asbestos-containing material that has not been sampled and proven otherwise.

**FIGURE 1 – CAMPUS**



1 KENISIOLOGY, HEALTH & ..... KHA	12 MATH & SCIENCE ANNEX ..... MSA
AQUATICS COMPLEX	
2 ATHLETIC FIELD ..... AF	13 MAINTENANCE & OPERATIONS/ SHIPPING & RECEIVING
3 BC CLASSROOM BUILDING. .... BC	14 OCCUPATION EDUCATION 1 ..... OE1
4 BOOKSTORE ..... BK	15 UNDER CONSTRUCTION
5 STUDENT CENTER/CAFETERIA. .... SCC	16 PERFORMING ARTS CENTER ..... PAC
Student Senate	
6 CL CLASSROOM BUILDING..... CL	17 STUDENT SERVICES A ..... SSA
Financial Aid	Admissions & Records EOPS
7 CHEMISTRY/HEALTH SCIENCES ..... CHS	18 STUDENT SERVICES B ..... SSB
8 CHILD DEVELOPMENT CENTER ..... CDC	Counseling Health & Wellness Center
9 GYMNASIUM. .... G	Disabled Student Services
10 LABORATORY/ADMINISTRATION. .... LADM	19 TENNIS COURTS ..... TC-CRTS
Campus Business Office	
Parking Permits (Semester/Annual)	* CHC Fire Academy has been temporarily relocated during construction to:
POLICE (LADM 153)	CALFIRE
11 LEARNING RESOURCE CENTER ..... LRC	3800 N. Sierra Way, San Bernardino, CA 92405
Copy Center Multi-purpose Room	For Information Call: 909-389-3418 or
Gallery Teaching Center	Visit: <a href="http://craftonhills.edu/fireacademy">craftonhills.edu/fireacademy</a>
Lecture Hall Tutoring Center	
Library	

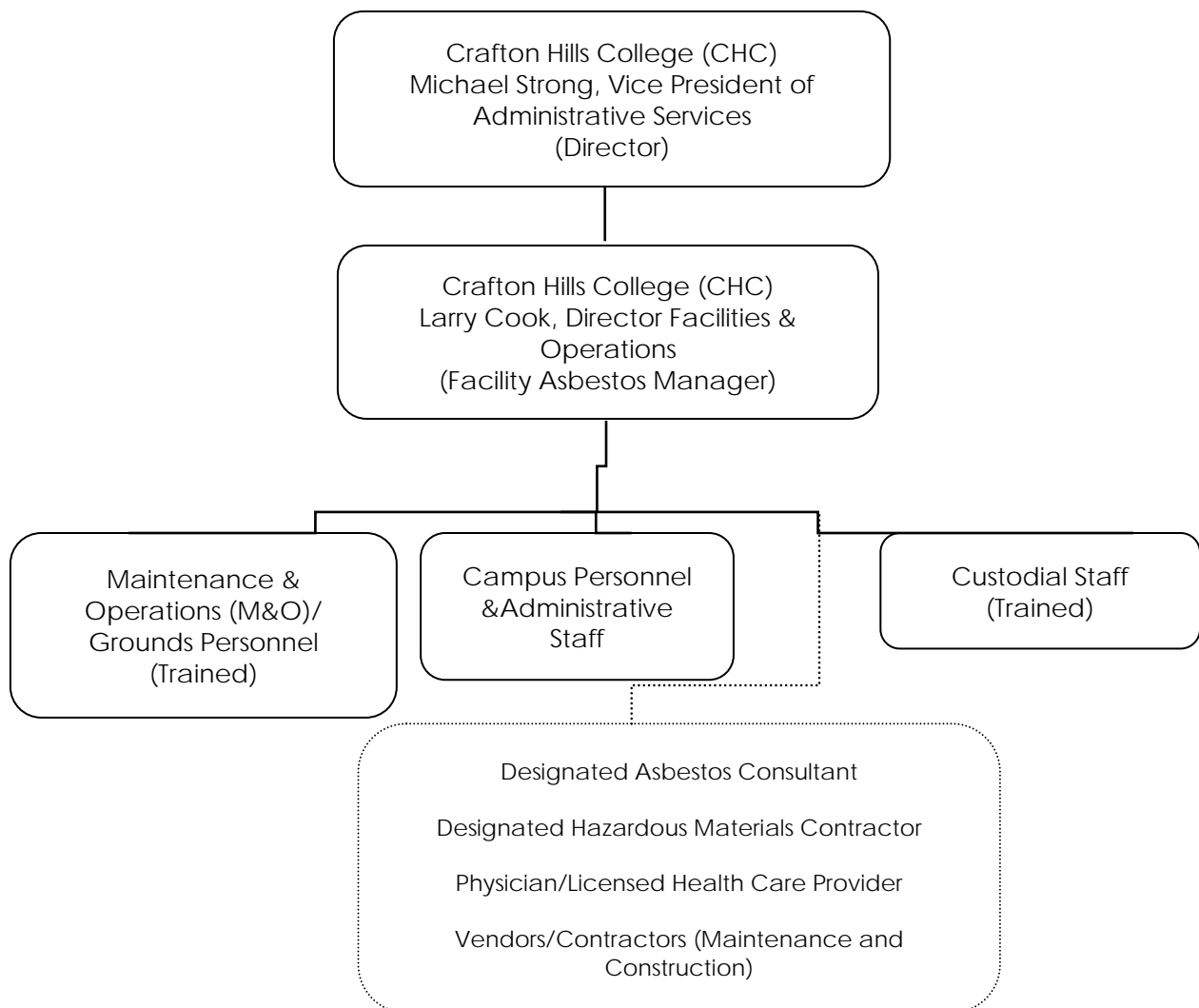
The presence of ACM and presumed ACM within a building does not, in and of itself, pose a hazard to human health. This policy is designed to control the possible health risks which could be created if excessive asbestos fibers are released.

Protection of CHC employees, visitors, and outside contractors shall be achieved through a combination of measures including but not limited to education of the said parties, periodic inspection of known and presumed ACM, and adherence to certain policies and procedures that are described in this Operations & Maintenance Program (O & M Program). This O & M Program provides policies, procedures, and guidance to all levels of CHC staff and management.

## **2.0 RESPONSIBILITIES**

Implementation of this policy will require involvement from all levels of CHC staff and management. The Facility Asbestos Manager shall be responsible for carrying out day-to-day functions since he/she is onsite and cognizant of site activities. CHC shall rely upon the services of the designated Asbestos Consultant and designated Hazardous Materials Contractor to fulfill certain requirements. An overall reporting structure is described below in Figure 2.

**FIGURE 2 – ORGANIZATIONAL STRUCTURE**



## Crafton Hill College

This entity is responsible for establishing corporate policies that shall be adhered to in CHC.

### Facility Asbestos Manager

The Facility Asbestos Manager will be the local onsite contact person and coordinator for all asbestos-related activities at the facility. His/her responsibilities include coordination of all emergency response to asbestos fiber release episodes, and scheduling asbestos abatement, maintaining inspection records on-site, and/or other operations and maintenance activities throughout the facility. Additionally, he/she shall be responsible for ensuring that the periodic annual inspections of known ACM and presumed ACM are conducted.

The Facility Asbestos Manager (FAM) is:

Larry Cook  
Director, Facility & Operations  
Crafton Hills College  
11711 Sand Canyon Road  
Yucaipa, California 92399  
909/389-3384

**Trained Maintenance & Operations (M&O)/Grounds Personnel** are responsible for adhering to the policies and procedures described in this O&M Program. They are also responsible for limitedly responding to fiber release episodes (F.R.E.), and documenting and reporting any visible disturbance or deterioration of known or presumed ACM to the Facility Asbestos Manager during their annual walkthrough inspections (Checklist 4, Appendix B); or at any other time during the course of their work.

**Campus Personnel and Administrative Staff** are responsible for adhering to the policies and procedures described in this O&M Program. Furthermore, property managers and administrative staff shall report any visible disturbance or deterioration of known and presumed ACM to the Facility Asbestos Manager.

**Trained Custodial Staff** are responsible for adhering to the policies and procedures described in this O&M Program. Furthermore, general engineering, maintenance & custodial staff shall report any visible disturbance or deterioration of known ACM and presumed ACM to the Facility Asbestos Manager.

### Vendors/Contractors

Vendors/Contractors (e.g., Cable/Data Conduit, carpenters, plumbers, electricians, tradesmen, etc.) are responsible for adhering to the policies and procedures described in this O&M Program. Furthermore, Vendors/Contractors shall report any visible disturbance or deterioration of known and presumed ACM to the Facility Asbestos Manager.

**ACM Repair and Disturbance activities are prohibited by CHC Vendors/Contractors. All work must be handled by the designated Hazardous Materials Contractor with oversight by the designated Asbestos Consultant. ACM disturbance activities are limited to response to F.R.E. activities outlined in the O & M Program (Section 5.0).**

### **Designated Asbestos Consultant**

CHC will retain a qualified and experienced Asbestos Consultant to assist the Facility Asbestos Manager, and other company representatives, as needed. The designated Asbestos Consultant will be available to perform building surveys, assess conditions of ACM and presumed ACM, test and monitor airborne fiber concentration levels, coordinate ACM and presumed ACM emergency procedures, conduct asbestos O & M training, conduct periodic (annual) surveillance and air monitoring (if required), aid in the implementation of the O & M program, and provide asbestos abatement design and monitoring services, as required. The Designated Asbestos Consultant may also perform annual walkthrough inspections (Checklist 5, Appendix B)

Asbestos Consultant:

Nalinna Rasu  
Citadel Environmental Services, Inc.  
1725 Victory Boulevard  
Glendale, California 91201  
818/246-2707 o  
818/246-3145 f

### **Designated Hazardous Materials Contractor**

The Designated Hazardous Materials Contractor shall be responsible for certain asbestos-related response actions including response to fiber release episodes, repair of damaged materials, and abatement of known or presumed ACM during renovation and construction projects on behalf of CHC. The threshold for contracting outside support is the disturbance to or damage of ACM or presumed ACM. In-house activities related to the disturbance of ACM and presumed ACM is limited to that of the Trained M&O/Grounds Personnel who are trained to isolate areas of damaged ACM and presumed ACM where a fiber release episode has occurred.

Jeremy Brown  
Environmental Management Technologies (EMT)  
1456 S. Gage Street  
San Bernardino, California 92408  
1-800-579-6834 o  
909/799-6547 f

## Physician/Licensed Health Care Provider

All related activities shall be conducted by the designated Licensed Health Care Provider or physician:

Licensed Health Care Provider:  
Fox Occupational Medical Center  
1375 Camino Real, Suite 130  
San Bernardino, California 92408  
909/884-1500

Closest Hospital:  
Redlands Community Hospital  
350 Terracina Boulevard, Redlands, CA 92373  
909-335-5500



### **3.0 AREAS CONTAINING ASBESTOS-CONTAINING MATERIALS**

Confirmed ACMs (by bulk sample analysis) in CHC include those listed in Table 1.0 – Asbestos-Containing Materials Summary in Appendix A. These ACMs are located as indicated in previous survey report(s) as listed in Appendix A. Additional ACMs may be located in CHC, and should be presumed to be asbestos-containing until sampled and proven otherwise. Only select areas of CHC were surveyed for asbestos-containing materials. As such, additional ACMs may be present and should be presumed to be asbestos-containing until sampled and proven otherwise, even though there are no records to indicate the confirmed presence of ACM in areas.

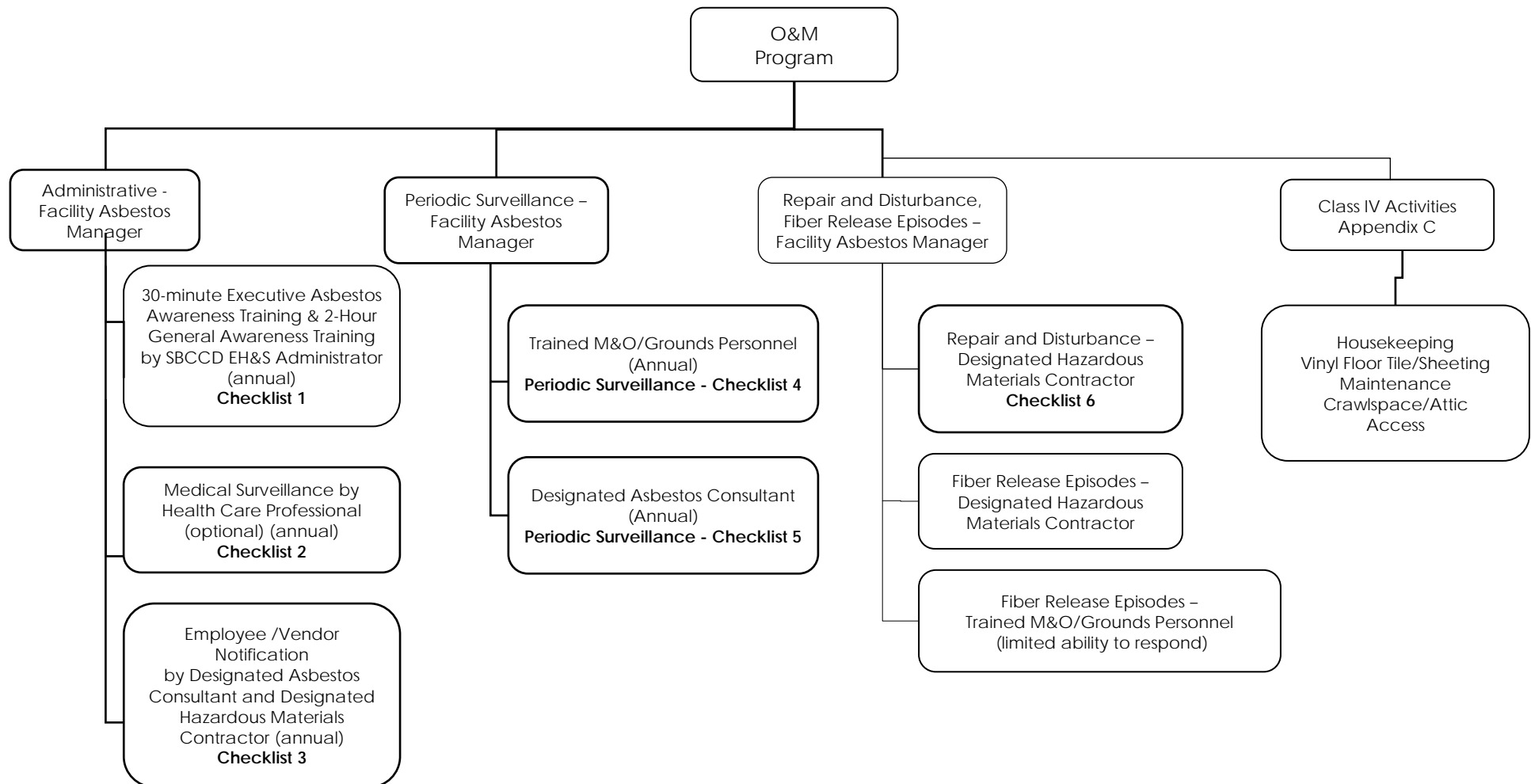
Additional information can be found in asbestos survey and close-out reports on file in the LADM Bldg #10, Room#165 or the SBCCD, Administrative Offices, Environmental Health & Safety office, located at 114 S. Del Rosa Avenue, San Bernardino, California, 92408.

## **4.0 GENERAL REQUIREMENTS**

The general requirements for managing ACM and presumed ACM at this site can be broken down into functions classified as either administrative, periodic surveillance, or repair/disturbance (planned or unplanned). Furthermore, these functions can be broken down into the tasks shown on the following page as Figure 3 – General Requirements. There are Checklists and Instructions contained in Appendix B which apply to each task.

Although certain functions are carried out by the Trained M&O/Grounds Personnel, Campus Personnel & Administrative Staff, Trained Custodial Staff, Vendors/Contractors, Designated Asbestos Consultant, Designated Hazardous Materials Contractor, or Physician/Licensed Health Care Professional, the Facility Asbestos Manager is responsible for coordination of all activities.

**FIGURE 3 – GENERAL REQUIREMENTS**



## **5.0 EMERGENCY RESPONSE PROCEDURES FOR EPISODIC EVENTS**

As long as ACM remains in the facility, a fiber release episode could occur if the ACM or presumed ACM is inadvertently disturbed. The Trained M&O/Grounds Personnel should immediately report to the Facility Asbestos Manager the presence of suspect asbestos-containing debris on the floor, water or physical damage to the ACM, or any other evidence of a fiber release. The Facility Asbestos Manager must notify the CHC personnel of fiber release episodes (F.R.E.).

The Facility Asbestos Manager may then take the following steps, with assistance from the Trained M&O/Grounds Personnel:

- Evaluate the extent of ACM damage;
- Barricade contaminated areas against entry by unauthorized personnel;
- Isolate the contaminated area by sealing doors and vents with polyethylene sheeting and duct tape, and shutting off or modifying air handling system(s), or any other notification appropriate to restrict access or prevent exposure in other areas of the buildings;
- Post a warning sign outside the contaminated area; and

The Facility Asbestos Manager may then take the following steps:

- Contact the designated Asbestos Consultant;
- The designated Asbestos Consultant will assess the situation and recommend further courses of actions;
- Contact the Designated Hazardous Materials Contractor;
- If significant damage or delamination of ACM or presumed ACM has occurred, consider total removal of the ACM or presumed ACM by the designated Hazardous Materials Contractor in the affected areas and replacement with a non-asbestos-containing substitute; and
- Keep all records associated with the fiber release episode (F.R.E.), including asbestos abatement contractor submittals (medical information, waste shipment records, etc.), designated Asbestos Consultant's reports (air sampling data), and a fiber release episode (F.R.E.) report.

**NOTE: The designated Asbestos Consultant will secure and maintain all necessary documentation and records associated with the work.**

To respond to fiber release episodes (F.R.E.), the following materials will be available at CHC and accessible to the Trained M&O/Grounds Personnel for the purpose of isolating areas of damaged ACM and presumed ACM.

**FIBER RELEASE EPISODE SUPPLIES**

<b>Item</b>	<b>Recommended Quantity</b>
Barricade Tape (3 inches x 1,000 feet)	1 roll
Duct Tape (3 inch x 60 yard/roll)	3 rolls
Polyethylene Sheet (6-mil) sheet (20 feet x 100 feet)	1 roll
Sign - DANGER (14 inches x 20 inches)	5
Sign - KEEP OUT	5
Disposable Gloves (Latex or Vinyl)	1 box
Utility Knife or Scissors	1
Surfactant	1 gallon
Sprayer	1 each

Any additional response actions for fiber release episodes will be determined by the designated Asbestos Consultant and conducted by the designated Hazardous Materials Contractor who is licensed in the state where the facility is located.

## **6.0 RESPIRATORY PROTECTION**

Crafton Hills College's Respiratory Protection Program can be found at the link below:

[http://www.sbccd.org/District\\_Faculty\\_-\\_a-,\\_Staff\\_Information-Forms/Environmental\\_Health\\_and\\_Safety/Safety\\_Programs/Respiratory\\_Protection\\_Program/Crafton\\_Hills\\_Respiratory\\_Protection\\_Program](http://www.sbccd.org/District_Faculty_-_a-,_Staff_Information-Forms/Environmental_Health_and_Safety/Safety_Programs/Respiratory_Protection_Program/Crafton_Hills_Respiratory_Protection_Program)

## **7.0 BACKGROUND INFORMATION**

Background information is presented in Appendix D to help users understand the historical uses of ACM, health effects associated with exposure, and applicable laws and regulations.

# **Appendix A**

## **Table 1.0 – Asbestos-Containing Materials Summary (ACMs)**



**TABLE 1.0 – Asbestos-Containing Materials Summary (ACMs)**

As of September 2013

BUILDING	DESCRIPTION	LOCATION
Building 1 (Lab/Admin-LADM)	Drywall w/ Tape & Joint Compound	Throughout
	Vinyl Floor Tile w/ Mastic (Unknown Size)	Room 220
	Pebble Pattern Vinyl Sheet Flooring	Throughout
	12"x12" Light Green Vinyl Floor Tile w/ Mastic	Room 101, 107, 201, 203, & 209
	Black/Silver/Grey Penetration Mastic	Roof B, F, & G
	12"x12" Tan w/ Specks Vinyl Floor Tile w/ Mastic	Room 101, 107, 201, 203, & 209
	Yellow Floor Mastic	2 <sup>nd</sup> Floor Men's Room Entrance
	Yellow Carpet Mastic	Throughout
	White/Grey/Green Rock	Room 4B (in boxes)
Building 3 (College Center/ Student Center/Cafeteria-SCC)	4" Blue Base Cove w/ Mastic	Room 201 & 202
	12"x12" Beige w/ Brown Floor Tile w/ Mastic	Room 101, CSO Office & Storage, Room 103 Toilet, 104, Mezzanine, & 201
	12"x12" White w/ Brown Floor Tile w/ Mastic	Room 102, 102C, & 103
	12"x12" Brown w/ White Floor Tile w/ Mastic	Room 105
	4" Light Brown Base Cove w/ Mastic	Room 101, 105, CSO Office, & Mezzanine
	Drywall Wall w/ Tape & Joint Compound	Throughout
	1'x1' Acoustic Ceiling Tile w/ Mastic	Room 101
	Under Sink Mastic Coating	Room 202
	Black Penetration Mastic	Roof B & E
Building 4 (Student Services A-SSA)	12"x12" Tan w/ Specks Vinyl Floor Tile w/ Mastic	Room 305
	12"x12" Brown w/ White Vinyl Floor Tile w/ Mastic	Elevator Car
	12"x12" Tan w/ Brown Specks Vinyl Floor Tile w/ Mastic	Men's Room Entrance 3 <sup>rd</sup> Floor
	12"x12" Green w/ White Vinyl Floor Tile w/ Mastic	Room 213A
	Drywall Wall w/ Tape & Joint Compound	Throughout
	Carpet Mastic	Throughout
	Penetration Mastic	Roof A
	Grey Rolled Roofing	Roof C

**TABLE 1.0 – Asbestos-Containing Materials Summary (ACMs)**

As of September 2013

BUILDING	DESCRIPTION	LOCATION
Building 5 (Classrooms-CL)	4" Brown Base Cove w/ Mastic	Rooms 106, 106A & B, 111, 111A&B, 215, 218, & 218A&B
	Yellow Carpet Mastic	Throughout
	Drywall Walls w/ Tape & Joint Compound	Throughout
	Drywall Ceilings w/ Tape & Joint Compound	Throughout on Ducting
Building 6 (Occupational Education 1-OE-1)	12"x12" Light Green Floor Tile w/ Mastic	Throughout Under All Carpet
	12"x12" White w/ Brown Floor Tile w/ Mastic	Room 123
	Sand Plaster Walls (ACCM)	Throughout
	Under Sink Mastic Coating	Rooms 111, 117, 118, & 135
	Exterior Stucco (ACCM)	At Entrance
	Black Floor Mastic	Room 115 Under Carpet
Building 8 (Performing Arts-PAC)	Drywall Walls w/ Tape & Joint Compound	Throughout
	Drywall Ceilings w/ Tape & Joint Compound	Room 113, 114, 115-2, 202, 206, & 223
	1'x1' Ceiling Tile Splined & Textured	Room 201, 304-307
	Rough Texture Tectum Wall	Auditorium, Room 112, 304-307, 315, & 316
	12"x12" Tan w/ Specks Vinyl Floor tile w/ Mastic	Rooms 112 – 114, 201, & 314
	1'x1' Fissured Ceiling Tile w/ Mastic	Room 112
	Mastic Behind Mirrors	Throughout
	Black/Silver Penetration Mastic	Roof A
Building 9 (Maintenance)	4" Black Base Cove w/ Mastic	Throughout Offices
	4" Grey/Tan Base Cove w/ Mastic	Restrooms
	12"x12" White w/ Black Specks Floor Tile w/ Mastic	Office # 2
	Texture Drywall Wall w/ Tape & Joint Compound	Throughout
	12"x12" Tan w/ Brown Floor Tile w/ Mastic	Operations Office & Restrooms
	White Caulking	Rooftop
	Grey Caulking	Rooftop
Building 10 (Gym-G)	Plaster Walls	Throughout
	Plaster Ceilings	Throughout

**TABLE 1.0 – Asbestos-Containing Materials Summary (ACMs)**

As of September 2013

BUILDING	DESCRIPTION	LOCATION
	Exterior Stucco (ACCM)	Exterior Entrances to Building
	Floor Mastic	Room 109
	1'x1' Fissured Ceiling Tile w/ Mastic	Room 104, 106, 107, 109, 111-115, & First Aid Office
	12"x12" White w/ Grey Floor Tile & Mastic	Room 107, 111-115, & Vestibule # 3
	Under Sink Mastic Coating	Room 114
	4" Brown Base Cove & Mastic	Room 106, Basement Corridors, & Basement Rooms
	Black Window Putty	Exterior Windows
	12"x12" Brown w/ Black Streak Floor Tile & Mastic	On Bleachers in Gym
	Black Penetration Mastic	Roof # 1
Building 12 (Chemistry & Health Science-CHS)	2'x4' White Fissured Drop Ceiling Tile	Throughout
	Tan Pebble Pattern Vinyl Sheet Flooring	Throughout
	Black & Grey Penetration Mastic	Rooftop A
Building 13 (Child Development # 1-CDC)	Black & Grey Penetration Mastic	Roof A, B, C, D, E, & F
	Exterior Stucco (ACCM)	Walkway From Building 13 to 14
Building 14 (Child Development # 2-CDC)	Black & Grey Penetration Mastic	Roof A & B
Building 15 (Child Development # 3-CDC)	None	N/A
Building 16 (Student Services B-SSB)	None	N/A
Building 17 (Bookstore-BK)	Black & Grey Penetration Mastic	Bookstore Roof
Building 18 (Bookstore Classrooms-BC)	Black & Grey Penetration Mastic	Roof



**CITADEL**  
ENVIRONMENTAL SERVICES, INC.

# **Appendix B**

## **Checklists for General Requirements**

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 1 Training Page 1
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## CHECKLIST 1 TRAINING

### Facility Asbestos Manager

- ☐ The Facility Asbestos Manager received 2-hour General Asbestos Awareness Training at the beginning of employment.
- ☐ Every year thereafter, the Facility Asbestos Manager received 2-hour General Asbestos Awareness Training.

### Trained Maintenance & Operations (M&O)/Grounds Personnel

- ☐ The Trained M&O/Grounds Personnel received 2-hour General Asbestos Awareness Training at the beginning of employment.
- ☐ Every year thereafter, the Trained M&O/Grounds Personnel received 2-hour General Asbestos Awareness Training.

### Trained Custodial Staff

- ☐ The Trained Custodial Staff received 2-hour General Asbestos Awareness Training at the beginning of employment.
- ☐ Every year thereafter, the Trained Custodial Staff received 2-hour General Asbestos Awareness Training.

\_\_\_\_\_  
Facility Asbestos Manager

\_\_\_\_\_  
Date

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Note: SBCCD EH&S Administrator (Whitney Fields) or the designated Asbestos Consultant shall conduct all training and must be registered to do so by the State of California, Division of Occupational Safety and Health. The Facility Asbestos Manager shall make arrangements with the SBCCD EH&S Administrator and/or designated Asbestos Consultant to complete the training. Currently, Citadel Environmental is CHC's designated Asbestos Consultant and Whitney Fields is the SBCCD EH&S Administrator.

Nalinna Rasu  
 Citadel Environmental Services, Inc.  
 1725 Victory Boulevard  
 Glendale, California 91201  
 818-246-2707 o  
 818-246-3145 f

Whitney Fields  
 District Environmental Health & Safety Administrator  
 114 S. Del Rosa Drive  
 San Bernardino, California 92408  
 909-382-4070 o  
 909-382-0174 f

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 2 Medical Surveillance Page 1
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## CHECKLIST 2 MEDICAL SURVEILLANCE

### Facility Asbestos Manager (optional)

- ☐ The Facility Asbestos Manager received the medical examination provided to asbestos workers and respiratory protective equipment users, at the beginning of employment by a physician or licensed health care provider.
- ☐ Every year thereafter, the Facility Asbestos Manager receives a follow-up medical examination for asbestos workers and respiratory protective equipment users, by a physician or licensed health care provider.

### Trained Maintenance & Operations (M&O)/Grounds Personnel (optional)

- ☐ The M&O/Grounds Personnel received the medical examination provided to asbestos workers and respiratory protective equipment users, at the beginning of employment by a physician or licensed health care provider.
- ☐ Every year thereafter, the M&O/Grounds Personnel receives a follow-up medical examination for asbestos workers and respiratory protective equipment users, by a physician or licensed health care provider.

### Custodial Staff (optional)

- ☐ The Custodial Staff received the medical examination provided to asbestos workers and respiratory protective equipment users, at the beginning of employment by a physician or licensed health care provider.
- ☐ Every year thereafter, the Custodial Staff receives a follow-up medical examination for asbestos workers and respiratory protective equipment users, by a physician or licensed health care provider.

\_\_\_\_\_  
Facility Asbestos Manager

\_\_\_\_\_  
Date

-----  
Note: 3M is CHC's designated medical clearance provider with follow ups as necessary by:

Fox Occupational Center  
 1375 Camino Real, Suite 130  
 San Bernardino, CA 92408  
 909-884-1500

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 3 Employee/Vendor/Contractor Notification Page 1
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**CHECKLIST 3**  
**EMPLOYEE/VENDOR/CONTRACTOR NOTIFICATION**

- ☐ Employees were notified of the presence of ACM and Presumed ACM at the beginning of employment.
- ☐ Vendors were notified of the presence of ACM and Presumed ACM at the establishment of their respective contracts.
- ☐ Contractors were notified of the presence of ACM and Presumed ACM at the establishment of their respective contracts.
- ☐ Employees, vendors and contractors receive annual notification regarding the presence of ACM and Presumed ACM.

\_\_\_\_\_  
 Facility Asbestos Manager

\_\_\_\_\_  
 Date

-----

Note: A sample notification letter is attached. ANY WRITTEN COMMUNICATIONS TO EMPLOYEES, VENDORS, AND CONTRACTORS MUST BE REVIEWED BY SBCCD'S EH&S ADMINISTRATOR PRIOR TO RELEASE.

END OF CHECKLIST

**Asbestos Operations and Maintenance Program**

Crafton Hills College  
11711 Sand Canyon Road  
Yucaipa, CA 92399  
September 2014

Checklist 3  
Employee/Vendor/Contractor Notification  
Page 1

**SAN BERNARDINO COMMUNITY COLLEGE DISTRICT – CRAFTON HILLS COLLEGE****ASBESTOS NOTIFICATION TO VENDORS, OUTSIDE CONTRACTORS, AND LICENSEES**

**TO:** \_\_\_\_\_  
\_\_\_\_\_

**DATE:** \_\_\_\_\_

Asbestos-Containing Materials/Asbestos-Containing Construction Materials ("ACM") are often found in buildings constructed prior to the late 1970's, and were commonly used, for example, as spray-applied fireproofing on structural steel beams, in some floor tiles, and in canvas-encased pipe and elbow insulation.

Work that may involve the removal or physical disturbance of ACM and Presumed ACM, which may cause the release of asbestos fibers into the air, must be done by a licensed asbestos abatement contractor or other trained personnel with the proper equipment, and under no circumstances by any other employee of Crafton Hills College (CHC) or its contractors, subcontractors, agents or unauthorized person. Presumed ACM refers to any suspect asbestos-containing material that has not been sampled and proven otherwise.

So long as ACM remains intact, the asbestos does not pose a health hazard. Therefore, if you notice any ACM that is broken or crumbling, please avoid contact and notify the designated CHC representative immediately, since studies show that inhalation of airborne asbestos fibers could be hazardous to one's health.

Please be advised that no person is permitted to disturb any suspect ACM without prior testing to determine whether or not this material is asbestos-containing. Since these buildings contain ACM, it is your responsibility (i.e., as required by applicable federal, state and local laws and regulations) to inform any worker employed by your firm that will work in these buildings and provide required asbestos awareness training. It is also your responsibility to inform your subcontractors of the presence and locations of ACM and Presumed ACM in these buildings and of their obligations.

Based on the survey reports received by SBCCD and Crafton Hills College (CHC), known ACM have been identified in the locations in CHC as listed below. Only select areas of CHC were surveyed for asbestos-containing materials. As such, additional ACMs may be present in CHC, and should be presumed to be asbestos-containing until sampled and proven otherwise, even though there are no records to indicate the confirmed presence of ACM in areas other than those identified and listed below. You may also contact the CHC representative designated below, for more detailed information.

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Telephone)

\_\_\_\_\_  
(Title)



<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 3 Employee/Vendor/Contractor Notification Page 1
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**CRAFTON HILLS COLLEGE**  
**11711 SAND CANYON ROAD, YUCAIPA, CA 92399**

**LIMITED ASBESTOS SURVEY REPORT(S)**

**ASBESTOS-CONTAINING MATERIAL SUMMARY**

Material Types and General Locations of known Asbestos-Containing Materials (ACM)  
 As of September 2013

BUILDING	DESCRIPTION	LOCATION
Building 1 (Lab/Admin-LADM)	Drywall w/ Tape & Joint Compound	Throughout
	Vinyl Floor Tile w/ Mastic (Unknown Size)	Room 220
	Pebble Pattern Vinyl Sheet Flooring	Throughout
	12"x12" Light Green Vinyl Floor Tile w/ Mastic	Room 101, 107, 201, 203, & 209
	Black/Silver/Grey Penetration Mastic	Roof B, F, & G
	12"x12" Tan w/ Specks Vinyl Floor Tile w/ Mastic	Room 101, 107, 201, 203, & 209
	Yellow Floor Mastic	2 <sup>nd</sup> Floor Men's Room Entrance
	Yellow Carpet Mastic	Throughout
	White/Grey/Green Rock	Room 4B (in boxes)
Building 3 (College Center/ Student Center/Cafeteria-SCC)	4" Blue Base Cove w/ Mastic	Room 201 & 202
	12"x12" Beige w/ Brown Floor Tile w/ Mastic	Room 101, CSO Office & Storage, Room 103 Toilet, 104, Mezzanine, & 201
	12"x12" White w/ Brown Floor Tile w/ Mastic	Room 102, 102C, & 103
	12"x12" Brown w/ White Floor Tile w/ Mastic	Room 105
	4" Light Brown Base Cove w/ Mastic	Room 101, 105, CSO Office, & Mezzanine
	Drywall Wall w/ Tape & Joint Compound	Throughout
	1'x1' Acoustic Ceiling Tile w/ Mastic	Room 101
	Under Sink Mastic Coating	Room 202
	Black Penetration Mastic	Rooftop B & E

**Asbestos Operations and Maintenance Program**

Crafton Hills College  
 11711 Sand Canyon Road  
 Yucaipa, CA 92399  
 September 2014

Checklist 3  
 Employee/Vendor/Contractor Notification  
 Page 2

BUILDING	DESCRIPTION	LOCATION
Building 4 (Student Services A-SSA)	12"x12" Tan w/ Specks Vinyl Floor Tile w/ Mastic	Room 305
	12"x12" Brown w/ White Vinyl Floor Tile w/ Mastic	Elevator Car
	12"x12" Tan w/ Brown Specks Vinyl Floor Tile w/ Mastic	Men's Room Entrance 3 <sup>rd</sup> Floor
	12"x12" Green w/ White Vinyl Floor Tile w/ Mastic	Room 213A
	Drywall Wall w/ Tape & Joint Compound	Throughout
	Carpet Mastic	Throughout
	Penetration Mastic	Roof A
	Grey Rolled Roofing	Roof C
Building 5 (Classrooms-CL)	4" Brown Base Cove w/ Mastic	Rooms 106, 106A &B, 111, 111A&B, 215, 218, & 218A&B
	Yellow Carpet Mastic	Throughout
	Drywall Walls w/ Tape & Joint Compound	Throughout
	Drywall Ceilings w/ Tape & Joint Compound	Throughout on Ducting
Building 6 (Occupational Education 1-OE-1)	12"x12" Light Green Floor Tile w/ Mastic	Throughout Under All Carpet
	12"x12" White w/ Brown Floor Tile w/ Mastic	Room 123
	Sand Plaster Walls (ACCM)	Throughout
	Under Sink Mastic Coating	Rooms 111, 117, 118, & 135
	Exterior Stucco (ACCM)	At Entrance
	Black Floor Mastic	Room 115 Under Carpet
Building 8 (Performing Arts-PAC)	Drywall Walls w/ Tape & Joint Compound	Throughout
	Drywall Ceilings w/ Tape & Joint Compound	Room 113, 114, 115-2, 202, 206, & 223
	1'x1' Ceiling Tile Splined & Textured	Room 201, 304-307
	Rough Texture Tectum Wall	Auditorium, Room 112, 304-307, 315, & 316
	12"x12" Tan w/ Specks Vinyl Floor tile w/ Mastic	Rooms 112 – 114, 201, & 314
	1'x1' Fissured Ceiling Tile w/ Mastic	Room 112
	Mastic Behind Mirrors	Throughout
	Black/Silver Penetration Mastic	Roof A

**Asbestos Operations and Maintenance Program**

Crafton Hills College  
 11711 Sand Canyon Road  
 Yucaipa, CA 92399  
 September 2014

Checklist 3  
 Employee/Vendor/Contractor Notification  
 Page 3

BUILDING	DESCRIPTION	LOCATION
Building 9 (Maintenance)	4" Black Base Cove w/ Mastic	Throughout Offices
	4" Grey/Tan Base Cove w/ Mastic	Restrooms
	12"x12" White w/ Black Specks Floor Tile w/ Mastic	Office # 2
	Texture Drywall Wall w/ Tape & Joint Compound	Throughout
	12"x12" Tan w/ Brown Floor Tile w/ Mastic	Operations Office & Restrooms
	White Caulking	Roof top
	Grey Caulking	Roof top
Building 10 (Gym-G)	Plaster Walls	Throughout
	Plaster Ceilings	Throughout
	Exterior Stucco (ACCM)	Exterior Entrances to Building
	Floor Mastic	Room 109
	1'x1' Fissured Ceiling Tile w/ Mastic	Room 104, 106, 107, 109, 111-115, & First Aid Office
	12"x12" White w/ Grey Floor Tile & Mastic	Room 107, 111-115, & Vestibule # 3
	Under Sink Mastic Coating	Room 114
	4" Brown Base Cove & Mastic	Room 106, Basement Corridors, & Basement Rooms
	Black Window Putty	Exterior Windows
	12"x12" Brown w/ Black Streak Floor Tile & Mastic	On Bleachers in Gym
	Black Penetration Mastic	Roof # 1
Building 12 (Chemistry & Health Science-CHS)	2'x4' White Fissured Drop Ceiling Tile	Throughout
	Tan Pebble Pattern Vinyl Sheet Flooring	Throughout
	Black & Grey Penetration Mastic	Roof top A
Building 13 (Child Development # 1-CDC)	Black & Grey Penetration Mastic	Roof A, B, C, D, E, & F
	Exterior Stucco (ACCM)	Walkway From Building 13 to 14
Building 14 (Child Development # 2-CDC)	Black & Grey Penetration Mastic	Roof A & B

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 3 Employee/Vendor/Contractor Notification Page 4
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BUILDING	DESCRIPTION	LOCATION
Building 15 (Child Development # 3-CDC)	None	N/A
Building 16 (Student Services B-SSB)	None	N/A
Building 17 (Bookstore-BK)	Black & Grey Penetration Mastic	Bookstore Roof
Building 18 (Bookstore Classrooms-BC)	Black & Grey Penetration Mastic	Roof

**SAN BERNARDINO COMMUNITY COLLEGE DISTRICT – CRAFTON HILLS COLLEGE****ASBESTOS NOTIFICATION TO EMPLOYEES****(a) Presence of asbestos-containing materials/asbestos-containing construction materials (ACMs/ACCMs):**

1. Disclosure of the presence of ACMs/ACCMs is provided to Employees.
2. Prior to 1979, asbestos was used extensively throughout the United States in a wide variety of buildings and building products such as insulation on piping and ductwork, wall and ceiling materials (e.g., sheetrock and plaster), surfacing materials on walls (e.g., textures) and ceilings (e.g., "popcorn"), flooring materials (e.g., tiles/vinyl sheet flooring and mastics and glues), roofing materials, and in structural support materials (e.g., fireproofing).

At Crafton Hills College (CHC) located at 11711 Sand Canyon Road, Yucaipa, CA, asbestos is known to be present in the following, but not limited to:

- Vinyl Floor Tile and Associated Mastic
- Exterior Stucco
- Pipe Insulation
- Roof Penetration Mastic
- Sand Plaster Walls
- Drywall/Joint Compound

Refer to Table 1.0 – Asbestos-Containing Materials Summary for a complete list of known ACMs.

Only select areas of CHC were surveyed for asbestos-containing materials. As such, additional ACMs may be present in CHC, and should be presumed to be asbestos-containing until sampled and proven otherwise, even though there are no records to indicate the confirmed presence of ACM in areas other than those identified above.

Asbestos may be present in other portions of the buildings in CHC as well. While the mere presence of asbestos in a building is not generally regarded as hazardous to persons and animals, ACMs/ACCMs can become hazardous to persons and animals if asbestos fibers become airborne and are inhaled.

Accordingly, any materials which contain or are suspected to contain ACMs/ACCMs should not be modified, altered or disturbed in any way. Moving, drilling, cutting, sanding, abrading, or otherwise disturbing such materials (such as during remodeling, renovation or demolition), pose a health risk and should not be attempted by untrained or unlicensed personnel. These activities should only be done in accordance with all applicable health and safety standards, laws, rules, regulations and requirements. Only professionals licensed and qualified to handle, remove, abate and dispose of ACMs/ACCMs in

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 3 Employee/Vendor/Contractor Notification Page 2
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accordance with all applicable requirements should handle such materials. Employees are advised to notify the designated CHC representative immediately for guidance in determining the appropriate methods for maintenance, handling, removal, or disposal of known or suspect ACMs/ACCMs.

**(b) List of records and reports available to Employees:**

Employees may contact the designated CHC representative to view asbestos survey reports and bulk sampling data, as well as any asbestos abatement documentation and air monitoring results performed during the course of asbestos abatement work. Some of the reports, bulk sampling results, and test results are as follows:

- Campus Modernization Hazardous Materials Report, Building 1 (LADM), prepared by Winzler & Kelly Consulting Engineers, dated September 25, 2005;
- Campus Modernization Hazardous Materials Report, Building 3 (College Center), prepared by Winzler & Kelly Consulting Engineers, dated September 25, 2005;
- Asbestos-Related Air Sampling Report, Fire Academy Building, prepared by Winzler & Kelly Consulting Engineers, dated April 19, 2011.

Additional asbestos survey and close-out reports can be found on file in the LADM Building #10, Room #165 or the SBCCD, Administrative Offices, Environmental Health & Safety Office, located at 114 S. Del Rosa Avenue, San Bernardino, California 92408.

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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 1 – Lab/Admin (LADM) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACCM Drywall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACCM Drywall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Vinyl Floor Tile w/ Mastic (Unknown Size) are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Vinyl Floor Tile w/ Mastic (Unknown Size) are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Pebble Pattern Vinyl Sheet Flooring are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Pebble Pattern Vinyl Sheet Flooring are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Light Green Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Light Green Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Tan w/ Specks Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____

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Items	Yes	No
ACM 12"x12" Tan w/ Specks Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Black/Silver/Grey Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Yellow Floor Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Yellow Floor Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Yellow Carpet Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Yellow Carpet Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM White/Grey/Green Rock are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM White/Grey/Green Rock are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Building is free of debris potentially associated with ACM?	—	—



<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 3
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If any responses above were NO, please explain below.

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Facility Asbestos Manager

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Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 2 – Library (LRC) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Drywall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Drywall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" White w/ Brown Vinyl Floor Tile are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" White w/ Brown Vinyl Floor Tile are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Tan w/ White Streaks Vinyl Floor Tile are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Tan w/ White Streaks Vinyl Floor Tile are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Black Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Carpet Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Carpet Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM Tan Coated Wall Paper are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Tan Coated Wall Paper are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Pink Floor Sheeting w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Pink Floor Sheeting w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM 4" Black Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 4" Black Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Building is free of debris potentially associated with ACM?	—	—

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If any responses above were NO, please explain below.

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Facility Asbestos Manager

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Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 3 – College Center/Student Center/Cafeteria (SCC) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM 4" Blue Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 4" Blue Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Beige w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Beige w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" White w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" White w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Black Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Brown w/ White Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Brown w/ White Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM 4" Light Brown Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 4" Light Brown Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM 1'x1' Acoustic Ceiling Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 1'x1' Acoustic Ceiling Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Under Sink Mastic Coating are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Under Sink Mastic Coating are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Building is free of debris potentially associated with ACM?	—	—

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 3
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If any responses above were NO, please explain below.

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Facility Asbestos Manager

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Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 4 – Student Services A (SSA) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM 12"x12" Tan w/ Specks Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Tan w/ Specks Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Brown w/ White Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Brown w/ White Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Grey Rolled Roofing are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Tan w/ Brown Specks Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Tan w/ Brown Specks Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Green w/ White Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____



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Items	Yes	No
ACM 12"x12" Green w/ White Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Carpet Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Carpet Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Building is free of debris potentially associated with ACM?	—	—

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 3
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If any responses above were NO, please explain below.

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Facility Asbestos Manager

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Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 5 – Classrooms (CL) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM 4" Brown Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 4" Brown Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Yellow Carpet Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Yellow Carpet Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Drywall Ceilings w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Drywall Ceilings w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 2
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Items	Yes	No
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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\_\_\_\_\_  
 Facility Asbestos Manager

\_\_\_\_\_  
 Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 6 – Occupation Education 1 (OE-1) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM 12"x12" Light Green Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Light Green Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" White w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" White w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Sand Plaster Walls (ACCM) are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Sand Plaster Walls (ACCM) are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Under Sink Mastic Coating are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Under Sink Mastic Coating are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Exterior Stucco (ACCM) are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM Exterior Stucco (ACCM) are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Black Floor Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Black Floor Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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\_\_\_\_\_  
Facility Asbestos Manager

\_\_\_\_\_  
Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 8 – Performing Arts (PAC) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Drywall Walls w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Drywall Walls w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Drywall Ceilings w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Drywall Ceilings w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 1'x1' Ceiling Tile Splined & Textured are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 1'x1' Ceiling Tile Splined & Textured are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Rough Texture Tectum Wall are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Rough Texture Tectum Wall are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Tan w/ Specks Vinyl Floor tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM 12"x12" Tan w/ Specks Vinyl Floor tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	___	___
ACM 1'x1' Fissured Ceiling Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	___	___
ACM 1'x1' Fissured Ceiling Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	___	___
ACM Mastic Behind Mirrors are in good condition (free of delamination or other indications of damage) in public areas?	___	___
ACM Mastic Behind Mirrors are in good condition (free of delamination or other indications of damage) in non-public areas?	___	___
ACM Black/Silver Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	___	___
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	___	___
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	___	___
Building is free of debris potentially associated with ACM?	___	___



<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 3
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If any responses above were NO, please explain below.

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Facility Asbestos Manager

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Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 9 – Maintenance (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM 4" Black Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 4" Black Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 4" Grey/Tan Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 4" Grey/Tan Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" White w/ Black Specks Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" White w/ Black Specks Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Texture Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Texture Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Tan w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM 12"x12" Tan w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM White Caulking are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Grey Caulking are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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\_\_\_\_\_  
 Facility Asbestos Manager

\_\_\_\_\_  
 Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 10 – Gym (G) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Plaster Walls are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Plaster Walls are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Plaster Ceilings are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Plaster Ceilings are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Exterior Stucco (ACCM) are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Exterior Stucco (ACCM) are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Floor Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Floor Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 1'x1' Fissured Ceiling Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM 1'x1' Fissured Ceiling Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM 12"x12" White w/ Grey Floor Tile & Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 12"x12" White w/ Grey Floor Tile & Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Under Sink Mastic Coating are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Under Sink Mastic Coating are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM 4" Brown Base Cove & Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 4" Brown Base Cove & Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Black Window Putty are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Black Window Putty are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM 12"x12" Brown w/ Black Streak Floor Tile & Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 12"x12" Brown w/ Black Streak Floor Tile & Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 3
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Items	Yes	No
ACM Black Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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\_\_\_\_\_  
 Facility Asbestos Manager

\_\_\_\_\_  
 Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 12 – Chemistry & Health Science (CHS) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM 2'x4' White Fissured Drop Ceiling Tile are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 2'x4' White Fissured Drop Ceiling Tile are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Tan Pebble Pattern Vinyl Sheet Flooring are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Tan Pebble Pattern Vinyl Sheet Flooring are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Black & Grey Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 2
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If any responses above were NO, please explain below.

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Facility Asbestos Manager

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Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST



<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 13 – Child Development #1 (CDC) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Exterior Stucco (ACCM) are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Exterior Stucco (ACCM) are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Black & Grey Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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\_\_\_\_\_  
Facility Asbestos Manager

\_\_\_\_\_  
Date

**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 14 – Child Development #2 (CDC) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Black & Grey Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Building is free of debris potentially associated with ACM?	—	—

If any responses above were NO, please explain below.

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\_\_\_\_\_  
 Facility Asbestos Manager

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 Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 17 – Bookstore (BK) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Black & Grey Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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Facility Asbestos Manager

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Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** Building 18 – Bookstore Classrooms (BC) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Black & Grey Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Building is free of debris potentially associated with ACM?	—	—

If any responses above were NO, please explain below.

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\_\_\_\_\_  
Facility Asbestos Manager

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Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 4 Periodic Surveillance, Annual Page 1
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**CHECKLIST 4**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**TRAINED M&O/GROUNDS PERSONNEL**

**Building:** \_\_\_\_\_ (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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\_\_\_\_\_  
Facility Asbestos Manager

\_\_\_\_\_  
Date

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**THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE ANNUAL FACILITY WALKTHROUGH INSPECTION.**

END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 1 – Lab/Admin (LADM) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACCM Drywall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACCM Drywall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Vinyl Floor Tile w/ Mastic (Unknown Size) are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Vinyl Floor Tile w/ Mastic (Unknown Size) are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Pebble Pattern Vinyl Sheet Flooring are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Pebble Pattern Vinyl Sheet Flooring are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Light Green Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Light Green Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Tan w/ Specks Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM 12"x12" Tan w/ Specks Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Black/Silver/Grey Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Yellow Floor Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Yellow Floor Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Yellow Carpet Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Yellow Carpet Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM White/Grey/Green Rock are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM White/Grey/Green Rock are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Building is free of debris potentially associated with ACM?	—	—

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 3
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If any responses above were NO, please explain below.

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\_\_\_\_\_  
 Designated Asbestos Consultant

\_\_\_\_\_  
 Date

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 END OF CHECKLIST



<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5  
PERIODIC (ANNUAL) SURVEILLANCE  
DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 3 – College Center/Student Center/Cafeteria (SCC) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM 4" Blue Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 4" Blue Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM 12"x12" Beige w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 12"x12" Beige w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM 12"x12" White w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 12"x12" White w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Black Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM 12"x12" Brown w/ White Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 12"x12" Brown w/ White Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM 4" Light Brown Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 4" Light Brown Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM 1'x1' Acoustic Ceiling Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 1'x1' Acoustic Ceiling Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Under Sink Mastic Coating are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Under Sink Mastic Coating are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Building is free of debris potentially associated with ACM?	—	—

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 3
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If any responses above were NO, please explain below.

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\_\_\_\_\_  
 Designated Asbestos Consultant

\_\_\_\_\_  
 Date

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 END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5  
PERIODIC (ANNUAL) SURVEILLANCE  
DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 4 – Student Services A (SSA) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM 12"x12" Tan w/ Specks Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Tan w/ Specks Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Brown w/ White Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Brown w/ White Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Grey Rolled Roofing are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Tan w/ Brown Specks Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Tan w/ Brown Specks Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Green w/ White Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM 12"x12" Green w/ White Vinyl Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Carpet Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Carpet Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 3
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If any responses above were NO, please explain below.

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\_\_\_\_\_  
 Designated Asbestos Consultant

\_\_\_\_\_  
 Date

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 END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 5 – Classrooms (CL) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM 4" Brown Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 4" Brown Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Yellow Carpet Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Yellow Carpet Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Drywall Ceilings w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Drywall Ceilings w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 2
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Items	Yes	No
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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\_\_\_\_\_  
Designated Asbestos Consultant

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Date

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END OF CHECKLIST



<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 6 – Occupation Education 1 (OE-1) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM 12"x12" Light Green Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" Light Green Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" White w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" White w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Sand Plaster Walls (ACCM) are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Sand Plaster Walls (ACCM) are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Under Sink Mastic Coating are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Under Sink Mastic Coating are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Exterior Stucco (ACCM) are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM Exterior Stucco (ACCM) are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Black Floor Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Black Floor Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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\_\_\_\_\_  
Designated Asbestos Consultant

\_\_\_\_\_  
Date

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END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5  
PERIODIC (ANNUAL) SURVEILLANCE  
DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 8 – Performing Arts (PAC) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Drywall Walls w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Drywall Walls w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Drywall Ceilings w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Drywall Ceilings w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 1'x1' Ceiling Tile Splined & Textured are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 1'x1' Ceiling Tile Splined & Textured are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Rough Texture Tectum Wall are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Rough Texture Tectum Wall are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Tan w/ Specks Vinyl Floor tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM 12"x12" Tan w/ Specks Vinyl Floor tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	___	___
ACM 1'x1' Fissured Ceiling Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	___	___
ACM 1'x1' Fissured Ceiling Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	___	___
ACM Mastic Behind Mirrors are in good condition (free of delamination or other indications of damage) in public areas?	___	___
ACM Mastic Behind Mirrors are in good condition (free of delamination or other indications of damage) in non-public areas?	___	___
ACM Black/Silver Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	___	___
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	___	___
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	___	___
Building is free of debris potentially associated with ACM?	___	___

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 3
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If any responses above were NO, please explain below.

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Designated Asbestos Consultant

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Date

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END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 9 – Maintenance (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM 4" Black Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 4" Black Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 4" Grey/Tan Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 4" Grey/Tan Base Cove w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" White w/ Black Specks Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM 12"x12" White w/ Black Specks Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Texture Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Texture Drywall Wall w/ Tape & Joint Compound are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 12"x12" Tan w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM 12"x12" Tan w/ Brown Floor Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM White Caulking are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Grey Caulking are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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\_\_\_\_\_  
Designated Asbestos Consultant

\_\_\_\_\_  
Date

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END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 10 – Gym (G) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Plaster Walls are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Plaster Walls are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Plaster Ceilings are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Plaster Ceilings are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Exterior Stucco (ACCM) are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Exterior Stucco (ACCM) are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM Floor Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
ACM Floor Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
ACM 1'x1' Fissured Ceiling Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____



<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 2
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Items	Yes	No
ACM 1'x1' Fissured Ceiling Tile w/ Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM 12"x12" White w/ Grey Floor Tile & Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 12"x12" White w/ Grey Floor Tile & Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Under Sink Mastic Coating are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Under Sink Mastic Coating are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM 4" Brown Base Cove & Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 4" Brown Base Cove & Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Black Window Putty are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Black Window Putty are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM 12"x12" Brown w/ Black Streak Floor Tile & Mastic are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 12"x12" Brown w/ Black Streak Floor Tile & Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 3
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Items	Yes	No
ACM Black Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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\_\_\_\_\_  
Designated Asbestos Consultant

\_\_\_\_\_  
Date

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END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 12 – Chemistry & Health Science (CHS) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM 2'x4' White Fissured Drop Ceiling Tile are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM 2'x4' White Fissured Drop Ceiling Tile are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Tan Pebble Pattern Vinyl Sheet Flooring are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Tan Pebble Pattern Vinyl Sheet Flooring are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Black & Grey Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Building is free of debris potentially associated with ACM?	—	—

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 2
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If any responses above were NO, please explain below.

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\_\_\_\_\_  
 Designated Asbestos Consultant

\_\_\_\_\_  
 Date

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 END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 13 – Child Development #1 (CDC) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Exterior Stucco (ACCM) are in good condition (free of delamination or other indications of damage) in public areas?	—	—
ACM Exterior Stucco (ACCM) are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
ACM Black & Grey Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Building is free of debris potentially associated with ACM?	—	—

If any responses above were NO, please explain below.

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\_\_\_\_\_  
 Designated Asbestos Consultant

\_\_\_\_\_  
 Date

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 END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 14 – Child Development #2 (CDC) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Black & Grey Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Building is free of debris potentially associated with ACM?	—	—

If any responses above were NO, please explain below.

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\_\_\_\_\_  
Designated Asbestos Consultant

\_\_\_\_\_  
Date

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END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 17 – Bookstore (BK) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Black & Grey Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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\_\_\_\_\_  
Designated Asbestos Consultant

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Date

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END OF CHECKLIST

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**DESIGNATED ASBESTOS CONSULTANT**

**Building:** Building 18 – Bookstore Classrooms (BC) (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
ACM Black & Grey Penetration Mastic are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	—	—
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	—	—
Building is free of debris potentially associated with ACM?	—	—

If any responses above were NO, please explain below.

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\_\_\_\_\_  
Designated Asbestos Consultant

\_\_\_\_\_  
Date

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END OF CHECKLIST



<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 5 Periodic Surveillance, Annual Page 1
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**CHECKLIST 5**  
**PERIODIC (ANNUAL) SURVEILLANCE**  
**DESIGNATED ASBESTOS CONSULTANT**

**Building:** \_\_\_\_\_ (complete a separate form for each building)

**Date:** \_\_\_\_\_

Items	Yes	No
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in public areas?	_____	_____
Other Presumed ACM are in good condition (free of delamination or other indications of damage) in non-public areas?	_____	_____
Building is free of debris potentially associated with ACM?	_____	_____

If any responses above were NO, please explain below.

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\_\_\_\_\_  
Designated Asbestos Consultant

\_\_\_\_\_  
Date

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END OF CHECKLIST

**Asbestos Operations and Maintenance Program**

Crafton Hills College  
11711 Sand Canyon Road  
Yucaipa, CA 92399  
September 2014

Checklist 6  
ACM Repair and Disturbance  
Designated Hazardous Materials  
Contractor  
Page 1

**CHECKLIST 6  
ACM REPAIR AND DISTURBANCE,  
DESIGNATED HAZARDOUS MATERIALS CONTRACTOR**

**Building:** \_\_\_\_\_

**Work Area:** \_\_\_\_\_ (complete a separate form for each work area)

**Date:** \_\_\_\_\_

**Description  
of ACM:** \_\_\_\_\_

**Reason for  
repair or  
disturbance:** \_\_\_\_\_

**NOTE:** **ACM REPAIR AND DISTURBANCE ACTIVITIES ARE PROHIBITED  
BY SBCCD EMPLOYEES. ALL WORK MUST BE HANDLED BY THE  
DESIGNATED HAZARDOUS MATERIALS CONTRACTOR W/  
OVERSIGHT BY THE DESIGNATED ASBESTOS CONSULTANT.**

The designated Asbestos Consultant collected and provided the following document during oversight activities:

- ☐ Designated Hazardous Materials Contractor licenses to conduct asbestos abatement and haul hazardous waste.
- ☐ Documentation of training, medical surveillance, and respirator fit-testing for the employees of the designated Hazardous Materials Contractor.
- ☐ Copies of Notification to South Coast Air Quality Management District and California Occupational Safety and Health and Administration, if applicable.
- ☐ Field Observation Logs and Air Monitoring/Clearance Data.
- ☐ Copies of the Hazardous Waste Manifest.
- ☐ The completed waste shipment record must be received by SBCCD from the disposal site within 35 days of the date the waste was accepted by the initial waste hauler. If it is not

<b>Asbestos Operations and Maintenance Program</b> Crafton Hills College 11711 Sand Canyon Road Yucaipa, CA 92399 September 2014	Checklist 6 ACM Repair and Disturbance Designated Hazardous Materials Contractor Page 2
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received within this time frame, the Facility Asbestos Manager must contact the transporter and/or the operator of the landfill to determine the status of the waste shipment record. If the completed waste shipment record is not received within 45 days, a report must be submitted to the local USEPA Regional Office responsible for administering NESHAPs regulations.

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Facility Asbestos Manager

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Date

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END OF CHECKLIST



**CITADEL**  
ENVIRONMENTAL SERVICES, INC.

## **Appendix C**

### **Class IV Activities: Instructions for Housekeeping**

## **APPENDIX C: CLASS IV ACTIVITIES**

### **1.0 Special Work Practices for Maintenance Activities**

Before conducting any maintenance or repair work which will damage or disturb ACM, the Facility Asbestos Manager or his/her designee shall inspect the area to determine appropriate action(s). Whenever the potential for release of asbestos fibers from ACM exists (for example, sanding floor tile, repairing a pipe leak, accessing above or inside wall cavities and/or ceiling spaces for the purposes of installing conduit, or conducting building maintenance or other activities as defined herein), the Facility Asbestos Manager will utilize the services of the designated Hazardous Materials Contractor, to perform the work procedures in the aforementioned sections.

Maintenance activities can be divided into three categories with regard to their potential for disturbing ACM:

#### Contact with ACM and Presumed ACM Unlikely - In-house Employees

Maintenance activities or repairs which can be performed **without** contacting or disturbing the ACM or *Presumed* ACM require little more than normal care and good workmanship and can be performed by in-house personnel. These include, but are not limited to:

- Routine cleaning activities {e.g., mopping and buffing of floors, painting of walls and ceilings with minimal preparation (no sanding or grinding of finishes)}.
- Plumbing, Electrical, HVAC and other utility work in mechanical rooms, plenums and vertical pipe chases where Presumed asbestos-containing Thermal Systems Pipe Insulation have been removed or are not present.
- Roofing repairs where asbestos-containing Roof Penetration Mastics or Presumed asbestos-containing Roof Field Membrane have been removed or are not present.

#### Contact with ACM Not Likely but Possible - In-house Employees

Maintenance activities or repairs that may have the potential to cause accidental disturbance of ACM or *Presumed* ACM require some precautions. This work may be performed by in-house employees only if the proper precautions are instituted to minimize the potential ACM disturbance.

Examples of such activities include, but are not limited to:

- Maintenance and repair of utilities or equipment not insulated with ACM or *Presumed* ACM in Mechanical Rooms where Presumed asbestos-containing Thermal Systems Pipe Insulation, or other ACM or *Presumed* ACM is present.

The Facility Asbestos Manager should review any scope of work and work area to determine whether the designated Asbestos Consultant should be contacted to discuss and/or determine cleanup, repair, or removal requirements prior to allowing maintenance activities to commence.

Contact with ACM Likely or Intended - Only by Designated Hazardous Materials Contractor

Disturbance activities are defined as the disturbance of any ACM or *Presumed* ACM for the purpose of routine maintenance, repairs, demolition or renovation. This activity will be performed by Designated Vendors or the hazardous materials contractor. Personal protective equipment, including respirators and full-body coveralls, and personal air monitoring are required when ACM will be disturbed.

Maintenance activities or repairs that involve intentional small scale manipulation or disturbance of ACM or *Presumed* ACM require special work practices, as outlined in this O&M manual. ACM or *Presumed* ACM must be removed by a prequalified outside designated Hazardous Materials Contractor before in-house personnel perform their duties. Personal protective equipment, including respirators and full-body coveralls, and personal air monitoring are required when ACM will be disturbed.

Typical activities include but are not limited to:

- Removing Presumed asbestos-containing Thermal Systems Pipe Insulation or HVAC duct seam mastic/tape to repair a pipe leak, replace a valve, or replace components;
- Removing small amounts "Spot Abatement" of asbestos-containing drywall/joint compound or plaster walls to install utilities (e.g., conduits, fire detection/suppression systems, lighting, etc.); and
- Removing or repairing small amounts of asbestos-containing Roof Penetration Mastics.

Prior to performing any maintenance activities that will disturb ACM or *Presumed* ACM, the Facility Asbestos Manager shall contact the designated Asbestos Consultant to provide area air monitoring before, during, and after the ACM or *Presumed* ACM disturbance, if necessary.

**NOTE: Under no circumstances will any in-house CHC employees perform this type of small scale work or any other abatement work. Failure to adhere to this policy will be subject to CHC disciplinary actions, up to and including discharge.**

## 2.0 Maintenance Work Practices

Maintenance personnel may perform various general maintenance activities throughout the facility. **The disturbance and/or removal of presumed or confirmed ACM by CHC employees is prohibited.** Some examples of maintenance activities performed in specific locations which may potentially impact presumed or confirmed ACM are listed below.

### **Examples of Maintenance Activities Which Potentially Impact ACM**

Wall/Ceiling Repair and Maintenance

Maintaining Plumbing

Maintaining HVAC

Roofing Repairs and Maintenance

### **Type of Material Being Impacted**

Drywall/Joint Compound, Sand Plaster Walls, Ceiling Tile & Mastic

Presumed asbestos-containing Thermal Systems Pipe Insulation

Presumed asbestos-containing HVAC duct seam mastic/tape

Roof Penetration Mastics, Rolled Roofing

### **Examples of Prohibited Activities Which Impact ACM**

Removal of Walls/Ceilings

Removal of Pipes

Removal of HVAC ducts

Dry Buffing Floors

### **Type of Material Being Impacted**

Drywall/Joint Compound, Floor Tile & Associated Mastics, Base Coes & Associated Mastics, Carpet Mastics, Exterior Stucco, Presumed Fire Door Core Insulation

Presumed asbestos-containing Thermal Systems Pipe Insulation

Presumed asbestos-containing HVAC duct seam mastic/tape

Floor Tile & Associated Mastics

**3.0 Asbestos Floor Coverings/Presumed Asbestos Floor Coverings**

Asbestos floor coverings and Presumed asbestos floor coverings shall not be dry-stripped, dry-leveled, or sanded. Stripping shall only be performed wet, and only as necessary for proper maintenance. The following procedure shall be followed:

- Use a water mop to wet down a small area in front of the floor machine with a solution of all-purpose cleaner or wax stripper;
- Leave the cleaning solution on the floor for less than 1 minute;
- Use a putty knife to remove gum or other material, but be careful not to damage the floor covering. Avoid harsh scrubbing which may damage the flooring;
- For buffing, use only fiber or polish brush. Low RPM buffing and stripping machines (less than 300 RPM) may only be used on vinyl asbestos-containing floor coverings. Buffing and stripping must be conducted using wet methods.





**CITADEL**  
ENVIRONMENTAL SERVICES, INC.

## **Appendix D**

# **Background Information**

## **APPENDIX D: BACKGROUND INFORMATION**

### **1.0 HISTORY OF ASBESTOS USES**

#### **1.1 OCCURRENCE AND PROPERTIES**

A naturally occurring mineral, asbestos is a fibrous hydrated silicate which possesses the unique characteristics of high tensile strength, flexibility, and chemical, electrical, and thermal resistance, and yet, is relatively inexpensive. As a consequence of these properties, the commercial use of asbestos has been exceedingly widespread and asbestos is found in products ranging from cosmetics to insulation.

The earliest recorded use of asbestos was about 2500 B.C. in Finland where the mineral was used to strengthen clay pots. More currently though, modern industrial exploitation of this silicate dates from the 1880's when it was mined in Canada and the U.S.S.R. The use of asbestos rapidly increased in England and France where the fibers were incorporated into cotton fabrics, thereby producing incombustible fabrics. However, the real growth, especially in the West, has been in the past 40 years, since the Second World War. Asbestos is still used in many products.

There are six asbestos minerals which are used in over 3,000 commercial applications:

**Chrysotile** is a white or greenish-colored hydrated magnesium silicate which is considered the softest of the asbestos types. In addition to use in insulation and fireproofing products, it is spun and woven into asbestos cloths and tapes. Chrysotile is mined primarily in Canada, Africa, and the former U.S.S.R. It is believed by many scientists to be the least toxic of all asbestiform minerals.

**Amosite** is a fibrous, ferrous magnesium silicate which ranges in color from brownish-yellow to white and has excellent properties for use in heat insulation. Amosite is a trade name derived from the initials for Asbestos Mines of South Africa.

**Crocidolite** is a blue sodium iron silicate fiber which can be woven or spun into cloth or tape. It is mined mainly in South Africa and Australia and is believed to be the most toxic of the asbestiform minerals. Its use in the U.S. is very limited.

**Anthophyllite** is white magnesium silicate with various amounts of iron. This fiber has a harsh texture but has excellent resistance to chemicals and heat. Use of this asbestos type is limited in the U.S., but it has been found in decorative and acoustical material.

**Tremolite** is a white to yellow-colored calcium magnesium silicate which has been a major ingredient in industrial and commercial talc.

**Actinolite** is calcium iron magnesium silicate of greenish to white color. Its poor resistance to chemicals and its harsh texture are properties which limit its commercial use. However, it may be found in commercial and industrial talcs.

## 1.2 USES OF ASBESTOS IN BUILDINGS

Table 1 shows typical uses of asbestos in building materials and dates of use. The table is taken from the USEPA Purple Book, *Guidance for Controlling Asbestos-Containing Materials in Buildings* (USEPA 560/5-85-024, June 1985).

**Table 1**  
**Examples of Friable and Nonfriable**  
**Asbestos-Containing Materials Found in Buildings\***

Subdivision	Generic Name	Asbestos(%)	Dates of Use	Binder/Sizing
Surfacing material	sprayed- or troweled-on	1 - 95	1936-1970	sodium, silicate, portland cement, organic binders
Preformed thermal insulating products	batts, blocks, and pipe covering			
	85% magnesia	15	1926-1949	magnesium carbonate
	calcium silicate	6 - 8	1949-1971	calcium silicate
Textiles	cloth <sup>a</sup>	100	1910-present	none
	blankets (fire) <sup>a</sup>	90 - 95	1920-present	cotton/wool
	felts:	80	1920-present	cotton
	blue stripe	80	1920-present	cotton
	red stripe	90	1920-present	cotton
	green stripe	95	1920-present	cotton
	sheets	50 - 95	1920-present	cotton/wool
	cord/rope/yarn <sup>a</sup>	80 - 100	1920-present	cotton/wool
	tubing	80 - 85	1920-present	cotton/wool
	tape/strip	90	1920-present	cotton/wool
	curtain <sup>a</sup>			
	(theater, welding)	60 - 65	1945-present	cotton
Paper products	corrugated			
	high temperature	90	1935-present	sodium silicate
	moderate temperature	35 - 70	1910-present	starch
	indensed	98	1935-present	cotton and organic binder
	millboard	80 - 85	1925-present	starch, line, clay

**Table 1 (continued)**

**Examples of Friable and Nonfriable  
 A Asbestos-Containing Materials Found in Buildings\***

Subdivision	Generic Name	Asbestos(%)	Dates of Use	Binder/Sizing
Roofing felts	smooth surface	10 - 15	1910-present	asphalt
	mineral surface	10 - 15	1910-present	asphalt
	shingles	1	1971-1974	asphalt
	pipeline	10	1920-present	asphalt
Cementitious concrete-like products	extrusion panels:	8	1965-1977	portland cement
	corrugated	20 - 45	1930-present	portland cement
	flat	40 - 50	1930-present	portland cement
	flexible	30 - 50	1930-present	portland cement
	flexible perforated	30 - 50	1930-present	portland cement
	laminated	35 - 50	1930-present	portland cement
	(outer surface)			
	roof tiles	20 - 30	1930-present	portland cement
	clapboard and shingles			
	clapboard	12 - 15	1944-1945	portland cement
	siding shingles	12 - 14	unknown- present	portland cement
Asbestos- containing compounds	roofing shingles	20 - 32	unknown- present	portland cement
	pipe	20 - 15	1935-present	portland cement
	caulking putties	30	1930-present	linseed
	adhesive (cold applied)	5 - 25	1945-present	asphalt
	joint compound		1945-1975	asphalt
	roofing asphalt	5	unknown- present	asphalt
	mastic	5 - 25	1920-present	asphalt
	asphalt tile cement	13 - 25	1959-present	asphalt
	roof putty	10 - 25	unknown- present	asphalt
	plaster-stucco	2 - 10	unknown present	portland cement
	spackles	3 - 5	1930-1975	starch, casein, synthetic resins

**Table 1 (continued)**

**Examples of Friable and Nonfriable  
Asbestos-Containing Materials Found in Buildings\***

Subdivision	Generic Name	Asbestos(%)	Dates of Use	Binder/Sizing
Asbestos-containing compounds	sealants fire/water	50 -55	1935-present	caster oil or polyisobutylene
	cement insulation	20 - 100	1990-1973	clay
	cement finishing	55	1920-1973	clay
	cement magnesia	15	1926-1950	magnesium carbonate
Asbestos ebony products		50	1930-present	portland cement
Flooring tile and sheet goods	vinyl/asbestos tile	21	1950-present	polyvinylchloride
	asphalt/asbestos tile	26-33	1920-present	asphalt
	sheet goods/resilient	30	1950-present	dry oils
Wallcoverings	vinyl wallpaper	6 - 8	unknown-present	-----
Paints and coatings	roof coating	4 - 7	1900-present	asphalt
	air tight	15	1940-present	asphalt

\* The information in this Table is taken, with modification, from: Lory EE, Coin DC, February 1981. Management Procedure for Assessment of Friable Asbestos Insulating Material. Port Hueneme, CA: Civil Engineering Laboratory Naval Construction Battalion Center.

<sup>a</sup> Laboratory aprons, gloves, cord, rope, fire blankets, and curtains may be common in schools.

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### 1.3 EXPOSURE POTENTIAL

Construction materials containing friable asbestos have been used extensively in commercial buildings, especially those built prior to 1975, although it has been found in buildings constructed in the early 1980's. Some nonfriable materials (e.g., floor tile, mastic, and joint compound) have been known to be found in buildings constructed after 1980. The concern about exposure to asbestos in these buildings is based on evidence linking various respiratory diseases with intensive occupational exposure to asbestos, primarily in the shipbuilding, mining, milling, and fabricating industries.

After performing numerous assessments of asbestos fiber levels in air, the USEPA found that average asbestos levels inside buildings are essentially the same as levels outside buildings. USEPA determined that intact, undisturbed, asbestos materials do not pose a health risk and that the mere presence of asbestos in a building does not mean that the health of the building occupants is endangered.

The presence of asbestos in a building does not mean that the occupants are at risk. If ACM remains in good condition and is unlikely to be disturbed, exposure should be negligible. However, when ACM is damaged or disturbed (e.g., by maintenance, repairs, or renovations conducted without proper controls), asbestos fibers can be released.

Friable ACM (those which when dry, can be crumbled, pulverized, or reduced to powder by hand pressure) present a potential source of exposure and must be carefully protected from damage or disturbance. In materials where asbestos fibers are firmly encased in a solid matrix, such as cement asbestos pipe or vinyl asbestos floor tile, there is a reduced possibility of airborne asbestos fiber exposures, except during cutting, demolition, drilling, grinding, and sanding.

Risks associated with low level, nonoccupational exposure have not been well defined. As a result, USEPA has instituted measures for schools to control or eliminate exposures (AHERA regulation).

The AHERA regulation is considered "state-of-the-art" for asbestos control and is often used as a guideline by private industry. This O&M Program generally follows the guidelines issued by the AHERA regulation since they are important in limiting employee risk of asbestos exposure.

### 2.0 POTENTIAL HEALTH CONCERNS AND EFFECTS

The potential adverse health concerns associated with asbestos exposure have been extensively studied for many years. Results of these studies and epidemiological investigations have demonstrated that extensive and intensive inhalation of asbestos fibers may lead to increased risk of developing one or more diseases.

It is important to recognize that most people who have developed a disease as a result of asbestos exposure were asbestos workers (e.g., miners, factory workers, and ship builders). These workers were frequently exposed to very high concentrations of asbestos fibers each working day with little or no protection.

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Ambient levels in buildings today are typically tens of thousands times lower than those measured in the past during mining, milling, and ship building activities (USEPA, 1990). Additionally, today's workers follow specific work practices and wear appropriate personal protection, including respirators, to minimize the risk of exposure.

## 2.1 THE RESPIRATORY SYSTEM

The primary health concerns of asbestos are due to excessive inhalation of high concentrations of asbestos fibers. As air is breathed in, it passes through the mouth and nose into the windpipe or trachea. The trachea splits into two smaller airways called the bronchi. Each bronchus divides into smaller and smaller tubes which lead into air sacks. These air sacks are called alveoli. In these air sacks (alveoli), oxygen passes through the alveoli membrane and is absorbed into small blood vessels. Carbon dioxide and other waste gases pass out of the blood back into the alveoli where they are exhaled.

The lung is comprised of two lobes and sits in the pleural cavity. The lining of the cavity and the membranes around the lung are in contact with each other and are very moist. Like two panes of glass with a drop of water between them, these membranes slide easily across each other, but are very difficult to pull apart. Thus, as the chest cavity expands, the lungs do too, and air rushes in. If these linings (mesothelia) became damaged, one would not be able to inhale properly.

The body has several mechanisms by which it "filters" the air breathed. First, very large particles are removed in the nose and mouth. Smaller particles are caught on the mucous-coated walls of the airways. These airways have a hair-like lining (ciliated cells) which constantly beats upward. The ciliated cells sweep the particles up the airway and into the mouth where particles are either swallowed or expelled. Particles caught in the mucous are swept into the back of the mouth.

Cigarette smoking temporarily paralyzes these ciliated cells, inhibiting one of the body's natural defenses against unwanted dust. As the smoker sleeps, the hair-like cells start working again and carry large amounts of mucous into the back of the mouth. This causes the so-called "smoker's hack" in the morning. After the first cigarette or two, the cleansing mechanism is paralyzed again and the coughing stops, allowing more particles to enter into the deeper airways and cause potential damage. For this reason, smokers who are exposed to asbestos appear to be at greater risk than nonsmokers. Other reasons will also be discussed in Section 3.3 (Lung Cancer).

Even with these natural defenses of the body, some dust particles inevitably reach the tiny air sacks. When this occurs, large cells (called macrophages) attempt to engulf the article and "digest" it. For this reason, they are sometimes called the "lungs' garbage collector". However, because asbestos is a mineral fiber, the macrophages are sometimes unsuccessful. In a secondary defense mechanism, these macrophages deposit a coating on the fibers when they are unsuccessful in digesting them. This occurrence causes a series of chain reactions that ultimately result in the development of scar tissue on the lung. Where the presence of scar tissue disrupts normal respiratory function, asbestosis may develop.

## **2.2 ASBESTOSIS**

Asbestosis is a disease characterized by fibrotic scarring of the lung. It is a restrictive disease that reduces the capacity of the lung and hampers its ability to exchange gases. The earliest symptom is coughing. Asbestosis is prevalent among workers who have been exposed to large doses of asbestos fibers over a long period of time. There is a clear dose-response relationship between asbestos exposure and development of this disease. This means that the greater the asbestos exposure, the more likely asbestosis will develop.

Asbestosis is irreversible and can progress even after exposure has ceased. As the disease progresses, shortness of breath is commonly observed along with changes in lung function, a crackling sound in the lower half of the lung, and clubbed fingers.

Although most people believe a threshold exposure level exists below which the disease does not occur, this threshold level has not yet been determined. All forms of asbestos have demonstrated the ability to cause asbestosis. Like all diseases associated with asbestos exposure, it may take many years for the disease to develop. The typical time of symptoms of diseases to appear from the time of the exposure (latency period) for asbestosis is 15 to 30 years.

## **2.3 LUNG CANCER**

There are many causes of lung cancer, of which asbestos is only one. While employees exposed to industrial concentrations of asbestos in years past have an increased risk of getting lung cancer five times the normal population, their risk is not as great as the cigarette smoker whose risk is ten times the normal. A cigarette smoker who also works with asbestos is 50 times more likely to contract lung cancer than the normal nonsmoking population. The cigarette smoking and asbestos exposure multiply the effects of each other. This is known as a "synergistic effect" (Selikoff Studies, 1979).

Like asbestosis, there exists a long lag time between initial exposure and the occurrence of lung cancer which is typically 20 to 30 years. There appears to be a dose-response relationship between asbestos exposure and lung cancer although no "safe" lower exposure level has yet been determined. Again, these figures relate to past industrial situations where workers wore little or no personal protective equipment.

## **2.4 MESOTHELIOMA**

The asbestos-associated disease of greatest concern in asbestos work is probably mesothelioma; it is also the rarest. It is considered to be a marker disease for asbestos exposure. Mesothelioma is a cancer of the chest or abdominal cavity linings (mesothelium). If it occurs in the chest cavity, it is called pleural mesothelioma. If it occurs in the abdominal cavity, it is called peritoneal mesothelioma. By the time either cancer is diagnosed, it is almost always fatal and effective therapy does not currently exist.



There is no exposure threshold for mesothelioma. The exact mechanism of the disease remains unknown. Smokers do not appear to be at greater risk of getting mesothelioma nor does a dose-response relationship seem to exist between asbestos exposure and mesothelioma. Like other diseases caused by asbestos exposure, mesothelioma often takes 30-40 years after initial exposure to develop.

## 2.5 OTHER DISEASES

Other diseases and adverse health effects have been observed in conjunction with asbestos exposure. Increased incidence of gastrointestinal cancers, including cancers of the esophagus, stomach, colon-rectum, kidney, and pancreas have been observed in populations exposed to asbestos.

Pleural plaque (thickening of the chest cavity lining) has also been observed among people exposed to asbestos. This condition does not have any symptoms nor does it require treatment.

## 3.0 ASBESTOS REGULATIONS

To date, two Federal agencies have been principally responsible for generating asbestos control regulations. These two agencies are the United States Environmental Protection Agency (USEPA) and the Occupational Health & Safety Administration (OSHA). In general, OSHA extends to all private sector employers and employees under Federal jurisdiction. USEPA extends to all public and private work settings under Federal jurisdiction. In addition, individual states and local townships have promulgated their own regulations. The following sections highlight some of these Federal and state requirements.

### 3.1 OSHA ASBESTOS STANDARDS

OSHA has established three sets of regulations that address asbestos exposure:

29 CFR 1926.1101	Construction Industry
29 CFR 1910.1001	General Industry
29 CFR 1910.134	Use of Respirators

The Construction Industry Standard covers employees engaged in demolition and construction and the following related activities likely to involve asbestos exposure: removal, encapsulation, alteration, repair, maintenance, insulation, spill/emergency cleanup, transportation, disposal, and storage of ACM. The General Industry Standard covers all other operations where exposure to asbestos is possible, including occupant exposure to asbestos from buildings that contain ACM. In general, operations and maintenance asbestos-related work is covered by the Construction Standard.

To enforce its standards, OSHA is authorized to conduct workplace inspections. In addition, employees have the right to file an OSHA complaint without fear of punishment from the employer. In turn, employees have the responsibility to follow all safety and health rules. OSHA may not conduct a warrantless inspection without the employer's consent.

OSHA will issue a citation during an inspection if the compliance officer finds a standard is violated. The citation informs the employer and employees of the regulations or standard(s) alleged to have been violated and of the proposed length of time for correction. Monetary penalties may also be imposed.

OSHA published its final rule on asbestos in the Federal Register on August 10, 1994. The 1994 regulations amend the general industry (1910) and construction (1926) standards issued in 1986 and add a shipyard employment standard (1915). Highlights of the general industry and construction standards follow.

- The permissible exposure limit (PEL) has been lowered to 0.1 fiber per cubic centimeter (f/cc) as an 8-hour time-weighted average (TWA) for all asbestos work in all industries, effective October 11, 1994. There is no action level. The excursion limit remains at 1.0 f/cc, averaged over a 30-minute sampling period.
- The general industry standard regulates all activities related to asbestos, except agricultural, that are not covered by the construction and shipyard employment standards. Under this standard, employers must provide awareness training to employees who perform housekeeping activities in areas where asbestos-containing material (ACM) or presumed asbestos-containing material (PACM) are located. They must also institute a training program for all employees who are exposed to airborne asbestos at or above the PEL and/or excursion limit and ensure that they participate in the program. The program should be presented before the initial assignment and at least annually thereafter.
- OSHA has eliminated the term "small-scale short duration projects" in the construction standard. Instead OSHA classifies construction activity according to descending degree of risk. Class I work presents the greatest risk potential and Class IV, the lowest:
  - Class I work involves the removal of thermal system insulation and surfacing asbestos-containing material (ACM) or PACM.
  - Class II work involves removal of any other ACM which is not thermal system insulation or surfacing ACM.
  - Class III work is defined as repair and maintenance activities where employees are likely to disturb ACM.
  - Class IV is defined as maintenance and custodial activities during which employees contact ACM and PACM and activities to clean up waste and debris containing ACM and PACM.
- Under the construction standard, employers must designate a "competent person" (e.g., the Asbestos Consultant or Asbestos Contractor Supervisor) who has the qualifications and authority for ensuring worker health and safety. This person must be capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy to reduce asbestos exposure and have the authority to take prompt corrective action. For Class I

and II work, the competent person must be trained in accordance with EPA's Model Accreditation Plan (40 CFR 763) for project designer or supervisor, or its equivalent and, for Class III and IV work, must have completed a 16-hour Operations and Maintenance (O&M) course developed by EPA (40 CFR 763.92 (a) (2)) or its equivalent.

The competent person must be present on all construction worksites to supervise all asbestos work performed in regulated areas (an area where Class I, II, or III asbestos work is conducted, an adjoining area where debris and waste from the project may accumulate, and an area where airborne asbestos fiber concentrations exceed or have the potential to exceed the PEL), conduct frequent and regular inspections of the job sites, materials, and equipment as part of required safety and health program.

Employers must institute a training program for all workers who install asbestos-containing products and all workers who perform Class I, II, III, and IV work. Medical surveillance is required for all asbestos workers (e.g., outside contractors) who engage in Class I, II, or III work for a combined total of 30 days or more a year or who are exposed above the PEL or the excursion limit of 1.0 f/cc.

Employers must communicate the hazards of asbestos to employees if ACM or PACM is present in their facilities or if their employees will work with ACM.

This final rule was published on October 11, 1994. Some specific provisions should be implemented as soon as possible but no later than the following dates:

<b>Issue</b>	<b>Date</b>
Housekeeping	October 1, 1995
Medical Surveillance	October 1, 1995
Respiratory Protection	October 1, 1995
Hygiene Facilities and Practices for Employees	October 1, 1995
Communication of Hazards	October 1, 1995
Competent Person Designation and Training	October 1, 1995
Engineering and Work Practice Controls	October 1, 1995

### **3.2 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP)**

The USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP, 40 CFR Part 61, Subpart M, as amended November 20, 1990) should be considered during any maintenance, renovation, or demolition activities that might disturb ACM. NESHAP's rules apply to the application, removal, and disposal of ACM. Also included in NESHAP are rules concerning manufacturing, spraying, and fabricating ACM.

Some highlights of the NESHAP requirements follow.

#### **Definitions**

NESHAP, as amended November 20, 1990, divides types of ACM into three categories: regulated asbestos-containing construction materials (RACM), Category I nonfriable ACM, and Category II nonfriable ACM.

#### **RACM**

RACM is friable ACM that contain more than 1 percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

#### **Category I**

Category I nonfriable ACM include asbestos gaskets, resilient floor coverings, and asphalt roofing products containing more than 1 percent asbestos that cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Category I nonfriable ACM that have been made friable or subjected to sanding, grinding, cutting, or abrading are considered to be RACM.

#### **Category II**

Category II nonfriable ACM include all other forms of nonfriable ACM, containing more than 1 percent asbestos that are not included in Category I. Examples include Transite® board and cement siding.

Category II nonfriable ACM that will be or have a high probability of becoming crumbled, pulverized, or reduced to powder are also considered to be RACM.

#### **Inspections**

Inspection is required to identify all forms of asbestos present in a facility prior to renovation or demolition activities. These include RACM and Category I and II nonfriable ACM.

### **Notification Requirements**

#### **Demolition Projects**

NESHAP defines demolition as the removal of a load supporting structural member of a facility or intentional burning.

- Notification must be given to the regional coordinator 10 working days prior to demolition of a building regardless of the quantity of RACM present.
- Notification must also be provided 10 working days prior to demolition for any facility that does not contain asbestos.

#### **Renovation Projects**

NESHAP defines renovation as altering a facility or component in any way, including removal of ACM.

- Notification must be given 10 working days prior to renovation if quantities greater than 160 square feet or 260 linear feet of RACM are removed.
- Notification must be provided at least 10 working days before the end of the calendar year if the combined additive amount of friable RACM to be removed or stripped during planned renovations in the next calendar year is greater than 260 linear feet or 160 square feet.

### **Removal Requirements**

- Removal of any RACM that will be affected prior to demolition is required. Prior to renovation if the activities would "break up or disturb" RACM, removal may be the only practical alternative.
- Friable RACM must be removed using wet removal techniques.
- With special approval from USEPA, dry removal is allowed under certain circumstances.
- No visible emissions to the outside air are permitted during removal or renovation.

### **Disposal Requirements**

- No visible emissions to the outside air are allowed during collecting, packaging, transporting, or depositing ACM waste.
- Wet ACM must be sealed in a leak-tight containers.
- Containers must be labeled with OSHA labels and provide the generator's identification and facility location. A generator's number for hazardous waste is not required.

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### 3.3 OTHER FEDERAL AGENCIES

Other Federal agencies promulgating asbestos regulations include the Department of Transportation (DOT) on the transport of asbestos and the National Bureau of Standards on standards and protocols for laboratory accreditation.

### 3.4 STATE AND LOCAL AGENCIES

State and local agencies may have additional requirements than those that are required by Federal agencies. Therefore, review and compliance with state and local regulations will be required for the facility, depending upon its location. Some of the state and local agencies may include the Department of Environmental Protection, Department of Health, Department of Labor, Department of Building Construction, Department of Transportation, etc.

#### 3.4.1 OTHER SITE-SPECIFIC REGULATORY REQUIREMENTS

##### 3.4.1.1 California Code of Regulations (CCR) Title 8 §1529 Construction Industry Safety Orders – CCR Title 8 §1529 mirrors 29 CFR 1926.1101, with a few notable exceptions.

- Whereas 29 CFR 1926.1101 defines “asbestos-containing materials” as those materials that contain greater than 1.0% asbestos (>1.0%), CCR Title 8 §1529 has the added definition of “asbestos-containing construction material” which is defined as any manufactured construction material that contains more than one-tenth of one percent (>0.1%) asbestos.
- CCR Title 8 §1529 requires that employers conducting asbestos-related work involving greater than 100 square feet of asbestos-containing construction material be registered with the Division of Occupational Safety and Health (DOSH).
- CCR Title 8 §1529 requires that any person who contracts to provide professional health and safety services relating to asbestos-containing construction materials such as building inspection, abatement project design, contract administration, sample collection, preparation of management plans, and/or clearance monitoring must be licensed by the Division of Occupational Safety and Health. State certification designations consist of either “Certified Asbestos Consultant” or “Certified Site Surveillance Technician.” Certified Site Surveillance Technicians must work under the supervision of a Certified Asbestos Consultant.

##### 3.4.1.2 California Health and Safety Code §25915 (a.k.a., Connelly Notification Bills)

Also known as the Connelly Notification Bills, this code requires that any owner of a public or commercial building constructed prior to 1979 who knows that the building contains “asbestos-containing construction materials” give specified written notice to each individual employee, contract employee, or lessee (vendor, etc.) working in that building on an annual basis. Notices must be given within 15 days after the owner receives

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information identifying the presence or location of the asbestos-containing construction material and annually thereafter. The notices should contain the following (see Appendix B for sample notification letters):

- Information from any surveys known to have been conducted by the owner, including when and where the results are available;
- Specific locations of known asbestos-containing construction materials;
- General procedures and handling restrictions necessary to minimize disturbance, release, or exposure to asbestos;
- A summary of the results of any air sampling or monitoring conducted; and
- Potential health risks or impacts that may result from exposure to asbestos in the buildings identified by the surveys to contain asbestos.

#### **3.4.1.3 South Coast Air Quality Management District (SCAQMD) Rule 1403**

The South Coast Air Quality Management District (SCAQMD) derives its authority from Cal-EPA's Air Resources Board and ultimately from Federal EPA. As such, SCAQMD's Rule 1403 is generally a local codification of the USEPA NESHAPS (see 3.2 above). The significant differences are as follows:

##### **Definitions**

Whereas NESHAP, as amended November 20, 1990, divides types of ACM into three categories: regulated asbestos-containing construction materials (RACM), Category I nonfriable ACM, and Category II nonfriable ACM, Rule 1403 utilizes the term "Class" rather than "Category" (e.g., Class I non-friable ACM).

##### **Notification Requirements**

Rule 1403 requires that notification be given, using SCAQMD forms, to the SCAQMD 14 calendar days prior to renovation or demolition of a building if 100 square feet or greater of Class I NF, Class II NF, or RACM are to be removed or stripped during planned renovations or demolition. Note: Whereas NESHAPS does not require the prior notification involving the stripping of non-friable materials, Rule 1403 requires prior notification of stripping of both non-friable and friable materials.

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### **Removal Requirements**

Whereas NESHAPs requires only the removal of any RACM that will be affected prior to demolition, Rule 1403 requires the removal of all ACMs including Class I NF and Class II NF.

Whereas NESHAPs lacks specificity as to removal procedures, Rule 1403 specifies five types of removal procedures (e.g., Procedures 1-5) to be utilized depending upon the ACM to be stripped and the circumstances under which it will be stripped.

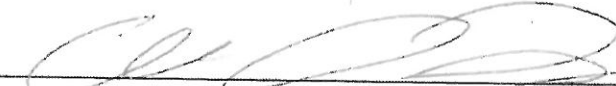


San Bernardino Community College District

Safety Program Approval

Safety Program: Asbestos Management Program – Crafton Hills College – September 2014

Reviewed by:



Date

09/24/14

Environmental Health & Safety Administrator

Approved by:



Date

12/10/14

CHC/Vice President Administrative Services/Business Services

Approved by:



Date

CHC President