Forensic Analytical

Final Report

San Francisco • Los Angeles • Minneapolis / St. Paul

Bulk Asbestos Analysis

(EPA Method 600/R-93-116)

Chico Unified School Dist
Mr. Ron Jones

2455 Carmichael Drive
Chico, CA 95928

Client ID: 2921
Report Number: B001198
Date Received: 06/18/98
Date Analyzed: 06/18/98
Date Reported: 06/22/98

Job ID / Site: Chapman Library

FASI Job ID: 2921-14

Sample Number	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CHA--1	19813259						
Layer: Green carpet			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Green Non-Fibrous Material			**ND**				

Total Composite Values of Fibrous Components: **Asbestos:(ND)** Cellulose (Trace%) Fibrous Glass (ND)

Dave Sandusky, Laboratory Director, Hayward Laboratory

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

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3777 Depot Road, Suite 409, Hayward, California 94545 • Telephone: 510/887-8828 800/827-FASI Fax: 510/887-4218

C: asbestos binder

9/16/98

SIX-MONTH SURVEILLANCE

DISTRICT Chico Unified School District DATE ~~December 20, 1996~~ R.P. 9/16/98

SCHOOL Chapman Elementary INSPECTOR Rob Peters

BLDG.	HOMOG. MAT.#	ASBESTOS MATERIAL	LOCATION	CONDITION: CODE & COMMENTS
A	TSI	75-80	Room 7	(7)
A	PW St	85-90	Room 5	(7)
A	PW CNR	75-80	Room 7	(7)
A	Transite Pipe	Assumed	Room 7	(7)
A	9" VFT	10-15	Room 5 Brown	(1) (4) 4
A	9" VFT	10-15	Room 4	(7)
A	9" VFT	10-15	Restroom 1	(7)
A	12" VFT	1-5	MPR Blue	(7)
A	A/C Plast	1-5	Room 3 MPR	(7)
A	A/C Plast	1-5	Rooms 1,8,2	(7)
A	PW Jnt	1-5	Room 4 Storage	(7)

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

POSTED

MISC: (11) INACCESSIBLE, NO SURVEILLANCE DATA (12) OTHER (EXPLAIN UNDER COMMENTS)

SIX-MONTH SURVEILLANCE

DISTRICT Chico Unified School District DATE ~~December 20, 1996~~ 9/16/98

SCHOOL Chapman Elementary INSPECTOR Rob Peters

BLDG.	HOMOG. MAT.#	ASBESTOS MATERIAL	LOCATION	CONDITION: CODE & COMMENTS
A	PW Str	5-10	Room 4 Storage	(7)
A	PW Str	5-10	Pantry	(7)
B	9" VFT	10-15	Room 14 Gray	(7)
B	9" VFT	10-15	Room 13, 15, 16	(7)
B	Tran panl	Assumed	Exterior	(1) (4) 4
C	A/C Plas	1-5	Room 14, 13 Staff Rèstrooms	(7)
C	9" VFT	10-15	Room 9-12	(7)
C	Tran panl	Assumed	Exterior	(1) (4) 4
D	Mud jnt	65-80	Room 15 Boiler Room	(7)
~~D~~	~~Mud jnt~~	~~75-80~~	~~Room 15 Boiler Room~~	~~(7)~~
D	PW Str	55-60	Room 15 Boiler Room	(7)

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)

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SIX-MONTH SURVEILLANCE

DISTRICT Chico Unified School District DATE ~~December 20, 1996~~ 9/16/98

SCHOOL Chapman Elementary INSPECTOR Rob Peters

BLDG.	HOMOG. MAT.#	ASBESTOS MATERIAL	LOCATION	CONDITION: CODE & COMMENTS
D	Board B/R	85-90	Room 15 Boiler Room	(7)
D	A/C Plas	1-5	Room 15, 16	(7)
D	PW Str	50-55	Room 15 Boiler Room	(7)
E	9" VFT	10-15	Room 17, 18	(7)
F	9" VFT	1-5	Room 3 (classroom #68)	(1) (4) 4
F	9" VFT	1-5	Room 1 (classroom #5,7)	(1) (4) 4
F	Tran panl	Assumed	Exteriors	(1) (4) 4
G	Mud jnt	1-5	Room 3,4,2,1	(1) (4) 4.
G	Tran panl	Assumed	Room 1,2,3,4	(11) Could not find -

CONDITION CODES

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MISC: (11) INACCESSIBLE, NO SURVEILLANCE DATA (12) OTHER (EXPLAIN UNDER COMMENTS)

Toilet Rm

1-20-98

SIX-MONTH SURVEILLANCE

DISTRICT Chico Unified School District DATE ~~January 6, 1996~~ 1-20-98

SCHOOL Chapman Elementary INSPECTOR Ron Jones

BLDG.	HOMOG. MAT.#	ASBESTOS MATERIAL	LOCATION	CONDITION: CODE & COMMENTS
A	TSI	75-80	Room 7	(7) ✓
A	PW St	85-90	Room 5	(7) ✓
A	PW CNR	75-80	Room 7	(7) ✓
A	Transite Pipe	Assumed	Room 7	(7) ✓
A	9" VFT	10-15	Room 5 Brown	(1) (4) ✓
A	9" VFT	10-15	Room 4	(7) ✓
A	9" VFT	10-15	Restroom 1	(7) ✓
A	12" VFT	1-5	MPR Blue	(7) ✓
A	A/C Plast	1-5	Room 3 MPR	(7) ✓
A	A/C Plast	1-5	Rooms 1,8,2	(7) ✓
A	PW Jnt	1-5	Room 4 Storage	(7) ✓

CONDITION CODES

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ABATED: (6) REPAIRED (7) REMOVED (8) ENCAPSULATED (9) ENCLOSED (10) ISOLATED & RESTRICTED

~~Water leak [illegible] Dist office~~
~~[illegible]~~

MISC: (11) INACCESSIBLE, NO SURVEILLANCE DATA (12) OTHER (EXPLAIN UNDER COMMENTS)

SIX-MONTH SURVEILLANCE

DISTRICT Chico Unified School District **DATE** ~~January 6, 1996~~ 1-20-98

SCHOOL Chapman Elementary **INSPECTOR** Ron Jones

BLDG.	HOMOG. MAT.#	ASBESTOS MATERIAL	LOCATION	CONDITION: CODE & COMMENTS
A	PW Str	5-10	Room 4 Storage	(7) ✓
A	PW Str	5-10	Pantry	(7) ✓
B	9" VFT	10-15	Room 14 Gray	(7) ✓
B	9" VFT	10-15	Room 13, 15, 16	(7) ✓
B	Tran panl	Assumed	Exterior	(1) (4) ✓
C	A/C Plas	1-5	Room 14, 13 Staff Restrooms	(7) ✓
C	9" VFT	10-15	Room 9-12	(7) ✓
C	Tran panl	Assumed	Exterior	(1) (4) ✓
D	Mud jnt	65-80	Room 15 Boiler Room	(7) ✓
~~D~~	~~Mud jnt~~	~~75-80~~	~~Room 15 Boiler Room~~	~~(7)~~ ✓
D	PW Str	55-60	Room 15 Boiler Room	(7) ✓

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SIX-MONTH SURVEILLANCE

DISTRICT Chico Unified School District DATE ~~January 6, 1996~~ 1-20-98

SCHOOL Chapman Elementary INSPECTOR Ron Jones

BLDG.	HOMOG. MAT.#	ASBESTOS MATERIAL	LOCATION	CONDITION: CODE & COMMENTS
D	Board B/R	85-90	Room 15 Boiler Room	(7) ✓
D	A/C Plas	1-5	Room 15, 16	(7) ✓
D	PW Str	50-55	Room 15 Boiler Room	(7) ✓
E	9" VFT	10-15	Room 17, 18	(7) ✓
F	9" VFT	1-5	Room 3 (classroom #68)	(1) (4) ✓
F	9" VFT	1-5	Room 1 (classroom #5,7)	(1) (4) ✓
F	Tran panl	Assumed	Exteriors	(1) (4) ✓
G	Mud jnt	1-5	Room 3,4,2,1	(1) (4) ✓
G	Tran panl	Assumed	Room 1,2,3,4	(11) Could not find

CONDITION CODES

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MISC: (11) INACCESSIBLE, NO SURVEILLANCE DATA (12) OTHER (EXPLAIN UNDER COMMENTS)

BULK SAMPLE REQUEST FORM

2921

CLIENT NAME & ADDRESS: [redacted]co Unified School District 2[redacted]5 Carmichael Dr. Chico, CA 95928	PHONE: ~~916~~ 530-891-319~~0~~4 FAX: ~~916~~-891-3190	DATE: 6/17/98
	Circle the Method and Turn Around Time ___hr/12hr/24hr/48hr/Ext	Results Needed: 6/19/98 noon by FAX
	PLM: Standard / Point Count	Gravimetry Prep
CONTACT: ~~Rob Peters~~ Ron Jones	TEM: QUAL. / QUANT. / WATER	
P.O.# ~~97-404~~ / JOB #	AA/Flame AA/Furnace ICP METALS:_____	
SITE: Chapman Library		

SAMPLE NUMBER	DATE COLLECTED	SAMPLE LOCATION/DESCRIPTION
CHA--1	6/17/98	Carpet mastic, pad, and mastic
[redacted]		Please analyze carpet mastic, pad, and pad mastic for asbestos using the PLM method, and report by layer.
		Note: Our new area code is 530

Sampled by: Ron Jones Date: 6/17/98 Time: NOON	
Relinquished by: Ron Jones Date/Time: 6/17/98 3:00 P.M.	Received By: Airborne Express Date/Time: 6/17/98 3:00 pm Sealed Condition (circle one) YES / NO
Re[redacted]uished by: Date/Time:	Received By: T. GOODNER Date/Time: 6-18-98 10:30 AM AB Sealed Condition (circle one) YES / NO

EOS ENVIRONMENTAL, INC.
ENVIRONMENTAL AND OCCUPATIONAL HEALTH SERVICES

507 MISSION STREET, SOUTH PASADENA, CA 91030
TEL. (626) 441-7050 * FAX (626) 441-0016

2110-21ST STREET #150, SACRAMENTO, CA 95814
TEL. (916) 452-5884 * FAX (916) 452-5912

AHERA RE-INSPECTION DOCUMENTATION

CHICO UNIFIED SCHOOL DISTRICT

1998
Asbestos Three Year Re-Inspection

CHAPMAN ELEMENTARY SCHOOL

APRIL 13, 1998

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

On April 13,1998 , EOS Environmental, Inc. performed a visual re-inspection for asbestos containing building materials, (ACBM) at Chapman Elementary. The purpose of the re-inspection was to comply with the U. S. Environmental Protection Agency (EPA) CRF 763 - AHERA requirement for a three year re-inspection.

Prior to the re-inspection, previous inspection reports were reviewed in order to determine which building materials had been previously tested and found to be asbestos containing, which were found not to contain asbestos, and if any materials had not been tested.

After the review of previous building inspections, a complete visual walk-through inspection of the site was performed. The visual inspection determined that conditions at Chapman were such that all non friables and friables were in good condition at the time of this inspection.

Sampling was done at Chapman. All samples were negative for ACBM's. See Lab report under Field Notes.

MATERIAL INVENTORY

MATERIAL CODES

ACS - Acoustical Ceiling Spray
ACT - Acoustical Ceiling Tile
ACP - Acoustical Ceiling Panels
AIR - Air Cell
ASF - Asphalt
ASP - Asbestos Paper
BBM - Baseboard Mastic
BOI - Boiler Insulation
BOL - Blown-In Insulation
BRK - Brick
BUR - Built-up Roofing
CAP - Cement Asbestos Pipe
CAS - Cement Asbestos Siding
CIN - Cinder Block
CEM - Cement
CER - Ceramic
CUR - Curtains
DEB - Debris
DRY - Drywall
DTM - Drywall Taping Mud
ELB - Pipe Elbow (fittings)
EXP - Exterior Panels
FIR - Fire Rated Brick
FLT - Floor Tile
FRD - Fire Rated Door
FUR - Furnace Pad
GAS - Gasket
MAS - Mastic
MIS - Miscellaneous
MOR - Mortar
P/C - Pipe Cover
PLA - Plaster
SFL - Vinyl Floor Sheeting
SFP - Sprayed-on Fireproofing
SOL - Soil
STC - Stucco
TAP - Tape
TAR - Tar
RFS - Composite Roofing Shingles
RFT - Roofing Felt
ROL - Rolled Roofing Material
WOV - Woven Cloth Joint Expansion
WPY - Window Putty

MATERIAL INVENTORY

Chapman Elementary School

4-13-98

James M. Rich
96-2035

MAT. CODE	DESCRIPTION OF MATERIAL	AREA FOUND	CAT.	FRI.	ORIGINAL AMOUNT	AMOUNT LEFT	HAS AB.
EXP	Transite Panels	(See Missing List) Bldg. G Exterior	MISC	No	150 SF	0	As.
ELB	Mud Joints	(See Missing List) Bldg. G Rm.1,2,3,4	TSI	Yes	4 LF	0	Yes
EXP	Transite Panels	Bldg. B Exterior	MISC	No	1000 SF	1000 SF	As.
EXP	Transite Panels	Bldg. C Exterior	MISC	No	1000 SF	1000 SF	As.
FLT	9" VFT	Bldg. F Rm. 3	MISC	No	1000 SF	1000 SF	Yes
FLT	9" VFT	Bldg. F Rm. 1	MISC	No	200 SF	200 SF	Yes
EXP	Transite Panels	Bldg. F Exterior	MISC	No	1000 SF	1000 SF	As.

POSITIVE MATERIAL LIST

POSITIVE MATERIALS

Chapman Elementary School

James M. Rich
96-2035

4-13-98

AREA NAME	SPACE NAME	ORIG. AMOUNT	AMOUNT LEFT	UNIT	MAT. CODE	UNIT PRICE	BUDGET CALC.
Bldg. G	(See Missing List) Exterior	150 SF	0	SF	EXP		
Bldg. G	(See Missing List) Rm. 1,2,3,4	4 LF	0	LF	ELB		
Bldg. B	Exterior	1000 SF	1000 SF	SF	EXP		
Bldg. C	Exterior	1000 SF	1000 SF	SF	EXP		
Bldg. F	Rm. 3	1000 SF	1000 SF	SF	FLT		
Bldg. F	Rm. 1	200 SF	200 SF	SF	FLT		
Bldg. F	Exterior	1000 SF	1000 SF	SF	EXP		

MISSING MATERIAL LIST

MISSING MATERIALS

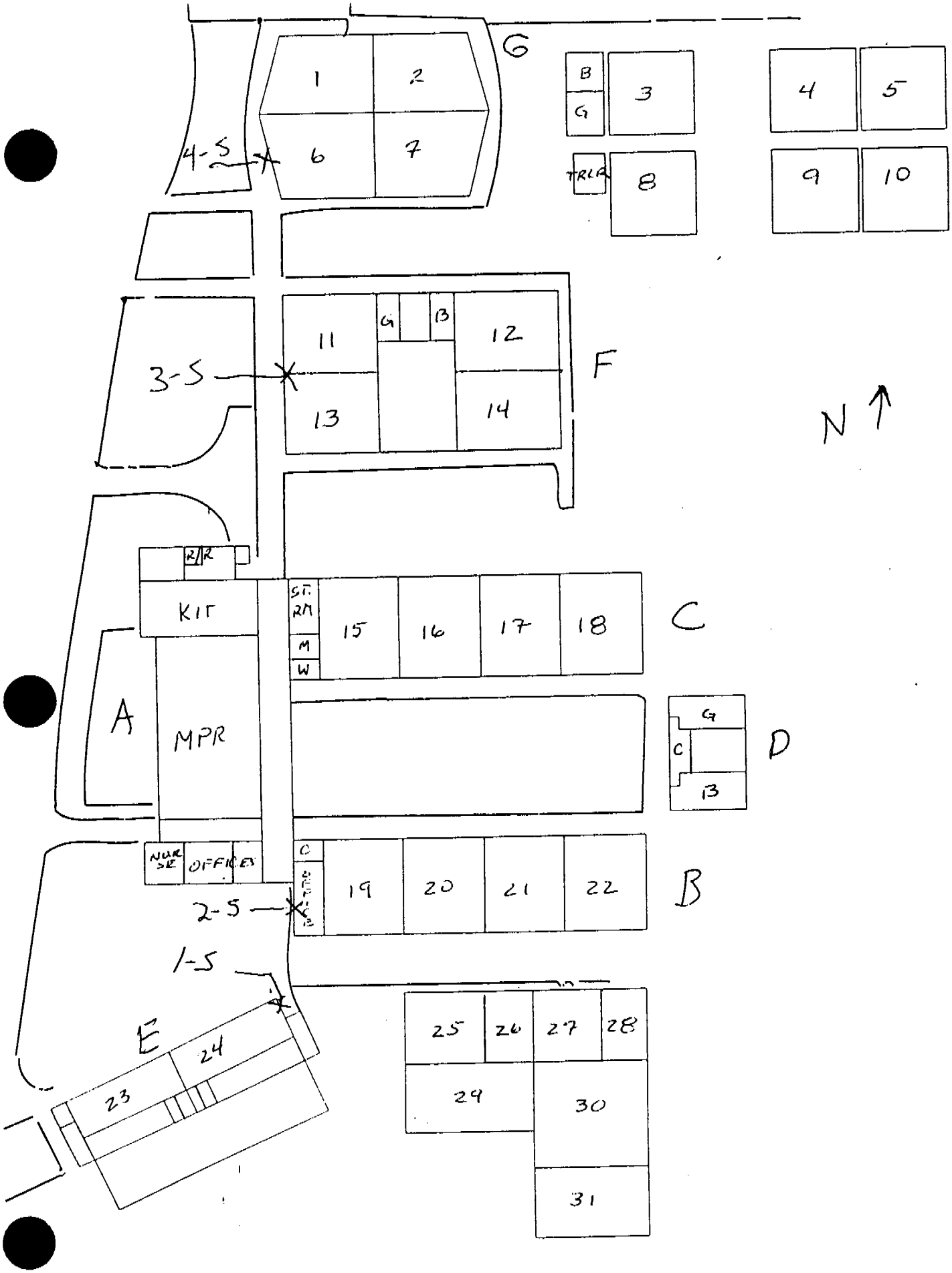
Chapman Elementary School

James M. Rich
96-2035

4-13-98

MAT. CODE	DESCRIPTION	LOCATION	AMOUNT REMOVED	AMOUNT LEFT
EXP	Transite Panels	Bldg. G Exterior of Bldg.	150 SF	0
ELB	Mud Joints	Bldg. G Rm. 1,2,3,4	4 LF	0

DIAGRAMS



CHAPMAN ELEMENTARY

FIELD NOTES

These levels should be used to establish both immediate and long range plans to act on the recommendations. The Priority Levels were selected for one of the following options:

Priority Level 1 - Isolate area, restrict access and respond as soon as possible.

Priority Level 2 - Schedule Response Action as soon as possible, reduce potential for disturbance.

Priority Level 3 - Schedule response Action as soon as practical, reduce potential for disturbance.

Priority Level 4 - Schedule Response Action as soon as practical.

Priority Level 5 - Schedule Response Action upon upgrade of system or material.

Cleaning Levels:

Level 1 - Initial cleaning should be done as soon as possible and additional cleaning should be done once every two months until the ACM is removed.

Level 2 - Initial cleaning should be done as soon as possible and additional cleaning should be done once every six months until the ACM is removed.

Level 3 - The material is non-friable therefore initial or additional cleaning is not necessary.

Level 4 - Initial or additional cleaning is not required for this material.

RESPONSE ACTIONS AND PRIORITY LEVELS:

Response Actions have been recommended for all friable or assumed friable ACM that was found during the inspection. The Response Actions were selected from one of the following options:

1. Removal
2. Repair
3. Enclosure
4. Encapsulation
5. Operations and Maintenance Program
6. Periodic Surveillance

Inspector: J. R. Cert. # Inspection Date 4/13/98

Site: Chapman

Material 9" Brown VAT Area: Bldg. A - AM 5 Kitchen

Material Code	Friable	Accessibility	Type	Current Condition	Potential Condition	Approx. Amount of ACM	Priority Level	Cleaning Level	Response Action
MISC.	N	High		Good	Good	800 ☑	1 2 3 4 5	1 2 3	1 2 3 4 5

Justification: Implementation Start: End:

Notes: Bldg A - Has been remodeled.

Inspector: J.R. Cert. # Inspection Date 4/13/98

Site: Chapman

Material Transite Panels Area: Bldg. B - Extension of Building

Material Code	Friable	Accessibility	Type	Current Condition	Potential Condition	Approx. Amount of ACM	Priority Level	Cleaning Level	Response Action
MISC	N	High		Good	Good	1000 ☑	1 2 3 4 5	1 2 3	1 2 3 4 5

Justification: Implementation Start: End:

Notes:

Inspector: J.R. Cert. # Inspection Date 4/13/98

Site: Chapman

Material Transite Panel Area: Bldg. C - Extension of Building

Material Code	Friable	Accessibility	Type	Current Condition	Potential Condition	Approx. Amount of ACM	Priority Level	Cleaning Level	Response Action
MISC	N	High		Good	Good	1000 ☑	1 2 3 4 5	1 2 3	1 2 3 4 5

Justification: Implementation Start: End:

Notes:

Inspector: J. R. Cert. # Inspection Date 4/13/98

Site: Chapman

Material Area: Bldg. D

Material Code	Friable	Accessibility	Type	Current Condition	Potential Condition	Approx. Amount of ACM	Priority Level	Cleaning Level	Response Action
							1 2 3 4 5	1 2 3 4	1 2 3 4 5 6

Justification: Implementation Start: End:

Notes: All Materials have been abated.

TSI: Thermal System Insulation SUR: Surface MISC: Miscellaneous

Inspector: J. R. Cert. # Inspection Date 4/13/98
Site: Chapman

Material Transit Panels Area: Bldg G - Exterior of Building

Material Code	Friable	Accessibility	Type	Current Condition	Potential Condition	Approx. Amount of ACM	Priority Level	Cleaning Level	Response Action
MISC	N	High	MIS	Good	Good	150 sqft	1 2 3 4 5	1 2 3 4	1 2 3 4 5 6

Justification: Implementation Start: End:

Notes: 1995 can't long 1995 Report - See Missing List

Inspector: J. R. Cert. # Inspection Date 4/13/98
Site: Chapman

Material Mud Joints Area: Bldg G - Rm 1,2,3,4

Material Code	Friable	Accessibility	Type	Current Condition	Potential Condition	Approx. Amount of ACM	Priority Level	Cleaning Level	Response Action
PB	Y	Low	TSI	good	good	4 Lf.	1 2 3 4 5	1 2 3 4	1 2 3 4 5 6

Justification: Implementation Start: End:

Notes: Could not Locate 1995 Report in good condition. See "Miss List"

Inspector: Cert. # Inspection Date
Site:

Material Area:

Material Code	Friable	Accessibility	Type	Current Condition	Potential Condition	Approx. Amount of ACM	Priority Level	Cleaning Level	Response Action
							1 2 3 4 5	1 2 3 4	1 2 3 4 5 6

Justification: Implementation Start: End:

Notes:

Inspector: Cert. # Inspection Date
Site:

Material Area:

Material Code	Friable	Accessibility	Type	Current Condition	Potential Condition	Approx. Amount of ACM	Priority Level	Cleaning Level	Response Action
							1 2 3 4 5	1 2 3 4	1 2 3 4 5 6

Justification: Implementation Start: End:

Notes:

TSI: Thermal System Insulation SUR: Surface MISC: Miscellaneous

Inspector: S. R. Cert. # Inspection Date 4-13-98

Site: Chapman

Material Area: Bldg. E

Material Code	Friable	Accessibility	Type	Current Condition	Potential Condition	Approx. Amount of ACM	Priority Level	Cleaning Level	Response Action
							1 2 3 4 5	1 2 3 4	1 2 3 4 5 6

Justification: Implementation Start: End:

Notes: All Materials have been removed.

Inspector: S. R Cert. # Inspection Date 4-13-98

Site: Chapman

Material Transite Panels Area: Bldg. F - Exterior of Building

Material Code	Friable	Accessibility	Type	Current Condition	Potential Condition	Approx. Amount of ACM	Priority Level	Cleaning Level	Response Action
MISC.	N	High		Good	Good	1000 ☑	1 2 3 4 (5)	1 2 3 (4)	1 2 3 4 5 (6)

Justification: Implementation Start: End:

Notes:

Inspector: S. R. Cert. # Inspection Date 4-13-98

Site: Chapman

Material 9" VAT Area: Bldg F - RM 3

Material Code	Friable	Accessibility	Type	Current Condition	Potential Condition	Approx. Amount of ACM	Priority Level	Cleaning Level	Response Action
MISC	N	High		Good	Good	1000 ☑	1 2 3 4 (5)	1 2 3 (4)	1 2 3 4 5 (6)

Justification: Implementation Start: End:

Notes:

Inspector: S. R Cert. # Inspection Date 4/13/98

Site: Chapman

Material 9" VAT Area: Bldg. B - RM 1

Material Code	Friable	Accessibility	Type	Current Condition	Potential Condition	Approx. Amount of ACM	Priority Level	Cleaning Level	Response Action
MISC.	N	High		Good	Good	200 ☑	1 2 3 4 (5)	1 2 3 (4)	1 2 3 4 5 (6)

Justification: Implementation Start: End:

Notes:

TSI: Thermal System Insulation SUR: Surface MISC: Miscellaneous

Chapman - Library Wing
Carpet over concrete No tile or
Mastic — Library only -

1-S Stucco (Wall) NE Corner of Unit E

2-S Stucco (Wall) W side of Unit B

3-S Stucco (Wall) W side of Unit F

1-S Stucco (Wall) W side of Unit G

No Change 4-13-98

all Sonny N.P.

EMSL Analytical, Inc.

1720 S. Amphlett Blvd., Suite 130
San Mateo, CA 94402
Phone: (650) 570-5401 Fax: (650) 570-5402

EMSL

Attn.: Marc/ Jim
EOS Environmental Inc.
2110 21st Street
Suite #150
Sacramento, CA 95814

Thursday, May 28, 1998

Ref Number: CA982767

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project: CUSD-Chapman Elementary School/ $600

SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBESTOS %	ASBESTOS TYPE	NONASBESTOS %	NONASBESTOS FIBROUS	NONASBESTOS %	NONASBESTOS NONFIBROUS
CHA98423-1STC	Unit E-North East Corner of Wall-(Stucco)	Tan Fibrous Heterogeneous	Crushed		None Detected	5%	Cellulose	35%	Quartz
								20%	Gypsum
								40%	Matrix
CHA98423-2STC	Unit B-West Wall-(Stucco)	Tan Fibrous Heterogeneous	Crushed		None Detected	5%	Cellulose	40%	Quartz
								25%	Gypsum
								30%	Matrix
CHA98423-	Unit F- West Wall-(Stucco)	Tan Fibrous Heterogeneous	Crushed		None Detected	5%	Cellulose	40%	Quartz
								20%	Gypsum
								35%	Gypsum
CHA98423-4STC	Unit G-West Wall-(Stucco)	Tan Fibrous Heterogeneous	Crushed		None Detected	5%	Cellulose	30%	Matrix
								40%	Quartz
								25%	Gypsum

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.

* NY samples also analyzed by ELAP 198-1 Method

Ryan Cozart
Analyst

Approved
Signatory

Disclaimers: PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in part with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All "NVLAP" reports with NVLAP logo must contain at least one signature to be valid. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

Analysis performed by EMSL San Mateo (NVLAP Air and Bulk #101048-3, E-Lap #1620)

EMSL Analytical, Inc

1720 S. Amphlett Blvd., Suite 130, San Mateo, CA 94402
Phone (415) 570-5401 Fax (415) 570-5402 Pager (415) 578-5620

CHAIN OF CUSTODY

EMSL Representative:

Your Company Name: E.O.S. Environmental, Inc.

Street: 2110 21st Street #150

Box #:

City/State: Sacramento, CA Zip 95818

EMSL-Bill to:

Street:

Box #:

City/State: Zip:

Phone Results to: Name Marc / Jim

Telephone #: (916) 452-5884

Fax Results to: Name Marc / Jim

Fax Number: (916) 452-5912

Project Name/Number: CUSD - Chapman Elementary School / 5500

Purchase Order #:

MATRIX

- ☐ Air
- ☒ Bulk
- ☐ Wipe
- ☐ Floor Tile
- ☐ Drinking Water
- ☐ Wastewater
- ☐ Soil
- ☐ Dust

TURNAROUND

- ☐ 6-10 Days
- ☒ 5 Days
- ☐ 72 Hours
- ☐ 48 Hours
- ☐ 24 Hour
- ☐ 12 Hour
- ☐ Same Day*
- ☐ 6 Hours

*S.D. - A.M. delivery by Fed. Ex.-Results by Mid-night or earlier

PCM
- ☐ NIOSH 7400
- ☐ OSHA
- ☐ Other:

PLM
- ☒ EPA 600
- ☐ NOB
- ☐ Point Count
- ☐ Other:

SEM
- ☐ Qualitative
- ☐ Quantitative

TEM AIR
- ☐ AHERA
- ☐ NIOSH 7402
- ☐ Level I
- ☐ Level II

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield
- ☐ Chatfield / SEM QC
- ☐ Conventional (Quantitative)
- ☐ EMSL Method
- ☐ NOB
- ☐ NOB / SEM QC
- ☐ Micro Vac - Quantitative
- ☐ Micro Vac - Qualitative

TEM WATER
- ☐ Wastewater
- ☐ Drinking Water EPA 100.2
- ☐ Water - NY Wastewater
- ☐ Water-NY Drinking Water

TEM WIPE
- ☐ Quantitative
- ☐ Qualitative

XRD
- ☐ Asbestos
- ☐ Silica

OTHER
- ☐

Client Sample # (s) CHA98423-1STC - CHA98423-4STC Total Samples: 4

Relinquished: [signature] Date: 5-19-98 Time: 5:00pm

Received: Date: Time:

Received: Date: Time:

NOTE: Please duplicate this form and use additional sheets if necessary.

EMSL Analytical, Inc

1720 S. Amphlett Blvd., Suite 130, San Mateo, CA 94402
Phone (415) 570-5401 Fax (415) 570-5402 Pager (415) 578-5620

CHAIN OF CUSTODY

Your Company Name: E.O.S. Environmental Inc

Project Name/Number: CUSD - Chapman Elementary School / 5500 **Purchase Order #:**

SAMPLE NUMBER	LOCATION	VOLUME (If Applicable)
CHA98423 - 1STC	Unit E - North East Corner of Wall - (Stucco)	
" - 2STC	Unit B - West Wall - (Stucco)	
" - 3STC	Unit F - West Wall - (Stucco)	
" - 4STC	Unit G - West Wall - (Stucco)	

NOTE: Please duplicate this form and use additional sheets if necessary.

INSPECTOR'S QUALIFICATIONS

DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
ASBESTOS CONSULTANT CERTIFICATION UNIT
2211 Park Towne Circle, Suite 1
Sacramento, CA 95825
(916) 574-2993 FAX (916) 483-0572

608302035C 128 132 September 19, 1997
James Rich
E.O.S. Environmental Inc.
2110 21st Street, Suite 150
Sacramento CA 95818

Dear Certified Asbestos Consultant or Technician:

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

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card.

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

Please inform the Division of any changes in your mailing address or work address within 15 days.

Sincerely,

Rick Axe, CIH
Senior Industrial Hygienist

RA/dor

Attachment

cc: File

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

James M. Rich
Name

[redacted]

Certification No. 96-2035

Expires on 11/8/98

This certification was issued by the Division of Occupational Safety and Health as authorized by Section 7318 et seq. of the Business and Professions Code.

BULK SAMPLE REQUEST FORM

2921

CLIENT NAME & ADDRESS: [redacted]co Unified School District 2[redacted]5 Carmichael Dr. Chico, CA 95928	PHONE: ~~916~~ 530-891-319~~0~~4 FAX: ~~916~~-891-3190	DATE: 6/17/98
	Circle the Method and Turn Around Time ___hr/12hr/24hr/48hr/Ext	Results Needed: 6/19/98 noon by FAX
	PLM: Standard / Point Count	Gravimetry Prep
CONTACT: ~~Rob Peters~~ Ron Jones	TEM: QUAL. / QUANT. / WATER	
P.O.# ~~97-404~~ / JOB #	AA/Flame AA/Furnace ICP METALS:_____	
SITE: Chapman Library		

SAMPLE NUMBER	DATE COLLECTED	SAMPLE LOCATION/DESCRIPTION
CHA--1	6/17/98	Carpet mastic, pad, and mastic
[redacted]		Please analyze carpet mastic, pad, and pad mastic for asbestos using the PLM method, and report by layer.
		Note: Our new area code is 530

Sampled by: Ron Jones Date: 6/17/98 Time: NOON	
Relinquished by: Ron Jones Date/Time: 6/17/98 3:00 P.M.	Received By: Airborne Express Date/Time: 6/17/98 3:00 pm Sealed Condition (circle one) YES / NO
Re[redacted]uished by: Date/Time:	Received By: T. GOODNER Date/Time: 6-18-98 10:30 AM AB Sealed Condition (circle one) YES / NO

Forensic Analytical
Analytical Report

San Francisco 3777 Depot Road, Suite 409, Hayward, CA 94545 Phone 510/887-8828 Fax 510/887-4218

Preliminary FAX

Bulk Asbestos Analysis

(EPA Method 600/R-93-116)

Chico Unified School Dist
Mr. Ron Jones

2455 Carmichael Drive
Chico, CA 95928

Client ID: 2921
Report Number: B001198
Date Received: 06/18/98
Date Analyzed: 06/18/98
Date Reported: 06/22/98

Job ID / Site: Chapman Library

FASI Job ID: 2921-14

Sample Number	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CHA--1	19813259						
Layer: Green carpet			ND				
Layer: Yellow Mastic			ND				
Layer: Green Non-Fibrous Material			ND				

Total Composite Values of Fibrous Components: **Asbestos:(ND)** Cellulose (Trace) Fibrous Glass (ND)

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

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full with approval from Forensic Analytical. The client is soley responsible for the use and interpretation of test results and reports requested from Forensic Analytical. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

BULK SAMPLE REQUEST FORM

2921

T NAME & ADDRESS: Chico Unified School District 2455 Carmichael Dr. Chico, CA 95928	PHONE: ~~916~~ 530-891-3194 FAX: ~~916~~-891-3190	DATE: 6/17/98
	Circle the Method and Turn Around Time ___hr/12hr/24hr/48hr/Ext	Results Needed: 6/19/98 noon by FAX
	PCM: Standard / Point Count	Gravimetry Prep
CONTACT: ~~Robert Peterson~~ Ron Jones	TEM: QUAL. / QUANT. / WATER	
P.O.# ~~97-104~~ / JOB #	AA/Flame AA/Furnace ICP METALS:_____	
SITE: Chapman Library		

SAMPLE NUMBER	DATE COLLECTED	SAMPLE LOCATION/DESCRIPTION
CHA--1	6/17/98	Carpet mastic, pad, and mastic
		Please analyze carpet mastic, pad, and pad mastic for asbestos using the PLM method, and report by layer.
		Note: Our new area code is 530

Sampled by: Ron Jones Date: 6/17/98 Time: NOON

Relinquished by: Ron Jones Date/Time: 6/17/98 3:00 P.M.	Received By: Airborne Express Date/Time: 6/17/98 3:00 P.M. Sealed Condition (circle one) YES / NO
Relinquished by: Date/Time:	Received By: T. GOODNER Date/Time: 6-18-98 10:30 AM AB Sealed Condition (circle one) YES / NO

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

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