VANDENBERG AIR FORCE BASE ASBESTOS ABATEMENT PROGRAM

FACILITY ASSESSMENT REPORT

3-Feb-93

FACILITY ID: 13140 FACILITY NAME: Atlas Dormitory PRIORITY: 6 GRADE RATING: 11.8641
PRIMARY POC: Henry Infante TELEPHONE: 4-2757 FACILITY ABATEMENT COST ($): 150,000.00
SECONDARY POC: TELEPHONE:

13140

AA ID: B ASSESSMENT AREA: Living Quarters AA PRIORITY: 6 AA GRADE RATING: 11.8641
AA ABATEMENT COST ($): 150,000.00

HSA ID	HSA DESCRIPTION	HSA PRIORITY	HSA GRADE RATING	QUANTITY	COST FACTOR	ABATEMENT COST
1	12" x 12" Tan Floor Tile	6	11.8641	30000 SF	3.50	105,000.00
2	Tan Floor Tile Mastic	6	11.8641	30000 SF	1.50	45,000.00
3	12" x 12" Brown Floor Tile	0	0.0000		3.50	0.00
4	Brown Floor Tile Mastic	0	0.0000		1.50	0.00
6	1' x 1' Acoustical Tile	0	0.0000		4.00	0.00
7	12" x 12" Yellow Floor Tile	0	0.0000		3.50	0.00
8	Yellow Floor Tile Mastic	0	0.0000		2.00	0.00
9	Carpet Mastic	0	0.0000		3.00	0.00
10	Trowled-on Wall Plaster	0	0.0000		15.00	0.00

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13140

AA ID: B ASSESSMENT AREA: Living Quarters AA PRIORITY: 6 AA GRADE RATING: 11.8641
AA ABATEMENT COST ($): 150,000.00

HSA ID	HSA DESCRIPTION	HSA PRIORITY	HSA GRADE RATING	QUANTITY	COST FACTOR	ABATEMENT COST
11	Leveling Compound	0	0.0000			0.00
12	12" x 12" Brown Floor Tile	0	0.0000		5.00	0.00
13	Brown Floor Tile Mastic	0	0.0000		2.00	0.00
14	12" x 12" Red Floor Tile	0	0.0000		3.50	0.00
15	Red Floor Tile Mastic	0	0.0000		2.00	0.00

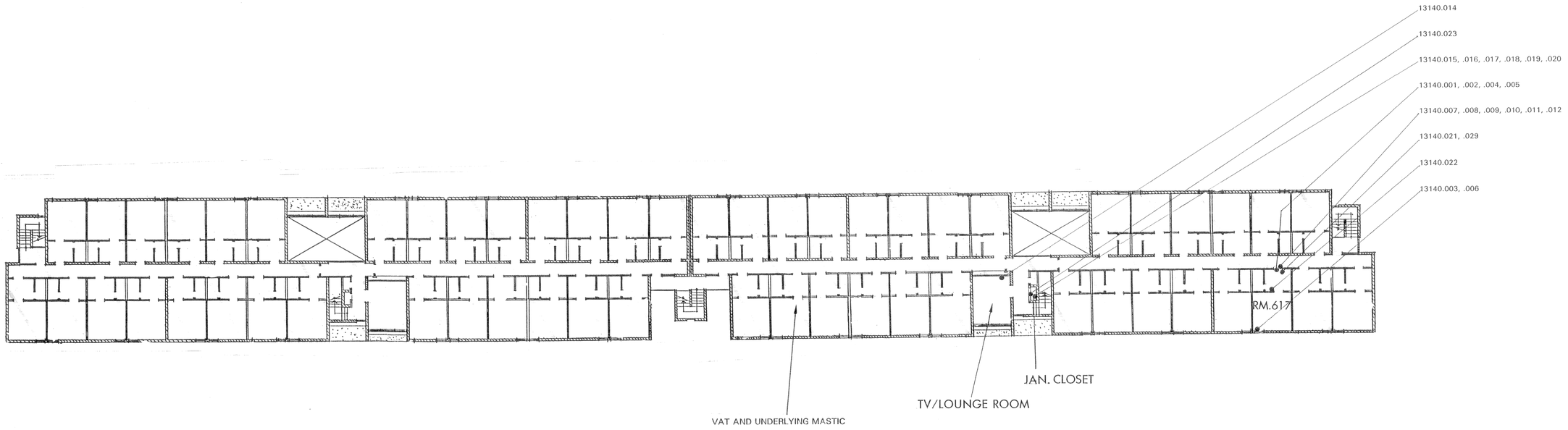
Facility Summary Report
Building 13140
Atlas Dormitory

Pacific Environmental Services, Inc. (PES) conducted an asbestos identification survey of Building 13140 on November 5, 1992. Building 13140 is a 51,807 square foot three story, dormitory with a cinderblock foundation. The building was constructed in 1976.

PES identified two assessment areas within Building 13140.

Area ID	Location
A	Exterior of Building
B	Living Quarters

Fourteen homogeneous sampling areas (HSAs) were identified in this building. PES collected 40 samples of suspect asbestos-containing building materials (ACBM) from Building 13140. "Identified Asbestos-Containing Building Materials" are presented in Appendix A. The Asbestos-Containing Building Materials Summary, which includes quantities of identified ACBM, is included in Appendix B. Field sample data is included in Appendix C. Copies of laboratory reports are included in Appendix D. Sampling locations and identified ACBM are shown on PES Engineering Drawing ASB-0623. This drawing is stored and made available at CEG/DEVC.



THIRD FLOOR PLAN - BUILDING NO. 13140

REFERENCE NORTH

COLOR LEGEND

Color	Type of ACBM Present
Green	Surfacing Materials - Occupant Accessible
Magenta	Surfacing Materials - Maintenance Accessible
Yellow	TSI - Occupant Accessible
Blue	TSI - Maintenance Accessible
Orange	Floor Coverings
Purple	Miscellaneous Materials excl. Floor Coverings

PACIFIC ENVIRONMENTAL SERVICES, INC.

Vandenberg Air Force Base, CA
Asbestos Identification Survey - 1992

ATLAS DORMITORY - BUILDING NO. 13140

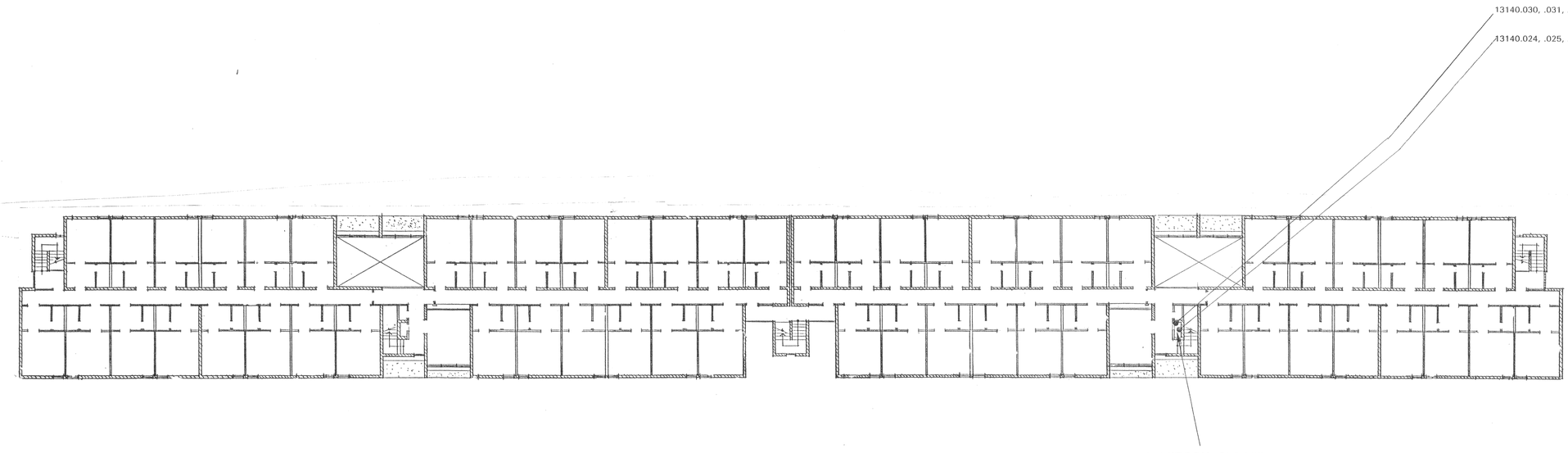
PES Project #: F008 | Scale: Not to Scale

Notes:

Engineering Drawing Number:

ASB-0623

Sheet 1 of 2



FIRST AND SECOND FLOOR PLAN – BUILDING NO. 13140

REFERENCE NORTH

COLOR LEGEND

Color	Type of ACBM Present
Green	Surfacing Materials - Occupant Accessible
Magenta	Surfacing Materials - Maintenance Accessible
Yellow	TSI - Occupant Accessible
Blue	TSI - Maintenance Accessible
Orange	Floor Coverings
Purple	Miscellaneous Materials excl. Floor Coverings

PACIFIC ENVIRONMENTAL SERVICES, INC.

Vandenberg Air Force Base, CA
Asbestos Identification Survey - 1992

ATLAS DORMITORY – BUILDING NO. 13140

PES Project #: F008 | Scale: Not to Scale

Notes:

Engineering Drawing Number:
ASB-0623

Sheet 2 of 2

Building 13140
Assessment Area A - Exterior of Building

This assessment area includes exterior surfaces of building 13140, excluding roofing materials. No suspect materials were identified in this assessment area.

Recommendation:

None

Building 13140
Assessment Area B - Living Quarters

This assessment area included all living quarters, lounge areas, laundry areas, and storage areas in the building.

PES identified one surfacing material and thirteen miscellaneous materials suspected of containing asbestos in this assessment area. No suspect forms of thermal systems insulation (TSI) were identified in this assessment area.

PES sampled trowled-on wall plaster in this assessment area. No asbestos was detected in the samples collected of this material.

PES sampled 12" x 12" tan floor tile and the underlying mastic present throughout the majority of the building. The floor tile and underlying mastic contained 3% and 5% chrysotile asbestos, respectively. Both materials were nonfriable and in good condition at the time of the survey.

PES identified four other types of floor tile and underlying mastics in this assessment area. Samples were collected from the 12" x 12" brown, 12" x 12" yellow and 12" x 12" red floor tiles, as well as the 12" x 12" brown linoleum. No asbestos was detected in any of the samples collected for either the floor tile samples or the mastic samples.

PES sampled carpet mastic in this assessment area. No asbestos was detected in the samples collected of this material. PES also identified and sampled the leveling compound found beneath the carpet in various areas. No asbestos was detected in the samples collected of this material.

PES sampled the 1' x 1' acoustical wall tile in this assessment area. No asbestos was detected in the samples collected of this material.

Note: The 12 x 12 tan floor tile. PES was unable to get approximations for this floor tile because it had been removed in some rooms and not in others. Carpet was put in over all areas and PES did not have access to every room in this building to check for this floor tile.

Recommendation:

The ACBM identified in this assessment area should be included in an Operations and Maintenance (O&M) Program, which includes periodic surveillance of ACBM condition. Prior to renovation or demolition, the identified potentially friable ACBM must be removed in accordance with current EPA NESHAP regulations.

APPENDIX A

IDENTIFIED ASBESTOS-CONTAINING BUILDING MATERIALS

APPENDIX A

IDENTIFIED ASBESTOS-CONTAINING BUILDING MATERIALS

BUILDING 13140
Assessment Area: B - Living Quarters

HSA ID	Material Description	Results % Type Asbestos
001	12" x 12" Tan Floor Tile	3% Chrysotile
002	Tan Floor Tile Mastic	5% Chrysotile
003	12" x 12" Brown Floor Tile	None Detected
004	Brown Floor Tile Mastic	None Detected
006	1' x 1' Acoustical Tile	None Detected
007	12" x 12" Yellow Floor Tile	None Detected
008	Yellow Floor Tile Mastic	None Detected
009	Carpet Mastic	None Detected
010	Trowled-on Wall Plaster	None Detected
011	Leveling Compound	None Detected
012	12" x 12" Brown Linoleum Floor Tile	None Detected
013	Brown Floor Tile Mastic	None Detected
014	12" x 12" Red Floor Tile	None Detected
015	Red Floor Tile Mastic	None Detected

APPENDIX B

ASBESTOS-CONTAINING BUILDING MATERIAL

SUMMARY

SUMMARY

FACILITY ID: 13140 Atlas Dormitory
PRIMARY POINT OF CONTACT: Henry Infante TELEPHONE: 4-2757
SECONDARY POINT OF CONTACT: TELEPHONE:

ASSESSMENT AREA ID: B Living Quarters

HOMOGENEOUS SAMPLING AREA ID: 1 12" x 12" Tan Floor Tile QUANTITY OF ACBM: 30000 SF

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
1	123319	Nonfriable	Category I	03-03					Binders	Aggregate			
2		Nonfriable	Category I										
3		Nonfriable	Category I										

HOMOGENEOUS SAMPLING AREA ID: 2 Tan Floor Tile Mastic QUANTITY OF ACBM: 30000 SF

Sample ID	Laboratory IO	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
4	123322	Nonfriable	Category II	05-05					Bitumen				
5		Nonfriable	Category II										
6		Nonfriable	Category II										

HOMOGENEOUS SAMPLING AREA IO: 3 12" x 12" Brown Floor Tile QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
7	123325	Nonfriable	Category I						Binders	Aggregate			
8	123326	Nonfriable	Category I						Binders	Vermiculite			
9	123327	Nonfriable	Category I						Binders	Aggregate			

SUMMARY

FACILITY ID: 13140 Atlas Dormitory
PRIMARY POINT OF CONTACT: Henry Infante TELEPHONE: 4-2757
SECONDARY POINT OF CONTACT: TELEPHONE:

ASSESSMENT AREA ID: B Living Quarters

HOMOGENEOUS SAMPLING AREA ID: 4 Brown Floor Tile Mastic QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
10	123328	Nonfriable	Category II						Mastic				
11	123329	Nonfriable	Category II						Mastic				
12	123330	Nonfriable	Category II						Mastic				

HOMOGENEOUS SAMPLING AREA ID: 6 1' x 1' Acoustical Tile QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
14	123332	Low							Mineral Wool	Binders	Cellulose	Perlite	

HOMOGENEOUS SAMPLING AREA ID: 7 12" x 12" Yellow Floor Tile QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
15	123333	Nonfriable	Category I						Binders	Aggregate			
16	123334	Nonfriable	Category I						Binders	Aggregate			
17	123335	Nonfriable	Category I						Binders	Aggregate			

FACILITY ID: 13140 Atlas Dormitory
PRIMARY POINT OF CONTACT: Henry Infante TELEPHONE: 4-2757
SECONDARY POINT OF CONTACT: TELEPHONE:

ASSESSMENT AREA ID: B Living Quarters

HOMOGENEOUS SAMPLING AREA ID: 8 Yellow Floor Tile Mastic QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
18	123336	Nonfriable	Category II						Mastic				
19	123337	Nonfriable	Category II						Mastic				
20	123338	Nonfriable	Category II						Mastic				

HOMOGENEOUS SAMPLING AREA ID: 9 Carpet Mastic QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
21	123339	Nonfriable	Category II						Mastic	Synthetic			

HOMOGENEOUS SAMPLING AREA ID: 10 Trowled-on Wall Plaster QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
22	123340	Low							Binders	Cellulose			
23	123341	Low							Binders				
24	123342	Low							Binders				
25	123343	Low							Binders	Cellulose			
26	123344	Low							Binders				
27	123345	Low							Binders				
28	123346	Low							Binders				

SUMMARY

FACILITY ID: 13140 Atlas Dormitory
PRIMARY POINT OF CONTACT: Henry Infante TELEPHONE: 4-2757
SECONDARY POINT OF CONTACT: TELEPHONE:

ASSESSMENT AREA ID: B Living Quarters

HOMOGENEOUS SAMPLING AREA ID: 10 Trowled-on Wall Plaster QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5

HOMOGENEOUS SAMPLING AREA ID: 11 Leveling Compound QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
29	123347	Nonfriable	Category II						Binders	Synthetics			

HOMOGENEOUS SAMPLING AREA ID: 12 12" x 12" Brown Floor Tile QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
30	123348	Nonfriable	Category I						Binders	Aggregate			
31	123349	Nonfriable	Category I						Binders	Aggregate			
32	123350	Nonfriable	Category I						Binders	Aggregate			

HOMOGENEOUS SAMPLING AREA ID: 13 Brown Floor Tile Mastic QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
33	123351	Nonfriable	Category II						Mastic				

SUMMARY

FACILITY ID: 13140 Atlas Dormitory
PRIMARY POINT OF CONTACT: Henry Infante TELEPHONE: 4-2757
SECONDARY POINT OF CONTACT: TELEPHONE:

ASSESSMENT AREA ID: B Living Quarters

HOMOGENEOUS SAMPLING AREA ID: 13 Brown Floor Tile Mastic QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
34	123352	Nonfriable	Category II						Binders				
35	123353	Nonfriable	Category II						Binders				

HOMOGENEOUS SAMPLING AREA ID: 14 12" x 12" Red Floor Tile QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
36	123354	Nonfriable	Category I						Binders	Aggregate	Synthetics		
37	123355	Nonfriable	Category I						Binders	Aggregate			
38	123356	Nonfriable	Category I						Binders	Aggregate	Cellulose		

HOMOGENEOUS SAMPLING AREA ID: 15 Red Floor Tile Mastic QUANTITY OF ACBM:

Sample ID	Laboratory ID	Friability	NESHAP Code	ASBESTOS CONTENT: CHRYSO	AMOSITE	CROCID	ACT-TRE	ANTHO	OTHER MATERIALS: MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5
39	123357	Nonfriable	Category II						Binders				
40	123358	Nonfriable	Category II						Binders				
41	123359	Nonfriable	Category II						Binders				

APPENDIX C

FIELD SAMPLE DATA

Facility Number: 13140
Sample Number: 1 Date Collected: 5-Nov-92

HSA: 1 DESCRIPTION: 12" x 12" Tan Floor Tile

Sample Location: Room 617
Bounding Description: 0' from east wall, 1' from south wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos Content:	1
Population:	0		
Total Exposure Values:	0	Total Damage Values:	1

Quality Assurance: Accepted: mow Date: 2/23/93

Laboratory Results:

Laboratory ID: 123319 Date Analyzed: 21-Dec-92

Chrysotile:	03-03	Other Materials:	Binders
Amosite:			Aggregate
Crocidolite:			
Actinolite-Tremolite:			
Anthophyllite:			

Ratings:

Asbestos Content: Actual: 1 Applied: 1

Air Force Priority: 6

GRADE: 11.8641

Facility Number: 13140
Sample Number: 2 Date Collected: 5-Nov-92

HSA: 1 DESCRIPTION: 12" x 12" Tan Floor Tile

Sample Location: Room 617
Bounding Description: 0' from east wall, 1' from south wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos Content:	1
Population:	0		
Total Exposure Values:	0	Total Damage Values:	1

Quality Assurance: Accepted: mcw Date: 2/23/93

Laboratory Results:

Laboratory ID: Date Analyzed:

Chrysotile: Other Materials:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: Applied: 1

Air Force Priority: 6

GRADE: 11.8641

Facility Number: 13140
Sample Number: 3 Date Collected: 5-Nov-92

HSA: 1 DESCRIPTION: 12" x 12" Tan Floor Tile

Sample Location: Room 617
Bounding Description: 0' from west wall, 1' from north wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	1
Total Exposure Values:	0	Total Damage Values:	1

Quality Assurance: Accepted: MOW Date: 2/23/93

Laboratory Results:

Laboratory ID: Date Analyzed:

Chrysotile: Other Materials:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: Applied: 1

Air Force Priority: 6

GRADE: 11.8641

Facility Number: 13140
Sample Number: 4 Date Collected: 5-Nov-92

HSA: 2 DESCRIPTION: Tan Floor Tile Mastic

Sample Location: Room 617
Bounding Description: 0' from east wall, 1' from south wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos Content:	1
Population:	0		
Total Exposure Values:	0	Total Damage Values:	1

Quality Assurance: Accepted: mow Date: 2/23/93

Laboratory Results:

Laboratory ID: 123322 Date Analyzed: 21-Dec-92

Chrysotile: 05-05 Other Materials: Bitumen
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 1 Applied: 1

Air Force Priority: 6

GRADE: 11.8641

Facility Number: 13140
Sample Number: 5 Date Collected: 5-Nov-92

HSA: 2 DESCRIPTION: Tan Floor Tile Mastic

Sample Location: Room 617
Bounding Description: 0′ from east wall, 1′ from south wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	1
Total Exposure Values:	0	Total Damage Values:	1

Quality Assurance: Accepted: mow Date: 2/23/93

Laboratory Results:

Laboratory ID: Date Analyzed:

Chrysotile: Other Materials:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: Applied: 1

Air Force Priority: 6

GRADE: 11.8641

Facility Number: 13140
Sample Number: 6 Date Collected: 5-Nov-92

HSA: 2 DESCRIPTION: Tan Floor Tile Mastic

Sample Location: Room 617
Bounding Description: 0′ from west wall, 1′ from north wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos Content:	1
Population:	0		
Total Exposure Values:	0	Total Damage Values:	1

Quality Assurance: Accepted: mow Date: 2/23/93

Laboratory Results:

Laboratory ID: Date Analyzed:

Chrysotile: Other Materials:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: Applied: 1

Air Force Priority: 6

GRADE: 11.8641

Facility Number: 13140
Sample Number: 7 Date Collected: 5-Nov-92

HSA: 3 DESCRIPTION: 12" x 12" Brown Floor Tile

Sample Location: Room 617
Bounding Description: 0' from west wall, 3' from south wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mdw Date: 2/23/93

Laboratory Results:

Laboratory ID: 123325 Date Analyzed: 21-Dec-92

Chrysotile:		Other Materials:	Binders
Amosite:			Aggregate
Crocidolite:			
Actinolite-Tremolite:			
Anthophyllite:			

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 8 Date Collected: 5-Nov-92

HSA: 3 DESCRIPTION: 12" x 12" Brown Floor Tile

Sample Location: Room 617
Bounding Description: 0' from west wall, 3' from south wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mcw Date: 2/23/93

Laboratory Results:

Laboratory ID: 123326 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Binders
Vermiculite

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 9 Date Collected: 5-Nov-92

HSA: 3 DESCRIPTION: 12" x 12" Brown Floor Tile

Sample Location: Room 617
Bounding Description: 0′ from west wall, 3′ from south wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: MOW Date: 2/23/93

Laboratory Results:

Laboratory ID: 123327 Date Analyzed: 21-Dec-92

Chrysotile:		Other Materials:	Binders
Amosite:			Aggregate
Crocidolite:			
Actinolite-Tremolite:			
Anthophyllite:			

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 10 Date Collected: 5-Nov-92

HSA: 4 DESCRIPTION: Brown Floor Tile Mastic

Sample Location: Room 617
Bounding Description: 0' from west wall, 3' from south wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mcb Date: 2/23/93

Laboratory Results:

Laboratory ID: 123328 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Mastic
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 11 Date Collected: 5-Nov-92

HSA: 4 DESCRIPTION: Brown Floor Tile Mastic

Sample Location: Room 617
Bounding Description: 0′ from west wall, 3′ from south wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mcw Date: 2/23/93

Laboratory Results:

Laboratory ID: 123329 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Mastic
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 12 Date Collected: 5-Nov-92

HSA: 4 DESCRIPTION: Brown Floor Tile Mastic

Sample Location: Room 617
Bounding Description: 0' from west wall, 3' from south wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos Content:	0
Population:	0		
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mcw Date: 2/23/93

Laboratory Results:

Laboratory ID: 123330 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Mastic

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 14 Date Collected: 5-Nov-92

HSA: 6 DESCRIPTION: 1' x 1' Acoustical Tile

Sample Location: Third Floor Above Lounge Area
Bounding Description: 0' from west wall, 4' from north wall

Friable Code: 1 NESHAP Code:

Exposure Values:		Damage Values:	
Area of Visible Material:	3	Physical Damage:	0
Wall Texture:	1	Water Damage:	0
Ventilation:	0	Proximity Value:	2
Activity:	0	Type of Material:	1
Air Movement:	0	Potential for Contact:	2
Floor:	4		
Barrier Value:	1	Applied Asbestos	
Population:	3	Content:	0
Total Exposure Values:	13	Total Damage Values:	5

Quality Assurance: Accepted: mow Date: 2/23/93

Laboratory Results:

Laboratory ID: 123332 Date Analyzed: 21-Dec-92

Chrysotile:		Other Materials:	Mineral Wool
Amosite:			Binders
Crocidolite:			Cellulose
Actinolite-Tremolite:			Perlite
Anthophyllite:			

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 15 Date Collected: 5-Nov-92

HSA: 7 DESCRIPTION: 12" x 12" Yellow Floor Tile

Sample Location: Third Floor Janitor's Closet
Bounding Description: 0' from north wall, 2' from east wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos Content:	0
Population:	0		
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mow Date: 2/23/93

Laboratory Results:

Laboratory ID: 123333 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Binders
Aggregate

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 16 Date Collected: 5-Nov-92

HSA: 7 DESCRIPTION: 12" x 12" Yellow Floor Tile

Sample Location: Third Floor Janitor's Closet
Bounding Description: 0' from north wall, 2' from east wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mdw Date: 2/23/93

Laboratory Results:

Laboratory ID: 123334 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Binders
Aggregate

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 17 Date Collected: 5-Nov-92

HSA: 7 DESCRIPTION: 12" x 12" Yellow Floor Tile

Sample Location: Third Floor Janitor's Closet
Bounding Description: 0' from north wall, 2' from east wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mcw Date: 2/23/93

Laboratory Results:

Laboratory ID: 123335 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Binders
Aggregate

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 18 Date Collected: 5-Nov-92

HSA: 8 DESCRIPTION: Yellow Floor Tile Mastic

Sample Location: Third Floor Janitor's Closet
Bounding Description: 0' from north wall, 2' from east wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mcs Date: 2/23/93

Laboratory Results:

Laboratory ID: 123336 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Mastic
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 19 Date Collected: 5-Nov-92

HSA: 8 DESCRIPTION: Yellow Floor Tile Mastic

Sample Location: Third Floor Janitor's Closet
Bounding Description: 0' from north wall, 2' from east wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mcw Date: 2/23/93

Laboratory Results:

Laboratory ID: 123337 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Mastic
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 20 Date Collected: 5-Nov-92

HSA: 8 DESCRIPTION: Yellow Floor Tile Mastic

Sample Location: Third Floor Janitor's Closet
Bounding Description: 0' from north wall, 2' from east wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mcw Date: 2/23/93

Laboratory Results:

Laboratory ID: 123338 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Mastic
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 21 Date Collected: 5-Nov-92

HSA: 9 DESCRIPTION: Carpet Mastic

Sample Location: Room 617
Bounding Description: 0′ from west wall, 1′ from north wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos Content:	0
Population:	0		
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: MOW Date: 2/23/93

Laboratory Results:

Laboratory ID: 123339 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Mastic
Synthetic

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 22 Date Collected: 5-Nov-92

HSA: 10 DESCRIPTION: Trowled-on Wall Plaster

Sample Location: Room 617
Bounding Description: 0′ from east wall, 2′ from south wall

Friable Code: 1 NESHAP Code:

Exposure Values:		Damage Values:	
Area of Visible Material:	3	Physical Damage:	1
Wall Texture:	1	Water Damage:	0
Ventilation:	0	Proximity Value:	2
Activity:	0	Type of Material:	4
Air Movement:	0	Potential for Contact:	2
Floor:	4		
Barrier Value:	4	Applied Asbestos Content:	0
Population:	3		
Total Exposure Values:	16	Total Damage Values:	9

Quality Assurance: Accepted: mcw Date: 2/23/93

Laboratory Results:

Laboratory ID: 123340 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Binders
Cellulose

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 23 Date Collected: 5-Nov-92

HSA: 10 DESCRIPTION: Trowled-on Wall Plaster

Sample Location: Third Floor Janitor's Closet
Bounding Description: 0' from south wall, 2' from east wall

Friable Code: 1 NESHAP Code:

Exposure Values:		Damage Values:	
Area of Visible Material:	3	Physical Damage:	1
Wall Texture:	1	Water Damage:	0
Ventilation:	0	Proximity Value:	2
Activity:	0	Type of Material:	4
Air Movement:	0	Potential for Contact:	2
Floor:	4		
Barrier Value:	4	Applied Asbestos Content:	0
Population:	3		
Total Exposure Values:	16	Total Damage Values:	9

Quality Assurance: Accepted: mcs Date: 2/23/93

Laboratory Results:

Laboratory ID: 123341 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Binders
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 24 Date Collected: 5-Nov-92

HSA: 10 DESCRIPTION: Trowled-on Wall Plaster

Sample Location: Second Floor Janitor's Closet
Bounding Description: 0' from north wall, 2' from west wall

Friable Code: 1 NESHAP Code:

Exposure Values:		Damage Values:	
Area of Visible Material:	3	Physical Damage:	1
Wall Texture:	1	Water Damage:	0
Ventilation:	0	Proximity Value:	2
Activity:	0	Type of Material:	4
Air Movement:	0	Potential for Contact:	2
Floor:	4		
Barrier Value:	4	Applied Asbestos	
Population:	3	Content:	0
Total Exposure Values:	16	Total Damage Values:	9

Quality Assurance: Accepted: MDW Date: 2/23/93

Laboratory Results:

Laboratory ID: 123342 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Binders
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 25 Date Collected: 5-Nov-92

HSA: 10 DESCRIPTION: Trowled-on Wall Plaster

Sample Location: Second Floor Janitor's Closet
Bounding Description: 0' from north wall, 2' from west wall

Friable Code: 1 NESHAP Code:

Exposure Values:		Damage Values:	
Area of Visible Material:	3	Physical Damage:	1
Wall Texture:	1	Water Damage:	0
Ventilation:	0	Proximity Value:	2
Activity:	0	Type of Material:	4
Air Movement:	0	Potential for Contact:	2
Floor:	4		
Barrier Value:	4	Applied Asbestos Content:	0
Population:	3		
Total Exposure Values:	16	Total Damage Values:	9

Quality Assurance: Accepted: mow Date: 2/23/93

Laboratory Results:

Laboratory ID: 123343 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Binders
Cellulose

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 26 Date Collected: 5-Nov-92

HSA: 10 DESCRIPTION: Trowled-on Wall Plaster

Sample Location: First Floor Janitor's Closet
Bounding Description: 0' from north wall, 2' from west wall

Friable Code: 1 NESHAP Code:

Exposure Values:		Damage Values:	
Area of Visible Material:	3	Physical Damage:	1
Wall Texture:	1	Water Damage:	0
Ventilation:	0	Proximity Value:	2
Activity:	0	Type of Material:	4
Air Movement:	0	Potential for Contact:	2
Floor:	4		
Barrier Value:	4	Applied Asbestos	
Population:	3	Content:	0
Total Exposure Values:	16	Total Damage Values:	9

Quality Assurance: Accepted: mcs Date: 2/23/93

Laboratory Results:

Laboratory ID: 123344 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Binders
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 27 Date Collected: 5-Nov-92

HSA: 10 DESCRIPTION: Trowled-on Wall Plaster

Sample Location: First Floor Janitor's Closet
Bounding Description: 0' from north wall, 2' from west wall

Friable Code: 1 NESHAP Code:

Exposure Values:		Damage Values:	
Area of Visible Material:	3	Physical Damage:	1
Wall Texture:	1	Water Damage:	0
Ventilation:	0	Proximity Value:	2
Activity:	0	Type of Material:	4
Air Movement:	0	Potential for Contact:	2
Floor:	4		
Barrier Value:	4	Applied Asbestos Content:	0
Population:	3		
Total Exposure Values:	16	Total Damage Values:	9

Quality Assurance: Accepted: MOW Date: 2/23/93

Laboratory Results:

Laboratory ID: 123345 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Binders
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 28 Date Collected: 5-Nov-92

HSA: 10 DESCRIPTION: Trowled-on Wall Plaster

Sample Location: First Floor Janitor's Closet
Bounding Description: 0' from north wall, 2' from west wall

Friable Code: 1 NESHAP Code:

Exposure Values:		Damage Values:	
Area of Visible Material:	3	Physical Damage:	1
Wall Texture:	1	Water Damage:	0
Ventilation:	0	Proximity Value:	2
Activity:	0	Type of Material:	4
Air Movement:	0	Potential for Contact:	2
Floor:	4		
Barrier Value:	4	Applied Asbestos	
Population:	3	Content:	0
Total Exposure Values:	16	Total Damage Values:	9

Quality Assurance: Accepted: mod Date: 2/23/93

Laboratory Results:

Laboratory ID: 123346 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Binders
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 29 Date Collected: 5-Nov-92

HSA: 11 DESCRIPTION: Leveling Compound

Sample Location: Room 617
Bounding Description: 0' from west wall, 1' from north wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: MOW Date: 2/23/93

Laboratory Results:

Laboratory ID: 123347 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Binders
Synthetics

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 30 Date Collected: 5-Nov-92

HSA: 12 DESCRIPTION: 12" x 12" Brown Floor Tile

Sample Location: Second Floor Janitor's Closet
Bounding Description: 0' from west wall, 2' from north wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: MSW Date: 2/23/93

Laboratory Results:

Laboratory ID: 123348 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Binders
Aggregate

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 31 Date Collected: 5-Nov-92

HSA: 12 DESCRIPTION: 12" x 12" Brown Floor Tile

Sample Location: Second Floor Janitor's Closet
Bounding Description: 0' from west wall, 2' from north wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mow Date: 2/23/93

Laboratory Results:

Laboratory ID: 123349 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Binders
Aggregate

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 32 Date Collected: 5-Nov-92

HSA: 12 DESCRIPTION: 12" x 12" Brown Floor Tile

Sample Location: Second Floor Janitor's Closet
Bounding Description: 0' from west wall, 2' from north wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mow Date: 2/23/93

Laboratory Results:

Laboratory ID: 123350 Date Analyzed: 21-Dec-92

Chrysotile:		Other Materials:	Binders
Amosite:			Aggregate
Crocidolite:			
Actinolite-Tremolite:			
Anthophyllite:			

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 33 Date Collected: 5-Nov-92

HSA: 13 DESCRIPTION: Brown Floor Tile Mastic

Sample Location: Second Floor Janitor's Closet
Bounding Description: 0' from west wall, 2' from north wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: MOW Date: 2/23/93

Laboratory Results:

Laboratory ID: 123351 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Mastic
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 34 Date Collected: 5-Nov-92

HSA: 13 DESCRIPTION: Brown Floor Tile Mastic

Sample Location: Second Floor Janitor's Closet
Bounding Description: 0' from west wall, 2' from north wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mdw Date: 2/23/93

Laboratory Results:

Laboratory ID: 123352 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Binders
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 35 Date Collected: 5-Nov-92

HSA: 13 DESCRIPTION: Brown Floor Tile Mastic

Sample Location: Second Floor Janitor's Closet
Bounding Description: 0' from west wall, 2' from north wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos Content:	0
Population:	0		
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: MDW Date: 2/23/93

Laboratory Results:

Laboratory ID: 123353 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Binders
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 36 Date Collected: 5-Nov-92

HSA: 14 DESCRIPTION: 12" x 12" Red Floor Tile

Sample Location: First Floor Janitor's Closet
Bounding Description: 0' from west wall, 2' from north wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mow Date: 2/23/93

Laboratory Results:

Laboratory ID: 123354 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Binders
Aggregate
Synthetics

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 37 Date Collected: 5-Nov-92

HSA: 14 DESCRIPTION: 12" x 12" Red Floor Tile

Sample Location: First Floor Janitor's Closet
Bounding Description: 0' from west wall, 2' from north wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mdw Date: 2/23/93

Laboratory Results:

Laboratory ID: 123355 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Binders
Aggregate

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 38 Date Collected: 5-Nov-92

HSA: 14 DESCRIPTION: 12" x 12" Red Floor Tile

Sample Location: First Floor Janitor's Closet
Bounding Description: 0' from west wall, 2' from north wall

Friable Code: 0 NESHAP Code: 1

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mdw Date: 2/23/93

Laboratory Results:

Laboratory ID: 123356 Date Analyzed: 21-Dec-92

Chrysotile:		Other Materials:	Binders
Amosite:			Aggregate
Crocidolite:			Cellulose
Actinolite-Tremolite:			
Anthophyllite:			

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 39 Date Collected: 5-Nov-92

HSA: 15 DESCRIPTION: Red Floor Tile Mastic

Sample Location: First Floor Janitor's Closet
Bounding Description: 0' from west wall, 2' from north wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: MOW Date: 2/23/93

Laboratory Results:

Laboratory ID: 123357 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Binders
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 40 Date Collected: 5-Nov-92

HSA: 15 DESCRIPTION: Red Floor Tile Mastic

Sample Location: First Floor Janitor's Closet
Bounding Description: 0' from west wall, 2' from north wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mow Date: 2/23/93

Laboratory Results:

Laboratory ID: 123358 Date Analyzed: 21-Dec-92

Chrysotile:
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Other Materials: Binders

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

Facility Number: 13140
Sample Number: 41 Date Collected: 5-Nov-92

HSA: 15 DESCRIPTION: Red Floor Tile Mastic

Sample Location: First Floor Janitor's Closet
Bounding Description: 0' from west wall, 2' from north wall

Friable Code: 0 NESHAP Code: 2

Exposure Values:		Damage Values:	
Area of Visible Material:	0	Physical Damage:	0
Wall Texture:	0	Water Damage:	0
Ventilation:	0	Proximity Value:	0
Activity:	0	Type of Material:	0
Air Movement:	0	Potential for Contact:	0
Floor:	0		
Barrier Value:	0	Applied Asbestos	
Population:	0	Content:	0
Total Exposure Values:	0	Total Damage Values:	0

Quality Assurance: Accepted: mow Date: 2/23/93

Laboratory Results:

Laboratory ID: 123359 Date Analyzed: 21-Dec-92

Chrysotile: Other Materials: Binders
Amosite:
Crocidolite:
Actinolite-Tremolite:
Anthophyllite:

Ratings:

Asbestos Content: Actual: 0 Applied: 0

Air Force Priority: 0

GRADE: 0.0000

APPENDIX D

LABORATORY REPORTS

ENVIRONMENTAL
TECHNOLOGY
SERVICES, INC.

January 29, 1993

Pacific Environmental Services,Inc.
560 Herndon Parkway, Suite 200
Herndon, VA 22070-5225
Attention: Ms. Pam Reuille

Project name: F008.001 - Bldg. 13140 12/21/92

ETS Job Number: BSA-7510-3505

Dear Sir/Madam:

Please find enclosed the results of the bulk sample analysis for the above referenced project. All analyses are performed in accordance with the EPA "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/M4-82-020, Dec. 1982. These test results apply only to those samples actually tested.

It is certified by the signature below that the laboratory is accredited by the National Voluntary Accreditation Program (NVLAP) for Bulk Asbestos Analysis (Lab code 1001) administered by National Institute of Standards and Technology. NVLAP Bulk Asbestos Accreditation does not include the analysis of floor tiles. This report must not be reproduced except in full with the approval of Environmental Technology Services, Inc. Reports of these analyses must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

All the samples received for this project will be retained for six (6) months before being disposed of. If you intend to retain possession of the samples, please complete the information below, and return a copy of this letter to us. A $10.00 handling fee and postage will be charged for each set of samples returned.

We are pleased to provide this service to you and are looking forward to working with you in the near future. If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely submitted,

Greg Hedrick
Bulk Sample Laboratory Manager
Enclosure

Please return all the samples for the above stated project, and invoice my account.

_____ _____

Name & Title Signature & Date

Atlanta Office:
2030 POWERS FERRY ROAD
SUITE 460
ATLANTA, GA 30339
(404) 612-4343
FAX: (404) 612-4344

Nashville Office:
51 CENTURY BOULEVARD
SUITE 111
NASHVILLE, TN 37214
(615) 885-4343
FAX: (615) 872-9179

Orlando Office:
3700 N. HARBOR CITY BOULEVARD
SUITE 1E
MELBOURNE, FL 32935
(407) 255-9988
FAX: (407) 255-0095

San Juan Office:
106 DE DIEGO • BOX 171
SANTURCE, PUERTO RICO 00907
(809) 728-6324

ENVIRONMENTAL TECHNOLOGY SERVICES, INC.
2030 Powers Ferry Road, Suite 460
Atlanta, Georgia 30339
(404)612-4343

SAMPLE 1 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-001 ETS LAB ID NO.: 123319

SAMPLE LOCATION: HSA 001 - 12x12 tan floor tile

GROSS SAMPLE APPEARANCE: tan cemented hard resinous to granular

ASBESTOS FIBERS *

CHRYSOTILE:	3
AMOSITE:	0
CROCIDOLITE:	0
ACTINOLITE:	0
TREMOLITE:	0
ANTHOPHYLLITE:	0

NON-ASBESTOS FIBERS *

GLASS FIBERS:	0
MINERAL WOOL:	0
CELLULOSE:	0
ANIMAL HAIR:	0
SYNTHETICS:	0
WOLLASTONITE:	0

NON-FIBROUS MATERIALS *

PERLITE:	0
VERMICULITE:	0
AGGREGATE:	30
BITUMEN:	0

OTHERS *

BINDERS:	67
	0
	0
	0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 2 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-002 ETS LAB ID NO.: 123320

SAMPLE LOCATION: HSA 001 - 12x12 tan floor tile

GROSS SAMPLE APPEARANCE: No Analysis Performed on Request of Client

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	0
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 3 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-003 ETS LAB ID NO.: 123321

SAMPLE LOCATION: HSA 001 - 12x12 tan floor tile

GROSS SAMPLE APPEARANCE: No analysis performed on request of client.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	0
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 4 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-004 ETS LAB ID NO.: 123322

SAMPLE LOCATION: HSA 002 - floor tile mastic

GROSS SAMPLE APPEARANCE: Black Bitumenous to fibrous.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	5	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	0
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	95		0

COMMENTS: Asbestos detected in bitumen which contains 5% chrysotile.

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 5 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-005 ETS LAB ID NO.: 123323

SAMPLE LOCATION: HSA 002 - floor tile mastic

GROSS SAMPLE APPEARANCE: No analysis performed on request of client.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	0
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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SAMPLE 6 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-006 ETS LAB ID NO.: 123324

SAMPLE LOCATION: HSA 002 - floor tile mastic

GROSS SAMPLE APPEARANCE: No analysis performed on request of client.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	0
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 7 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-007 ETS LAB ID NO.: 123325

SAMPLE LOCATION: HSA 003 - 12x12 brown floor tile

GROSS SAMPLE APPEARANCE: Brown cemented hard resinous to granular.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	70
VERMICULITE:	0		0
AGGREGATE:	30		0
BITUMEN:	0		0

COMMENTS: No asbestos detected in tile.
For further analysis, client may wish to try transmission electron microscopy.

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 8 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-008 ETS LAB ID NO.: 123326

SAMPLE LOCATION: HSA 003 - 12x12 brown floor tile

GROSS SAMPLE APPEARANCE: Brown cemented hard resinous to granular.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	70
VERMICULITE:	30		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS: No asbestos detected in tile. For further analysis, client may wish to try transmission electron microscopy.

(* Percent by volume visually estimated.)

MICROANALYST:

Weiping Jiang

QUALITY CONTROL:

Marshall Neely

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SAMPLE 9 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-009 ETS LAB ID NO.: 123327

SAMPLE LOCATION: HSA 003 - 12x12 brown floor tile

GROSS SAMPLE APPEARANCE: Brown cemented hard resinous to granular.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	70
VERMICULITE:	0		0
AGGREGATE:	30		0
BITUMEN:	0		0

COMMENTS: No absestos detected in tile. For further analysis, client may wish to try transmission electron microscopy.

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 10 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-010 ETS LAB ID NO.: 123328

SAMPLE LOCATION: HSA 004 - floor tile mastic

GROSS SAMPLE APPEARANCE: Tan Mastic.

ASBESTOS FIBERS *

CHRYSOTILE:	0
AMOSITE:	0
CROCIDOLITE:	0
ACTINOLITE:	0
TREMOLITE:	0
ANTHOPHYLLITE:	0

NON-ASBESTOS FIBERS *

GLASS FIBERS:	0
MINERAL WOOL:	0
CELLULOSE:	0
ANIMAL HAIR:	0
SYNTHETICS:	0
WOLLASTONITE:	0

NON-FIBROUS MATERIALS *

PERLITE:	0
VERMICULITE:	0
AGGREGATE:	0
BITUMEN:	0

OTHERS *

BINDERS:	0
Mastic	100
	0
	0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 11 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-011 ETS LAB ID NO.: 123329

SAMPLE LOCATION: HSA 004 - floor tile mastic

GROSS SAMPLE APPEARANCE: Tan Mastic.

ASBESTOS FIBERS *

CHRYSOTILE:	0
AMOSITE:	0
CROCIDOLITE:	0
ACTINOLITE:	0
TREMOLITE:	0
ANTHOPHYLLITE:	0

NON-ASBESTOS FIBERS *

GLASS FIBERS:	0
MINERAL WOOL:	0
CELLULOSE:	0
ANIMAL HAIR:	0
SYNTHETICS:	0
WOLLASTONITE:	0

NON-FIBROUS MATERIALS *

PERLITE:	0
VERMICULITE:	0
AGGREGATE:	0
BITUMEN:	0

OTHERS *

BINDERS:	0
Mastic	100
	0
	0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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SAMPLE 12 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-012 ETS LAB ID NO.: 123330

SAMPLE LOCATION: HSA 004 - floor tile mastic

GROSS SAMPLE APPEARANCE: Tan Mastic.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	0
VERMICULITE:	0	Mastic	100
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 13 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-013 ETS LAB ID NO.: 123331

SAMPLE LOCATION: SAMPLE NOT COLLECTED

GROSS SAMPLE APPEARANCE: No sample collected.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	0
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 14 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-014 ETS LAB ID NO.: 123332

SAMPLE LOCATION: HSA 006 - 1x1 acoustical tile

GROSS SAMPLE APPEARANCE: Gray compact fibrous to powdey w/paint.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	50
CROCIDOLITE:	0	CELLULOSE:	10
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	3	BINDERS:	37
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS: Paint included as binder.

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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SAMPLE 15 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-015 ETS LAB ID NO.: 123333

SAMPLE LOCATION: HSA 007 - 12x12 yellow floor tile

GROSS SAMPLE APPEARANCE: Yellow cemented hard resinous to granular.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	70
VERMICULITE:	0		0
AGGREGATE:	30		0
BITUMEN:	0		0

COMMENTS: No asbestos detected in tile.
For further analysis, client may wish to try transmission electron microscopy.

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 16 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-016 ETS LAB ID NO.: 123334

SAMPLE LOCATION: HSA 007 - 12x12 yellow floor tile

GROSS SAMPLE APPEARANCE: Yellow cemented had resinous to granular.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	70
VERMICULITE:	0		0
AGGREGATE:	30		0
BITUMEN:	0		0

COMMENTS: No asbestos detected in tile. For further analysis, client may wish to try transmission electron microscopy.

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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SAMPLE 17 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-017 ETS LAB ID NO.: 123335

SAMPLE LOCATION: HSA 007 - 12x12 yellow floor tile

GROSS SAMPLE APPEARANCE: Yellow cemented hard resinous to granular.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	70
VERMICULITE:	0		0
AGGREGATE:	30		0
BITUMEN:	0		0

COMMENTS: No asbestos detected in tile. For futher analysis, client may wish to try transmission electron microscopy.

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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SAMPLE 18 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-018 ETS LAB ID NO.: 123336

SAMPLE LOCATION: HSA 008 - floor tile mastic

GROSS SAMPLE APPEARANCE: Tan Mastic.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	0
VERMICULITE:	0	Mastic	100
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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SAMPLE 19 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-019 ETS LAB ID NO.: 123337

SAMPLE LOCATION: HSA 008 - floor tile mastic

GROSS SAMPLE APPEARANCE: Tan Mastic.

ASBESTOS FIBERS *

CHRYSOTILE:	0
AMOSITE:	0
CROCIDOLITE:	0
ACTINOLITE:	0
TREMOLITE:	0
ANTHOPHYLLITE:	0

NON-ASBESTOS FIBERS *

GLASS FIBERS:	0
MINERAL WOOL:	0
CELLULOSE:	0
ANIMAL HAIR:	0
SYNTHETICS:	0
WOLLASTONITE:	0

NON-FIBROUS MATERIALS *

PERLITE:	0
VERMICULITE:	0
AGGREGATE:	0
BITUMEN:	0

OTHERS *

BINDERS:	0
Mastic	100
	0
	0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:

Weiping Jiang

QUALITY CONTROL:

Marshall Neely

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SAMPLE 20 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-020 ETS LAB ID NO.: 123338

SAMPLE LOCATION: HSA 008 - floor tile mastic

GROSS SAMPLE APPEARANCE: Tan Mastic.

ASBESTOS FIBERS *

CHRYSOTILE:	0
AMOSITE:	0
CROCIDOLITE:	0
ACTINOLITE:	0
TREMOLITE:	0
ANTHOPHYLLITE:	0

NON-ASBESTOS FIBERS *

GLASS FIBERS:	0
MINERAL WOOL:	0
CELLULOSE:	0
ANIMAL HAIR:	0
SYNTHETICS:	0
WOLLASTONITE:	0

NON-FIBROUS MATERIALS *

PERLITE:	0
VERMICULITE:	0
AGGREGATE:	0
BITUMEN:	0

OTHERS *

BINDERS:	0
Mastic	100
	0
	0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:

Weiping Jiang

QUALITY CONTROL:

Marshall Neely

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SAMPLE 21 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-021 ETS LAB ID NO.: 123339

SAMPLE LOCATION: HSA 009 - carpet mastic

GROSS SAMPLE APPEARANCE: Tan Mastic w/fiber.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	2
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	0
VERMICULITE:	0	Mastic	98
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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SAMPLE 22 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-022 ETS LAB ID NO.: 123340

SAMPLE LOCATION: HSA 010 - trowled on wall plaster

GROSS SAMPLE APPEARANCE: White compact powdery to fibrous w/paint.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	< 1
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	100
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS: Paint included as binder.

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 23 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-023 ETS LAB ID NO.: 123341

SAMPLE LOCATION: HSA 010 - trowled on wall plaster

GROSS SAMPLE APPEARANCE: White compact powdery w/paint.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	100
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS: Painy included as binder.

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 24 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-024 ETS LAB ID NO.: 123342

SAMPLE LOCATION: HSA 010 - trowled on wall plaster

GROSS SAMPLE APPEARANCE: White compact powdery w/paint.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	100
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS: Paint included as binder.

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 25 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-025 ETS LAB ID NO.: 123343

SAMPLE LOCATION: HSA 010 - trowled on wall plaster

GROSS SAMPLE APPEARANCE: White compact powdey to fibrous w/paint.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	15
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	85
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS: Paint included as binder.

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 26 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-026 ETS LAB ID NO.: 123344

SAMPLE LOCATION: HSA 010 - trowled on wall plaster

GROSS SAMPLE APPEARANCE: White compact powdey w/paint.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	100
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS: Paint included as binder.

(* Percent by volume visually estimated.)

MICROANALYST:

Weiping Jiang

QUALITY CONTROL:

Marshall Neely

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SAMPLE 27 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-027 ETS LAB ID NO.: 123345

SAMPLE LOCATION: HSA 010 - trowled on wall plaster

GROSS SAMPLE APPEARANCE: White compact powdey w/paint.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	100
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS: Paint included as binder.

(* Percent by volume visually estimated.)

MICROANALYST:

Weiping Jiang

QUALITY CONTROL:

Marshall Neely

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SAMPLE 28 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-028 ETS LAB ID NO.: 123346

SAMPLE LOCATION: HSA 010 - trowled on wall plaster

GROSS SAMPLE APPEARANCE: White compact powdey w/paint.

ASBESTOS FIBERS *

CHRYSOTILE:	0
AMOSITE:	0
CROCIDOLITE:	0
ACTINOLITE:	0
TREMOLITE:	0
ANTHOPHYLLITE:	0

NON-ASBESTOS FIBERS *

GLASS FIBERS:	0
MINERAL WOOL:	0
CELLULOSE:	0
ANIMAL HAIR:	0
SYNTHETICS:	0
WOLLASTONITE:	0

NON-FIBROUS MATERIALS *

PERLITE:	0
VERMICULITE:	0
AGGREGATE:	0
BITUMEN:	0

OTHERS *

BINDERS:	100
	0
	0
	0

COMMENTS: Paint included as binder.

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 29 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-029 ETS LAB ID NO.: 123347

SAMPLE LOCATION: HSA 011 - leveling compound

GROSS SAMPLE APPEARANCE: White compact powdey to fibrous.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	5
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	95
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 30 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-030 ETS LAB ID NO.: 123348

SAMPLE LOCATION: HSA 012 - 12x12 brown linoleum floor tile

GROSS SAMPLE APPEARANCE: Brown cemented hard resinous to granular.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	70
VERMICULITE:	0		0
AGGREGATE:	30		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 31 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-031 ETS LAB ID NO.: 123349

SAMPLE LOCATION: HSA 012 - 12x12 brown linoleum floor tile

GROSS SAMPLE APPEARANCE: Brown cemented hard resinous to granular.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	70
VERMICULITE:	0		0
AGGREGATE:	30		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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SAMPLE 32 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-032 ETS LAB ID NO.: 123350

SAMPLE LOCATION: HSA 012 - 12x12 brown linoleum floor tile

GROSS SAMPLE APPEARANCE: Brown cemented hard resinous to granular.

ASBESTOS FIBERS *

CHRYSOTILE:	0
AMOSITE:	0
CROCIDOLITE:	0
ACTINOLITE:	0
TREMOLITE:	0
ANTHOPHYLLITE:	0

NON-ASBESTOS FIBERS *

GLASS FIBERS:	0
MINERAL WOOL:	0
CELLULOSE:	0
ANIMAL HAIR:	0
SYNTHETICS:	0
WOLLASTONITE:	0

NON-FIBROUS MATERIALS *

PERLITE:	0
VERMICULITE:	0
AGGREGATE:	30
BITUMEN:	0

OTHERS *

BINDERS:	70
	0
	0
	0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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SAMPLE 33 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-033 ETS LAB ID NO.: 123351

SAMPLE LOCATION: HSA 013 - floor tile mastic

GROSS SAMPLE APPEARANCE: Tan Mastic.

ASBESTOS FIBERS *

CHRYSOTILE:	0
AMOSITE:	0
CROCIDOLITE:	0
ACTINOLITE:	0
TREMOLITE:	0
ANTHOPHYLLITE:	0

NON-ASBESTOS FIBERS *

GLASS FIBERS:	0
MINERAL WOOL:	0
CELLULOSE:	0
ANIMAL HAIR:	0
SYNTHETICS:	0
WOLLASTONITE:	0

NON-FIBROUS MATERIALS *

PERLITE:	0
VERMICULITE:	0
AGGREGATE:	0
BITUMEN:	0

OTHERS *

BINDERS:	0
Mastic	100
	0
	0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:

Weiping Jiang

QUALITY CONTROL:

Marshall Neely

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SAMPLE 34 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-034 ETS LAB ID NO.: 123352

SAMPLE LOCATION: HSA 013 - floor tile mastic

GROSS SAMPLE APPEARANCE: Tan Mastic.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	100
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-035 ETS LAB ID NO.: 123353

SAMPLE LOCATION: HSA 013 - floor tile mastic

GROSS SAMPLE APPEARANCE: Tan Mastic.

ASBESTOS FIBERS *

CHRYSOTILE:	0
AMOSITE:	0
CROCIDOLITE:	0
ACTINOLITE:	0
TREMOLITE:	0
ANTHOPHYLLITE:	0

NON-ASBESTOS FIBERS *

GLASS FIBERS:	0
MINERAL WOOL:	0
CELLULOSE:	0
ANIMAL HAIR:	0
SYNTHETICS:	0
WOLLASTONITE:	0

NON-FIBROUS MATERIALS *

PERLITE:	0
VERMICULITE:	0
AGGREGATE:	0
BITUMEN:	0

OTHERS *

BINDERS:	100
	0
	0
	0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST: Weiping Jiang

QUALITY CONTROL: Marshall Neely

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SAMPLE 36 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-036 ETS LAB ID NO.: 123354

SAMPLE LOCATION: HSA 014 - 12x12 red floor tile

GROSS SAMPLE APPEARANCE: Red cemented hard resinous to granular w/fiber.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	2
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	68
VERMICULITE:	0		0
AGGREGATE:	30		0
BITUMEN:	0		0

COMMENTS: No asbestos detected in tile. For further analysis, client may wish to try transmission electron microscopy.

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-037 ETS LAB ID NO.: 123355

SAMPLE LOCATION: HSA 014 - 12x12 red floor tile

GROSS SAMPLE APPEARANCE: Red cemented hard resinous to granular.

ASBESTOS FIBERS *

CHRYSOTILE:	0
AMOSITE:	0
CROCIDOLITE:	0
ACTINOLITE:	0
TREMOLITE:	0
ANTHOPHYLLITE:	0

NON-ASBESTOS FIBERS *

GLASS FIBERS:	0
MINERAL WOOL:	0
CELLULOSE:	0
ANIMAL HAIR:	0
SYNTHETICS:	0
WOLLASTONITE:	0

NON-FIBROUS MATERIALS *

PERLITE:	0
VERMICULITE:	0
AGGREGATE:	30
BITUMEN:	0

OTHERS *

BINDERS:	70
	0
	0
	0

COMMENTS: No asbestos detected in tile. For further analysis, client may wish to try transmission electron microscopy.

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-038 ETS LAB ID NO.: 123356

SAMPLE LOCATION: HSA 014 - 12x12 red floor tile

GROSS SAMPLE APPEARANCE: Red cemented hard resinous to granular.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	2
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	68
VERMICULITE:	0		0
AGGREGATE:	30		0
BITUMEN:	0		0

COMMENTS: No asbestos detected in tile. For further analysis, client may wish to try transmission electron microscopy.

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: E008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-039 ETS LAB ID NO.: 123357

SAMPLE LOCATION: HSA 015 - floor tile mastic

GROSS SAMPLE APPEARANCE: Tan Mastic.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	100
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-040 ETS LAB ID NO.: 123358

SAMPLE LOCATION: HSA 015 - floor tile mastic

GROSS SAMPLE APPEARANCE: Tan Mastic.

ASBESTOS FIBERS *		NON-ASBESTOS FIBERS *	
CHRYSOTILE:	0	GLASS FIBERS:	0
AMOSITE:	0	MINERAL WOOL:	0
CROCIDOLITE:	0	CELLULOSE:	0
ACTINOLITE:	0	ANIMAL HAIR:	0
TREMOLITE:	0	SYNTHETICS:	0
ANTHOPHYLLITE:	0	WOLLASTONITE:	0

NON-FIBROUS MATERIALS *		OTHERS *	
PERLITE:	0	BINDERS:	100
VERMICULITE:	0		0
AGGREGATE:	0		0
BITUMEN:	0		0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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SAMPLE 41 OF 41

ETS JOB NO.: BSA-7510-3505

ASBESTOS BULK SAMPLE ANALYSIS

PROJECT NAME: F008.001 - Bldg. 13140 12/21/92

CLIENT NAME: Pacific Environmental Services,Inc.

SAMPLE ID NO.: 13140-041 ETS LAB ID NO.: 123359

SAMPLE LOCATION: HSA 015 - floor tile mastic

GROSS SAMPLE APPEARANCE: Tan Mastic.

ASBESTOS FIBERS *

CHRYSOTILE:	0
AMOSITE:	0
CROCIDOLITE:	0
ACTINOLITE:	0
TREMOLITE:	0
ANTHOPHYLLITE:	0

NON-ASBESTOS FIBERS *

GLASS FIBERS:	0
MINERAL WOOL:	0
CELLULOSE:	0
ANIMAL HAIR:	0
SYNTHETICS:	0
WOLLASTONITE:	0

NON-FIBROUS MATERIALS *

PERLITE:	0
VERMICULITE:	0
AGGREGATE:	0
BITUMEN:	0

OTHERS *

BINDERS:	100
	0
	0
	0

COMMENTS:

(* Percent by volume visually estimated.)

MICROANALYST:
Weiping Jiang

QUALITY CONTROL:
Marshall Neely

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