

Forensic Analytical Specialties, Inc.

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences

BULK ASBESTOS ANALYSIS REPORT

Client: FOR
Hazard Management Services, Inc.

P.O. Box 7012
Modesto, CA 95355

Client Number: 146
Report Number: 7271
Date Received: 04/09/88
Date Examined: 04/16/88

Lab Number: 8810453

Sample Number: PVH-20

Analyst: MF

Site: Pleasant Valley High - Chico Unified School District.

Location: Unit "E" - Room #41, 9" vinyl floor tile (beige).

P.O.: Pleasant Valley High - Chico Unified School Dist.

Gross Description: Off-white floor tile.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	Trace	%	Trace	%
Amosite	<1	%		
Crocidolite	<1	%		

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	Trace	%	Trace	%
Mineral Wool	<1	%		
Polyethylene	<1	%		

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	98-99	%	98-99	%
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Analyst: Michelle Fox

Supervisor: de

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.

Client Number Report Number
 Received By Date Rec'd
 Billing Address: HAZARD MANAGEMENT SERVICES, INC.
Bill To:
P.O. Box 7012, Modesto, Ca 95355
District or Business
School Pleasant Valley High
OR
Bldg
CHICO UNIFIED SCHOOL DIST.

Reported Results Date/Time/By
 Collected by: R.B. Date 3/30/88
 Sent to Lab by: JES date 4/4/88

LAB Request: % Asbestos By PLM

Sample #HMS-	I - 1 page No	MATERIALS/LOCATION	% Asbestos
PVH-01		M: VET - 9" - Off - white L: Unit A - room # 7	T
PVH-02		M: Acoustic Ceiling Tile 1' x 2' L: Unit A - room # 7	O
PVH-03A		M: Plaster over Sheet Rock wall L: Unit A - room # 7	O
PVH-04		M: Acoustic Ceiling Tile 1' x 1' L: Unit A - room # 6 (office lobby)	O
PVH-05A		M: Muddled joint - (TSI) L: Unit A - Attic Area	10-15
PVH-06		M: Cooling Tower Debris L: Unit A - Attic Area	O
PVH-07		M: Duct Tape (TSI) L: Unit A - Attic Area	O
PVH-08A		M: Plaster wall (Hard plaster) L: Unit A - room # 3 (girls bathroom)	T
PVH-08B		M: Plaster wall (Hard plaster) L: Unit A - room # 3 (boys bathroom)	O
PVH-08C		M: Plaster wall (Hard Plaster) L: Unit C - Boys bathroom - room # 18	O

HAZARD MANAGEMENT SERVICES, INC. CHICO UNIFIED SCHOOL DIST.
 Bill To: District or Business
 P.O. Box 7012, Modesto, Ca 95355 School Pleasant Valley High
 Billing Address: OR
 Bldg 2148
 Date 3/30/88 Sent to Lab by: JES
 Collected by: RB Date 3/30/88
 LAB Request: % Asbestos By PLM

Sample #HMS-	Report Number	Date Rec'd	Date/Time/By	Reported Results	FAS Lab #	1 - 1 page No	MATERIALS/LOCATION	% Asbestos
PVH-09A							N: Trowled on Ceiling L: Covered walk - between unit A & unit B	T
PVH-09B							N: Trowled on Ceiling L: Covered walk between unit A & unit B	1-5
PVH-05B							N: T S T - Muddled joint L: Unit B - Attic Area	10-15
PVH-09C							N: Trowled on Ceiling L: Covered walk between unit B & unit J	0
PVH-10							N: VFF Linoleum - yellow L: Unit J - room #1 (Student store)	30-35
PVH-11							N: acoustic Ceiling Tile - 1'x1' (cellulose looking) L: Unit J - room #1 (Student store)	0
PVH-12							N: Ceiling Panel 2x4 L: Unit J - room #1 (store office)	0
PVH-13							N: Linoleum - Brown L: Unit J - room #1 (Student activity room)	25-30
PVH-03B							N: Plaster over sheet Rock L: Unit J - room #1 (Student Activities)	0
PVH-03C							N: Plaster Over Sheet Rock L: Unit C - room #25	0

HAZARD MANAGEMENT SERVICES, INC. CHICO UNIFIED SCHOOL DIST.
 Bill To: District or Business
 P.O. Box 7012, Modesto, Ca 95355
 Billing Address: School Pleasant Valley High
 OR
 Bldg JES date 3/20/88
 Collected by: RB Date 3/20/88
 Sent to Lab by: JES
 LAB Request: % Asbestos By PLM

Client Number	Report Number	Date Rec'd	Reported Results	Date/Time/By	Sample #HMS-	I - 1 page No	MATERIALS/LOCATION	% Asbestos
			PVH-05C				N: TST - Muddled joint L: Unit C - Attic Area	1-5
			PVH-14				N: VFT-12" - white L: Unit D - room # 35 (Drama)	T
			PVH-03D				N: Plaster Over Sheet Rock L: Unit D - room # 35 - (Drama)	0
			PVH-15				N: VFT-12" - Off-white & backing L: Unit T - drafting Room	1-5
			PVH-08D				N: Plaster Wall (hard Plaster) L: Unit E - Girls locker room (shower area) room # 49	T
			PVH-08E				N: Plaster hard Wall - (hard Plaster) L: Unit E - Mens locker room - room # 49	0
			PVH-03E				N: Plaster Over Sheet Rock L: Unit E - room # 50	0
			PVH-03F				N: Plaster Over Sheet Rock L: Unit E - room # 5B (equipment room)	0
			PVH-16A				N: TST - PW straight L: Unit E - room # 55 (boiler room)	55-60
			PVH-16B				N: TST - PW straight L: Unit E - room # 55 (boiler room)	55-60

HAZARD MANAGEMENT SERVICES, INC. CHICO UNITED SCHOOL DIST.
 Bill To: District or Business
 P.O. Box 7012, Modesto, Ca 95355
 Billing Address: School Pleasant Valley High
 OR
 Bldg JES date 4/19/88
RB 3/30/88
 Collected by: Date Sent to Lab by:
 LAB Request: % Asbestos By PLM

Client Number	Report Number	Received By	Date Rec'd	Reported Results	Date/Time/By	Sample #HMS-	I - 1 page No	MATERIALS/LOCATION	% Asbestos
				PVH-16C				M: TSE - Plw straight L: Unit E - room #55 (Boiler Room)	40-45
				PVH-17				M: TSE - Tank wrap L: Unit E - room #55 (Boiler Room)	35-45
				PVH-09D				M: Trowled on ceiling L: Unit E - snack Bar	1-5
				PVH-18				M: Debris L: Attic Area over rooms # 53, 52, 51 (unit E)	15-20
				PVH-19				M: Acoustic Ceiling Tile 1'x1' L: Unit E - room #39 - music room	0
				PVH-20				M: VFT-9" - beige L: Unit E - room #49	T
				PVH-08F				M: Plaster wall (Hard Plaster) L: Unit E - room #37 (mens Bathroom)	0
				PVH-09E				M: Trowled on plaster ceiling L: Covered walk - outside small gym	0
				PVH-09F				M: Trowled on ceiling L: Covered walk - outside small gym cafeteria	0
				PVH-09G				M: Trowled on ceiling L: Covered walk - outside Large Gym	0

Page 5 of 5[illegible]

PROJECT S.P. 1A's
ADDRESS PLEASANT VALLEY HIGH SCHOOL

11-15-90
DATE

M. H. Brown
SIGNATURE

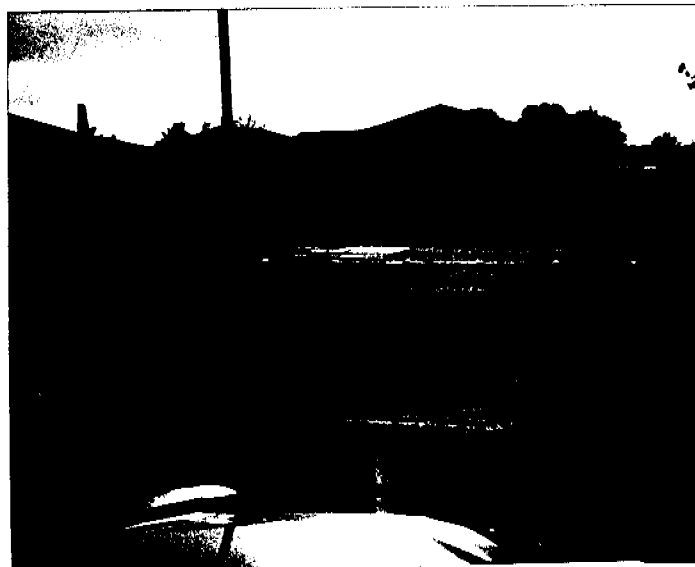
1
APPLICATION NO.

SITE SUMMARY
 GRADES SERVED AT THIS SCHOOL

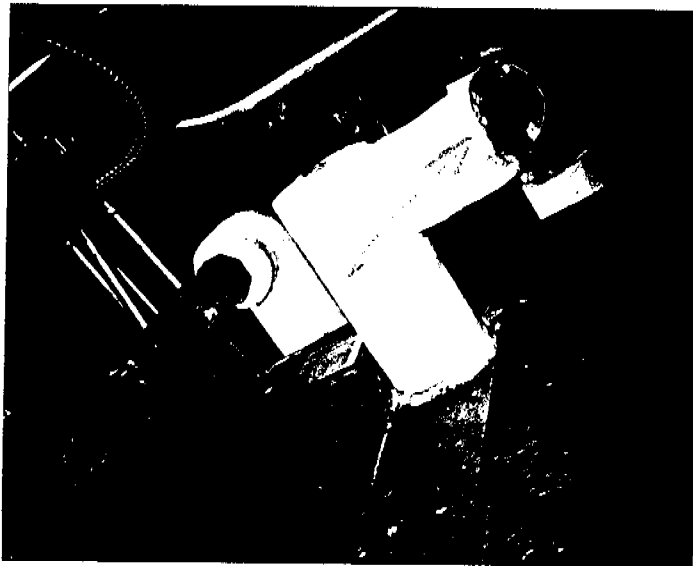
BLDG	UNIT DESCRIPTION	CONSTRUCTED APPLICATION NO.	TOTAL AREA	NON-CHARGEABLE LEASE	NON-CHARGEABLE CONFORM	UNDER 30	OVER 30	T/S	LAB/S
A	ADMIN.	# 2436B	10,137.35 S.F.			X		2	—
B	CLASS ROOM	"	10,237.34 S.F.			X		8	—
C	SCIENCE & BUSIN. BLDG.	"	10,237.34 S.F.			X		2	5
D	HOMEMAKING, ARTS & W. LAB.	"	10,237.34 S.F.			X		2	3
E	MUSIC & CAFETERIA	"	8,257.00 S.F.			X		—	1
F	GYM & LOCKER RM.	"	14,142.08 S.F.			X		—	—
H	GYM	# 38470	11,331.74 S.F.			X		—	—
I	INDUSTRIAL ARTS	"	7,438.96 S.F.			X		—	2
J	STUDENT CENTER	# 35519	896.00 S.F.			X		—	—
K	WIEGHT RM.	# 33408	2,400.00 S.F.			X		—	—
	R.O.P. TRAILER	—	720.00 S.F.	X		X		—	—
	GREEN HOUSE	—	944.13 S.F.			X		—	—
	SHED	—	240.00 S.F.			X		—	—
	SHED	—	432.00 S.F.			X		—	—
	MAINT. SHED	—	1,200.00 S.F.			X		—	—
	STORAGE SHED	—	810.00 S.F.			X		—	—
N	DIST. LEASED RELOCATABLES	54376 6/90	1920.00 S.F.			X		—	—
	WHITE COUNTRY TRAILER	—	480.00 S.F.			X		—	—
							TOTAL	25	



Pleasant Valley High School
Inspected 3/30/88



Pleasant Valley High School
Inspected 3/30/88



Pipe wrap leading to fan unit.
Friable ends.

HAZARD MANAGEMENT SERVICES, INC.

Inspection Form I-1

DISTRICT _____

Page ____ of ____

SCHOOL PV H.S.Date 3-30-88Building Unit AInspector RBLocation Attic space
(functional area)HMS-PVH-05AMaterial: Surfacing (TSI) Misc. Asbestos 10-15
Description pipewrap corner (mudded) 4"Amount of Material (NF) / F) 25 (ft²/lf) Assumed ACM: Y / N # of samples 1CONDITION: % damaged: 0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: all pipewrap is in excellent shape. Foam
straight sections with mudded corners. All mudded corners have
Good access.

POTENTIAL FOR DISTURBANCE:

PREVENTATIVE MEASURES:

Accessibility: H (M) L
Vibration : H (M) (L)
Air Erosion : H M (L)
Water : H M (L)

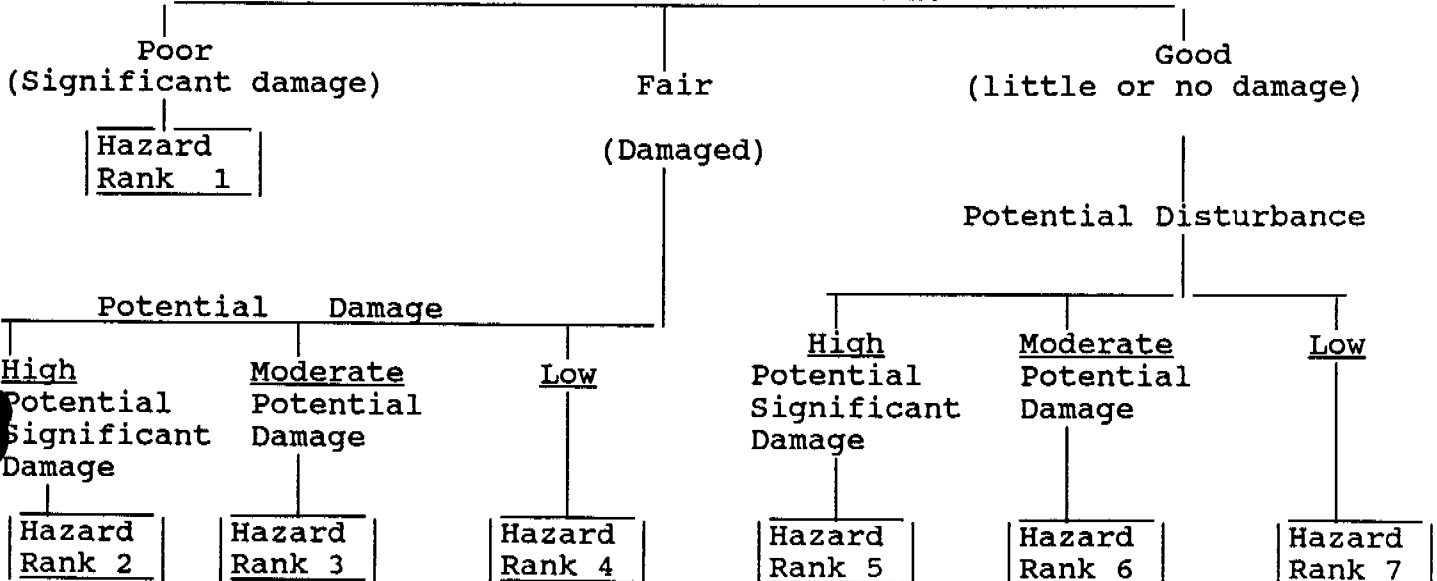
1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS: Attic space has
HVAC system. Pipes attached
has vibration,
M+DREMEDIAL ACTIONS
isolate/restrict repair/cleanup

enclose encapsulate

remove O&M

ACBM Condition - Assessment



HAZARD MANAGEMENT SERVICES, INC.

Inspection Form I-1

DISTRICT _____

Page _____ of _____

SCHOOL P. V. HighDate 3-30-88Building Unit C

Inspector _____

Location AHic Area
(functional area)HMS-PVH-05cMaterial: Surfacing (TSI) Misc. _____ % Asbestos 1-5
Description Mudded joint - 4" ODAmount of Material (NF / F) 23/0 (ft²/lf) Assumed ACM: Y / N # of samples _____CONDITION: % damaged: Extent of damage: _____
0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: _____

POTENTIAL FOR DISTURBANCE:

PREVENTATIVE MEASURES:

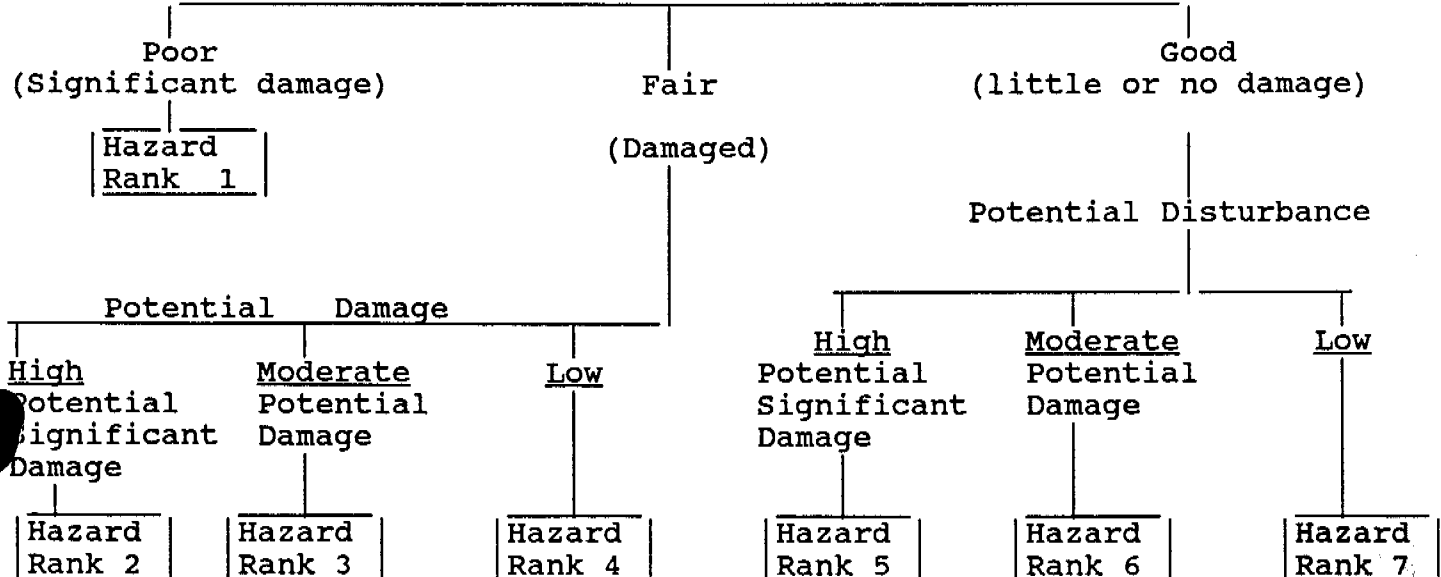
Accessibility: H M L
Vibration : H M L
Air Erosion : H M L
Water : H M L

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS: Subject to vibrations
from Fan unit

_____REMEDIAL ACTIONS
isolate/restrict repair/cleanupenclose encapsulate
remove O&M

ACBM Condition - Assessment



HAZARD MANAGEMENT SERVICES, INC.

Inspection Form I-1

DISTRICT _____

Page _____ of _____

SCHOOL PV H S.Date 3-30-88Building Unit ~~RM~~ FInspector RBLocation Room 55 Boiler Room
(functional area)HMS-PVA-16 A, B, C
C-40-45Material: Surfacing (TSI) Misc. % Asbestos 55-60
Description 4" OD pipewrap straight sectionAmount of Material (NF / F) 12 / 0 (ft²) (1f) Assumed ACM: Y / N # of samples 1

CONDITION: % damaged:

Extent of damage:

0% <1% 1-10% 11-25% >25%none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: All pipewrap in boiler room is from sections except
for about 12' of hard pipewrap near boiler
all in excellent shape.

POTENTIAL FOR DISTURBANCE:

PREVENTATIVE MEASURES:

Accessibility: H (M) L
Vibration : H (M) L
Air Erosion : H M (L)
Water : H M (L)

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS:

REMEDIAL ACTIONS

isolate/restrict repair/cleanup

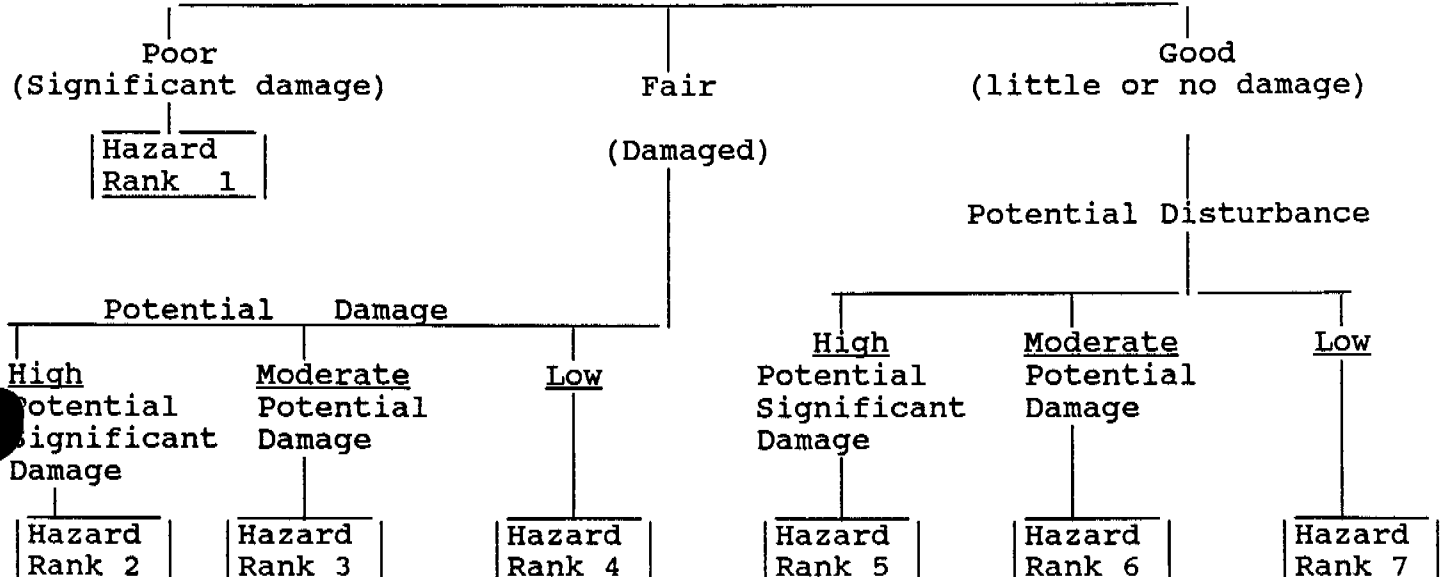
enclose

encapsulate

remove

O&M

ACBM Condition - Assessment



HAZARD MANAGEMENT SERVICES, INC.

Inspection Form I-1

DISTRICT _____

Page _____ of _____

SCHOOL PV H.S.Date 3-30-88Building Unit A FInspector RBLocation Room 55 Boiler Room
(functional area)HMS-PVH-17Material: Surfacing TSI Misc.
Description TANK wrap% Asbestos 35-45Amount of Material (NF / F) 12' high x 6' dia (ft²) lf) Assumed ACM: Y / N # of samples 1CONDITION: % damaged: (340 ft²) Extent of damage:
0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: Excellent shape of tank wrap.

POTENTIAL FOR DISTURBANCE:

Accessibility: H M L
Vibration : H M L
Air Erosion : H M L
Water : H M L

PREVENTATIVE MEASURES:

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS: Accessible to O+M only

REMEDIAL ACTIONS

isolate/restrict repair/cleanup

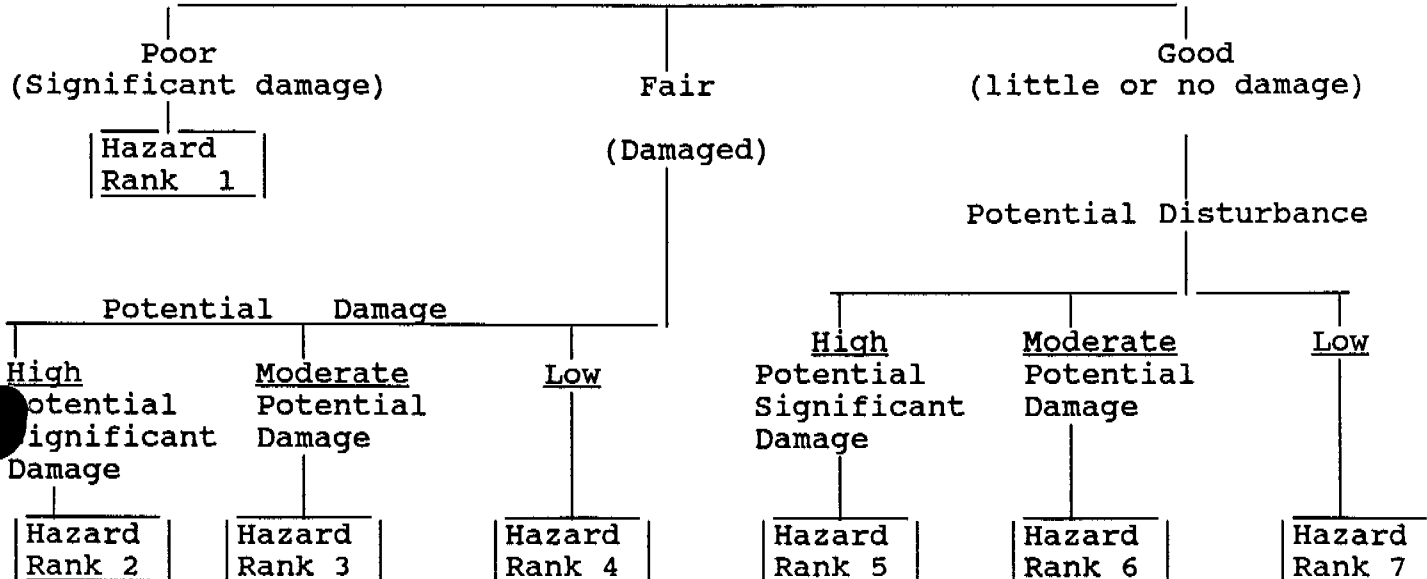
enclose

encapsulate

remove

O&M

ACBM Condition - Assessment



HAZARD MANAGEMENT SERVICES, INC.

Inspection Form I-1

DISTRICT _____

Page ____ of ____

SCHOOL PV H.S.Date 3-Building Unit A/B/CInspector RBLocation Outside Corridor (Between A+B)
(functional area) + B+CHMS-PVH-09 A, B, C, EFGMaterial: Surfacing TSI Misc. % Asbestos 1-5
Description Hard Plaster in Corridor overhangAmount of Material (NF) / F) _____ (ft²/lf) Assumed ACM: Y / N # of samples 2

CONDITION: % damaged: Extent of damage:

0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: Excellent shape of all overhanging plaster ceiling

POTENTIAL FOR DISTURBANCE:

Accessibility: (H) M L
Vibration : H M (L)
Air Erosion : H M (L)
Water : H M (L)

PREVENTATIVE MEASURES:

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS: Low air erosion due to hardness of plaster

REMEDIAL ACTIONS

isolate/restrict repair/cleanup

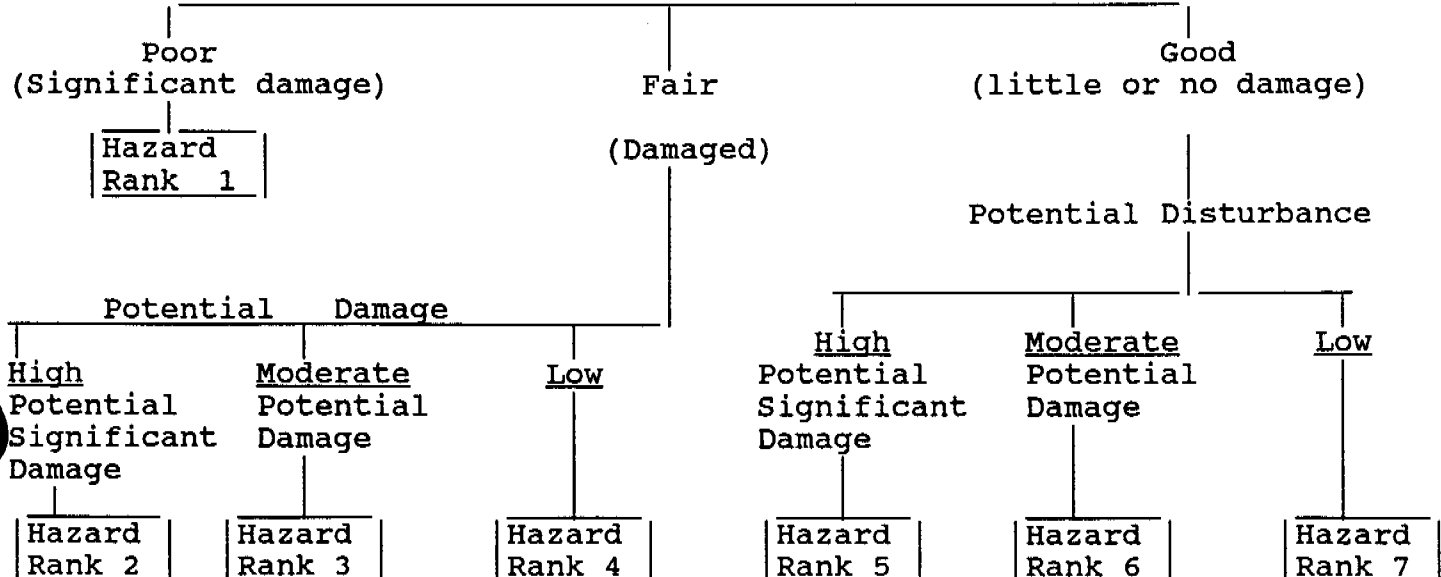
enclose

encapsulate

remove

O&M

ACBM Condition - Assessment



HAZARD MANAGEMENT SERVICES, INC.

Inspection Form I-1

DISTRICT _____

Page _____ of _____

SCHOOL Unit G PU HSDate 3-30-88Building Unit 14 FInspector RRLocation Pop Corn Room Snack Bar
(functional area)HMS-PVH-09D

Material: Surfacing TSI Misc. % Asbestos 1-5
 Description Ceiling plaster sample (same as outside corridor) # of
 Amount of Material (NF / F) _____ (ft²/lf) Assumed ACM: Y / N samples 1

CONDITION: % damaged: Extent of damage:
0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: Room was added onto building incorporating outside
corridor overhang as an indoor ceiling now.

POTENTIAL FOR DISTURBANCE:

PREVENTATIVE MEASURES:

Accessibility: H M L
 Vibration : H M L
 Air Erosion : H M L
 Water : H M L

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS: _____

REMEDIAL ACTIONS

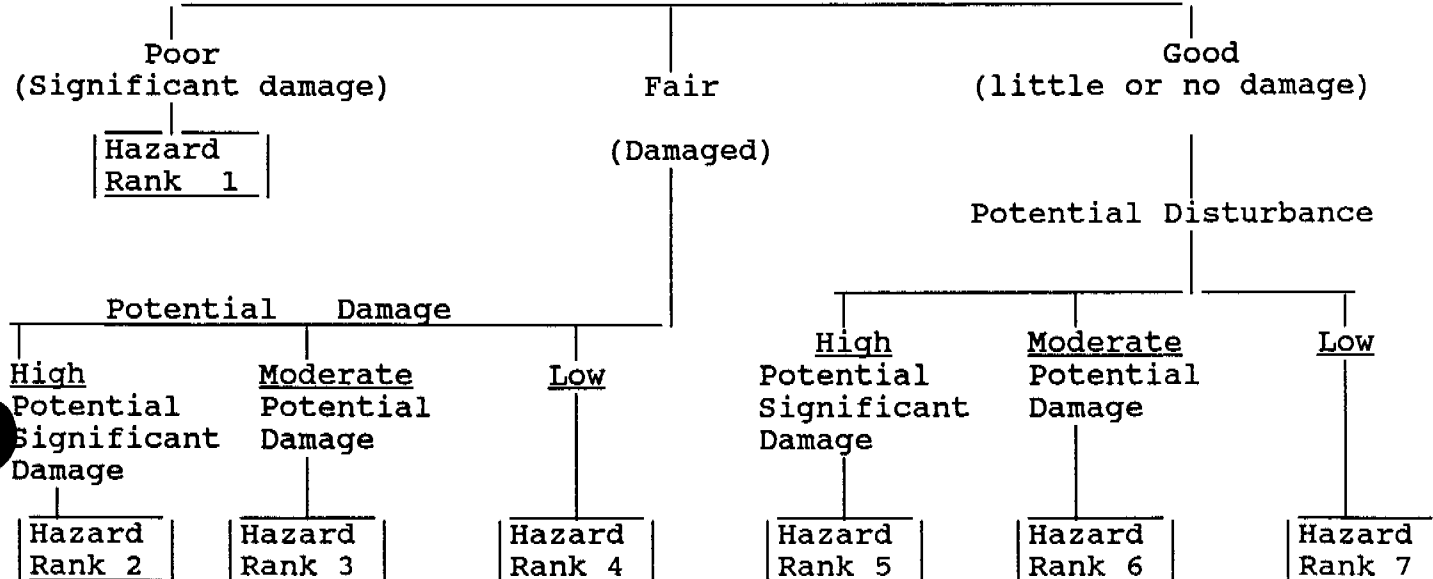
isolate/restrict repair/cleanup

enclose encapsulate

remove

O&M

ACBM Condition - Assessment



HAZARD MANAGEMENT SERVICES, INC.

Inspection Form I-1

DISTRICT _____

Page _____ of _____

SCHOOL PV H.S.Date 3-30-88Building Unit JInspector RBLocation Room 1 Student Activity snack Bar
(functional area)HMS-PVH-10Material: Surfacing TSI (Misc.)
Description yellow linoleum% Asbestos 30-35Amount of Material (NF) / F 180 (ft²) / lf) Assumed ACM: Y / N # of samples 1

CONDITION: % damaged:

Extent of damage:

0% <1% 1-10% 11-25% >25%none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: Excellent shape of flooring material

POTENTIAL FOR DISTURBANCE:

PREVENTATIVE MEASURES:

Accessibility: (H) M L
 Vibration : (H) M (L)
 Air Erosion : (H) M (L)
 Water : (H) M (L)

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS:

REMEDIAL ACTIONS

isolate/restrict repair/cleanup

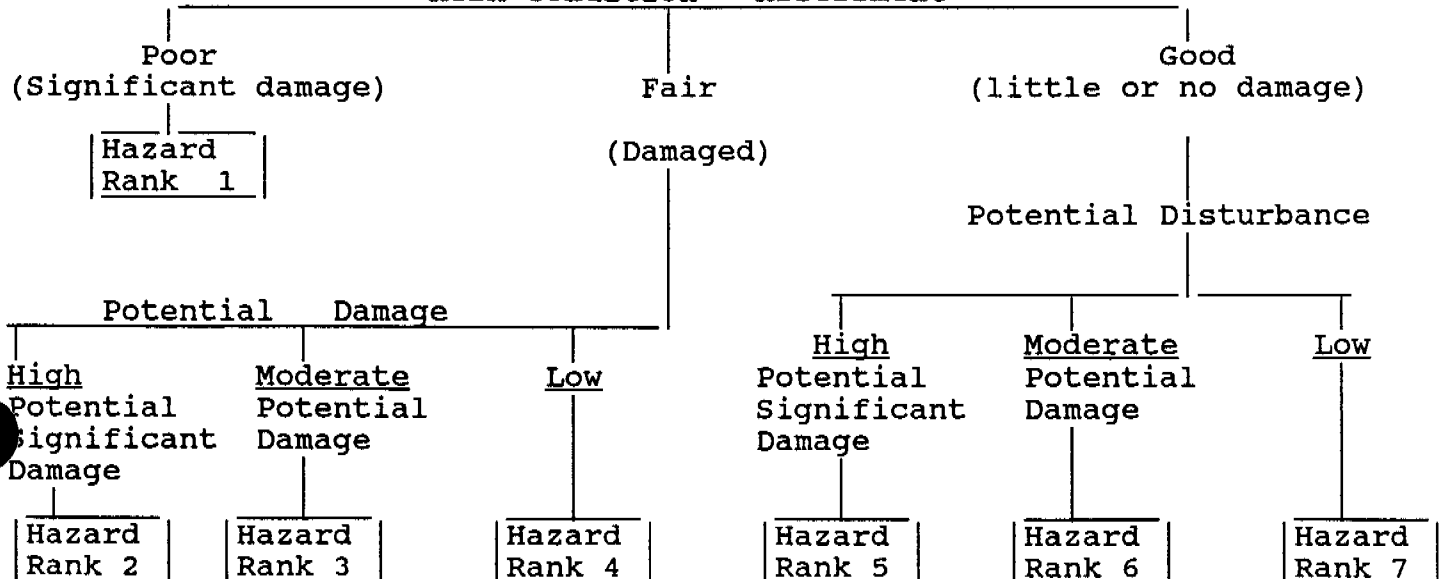
enclose

encapsulate

remove

O&M

ACBM Condition - Assessment



HAZARD MANAGEMENT SERVICES, INC.

Inspection Form I-1

DISTRICT _____

Page ____ of ____

SCHOOL PV H.S.Date 3-30-88Building Unit JInspector RBLocation Room 1 Activity Room
(functional area)HMS-PVH-13Material: Surfacing . TSI Misc. % Asbestos 25-30Description Brown Linoleum floor coveringAmount of Material (NF / F) 300 (ft² / lf) Assumed ACM: Y / N # of samples 1

CONDITION: % damaged: Extent of damage:

0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: Excellent shape.

POTENTIAL FOR DISTURBANCE:

PREVENTATIVE MEASURES:

Accessibility: H M L

Vibration : H M L

Air Erosion : H M L

Water : H M L

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS: _____

REMEDIAL ACTIONS

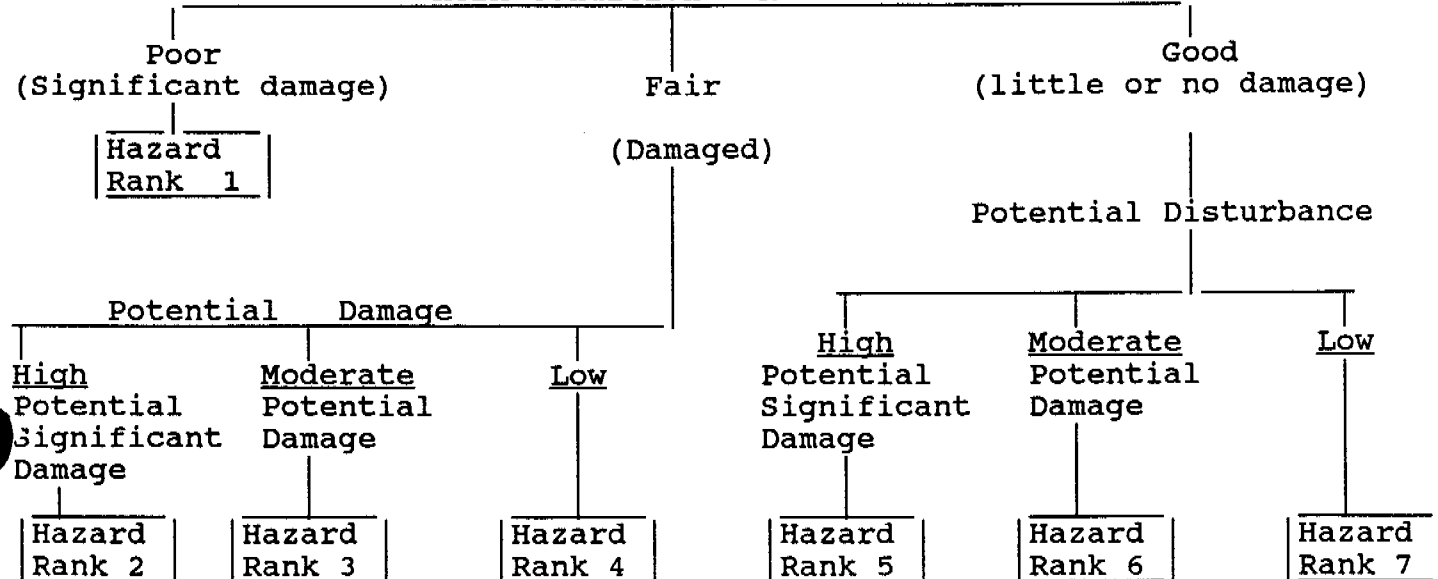
isolate/restrict repair/cleanup

enclose encapsulate

remove

O&M

ACBM Condition - Assessment



HAZARD MANAGEMENT SERVICES, INC.

Inspection Form I-1

DISTRICT _____

Page _____ of _____

SCHOOL Umatilla PU HSDate 3-30-88Building Unit IInspector RBLocation Room 1 Metal Shop
(functional area)HMS- - No SampleMaterial: Surfacing TSI Misc. % Asbestos _____
Description Transite wall board sheets - welding BoothsAmount of Material (NF) / F) 350 (ft²/lf) Assumed ACM: (Y) / N # of samples 0

CONDITION: % damaged: Extent of damage:

(0%) <1% 1-10% 11-25% >25%(none) local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: Welding Booth panels

POTENTIAL FOR DISTURBANCE:

PREVENTATIVE MEASURES:

Accessibility: (H) M L
Vibration : H M (L)
Air Erosion : H M (L)
Water : H M (L)

1. Fix Leaks
2. Prevent water contact
- (3) 3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS: _____

REMEDIAL ACTIONS

isolate/restrict repair/cleanup

enclose

encapsulate

remove

(O&M)

ACBM Condition - Assessment

Poor
(Significant damage)

Fair

Good
(little or no damage)Hazard
Rank 1

(Damaged)

Potential Disturbance

Potential Damage

High
Potential
Significant
DamageModerate
Potential
Damage

Low

High
Potential
Significant
DamageModerate
Potential
Damage

Low

Hazard
Rank 2Hazard
Rank 3Hazard
Rank 4Hazard
Rank 5Hazard
Rank 6Hazard
Rank 7

HAZARD MANAGEMENT SERVICES, INC.

Inspection Form I-1

DISTRICT _____

Page ____ of ____

SCHOOL _____

Date 3-30-88

Building _____

Inspector RB

Location _____

HMS-PVH-15

Material: _____

Surfacing

TSI

Misc.% Asbestos 1-5

Description _____

12"

off white Floor tile

Amount of Material (NF / F) _____

812(ft²)

Assumed ACM: Y / N

of samples

CONDITION: _____

% damaged: _____

Extent of damage: _____

0% <1% 1-10% 11-25% >25%none

local

distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: _____

Excellent Condition of Floor

POTENTIAL FOR DISTURBANCE:

PREVENTATIVE MEASURES:

Accessibility: H M LVibration : H M LAir Erosion : H M LWater : H M L

1. Fix Leaks

2. Prevent water contact

3. Do not DCSG

4. Do not affix signs/deco's

5. Avoid contact

COMMENTS: _____

REMEDIAL ACTIONS

isolate/restrict repair/cleanup

enclose

encapsulate

remove

O&M

ACBM Condition - Assessment

Poor
(Significant damage)

Fair

Good
(little or no damage)Hazard
Rank 1

(Damaged)

Potential Disturbance

Potential Damage

High
Potential
Significant
DamageModerate
Potential
Damage

Low

High
Potential
Significant
DamageModerate
Potential
Damage

Low

Hazard
Rank 2Hazard
Rank 3Hazard
Rank 4Hazard
Rank 5Hazard
Rank 6Hazard
Rank 7