

Homogeneous Materials Record

School Dist: Chico USD
 Date Inspected: 04/16/92

School: DISTRICT OFFICE

BUILDING: 1

Material	Homog. Mat. #	Locations	% Asb	Footage	Friable? Y or N
HARD PLASTER	1	ALL ROOMS	00-00	12000 S	N
ACT	2	MAIN ENTRY	00-00	8500 S	N
ACT	3	SUPER'S OFFICE	00-00	420 S	N
12" VFT	4	DUPLICATING ROOM	00-00	600 S	N
ACT	5	COMPUTER ROOM	00-00	350 S	N
9" VFTs	6	COMPUTER RM OFFICE	01-10	100 S	N
PW DEBRIS	7	BASEMENT CRAW SPACE	25-35	25 S	Y
PW JNT	7	BASEMENT CRAW SPACE	10-15	0 L	N
PW STR	7	BASEMENT CRAW SPACE	80-85	350 L	N

Inspected By: Mike Sharp

These Reports should be placed in your AHERA file. Do not throw away old HMRs.

Homogeneous Materials Record

School Dist: **Chico USD**
Date Inspected: **04/16/92**

School: **DISTRICT OFFICE**

BUILDING: 1

Material	Homog. Mat. #	Locations	% Asb	Footage	Friable? Y or N
DRYWALL	75	COMPUTER RM/BASEMENT	00-00	800 S	N

Inspected By: Mike Sharp

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Homogeneous Materials Record

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BUILDING: 1

Material	Homog. Mat. #	Locations	% Asb	Footage	Friable? Y or N
HARD PLASTER	1	ALL ROOMS	00-00	12000 S	N
ACT	2	MAIN ENTRY	00-00	8500 S	N
ACT	3	SUPER'S OFFICE	00-00	420 S	N
12" VFT	4	DUPLICATING ROOM	00-00	600 S	N
ACT	5	COMPUTER ROOM	00-00	350 S	N
9" VFTs	6	COMPUTER RM OFFICE	01-10	100 S	N
PW DEBRIS	7	BASEMENT CRAW SPACE	25-35	25 S	Y
PW JNT	7	BASEMENT CRAW SPACE	10-15	0 L	N
PW STR	7	BASEMENT CRAW SPACE	80-85	350 L	N

Inspected By: Mike Sharp

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Hazard Management Services, Inc. Bulk Sample Analysis Request Form

AHERA THREE YEAR REINSPECTION SAMPLES

Please Send Results To: P.O. Box 576848 Modesto, CA 95357-6848

Samples Collected by: Michael Sharp on 04/16/92

Client: Chico Unified S.D. Site: District Office

Turn Around Time: Extended, Results Needed By April 30th, if possible.

Sample Number	Material	Location
HMS-CUSD-DO -75A	Drywall No Jnt Cmpd	Basement
	Result: None Detected	
HMS-CUSD-DO -75B	Drywall	Basement
	Result: None Detected	
HMS-CUSD-DO -75C	Drywall	Computer Room.
	Result: None Detected	



Bulk Material Analysis

Client:

Hazard Management Services, Inc.
Modesto Location
P.O. Box 576848
Modesto, CA 95357-6848

Client Number: 1146
Report Number: 177329
Date Received: 04/21/92

Lab Number: 19220525
Sample Number: HMS-CUSD-DO-75A
P.O. Num:
Job ID: Chico Unified School District
Site: District Office

Date Collected: 04/16/92

Location: Basement, drywall, no joint compound.

Gross Description: White fibrous plaster with fibrous backing.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %	Non-Det. %
Chrysotile		Non-Det. %	
Amosite		Non-Det. %	
		%	
		%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:			30-35 %
Cellulose	25-30	%	
Fibrous Glass	Trace	%	
Talc	1-5	%	
		%	
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:			65-70 %

Janis Teichman

Janis Teichman, Director of Laboratory Services, Hayward Laboratory

Analytical methods: 40 CFR 763, Subpart E, Appendix A, AHERA

See Reverse for Explanation of Terms and Reporting Practices



Bulk Material Analysis

Client:
Hazard Management Services, Inc.
Modesto Location
P.O. Box 576848
Modesto, CA 95357-6848

Client Number: 1146
Report Number: 177329
Date Received: 04/21/92

Lab Number: 19220526
Sample Number: HMS-CUSD-DO-75B
P.O. Num:
Job ID: Chico Unified School District
Site: District Office

Date Collected: 04/16/92

Location: Basement, drywall.

Gross Description: White fibrous plaster with fibrous backing.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
	%	
	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		30-35 %
Cellulose	25-30 %	
Fibrous Glass	1-5 %	
Talc	Trace %	
	%	
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:		65-70 %

Janis Teichman

Janis Teichman, Director of Laboratory Services, Hayward Laboratory

Analytical methods: 49 CFR 763, Subpart F, Appendix A (ANDEA)

See Reverse for Explanation of Terms and Reporting Practices



Bulk Material Analysis

Client:
Hazard Management Services, Inc.
Modesto Location
P.O. Box 576848
Modesto, CA 95357-6848

Client Number: 1146
Report Number: 177329
Date Received: 04/21/92

Lab Number: 19220527
Sample Number: HMS-CUSD-D0-75C
P.O. Num:
Job ID: Chico Unified School District
Site: District Office

Date Collected: 04/16/92

Location: Computer room, drywall.

Gross Description: White fibrous plaster with fibrous backing.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
	%	
	%	
 TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		30-35 %
Cellulose	25-30 %	
Fibrous Glass	1-5 %	
Talc	Trace %	
	%	
	%	
 TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:		65-70 %

Janis Teichman

Janis Teichman, Director of Laboratory Services, Hayward Laboratory

Analytical methods: 40 CFR 763, Subpart F, Appendix B (AEDMA)

See Reverse for Explanation of Terms and Reporting Practices

GENERAL INFORMATION

DRYWALL

We have collected drywall samples in your district and for numerous other clients. The vast majority of these samples do not contain asbestos in the drywall, the tape, the joint compound or the texturizing or finish coat. When we do find asbestos it is usually in the texturizing coat. It usually is at a 1 to 5% concentration, but since it's in the surface coat it is subject to abuse (contact, sanding, etc.) and it can release fibers. Where we have identified drywall materials to contain asbestos we have included the proper information in our inspection reports and management plans. It is where we do not find asbestos that a potential problem exists.

Hazard Management Services, Inc. (HMS, Inc.) and many other consultants do not believe there is an accurate sampling protocol for determining asbestos in drywall materials. For example, we have sampled one piece of finished drywall where the results were "0%", "trace" in the skim coat and "1-5%" in the skim coat. We have also sampled all the walls in a room and found one sample on one wall positive and all the rest negative (five samples). We have also taken 12 samples on both sides of one hallway (120 feet long) and had two samples contain "5-10%" in the skim coat, one sample contain "trace" amounts in the joint compound and the other nine to contain no asbestos. In other words, sampling drywall according to AHERA methods is not necessarily an accurate assessment of what is present. At least, we are not confident of our results.

The reasons for these discrepancies in findings include renovation activities, patches, inconsistent mixing practices by the original installers, etc. Often times, painting, wallpapering or other wall treatments make it impossible to determine if materials are homogeneous. This is particularly true in office areas where the geometry of the walls changes frequently and these changes are obscured by painting, etc.

So what does this all mean and what should you do about it? HMS, Inc. recommends the following procedures be followed in areas where drywall has been analyzed and no asbestos has been detected.

Small Projects

If you are only going to attach nails or tacks, drill a small hole or cut a small opening and if these projects involve only a very small amount of drywall, no special precautions are necessary, but you may want to dampen the affected area with water to reduce dust levels. If the area involves several inches of drywall a more effective way to reduce dust is to apply a viscous lubricant such as grease, vaseline or K-Y jelly to the affected area.

Large Projects

If you are going to be cutting into full sheets of drywall or removing substantial amounts of drywall, HMS, Inc. recommends that you take several samples of the affected materials and have them analyzed. These samples can safely be collected by your own staff. Please call HMS, Inc. for advice on the proper method of collection and how the samples should be packaged for mailing to a laboratory.

United States Department of Commerce
National Institute of Standards and Technology

NVLAP

Certificate of Accreditation

FORENSIC ANALYTICAL SPECIALTIES, INC.
HAYWARD, CA

is recognized under the National Voluntary Laboratory Accreditation Program
for satisfactory compliance with criteria established in Title 15, Part 7 Code of Federal Regulations.
Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

July 1, 1993

Effective until



A handwritten signature in cursive script, reading "Albert D. Phalen".

For the National Institute of Standards and Technology

DISTRICT CHICAGO UNIFIED SCHOOL DIST. SCHOOL, CHICAGO DISTRICT OFFICE

(1) MAIN BLDG

BLDG.	HAT. CLASS.	MATERIAL	HOMOG. MAT. #	SAMPLE NUMBER	LOCATION	ASBESTOS	FOOTAGE FT ² OF LF	TRIAD'S YES	NO
1	SURF	HARD PLASTER	1	DO-01A	WALL	0	12,000 FT ²	X	21%
1	SURF	"	1	DO-01B	WALL				
1	SURF	"	1	DO-01C	WALL				
1	SURF	"	1	DO-01D	WALL				
1	SURF	"	1	DO-01E	WALL				
1	SURF	"	1	DO-01G	WALL				
1	MISC	FACT	2	DO-02	CEILING	0	8500 FT ²	X	21%
1	MISC	FACT	3	DO-03	CEILING	0	4900 FT ²		
1	MISC	12" VET	4	DO-04	FLOOR (MULTI COLORS)	0	600 FT ²		
1	MISC	FACT	5	DO-05	CEILING	0	350 FT ²		
1	MISC	9" VET	6	DO-06	FLOOR (BOISE)	0	100 FT ²		
1	TSI	P.W. STRIPS	7	DO-07A	PIPE WRAP (STAINLESS)	80-85	350 LF		
1	TSI	MISCELLANEOUS	4	DO-07B	PIPE WRAP (JOINT)	10-15	AS ABOVE		
1	TSI	P.W. STRIPS	7	DO-07C	PIPE WRAP (JOINT)	25-35	25 FT ²		
1	SURF	HARD PLASTER	1	NS	Through out Bldg	0	> 10,000 FT ²		
2					NO ASBM				

PORT

HMS, INC.
HAZARD MANAGEMENT SERVICES, INC.

CHICO UNIFIED SCHOOL DISTRICT

DISTRICT OFFICE

AHERA THREE-YEAR REINSPECTION SUMMARY

APRIL, 1992

Attached you will find a computer print-out of your original "Homogeneous Materials Record Sheets". You will find these sheets easier to read than the original copies. If additional samples were collected at this site, the results are listed at the end of the new "homogeneous" sheets. A comment on drywall sampling and lab accreditation sheets are added as appropriate.

At this site one or more asbestos-containing materials were damaged and friable. Response actions for these materials are listed on Form C's with assessment sheets for each material.

We have given you a new index to insert into your management plan to account for new sections VIII and IX. We have added section VIII in which you should include results of your six-month inspections. We have also included a sheet on drywall sampling with recommendations on handling drywall. We also want to remind you that new buildings or portables must either be inspected or exempted by letter by your architect or builder.

AHERA THREE YEAR REINSPECTION

School Dist: Chico USD
 Date Inspected: 04/16/92

School: DISTRICT OFFICE

BUILDING: 1

Material	Homog. Mat. #	Locations	% Asb	Footage	Codes
9" VFTs	6	COMPUTER RM OFFICE	01-10	100 S	1-4
3 Year Inspection Notes: Condition of Material: GOOD Change in Condition? NO Abated? NO Comments: Couple of small areas of damage.					
PW DEBRIS	7	BASEMENT CRAWL SPACE	25-35	25 S	2-4
3 Year Inspection Notes: Condition of Material: DAMAGED Change in Condition? NO Abated? NO Comments:					
PW JNT	7	BASEMENT CRAWL SPACE	10-15	0 L	1-4
3 Year Inspection Notes: Condition of Material: GOOD Change in Condition? NO Abated? NO Comments:					
PW STR	7	BASEMENT CRAWL SPACE	80-85	350 L	1-4
3 Year Inspection Notes: Condition of Material: GOOD Change in Condition? NO Abated? NO Comments:					

Codes:

General Condition: (1) Good (2) Damaged (3) Sig. Damaged
 Change in Condition: (N or 4) No (Y) Yes (Please explain)
 Abated: (R) Repaired (M) Removed (E) Enclsd
 (I) Isolated and Restricted

Inspected By: Mike Sharp

These Reports should be placed in your AHERA file. Do not throw away old HMRS.

PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE
ACBM OR FRIABLE ASSUMED ACBM (FORM C)
(SEC. 763.93)

THREE-YEAR REINSPECTION

SCHOOL DISTRICT OFFICE				CDS CODE 04-61424-6003024
ADDRESS (Number) (Street) (City) (Zip) 1163 EAST 7TH STREET CHICO, CA 95928				SCHOOL PHONE NO. (916) 891-3000
BUILDING NAME BUILDING 1			INSPECTION DATE 4-16-92	
FUNCTIONAL SPACE BASEMENT CRAWL SPACE			LINE NO. FROM FORM B	

TYPE OF FRIABLE ACBM SURFACING TSI MISCELLANEOUS

1. CONDITION OF ACBM (Overall Rating)

CHECK APPROPRIATE BOX GOOD DAMAGED (Fair) SIGNIFICANTLY DAMAGED (Poor)

2. POTENTIAL FOR DISTURBANCE (Overall Rating)

CHECK APPROPRIATE BOX LOW MODERATE HIGH (Potential for significant damage)

3. HAZARD ASSESSMENT (Combine Ratings from Items 1 and 2 and Check Appropriate Box)

CONDITION OF ACBM	POTENTIAL FOR DISTURBANCE		
	LOW	MODERATE	HIGH
GOOD	1	2	3
DAMAGED	4	5	6 X
SIGNIFICANTLY DAMAGED	7	7	7

4. RECOMMENDED RESPONSE ACTION (S) AND COST(S)

RESPONSE ACTION	ESTIMATED COSTS
<input type="checkbox"/> A. OPERATION AND MAINTENANCE	\$
<input checked="" type="checkbox"/> B. REPAIR	\$ 450.00
<input type="checkbox"/> C. ENCAPSULATION	\$
<input type="checkbox"/> D. ENCLOSURE	\$
<input checked="" type="checkbox"/> E. REMOVAL	\$ 9,900.00

5. NARRATIVE OF RECOMMENDED RESPONSE ACTIONS (Attach Additional Sheets if Necessary)

	SCHEDULE	
	START	FINISH
B. REPAIR DAMAGED ENDS AND CLEAN UP DEBRIS. RESTRICT ACCESS UNTIL ABATED.	1992	1992
E. REMOVE ALL TSI AND DEBRIS IN CRAWL SPACE. RESTRICT ACCESS UNTIL ABATED.	1993	1993

HAZARD MANAGEMENT SERVICES, INC.
Inspection Form I-1

District: CHICO UNIFIED SCHOOL DISTRICT
School: DISTRICT OFFICE
Building: BUILDING 1
Location: BASEMENT CRAWL SPACE
 (functional area)

Line on Form B
 Page 1 of 1
Date: 4-16-92
Inspector: MCS
HMS:

Material: TSI **% Asbestos:** 25-35%

Description: PW DEBRIS

Amount of Material: 25 SQ. FT. **Assumed ACM:** YES **# of samples:**

CONDITION: % damaged Extent of damage
98-99% DISTRIBUTED

Type of damage: AIR/WATER/PHYSICAL/FLAKING/DETERIORATION

DESCRIPTION: PIPEWRAP LAYING ON THE GROUND

POTENTIAL FOR DISTURBANCE: PREVENTATIVE MEASURES: REMEDIAL ACTIONS

Accessibility: HIGH	PREVENT WATER CONTACT	REPAIR/CLEAN UP
Vibration : LOW	DO NOT DSCG	REMOVE
Air Erosion : MEDIUM	DO NOT AFFIX SIGNS/DECOS	
Water : MEDIUM	AVOID CONTACT	
Occupancy : LOW	FIX LEAKS	

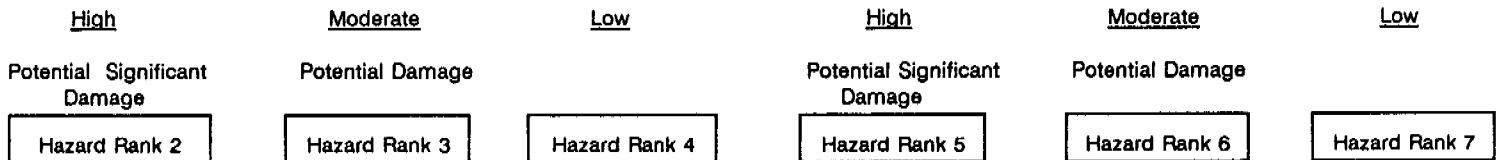
COMMENTS:

ACBM Condition - Assessment



Fair
(Damaged)

Good
(Little or no damage)



UNIVERSITY OF CALIFORNIA
BERKELEY
UNIVERSITY EXTENSION

This is to certify that

MICHAEL C. SHARP

has attended the

AHERA Refresher Course for Asbestos Inspectors and
Management Planners
November 26, 1991

Certificate number:

1428

Valid until: November 26, 1992



Deloral DA.
Chair
Programs in Environmental Hazard
Management

UNIVERSITY OF CALIFORNIA
BERKELEY
UNIVERSITY EXTENSION

This is to certify that

MICHAEL C. SHARP

has attended the

AHERA Refresher Course for Asbestos Abatement Project Designers
October 22, 1991

Certificate number:

Valid until: October 22, 1992



Deloral DA.
Chair
Programs in Environmental Ha
Management

SIX-MONTH SURVEILLANCE

DISTRICT Chico Unified School District DATE December 28, 1992
 SCHOOL District Office INSPECTOR Michael Fender

BLDG.	HOMOG. MAT.#	ASBESTOS MATERIAL	LOCATION	CONDITION: CODE & COMMENTS
1	9" VFT	1-5%	Computer Room Office	1-4
1	PW Str	80-85%	Basement Crawl Space	2 - 4 - 10 (sign in place)
1	PW Jnt	10-15%	Basement Crawl Space	2 - 4 - 10
1	PW Debris	25-35%	Basement Crawl Space	2 - 4 - 10

CONDITION CODES

GENERAL CONDITION: (1) GOOD (2) DAMAGED (3) SIGNIFICANTLY DAMAGED (25% OR MORE)
CHANGE IN CONDITION: (4) NO (5) YES (IF YES, EXPLAIN UNDER COMMENTS)
ABATED: (6) REPAIRED (7) REMOVED (8) ENCAPSULATED (9) ENCLOSED (10) ISOLATED & RESTRICTED
MISC: (11) INACCESSIBLE, NO SURVEILLANCE DATA (12) OTHER (EXPLAIN UNDER COMMENTS)



Bulk Material Analysis

Client:
Hazard Management Services, Inc.
Modesto Location
P.O. Box 576848
Modesto, CA 95357-6848

Client Number: 1146
Report Number: 177329
Date Received: 04/21/92

Lab Number: 19220525
Sample Number: HMS-CUSD-DO-75A
P.O. Num:
Job ID: Chico Unified School District
Site: ~~████████████████████~~

Date Collected: 04/16/92

Location: Basement, drywall, no joint compound.

Gross Description: White fibrous plaster with fibrous backing.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite

Non-Det. %
Non-Det. %
%
%

Non-Det. %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Fibrous Glass
Talc

25-30 %
Trace %
1-5 %
%

30-35 %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

65-70 %

Janis Teichman

Janis Teichman, Director of Laboratory Services, Hayward Laboratory

Analytical method: 40 CFR 763, Subpart F, Appendix A (ASHERA)

See Reverse for Explanation of Terms and Reporting Practices



Bulk Material Analysis

Client:

Hazard Management Services, Inc.
Modesto Location
P.O. Box 576848
Modesto, CA 95357-6848

Client Number: 1146
Report Number: 177329
Date Received: 04/21/92

Lab Number: 19220526
Sample Number: HMS-CUSD-DO-75B
P.O. Num:
Job ID: Chico Unified School District
Site: District Office

Date Collected: 04/16/92

Location: Basement, drywall.

Gross Description: White fibrous plaster with fibrous backing.

Comments:

Macroscopic Description

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite

Non-Det. %
Non-Det. %
%
%

Non-Det. %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Fibrous Glass
Talc

25-30 %
1-5 %
Trace %
%

30-35 %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

65-70 %

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Analytical method: 40 CFR 763, Subpart F, Appendix A (AHERA)

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Bulk Material Analysis

Client:

Hazard Management Services, Inc.
Modesto Location
P.O. Box 576848
Modesto, CA 95357-6848

Client Number: 1146
Report Number: 177329
Date Received: 04/21/92

Lab Number: 19220527
Sample Number: HMS-CUSD-D0-75C
P.O. Num:
Job ID: Chico Unified School District
Site: District Office

Date Collected: 04/16/92

Location: Computer room, drywall.

Gross Description: White fibrous plaster with fibrous backing.

Comments:

Macroscopic Description

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite

Non-Det. %
Non-Det. %
%
%

Non-Det. %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Fibrous Glass
Talc

25-30 %
1-5 %
Trace %
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30-35 %

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65-70 %

Janis Feichman

Janis Feichman, Director of Laboratory Services, Hayward Laboratory

Analytical method: 40 CFR 763, Subpart F, Appendix A (AHERA)

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