ADDITIONAL MANAGEMENT PLAN DATA

SAMPLING PROTOCOL

Where <u>friable surfacing materials</u> were encountered, the following sampling protocol was followed.

- 1. The homogeneous sampling area was divided into nine equal areas.
- 2. Random numbers were taken from a source (EPA's Sampling Strategy Booklet).
- 3. Three samples were collected at or near the center of the selected areas which totaled less than 1,000 square feet, five for 1,000 to 5,000 square feet, and seven or more for friable homogeneous areas greater than 5,000 square feet.

Where non-friable samples were collected, the following sampling protocol was followed:

- 1. <u>Surfacing</u> three or more samples were collected, generally in non-conspicuous locations from each homogeneous material.
- 2. <u>TSI</u> three or more samples were taken from homogeneous materials.
- 3. <u>Miscellaneous</u> one or more samples were taken from miscellaneous materials in a manner sufficient to determine the asbestos content of each homogeneous material.

In some cases materials were <u>assumed</u> to contain asbestos. This was done with materials which <u>always</u> contain asbestos (transite or aircell insulation) or with materials which had been identified as ACBM in a previous survey.

MANAGEMENT PLAN

FOR

- **★** CHICO UNIFIED SCHOOL DISTRICT
- DISTRICT ADMINISTRATION OFFICE
- **★** 1163 EAST 7TH STREET, CHICO 95928

LEA Superintendent: ROBERT W. PURVIS

LEA AHERA Designee: PAUL B. GRAVES

PREPARED BY:

Management Planner (accreditation attached)
Hazard Management Services, Inc.

P. O. Box 7012

Modesto, CA 95355-7012 (209) 577-8209

UNIVERSITY OF CALIFORNIA

SERKELEY SERVENES

UNINERSILL EXTENSION

This is to certify that

James E Sharp

has attended and satisfactorily passed the exam

for the course

Building Inspection and Management Planning for Asbestos

November 16-20, 1987

This certification is valid until:

November 20, 1988

November 18 and 20, 1987

Exam dates

Certificate number



Viviein Sutcher Assistant Dean University Extension

Program Director Pacific Asbestos Information Center

UNIVERSITY OF CALIFORNIA UNIVERSITY EXTENSION BERKELEY

This is to certify that

JAMES E. SHARP

for building inspectors and management planners, has attended the refresher course

Advanced Topics in Building Inspection and Management Planning December 13, 1988

University Extension

Descript Deli-

Pacific Ashestos information Center

Valld until: December 13, 1989

Cerifficate number: 4

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences
BULK ASBESTOS ANALYSIS REPORT

FOR

	- · ·				
	Client: Hazard Management Services, Inc.	Reno	ent Number ort Number e Received	:	146 7109 '88
	P.O. Box 7012 Modesto, CA 95355	Date	e Examined	1: 04/09/ 	/88
	Lab Number: 8809481 Sample Number: DO-01A Site: District Office			Analyst:	MF
	Location: Main Entrance hallway - hard pl	laster	wall.		
	P.O.: District Office, Chico Unified Scho				
	Gross Description: Off white plaster-like	materi	al.		
	CRITRATON				
)	MICROSCOPIC DESCRIPTION:				
	TOTAL ASBESTOS PRESENT:		0	<1	%
	Chrysotile	<1	90		
	Amosite	<1	%		
	Crocidolite	<1	8		
	TOTAL NON-ASBESTOS FIBROUS MATERIAL PRES	ENT:		1-5	ય
	Cellulose	* ~	%		
	Mineral Wool	<1	%		
	Polyethylene	<1	%		
	-		·	05.00	94
	TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL	PRESENT	Γ:	95-99	70
	Unspecified Particulates				
	Gypsum	40-45	ુ અ		
			8		
	Analyst: Whele Fox		pervisor:	<u>De</u>	
		tht Mic	roscopy W	ith Disp	ersion
	COMMENTS: Analysis employs Polarized Lig Staining, and is performed by an analyst	qualif	ied under	the EPA	bulk
	Staining, and is performed by an analyst asbestos proficiency testing program. So	amples	with no o	oservabl	e percent
,	asbestos proficiency testing program. So asbestiform minerals are designated as complete in which asbest	ontaini	ng less t	nan one ave been	op-
	asbestiform minerals are designated as constant (<1%) asbestos. Samples in which asbest	iform m	inerais n	cent (<1	%) are
			m one her	Juliu (,
	designated as present in "trace" amounts				

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences
BULK ASBESTOS ANALYSIS REPORT

FOR

Client: Hazard Management Services, Inc.	Repor	t Number: t Number: Received:		7109
P.O. Box 7012 Modesto, CA 95355	Date	Examined	: 04/09/ 	88
Lab Number: 8809482 Sample Number: DO-01B Site: District Office		A	nalyst:	MF
Location: Hallway near Mail Boxes - hard				
P.O.: District Office, Chico Unified Sch				
Gross Description: Off white plaster-like	e material	. ·		
MICROSCOPIC DESCRIPTION:				
			<1	26
TOTAL ASBESTOS PRESENT:	<1	ૡ	-1	J
Chrysotile	<1	%		
Amosite	<1	9		
Crocidolite		જ		
THE PROOF WARRENT AT PRES	ENT:		1-5	%
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRES	1-5	%		
Cellulose	< 1	%		
Mineral Wool	<1	%		
Polyethylene		જ		
TARRANG WAREDIAL	PRESENT:		95-99	%
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL	50-55	%		
Unspecified Particulates	40-45	્ર		
Gypsum		^{બુ}		
		%		
Analyst: ///chelle	Supe	rvisor:	<u> </u>	_
	aht Micro	scopy wi	th Dispe	ersion
Staining, and is performed by an analyst asbestos proficiency testing program. S	amples wi	th no ob	servable)
asbestos proficiency testing program. S asbestiform minerals are designated as of	ontaining	less therals ha	an one] ve been	op- bergeng

(<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences BULK ASBESTOS ANALYSIS REPORT

FOR				
Client: Hazard Management Services, Inc.	Repor	t Number: t Number: Received:	/ 04/05/8	109
P.O. Box 7012 Modesto, CA 95355	Date	Examined: 	04/09/8 alyst: 1	38
Lab Number: 8809483 Sample Number: DO-01C Site: District Office		An	raryse, ,	
Location: Staff Room - hard plaster wal	1.			
P.O.: District Office, Chico Unified Sc	hool Distr	rict.		
Gross Description: Off white plaster-lik	e material	L .		
MICROSCOPIC DESCRIPTION:				
			<1	રુ
TOTAL ASBESTOS PRESENT:	<1	%		
Chrysotile Amosite	<1	o,o		
Crocidolite	<1	9		
THE WARRENT AT PRE	SENT:		1 - 5	%
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRE	1-5	98		
Cellulose Mineral Wool	<1	% %		
Polyethylene	<1	6 %		
TOTAL NON-ASBESTOS NON-FIBROUS MATERIA	L PRESENT:		95-99	%
TOTAL NON-ASBESTOS NON-FIBROGO MITTAGES Unspecified Particulates		96		
Gypsum	40-45	9,6 9,6		
G y p 3 d iii		9,		
Analyst: Molle Fox	_	ervisor:	<u>De</u>	 reion
COMMENTS: Analysis employs Polarized I Staining, and is performed by an analysis asbestos proficiency testing program. asbestiform minerals are designated as (<1%) asbestos. Samples in which asbestived, but exist in concentrations of designated as present in "trace" amount	Samples W containin stiform mi less than	ith no ob g less th	an one E ve been	ercent ob-

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences BULK ASBESTOS ANALYSIS REPORT

FOR				
Client: Hazard Management Services, Inc. P.O. Box 7012	Repor Date	t Number Received	:: :: 1: 04/05/ 1: 04/09/	7109 88
Modesto, CA 95355	Date 		- -	
Lab Number: 8809484 Sample Number: DO-01D Site: District Office		I	Analyst:	MF
Location: Custodial Room (main hallway) - hard p	laster wa	all.	
P.O.: District Office, Chico Unified S	chool Dist	rict.		
Gross Description: Off white plaster-li	ke materia	1.		
DECENTARY DECENTRATION.				
MICROSCOPIC DESCRIPTION:				
			<1	%
TOTAL ASBESTOS PRESENT:	<1	્ર	• •	·
Chrysotile	<1	%		
Amosite	<1	%		
Crocidolite	•	જ		
TOTAL NON-ASBESTOS FIBROUS MATERIAL PR	ESENT:		1-5	૪
Cellulose	1-5	%		
Mineral Wool	< 1	%		
Polyethylene	<1	%		
101100111000		%		
	r porcrum.		95-99	%
TOTAL NON-ASBESTOS NON-FIBROUS MATERIA	55-60	%	• -	
Unspecified Particulates	35-40	%		
Gypsum	25 46	8		
		જ		
N). I In Cherry	Suna	rvisor:	20	
Analyst: 1/1chelle	·			
COMMENTS: Analysis employs Polarized	.iaht Micro	scopy Wi	th Dispe	rsion
COMMENTS: Analysis employs Polarized Staining, and is performed by an analy	st qualifie	d under	the EPA	bulk
Staining, and is performed by an analy asbestos proficiency testing program.	Samples Wi	th no ob	servable	:
asbestos proficiency testing program. asbestiform minerals are designated as	containing	less th	ian one p	sercer
asbestiform minerals are designated as (<1%) asbestos. Samples in which asbe	stiform min	erals ha	ave been	0D-
TALAT GOUGOGOOF TAMETTE .		ANA MAYO	• A D T (C) ?	. J CLL 1

(<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences
BULK ASBESTOS ANALYSIS REPORT

FOR

Client: Hazard Management Services, Inc.	Report	eceived:	7 04/05/8	0
P.O. Box 7012 Modesto, CA 95355	Date E	Examined:	: 04/09/8 -	. – <i>– –</i>
Lab Number: 8809485 Sample Number: DO-01E Site: District Office		Aı	nalyst: 1	11
Location: Admin. Services - hard plaster	wall.	٠ 		
P.O.: District Office, Chico Unified Scho	ool Distr	TCC.		
Gross Description: Off white plaster-like	material	•		
MICROSCOPIC DESCRIPTION:				
			<1	3
TOTAL ASBESTOS PRESENT:	<1	0,0		
Chrysotile Amosite	<1	010 010		
Crocidolite	<1	6 %		
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRES Cellulose Mineral Wool Polyethylene	ENT: 10-15 <1 <1	o o o o o o o o o o o o o o o o o o o	10-15	35
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL Unspecified Particulates	PRESENT: 85-90	০ ০ ০ ০ ০ ০ ০ ০ ০ ০ ০ ০ ০ ০ ০ ০ ০ ০ ০	85-90	9,
TY) challe Fox	Supe	rvisor:	<u> </u>	 -
Analyst:	ght Micro qualifie amples wi ontaining iform min	scopy wi d under th no ob less th	th Dispe the EPA servable an one p	ercen

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences BULK ASBESTOS ANALYSIS REPORT

146

FOR

Client: Hazard Management Services, Inc. P.O. Box 7012	Repor Date	nt Number: t Number: Received: Examined	: : 04/05/3 : 04/09/	7109 38 88
Modesto, CA 95355		A	nalvst:	 MF
Lab Number: 8809486 Sample Number: DO-01F Site: District Office		11		
Location: Main Hallway - hard plaster wal	L1.			
P.O.: District Office, Chico Unified Scho				
Gross Description: Off white plaster-like	materia	11.		
MICROSCOPIC DESCRIPTION:				
MICROSCOPIC DESCRIPTION:			1	%
TOTAL ASBESTOS PRESENT: Chrysotile	<1 <1	>\ ? \	<1	•
Amosite Crocidolite	<1	960 040		
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESI Cellulose Mineral Wool Polyethylene	ENT: 1-5 <1 <1	0,0 0,0 0,0 0,0	1-5	8
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL Unspecified Particulates	PRESENT: 95-99	510 g/o g/o g/o	95-99	9, 6
Analyst: Michelle Fox		ervisor.	<u> 200</u>	
COMMENTS: Analysis employs Polarized Lice Staining, and is performed by an analyst asbestos proficiency testing program. So asbestiform minerals are designated as converted to the content of the conten	amples wontainin iform mi ess thar	ith no ob ng less th	servable lan one E lve been	ercent ob-

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences
BULK ASBESTOS ANALYSIS REPORT

FOR	
Client: Hazard Management Services, Inc.	Client Number: 146 Report Number: 7109 Date Received: 04/05/88
P.O. Box 7012 Modesto, CA 95355	Date Examined: 04/09/88 Date Examined: MF
Lab Number: 8809487 Sample Number: DO-01G Site: District Office	
Location: Basement - hard plaster wal	l.
P.O.: District Office, Chico Unified	School piscilou.
Gross Description: Off white plaster-l	ike material.

MICROSCOPIC DESCRIPTION:				
			<1	%
TOTAL ASBESTOS PRESENT:	<1	્ર		
Chrysotile	<1	જ		
Amosite	<1	ય		
Crocidolite	- -	%		
			1-5	%
TOTAL NON-ASBESTOS FIBROUS MATERIAL P	KERPNI:	8		
TOTAL NON-ADDIOISE		96		
Cellulose	< 1			
Mineral Wool	< 1	%		
Polyethylene		ય		
NON FIRROIS MATERI	AL PRESEN	т:	95-99	9,0

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT: 95-99

Unspecified Particulates 75-80 %
Gypsum %

Analyst: Supervisor: Dic

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are served, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences BULK ASBESTOS ANALYSIS REPORT

F	OR				
Client: Hazard Management Services,	1110.	Report	eceived	: : 04/05/	00
P.O. Box 7012 Modesto, CA 95355		Date E -		: 04/09/	
Lab Number: 8809488 Sample Number: DO-02 Site: District Office				nalyst:	MI
Location: Main Entrance Hall	way - acoustic	ceiling	g tile.		
P.O.: District Office, Chico	Unified School	Distr	ict.		
Gross Description: Off white	fibrous ceiling	g tile.			
MICROSCOPIC DESCRIPTION:					
TOTAL ASBESTOS PRESENT:				<1	ર
Chrysotile	<1 <1		o, o •,,		
Amosite Crocidolite	<1		જ જ		
			6	90-95	ø,
TOTAL NON-ASBESTOS FIBROUS M	ATERIAL PRESENT	: 7-95	%	90-93	Ÿ
Cellulose Mineral Wool	<1	-	%		
Polyethylene	<:	1	% %		
TOTAL NON-ASBESTOS NON-FIBRO Unspecified Particulate	OUS MATERIAL PR S 5	ESENT: -10	ور ور ور ور	5-10	9.5
Analyst: Whole			visor:		
COMMENTS: Analysis employs Staining, and is performed b asbestos proficiency testing asbestiform minerals are des (<1%) asbestos. Samples in served, but exist in concent	program. Same signated as con- which asbestife crations of less	oles witaining	th no of less th	oservabi nan one ave been	e percent ob-

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences BULK ASBESTOS ANALYSIS REPORT

FOR		
Client: Hazard Management Services, Inc. P.O. Box 7012	Report Numi	per: 146 per: 7109 yed: 04/05/88 ned: 04/09/88
Modesto, CA 95355		Analyst: MF
Lab Number: 8809489 Sample Number: DO-03 Site: District Office		
Location: Superintendants Office -	acoustic celling Ci	16.
P.O.: District Office, Chico Unifie	d School District.	
Gross Description: Off white fibrous	ceiling tile.	
MICROSCOPIC DESCRIPTION:		
		<1 %
TOTAL ASBESTOS PRESENT:	<1 %	
Chrysotile Amosite	<1 % % % % % % % % % % % % % % % % % % %	
Crocidolite	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL	, PRESENT: 90-95 %	90-95 %
Cellulose	90-95 ° <1	
Mineral Wool	<1 %	
Polyethylene	9,0	
TOTAL NON-ASBESTOS NON-FIBROUS MATE Unspecified Particulates	ERIAL PRESENT: 5-10 % % %	5-10 %
Analyst: Micholle	Superviso	
Analyst: COMMENTS: Analysis employs Polariz Staining, and is performed by an arm asbestos proficiency testing programs asbestiform minerals are designated (<1%) asbestos. Samples in which served, but exist in concentration	am. Samples with no das containing les asbestiform mineral s of less than one	s than one percen

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences
BULK ASBESTOS ANALYSIS REPORT

FOR

2				
Client: Hazard Management Services, Inc.	Repor	t Number t Number Received	: : 04/05/	00
P.O. Box 7012 Modesto, CA 95355		Becominad	, a4/a9/	88
Lab Number: 8809490 Sample Number: DO-04 Site: District Office			nalyst:	Mr
Location: Duplicating Center - 12" VFT,	multi-co	lored.		
P.O.: District Office, Chico Unified Sch	nool Dist	rict.	llor	
Gross Description: Multicolored floor til adhesive.	le assoc.	with yea	LIOM	
MICROSCOPIC DESCRIPTION:				
TOTAL ASBESTOS PRESENT:			< 1	ય
Chrysotile	<1	96 96		
Amosite	<1	ં ૄ		
Crocidolite	<1	8		
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRES	SENT:		Trace	%
TOTAL NON-ASBESTOS FIBROOD IMITEDIA	Trace	%		
Cellulose	< 1	%		
Mineral Wool	<1	%		
Polyethylene		%		
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL	PRESENT:		98-99	જ
TOTAL NON-ASBESTOS NON-FIBROGS IMPERIOR	98-99	%		
Unspecified Particulates		910 910		
Michalle J Ex	Sup	ervisor:	<u>Do</u>	
COMMENTS: Analysis employs Polarized Li		 occopy Wi	th Dispe	ersion
COMMENTS: Analysis employs Polarized Li	rgne micr Faualifi	ed under	the EPA	bulk
craining and is deliberated by an are		ath no of	~<& ~ V A D L ·	e
ashestos proficiency testing proje		~ less ti	han one	Dercen.
achectiform minerals are designed		marale h	ave been	. OD-
(<1%) asbestos. Samples in warden of	less than	one per	cent (<1	رة) are
served, but exist in concentrations of designated as present in "trace" amount	s.			
designated as present in trace				.

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences BULK ASBESTOS ANALYSIS REPORT

FOR

-	•				146
Client: Hazard Management Services,	11.0.	Report	Number: Number: eceived:	04/05/	7109 88
P.O. Box 7012 Modesto, CA 95355		5 - 5 - E	vamined:	04/09/	88
			An	alyst:	MF
Lab Number: 8809491 Sample Number: DO-05 Site: District Office					
Location: Computer Room - ac	oustic ceiling	tile.			
P.O.: District Office, Chico	Unified School	Distr:	ict.		
Gross Description: Off white	fibrous ceiling	g tile.			
MICROSCOPIC DESCRIPTION:					.
1110N00000					.,
				< 1	ઝ
TOTAL ASBESTOS PRESENT:	< 1	=	%		
Chrysotile Amosite	<1		glo ais		
Crocidolite	<1	L	٠ %		
0100143111	1		٥		
	AMPOTAL PRESENT	Γ:		90-95	3/5
TOTAL NON-ASBESTOS FIBROUS M	90	ð-95	%		
Cellulose	<	1	%		
Mineral Wool	<	1	%		
Polyethylene			%		
	DD	acenm.		5-10	%
TOTAL NON-ASBESTOS NON-FIBRO	OUS MATERIAL PR	_10	8		
Unspecified Particulat	es ⁵	-10	%		
•			9,		
			%		
1					
NI) A CC	1 tan		rvisor: .	عالم	
Analyst:	717				
			scopy Wi	th Disp	ersion
COMMENTS: Analysis employs Staining, and is performed by	Polarized Light	nalifie	d under	the EPA	bulk
and is performed t	y an anari i		+ h na ab	servabl	e
	,		1668 TN	an one	PC#0-
			awale ha	ve been	. 00
(<1%) asbestos. Samples in served, but exist in concent	trations of les	s than	one perc	ent (<1	91 atc
	race" amounts.				 .

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences BULK ASBESTOS ANALYSIS REPORT

TO D

FOR				
	Clien Repor Date	Received	(; 04/05/0	20
P.O. Box 7012 Modesto, CA 95355	Date		1: 04/09/	
Lab Number: 8809492 Sample Number: DO-06 Site: District Office			Analyst:	MI
Location: Computer Room Office - 9" VFT,			ng.	
P.O.: District Office, Chico Unified Sch	nool Distr	rict.		
Gross Description: Off white floor tile a adhesive (Asbestos in	assoc. Wit tile only	th black	tar	
MICROSCOPIC DESCRIPTION:				.
			1-5	ર
TOTAL ASBESTOS PRESENT:	1-5	ું		
Chrysotile Amosite	<1	%		
Crocidolite	<1	oto oto		
TOTAL PRES	ENT:		Trace	ર
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRES	Trace	8		
Cellulose Mineral Wool	<1	%		
Polyethylene	<1	%		
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL Unspecified Particulates	PRESENT: 95-99	৯০ ৯ ০ ৯ ০ ৯০	95-99	ò
Analyst: 1) chelle For		rvisor:	<u>D</u>	
COMMENTS: Analysis employs Polarized Li Staining, and is performed by an analyst asbestos proficiency testing program.	Samples Wi	th no o	ith Dispe the EPA bservable han one p	

asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are

asbestos proficiency testing program. Samples with no observable

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences
BULK ASBESTOS ANALYSIS REPORT

FOR

Client:	Clier	nt Numbe	r:	146
Hazard Management Services, Inc.	Repoi	ct Numbe	r:	7109
P.O. Box 7012	Date	Receive	d: 04/05/ d: 04/09/	/ 88 / 88
Modesto, CA 95355				
Number: 8809493			Analyst:	MF
Sample Number: DO-07A Site: District Office				
Location: Basement Crawl Area - TSI,				
P.O.: District Office, Chico Unified		rict.		
Gross Description: Off white fibrous	wrap.			
-				
MICROSCOPIC DESCRIPTION:				
			80-85	26
TOTAL ASBESTOS PRESENT:	80-85	્ર	Q0 .55	
Chrysotile	<1	%		
Amosite Crocidolite	<1	જ		
CLOCIDOTICA		%		
TOTAL NON-ASBESTOS FIBROUS MATERIAL	PRESENT:		1-5	ઢ
Cellulose	1-3	%		
Mineral Wool	< 1	ર્જ		
Polyethylene	<1	06 04		
		· ·		ૄ
TOTAL NON-ASBESTOS NON-FIBROUS MATER	IAL PRESENT:	_	10-15	6
Unspecified Particulates	10-15			
		%		
		06 06		
		•		
\wedge				
Michelle Stox) Supe	ervisor:	<u> </u>	
Analyst: Nichelle Fox		ervisor:		
	 : Tiabt Micro	scopy W	ith Dispe	rsic
COMMENTS: Analysis employs Polarized	Light Micro	scopy W	ith Dispe the EPA	ersic
COMMENTS: Analysis employs Polarized Staining, and is performed by an analasbestos proficiency testing program	Light Micro	oscopy Wied under ith no of less t	ith Dispe the EPA bservable han one p	erce
COMMENTS: Analysis employs Polarized	Light Micro	oscopy Wied under ith no of less t	ith Dispe the EPA bservable han one p	erce

(<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences
BULK ASBESTOS ANALYSIS REPORT

FOR

Client: Hazard Management Services, Inc.	Client Number: 146 Report Number: 7109
P.O. Box 7012 Modesto, CA 95355	Date Received: 04/05/88 Date Examined: 04/09/88
Lab Number: 8809494	Analyst: MF

Sample Number: DO-07B Site: District Office

Location: Basement Crawl Area - TSI, mudded joint.

P.O.: District Office, Chico Unified School District.

Gross Description: Off white fibrous powder.

MICROSCOPIC DESCRIPTION:				
TOTAL ASBESTOS PRESENT: Chrysotile Amosite Crocidolite	5-10 1-5 <1	ato ato ato	10-15	ő
TOTAL NON-ASBESTOS FIBROUS MATERIAL I Cellulose Mineral Wool Polyethylene	PRESENT: 1-5 <1 <1	৩ ^{০০} ৩ ^{০০} ০০	1 – 5	%
TOTAL NON-ASBESTOS NON-FIBROUS MATER Unspecified Particulates Perlite Diatoms	IAL PRESENT: 10-15 35-40 25-30	0,0 0,0 0,0 0,0	80-85	P.V.

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences
BULK ASBESTOS ANALYSIS REPORT

FOR

2 4 - ·				
Client: Hazard Management Services, Inc.	Client	: Number	:	146
Hazard Management Services, 200	Report	: Number	•	7105
7010	Date F	≀eceived	: 04/05/	ಶಶ
P.O. Box 7012	Date 1	Examined	: 04/09/	88
Modesto, CA 95355			nalyst:	
Lab Number: 8809495		A	liarysc:	114
Sample Number: DO-07C				
Site: District Office				
Location: Basement Crawl Area - pipe	wrap debris.			
		ict		
P.O.: District Office, Chico Unified		100.		
Gross Description: Off white fibrous p	oowder.			
MICROSCOPIC DESCRIPTION:				
MICROSCOPIC DESCRIPTION:				
			25-35	9,
TOTAL ASBESTOS PRESENT:	45 20	%		_
Chrysotile	15-20	8		
Amosite	10-15	6 %		
Crocidolite	<1	*5		
 -		6		
TOTAL NON-ASBESTOS FIBROUS MATERIAL P	RESENT:		1-5	ું
TOTAL NON-ASBESTOS FIBROUS MAIDALIS	1-5	%		
Cellulose	<1	9,6		
Mineral Wool	<1	એ		
Polyethylene		જુ		
			60-65	9
TOTAL NON-ASBESTOS NON-FIBROUS MATER	IAL PRESENT:	%	00 0-	
Unspecified Particulates	10 10	° 6		
Perlite	15-20	o og		
Diatoms	25-30	%		
	_	6		
	_			
	Ø Sunei	cvisor:	DE	
Analyst: 1/1chew			 _	
COMMENTS: Analysis employs Polarized	right Micros	scopy Wi	th Dispe	rsi
COMMENTS: Analysis employs Polarized	wat qualifie	d under	the EPA	bul
Staining, and is performed by an anal	yst quarred.	th no ob	servable	:
asbestos proficiency testing program.	nampies un nontainina	less th	ian one p	erc
Staining, and is performed by an analassbestos proficiency testing program. asbestiform minerals are designated a	Samples wi as containing	less th	Jan one b	er

asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are

FORENSIC ANALYTICAL SPECIALTIES INC. - ASBESTUS ANALISIS LABURATURI REQUEST FURT AMPLES

3777 Depot Rd: Suite 408 Hayward, Ca. 94545 (415) 887-8828

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BULK

of

4-1-88 date % Asbestos 9 \$ Page 04,00 School District Chico Units District or Business Sent to Lab by: boxes Bldg_ +1- colore F1.00 main MATERIALS/LOCATION Date Bill To: P.O. Box 7012, Modesto, Ca 95355 HAZARD MANAGEMENT SERVICES, INC Center Mail D LAB Request: % Asbestos By PLM l V Services Fatrance May room 19570 45+00 Entrans 20/25/10 Plaster 17/aster 125/01 1,719 room Suppriated Billing Address: L: 13a semen L: Ourheat M. acoustic Collected by: A: ALOUS L: Custod L: Staff L: Main Hard HALL N: Hard M: Haca X: Hare N: Hard ". Hard 爿 Report Number page Yo Date/Time/By Date Rec'd 310-00 DO-014 DO-01 B 00-00 30-01F D0-01C 00-01 D 70-CC 00-03 70-00 Sample #HMS-Reported Results Client Number Received By FASI Lab#

FORENSIC ANALYTICAL SPECIALTIES INC. - ASBESIUS ANALISIS LABURAIUKI KEUUESI FUKIT AMPLES

3777 Depot Rd: Suite 408 Hayward, Ca. 94545

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Jo K

(415) 887-8828

88-1-1 date % Asbestos 88 25-35 10-15 \$ 80.5 District or Business School (1), 5 + 11, ct Sent to Lab by: Backing Bldg MATERIALS/LOCATION P.O. Box 7012, Modesto, Ca 95355 Billing Address: Date HAZARD MANAGEMENT SERVICES, INC LAB Request: % Asbestos By PLM "ran Ceiling Room roomM: TSI - DiDO L: Com outer Pasement 116 L: Racemen L: Basement : Computer N: acoustic Collected by: 1:020 L Bill To: 岩 نہ ج ۳i ت ت آبج Ë Report Number page No Date/Time/By Date Rec'd D0-00 20-00 00-078 D0-074 90-00 Sample #HMS-Reported Results Client Number Received By FAST Lab#

Dear Local Educational Assistance Official:

Forensic Analytical Specialties, Inc., in accordance with the Asbectos Hazards Emergency Response Act, has received Accredited Laboratory status for the purpose of analyzing suspected asbestos-containing materials in schools. Verification of this accreditation can be found in the Federal Register/Vol. 53, No. 169/August 31, 1988, page 33611.

The analysis of each sample received by our laboratory becomes the responsibility of one of our qualified microscopists. Different samples within a single group or in different groups submitted by the same client may be assigned to different analysts. In order to simplify the reporting process, the analyst responsible for each sample is listed by initials in the upper right-hand corner of each report and the report is signed solely by the lab supervisor. To satisfy any questions regarding signatures рA each analyst involved in characterization, listed below are the signatures corresponding to the analyst's initials which you may find on your particular set of reports:

<u>Initials</u>	Analyst Name	Analyst Signature
вв	Brent Beadnell	Brent Breezewill
MF	Hichelle Fox	Michelle Jop
DK	David Kahane	David N. le
JM	Jeff Malaihollo	rffrey f. A. Mithoritell -
DN	David Nesbitt	J. History
SAS	Stephen A. Shaffer	Style Chaffy
вт	Boyd Taylor	Bopl Julia

I hope that this additional information will help clarify any issues regarding laboratory result reporting practices under AHERA. We wish you good luck in the effective implementation of your Hazard Management Plan.

Sincerely,

David Kahane

Director of Environmental Services Forensic Analytical Specialties, Inc.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20160

UNITED STATES ENVIRONME

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7220

Stephen A. Shaffer Forensic Analytical Specialties, Inc. 3777 Depot Road Suite 408 Hayward, CA 94545

SUBJECT: EPA Interim Laboratory Accreditation for Laboratories Which Offer Analysis of Bulk Samples for Asbestos

Dear Laboratory Director:

The U.S. Environmental Protection Agency (EPA) has completed its review of the results of the second round of analyses in the EPA "Interim Asbestos Bulk Sample Analysis Quality Assurance Program." I am pleased to inform you that your laboratory has successfully classified each of four bulk samples submitted to your facility as either asbestos-containing or nonasbestos-containing. Since each sample was correctly classified, a status of "accredited" has been assigned to your laboratory. As you are aware, each laboratory is also given a numerical score which does not affect your accredited status. The numerical score reflects your laboratory's performance in determining the quantity and type of asbestos in the asbestos-containing samples. Your laboratory's score is 100%.

As announced in the FEDERAL REGISTER of March 29, 1988 (see enclosed copy), the second round of the EPA Interim Program is the last planned round of EPA accreditation. Laboratories which are accredited in the second round of this program will be considered accredited until January 12, 1989. The National Bureau of Standards (NBS) will begin formal operation of the National Voluntary Laboratory Accreditation Program (NVLAP) for laboratories which conduct analyses of bulk samples for asbestos by golarized light microscopy (PLM) in October 1943. Applications for participation in this program are currently being accepted. You may contact Dr. Larry Gallowin of MBS at (301)975-4022 for encollment information. An exception to the EPA deadline of January 12, 1989 has been made for laboratories which are accredited in the second EPA round and have encolled in the NUS program by September 1d, 1988. These laboratories will be considered accredited by EPA until MBS has completed its first evaluation of an individual laboratory's performance. The enclosed copy of the FEUERAL REGISTER notice details the period of transition from EPA accreditation to NBS accreditation. Please note that a laboratory currently accredited by EPA much enter the NBS program and receive accreditation from MBS to continue analysis of bulk samples from school buildings.

Should you have any questions regarding the current EPA round of accreditation, you may contact Bruce Harrey of Research Triangle Institute at (919)541-6369. Thank you for your participation in the program.

Sincerely,

Martin P. Halper, pfrector

Exposure Evaluation Division (TS-793)

HMS, Inc.

HAZARD MANAGEMENT SERVICES, INC. 209-577-8209

DATE: May 4, 1988

TO: Asbestos Hazard Emergency Response Act (AHERA) Clients

FROM: James E Sharp, President

RE: Adjusted Asbestos Inspection Schedule

This is an update on HMS, Inc.'s schedule to inspect your school facilities for asbestos in compliance with the Environmental Protection Agency's Asbestos Hazard Emergency Response Act (AHERA). As you know there have been several interpretations of the rules which have caused delays. Since both the EPA and the Office of Local Assistance regulate how the inspections are to be conducted and how the management plans are to be submitted, we have maintained constant communications with both agencies. I think they have their act together now.

Another factor which has caused delay is the add-ons we have experienced in over half of the districts we have inspected. The AHERA regulation says that <u>all</u> buildings owned, leased, or otherwise used as school buildings shall be inspected. This includes district offices, maintenance buildings, bus garages, dormitories, nightwatchmen's homes (if owned by the school), outdoor education facilities, etc. If you own buildings that are abandoned or leased out to others, you do not have to inspect them unless you use them for storage or if any maintenance or custodial personnel provide services there. Of course, if you plan to reoccupy a site, you must inspect it thirty days prior to reoccupancy. Please carefully evaluate your sites so we can accurately anticipate the time and personnel necessary to keep our schedules.

Many of you have already sent in your SP-1A's or similar drawings. We use these to evaluate the time and personnel necessary to complete a districts inspections. I'm sure you are aware that many of these drawings are old and inaccurate. Usually, there have been portables added (sometimes removed), but the add-ons must be inspected. One or two additional portables have little impact, but one district had seventeen extra portables. Of greater impact is the addition of maintenance facilities, outdoor education centers, or other sites which you may not think need to be inspected. Please evaluate all the facilities within your district's uses so that we know, in advance, how to plan our time.

Below you will find a current schedule for our AHERA inspections.

HMS, Inc.

HAZARD MANAGEMENT SERVICES, INC. 209-577-8209

TO: AHERA Clients

FROM: James E Sharp, President

Hazard Management Services, Inc.

DATE: July 11, 1988

RE: OLA-AHERA Forms

Within the past few days you have received from the Office of Local Assistance copies of the AHERA MANAGEMENT PLAN REQUIRED FORMS. These long-awaited forms will now enable us to complete your asbestos inspection and management plan reports. It will be necessary for you to complete the first two sections of the AHERA General Data Form A for each site in your District. Then you must send these forms to HMS, Inc. immediately (no later than July 30, 1988).

You will have to make copies of this form so that you complete one for each site. For instance, if you have four separate schools, a district office, a maintenance yard, a bus garage and, perhaps, a separate Special Ed site, you would have to complete eight of the Form A sheets.

You must complete the <u>GENERAL DATA</u> section of the sheet which includes the name of the LEA, the school name, address and phone number, its CDS code, its enrollment and the number of school employees. Hazard Management Services, Incorporated (HMS, Inc.) will complete the number of buildings at each site.

In the <u>LEA AHERA DESIGNEE</u> section you must name the person who will be in charge of your ongoing management plan. You must complete the designee's name, address and phone number. HMS, Inc. will complete the designee's training data.

HMS, Inc. will complete the remainder of the OLA Management Plan (FORMS B-H). In order to tailor the data for your district we will be in contact with you or your AHERA designee. As soon as we complete the forms, they will be returned to you for appropriate signatures so that you can send them to the Office of Local Assistance.

If you have not received these forms please call David Smith of OLA at (916) 445-5177. If you still have questions, please call HMS, Inc. at (209) 577-8209 in Modesto or (916) 723-4350 in Sacramento.

Please complete your sections of Form A and send it to HMS, Inc. immediately. Thank you.

HMS, Inc.

HAZARD MANAGEMENT SERVICES, INC. 209-577-8209

TO: AHERA Clients

FROM: James E Sharp, President

Hazard Management Services, Inc.

DATE: July 11, 1988

RE: AHERA-required School Documents

Hazard Management Services, Incorporated (HMS, Inc.) has been unable to secure certain documents from many of our clients which are needed to develop AHERA management plans. Perhaps we have been asking the wrong people because it has become evident in many schools that previous inspections and asbestos abatement projects have occurred but we have not received records which document these activities.

In order for your AHERA management plan to be correctly completed records of <u>asbestos inspections</u> and <u>asbestos abatement activities must</u> be included. Under 40 CFR Part 763 of AHERA the following documentation of asbestos-related activity prior to December 14, 1987 is required:

- 1. Date of inspection;
- 2. Location and square or linear footage of sampled material;
- Laboratory analysis report;
- 4. Records of any abatement work undertaken. These abatement records should include, if applicable, the names and addresses of contractors, start and completion dates of the work, and air sampling analysis reports.

If your district has undertaken any abatement activities <u>since</u>
<u>December 14, 1987</u>, then you must have all abatement related documentation required by AHERA under Section 763.94. Your records should include the following:

- Description of action and method used;
- Location of the abatement activity;
- 3. Reasons for selecting the measure or action;
- 4. Start and completion dates of the work;
- Names and addresses of all contractors;
- 6. Contractor certification and accreditation documentation;

TO: AHERA Clients DATE: July 11, 1988

RE: AHERA-required School Documents

Page Two

- 7. Name and location of waste disposal site (waste manifest);
- 8. Name and signature of person(s) doing clearance air sampling;
- 9. Dates and locations of air samples;
- 10. Laboratory report including a statement that the laboratory meets the applicable requirements of AHERA.

All districts were required to maintain records of inspections for asbestos that were done to satisfy the Asbestos-in-Schools rule of May 27, 1932. We ask that you send us copies of these records so that we may incorporate them into the management plan as required. Send us, also, copies of your records documenting abatement activity prior to and after December 14, 1987. If you have no records, please notify us in writing.

Thank you for your cooperation. If you have any questions regarding these records or other AHERA-related matters, please feel free to call us at (209) 577-8209.

Send copies of records to P.O. Box 7012, Modesto, CA 95355-7012. Sincerely,

Shirley Cartwright Project Coordinator

jrs

DATE: August 15, 1988

FROM: James E Sharp, President, Hazard Management Ser-

vices, Incorporated (HMS, Inc.)

TO: AHERA Clients

RE: LEA AHERA Designee

Thank you for sending your OLA AHERA forms to us. Those districts which have not yet selected an LEA AHERA Designee, please notify our office as soon as you have made your decision. Remember, this should be the person in charge of asbestos matters for the entire district. The most common selections are superintendents, assistant superintendents in charge of business, and heads of maintenance. Once again, please make this decision soon and notify our office promptly. We strongly recommend your LEA AHERA Designee attend the two-hour training program (mandatory for all maintenance and custodial personnel) which will be taking place soon.