

ASBESTOS BUILDING INSPECTION

LOCATION:

**SMITH MEMORIAL STUDENT UNION
1825 SW BROADWAY
PORTLAND, OREGON 97201**

JULY 10, 2008

FORENSIC ANALYTICAL PROJECT NO. PJ5584

PREPARED FOR:

PORTLAND STATE UNIVERSITY
PO BOX 13175
PORTLAND, OREGON 97403

PREPARED BY:



Forensic Analytical Consulting Services, Inc.
Portland Office
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TABLE OF CONTENTS

1. INTRODUCTION
2. FINDINGS
3. RECOMMENDATIONS
4. METHODS
5. LIMITATIONS

APPENDICES

APPENDIX A: COMPLETE SAMPLE INVENTORY

APPENDIX B: SITE DRAWINGS

APPENDIX C: LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS

APPENDIX D: GLOSSARY OF TERMS

APPENDIX E: INSPECTOR ACCREDITATION

1.0 INTRODUCTION

Forensic Analytical Specialties, Inc. performed an inspection to identify asbestos-containing building materials at the property located at 1825 SW Broadway, Portland, Oregon. Noal Kraft, Dan Rouse and Robin Sharpe conducted the field investigation on June 13, 2008 at the direction of Kate Vance of Portland State University.

The purpose of the inspection is to determine whether ACM is present in the structures onsite. The subject property was constructed in four separate phases between 1956 and 1963 and consists of a four-story building with two basements totaling 169,196 sq. ft.

This report presents the results of the asbestos inspection conducted by Forensic Analytical Consulting Services, Inc. for the above referenced project. Results of the inspection are summarized in Appendix A.

Drawings depicting ACM and sample locations are presented in Appendix B. A detailed laboratory report and chain of custody forms are contained in Appendix C.

2.0 FINDINGS

The results of the samples indicate that asbestos was detected at the site. A complete table of the samples taken and materials assumed to contain asbestos can be found in Appendix A.

3.0 RECOMMENDATIONS

Materials for which sample analysis by PLM results in greater than one percent asbestos (for any one sample collected from a homogeneous material) are classified as ACM under regulations promulgated by, but not limited to, the following agencies: federal EPA and federal OSHA.

The agencies use the following definitions:

Federal EPA (Oregon DEQ): materials containing greater than one percent asbestos are ACM
Federal OSHA (OR-OSHA): materials containing greater than one percent asbestos are ACM

For detailed regulatory requirements in specific situations, Forensic Analytical should be consulted, or the applicable regulations should be examined.

All materials identified were classified by condition. Materials in "Good" condition should be maintained in place following the OR-OSHA operations and maintenance requirements. Materials in "Fair" condition should have patch and repair activities performed to address any damaged areas. Materials in "Poor" condition should be addressed through removal, repair and/or encapsulation.

4.0 METHODS

Materials suspected of containing asbestos were sampled in accordance with the federal EPA AHERA protocols. Materials determined by the inspector to be non-suspect, such as wood, metal, glass, and fiberglass insulation, were not sampled. Destructive sample techniques were not used during the inspection. Additional suspect building materials may be present in areas that were inaccessible, unsafe to inspect, or obscured from view during the inspection process.

Suspect materials were grouped and classified as homogeneous materials based on their appearance, usage, and age of the building. Representative samples of each homogeneous material were collected for laboratory analysis. Where previous sample data exists, one confirming sample was collected of materials that previously tested positive. Additionally, where multiple samples of a given homogeneous material were collected, the set was analyzed to first positive.

The unique sample description ID was developed specifically for PSU. The sample ID includes; the PSU building ID; the homogeneous material number; followed by a unique material code (FT = Floor Tile); and lastly the sample number.

Samples were collected in such a manner as to minimize release of the material into the surroundings. Material type, sample number, sample location and other pertinent information were recorded at the time of sampling. Each sample was placed in a sample container labeled with a unique sample number and submitted to Forensic Analytical's NVLAP-accredited laboratory for analysis under chain of custody documentation. Samples were analyzed in accordance with EPA Method 600/R-93-116, using PLM with dispersion staining and using visual area estimation to determine percent asbestos content. This method allows for the identification of the primary types of asbestos used in building materials. The lower limit of detection for this method is one percent. Samples containing less than one percent asbestos by PLM with visual area estimation are reported as Trace.

5.0 LIMITATIONS

Forensic Analytical did not inspect subsurface areas for asbestos. ACM such as underground waterproofing coatings, asbestos-cement water pipe, electrical ducts, or other subsurface materials or equipment may be present beneath the site. Forensic Analytical did not disassemble building equipment; such as fans, ducts, elevator equipment, and electrical equipment. Consequently, equipment may contain untested gaskets, internal components, overspray of building materials and the like. If the aforementioned materials or any other untested suspect materials are encountered during construction or maintenance activities, they should be assumed to be asbestos-containing materials and not disturbed, unless sampling and analysis of the materials proves otherwise.

At PSU's request, the roofs were not sampled as part of this inspection. In addition, the following areas were inaccessible at the time of the survey: S2, 57K, 64A, 102 and 426B.

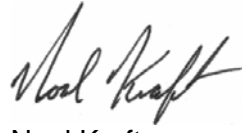
Forensic Analytical has performed this asbestos sampling in accordance with generally accepted methods and practices of the profession, and consistent with that level of care and skill ordinarily exercised by reputable environmental consultants under similar conditions and circumstances. No other representation, guarantee or warranty, express or implied, is included or intended in this asbestos inspection report.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read 'Dan Rouse', with a stylized, cursive script.

Dan Rouse

Reviewed by,

A handwritten signature in black ink, appearing to read 'Noal Kraft', with a stylized, cursive script.

Noal Kraft

APPENDIX A

COMPLETE SAMPLE INVENTORY

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
SMSU-01-DWJC-1	Drywall & Joint Compound	SMSU - C401	-	ND	-	-
SMSU-01-DWJC-2	Drywall & Joint Compound	SMSU - C301	-	ND	-	-
SMSU-01-DWJC-3	Drywall & Joint Compound	SMSU - V236	-	ND	-	-
SMSU-01-DWJC-4	Drywall & Joint Compound	SMSU - 258A	-	ND	-	-
SMSU-01-DWJC-5	Drywall & Joint Compound	SMSU - C101	-	ND	-	-
SMSU-01-DWJC-6	Drywall & Joint Compound	SMSU - SC2	-	ND	-	-
SMSU-01-DWJC-7	Drywall & Joint Compound	SMSU - Roof Area # 2	-	ND	-	-
SMSU-02-FT-1	Floor Tile, Tan Under Carpet, and Black Mastic, and Green Carpet Mastic	SMSU - C401	-	ND	-	-
SMSU-03-CB-1	Cove Base, 6" Black, and White Adhesive	SMSU - C401	-	ND	-	-
SMSU-04-CT-1	Ceiling Tile, 2' x 4', 2" x 2" Pattern Gouged w/ Pinholes	SMSU - C401	-	ND	-	-
SMSU-05-FP-1	Fireproofing, Sprayed - On	SMSU - C401	-	ND	-	-
SMSU-06-FT-1	Floor Tile, 9" x 9" Grey w/ White and Black Streaks, and Tan Mastic	SMSU - S410	-	ND	-	-
SMSU-07-ST-1	Stair Tread, Tan	SMSU - S410	-	ND	-	-

ND – Non-Detected

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
SMSU-08-ST-1	Stair Tread, Grey w/ White and Black Streaks	SMSU - S410	-	ND	-	-
SMSU-09-CT-1	Ceiling Tile, 2' x 2' Textured	SMSU - 439	-	ND	-	-
SMSU-10-PL-1	Plaster	SMSU - S410	-	ND	-	-
SMSU-10-PL-2	Plaster	SMSU - 332	-	ND	-	-
SMSU-10-PL-3	Plaster	SMSU - C101	-	ND	-	-
SMSU-10-PL-4	Plaster	SMSU - 198	-	ND	-	-
SMSU-10-PL-5	Plaster	SMSU - 194	-	ND	-	-
SMSU-10-PL-6	Plaster	SMSU - 59	-	ND	-	-
SMSU-10-PL-7	Plaster	SMSU - C8	-	ND	-	-
SMSU-11-CT-1	Ceiling Tile, 12" x 12" Holed, and Brown Adhesive	SMSU - 437	-	ND	-	-
SMSU-12-DST-1	Duct Seam Tape	SMSU - 453	Throughout Building	50% Chrysotile	Partially Inaccessible, not Quantified	Fair
SMSU-13-DW-1	Canvas Duct Wrap	SMSU - 453	-	ND	-	-

ND – Non-Detected

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
SMSU-14-FT-1	Floor Tile, 12" x 12" Off-White w/ Brown Streaks, and Yellow Mastic	SMSU - 421A	SMSU - 421A	2% Chrysotile Tile ND Mastic	180 sq. ft.	Fair
SMSU-15-TSI-1	Pipe Insulation Encapsulant	SMSU - 462A	-	ND	-	-
SMSU-15-TSI-2	Pipe Insulation Encapsulant	SMSU - 458F	-	ND	-	-
SMSU-15-TSI-3	Pipe Insulation Encapsulant	SMSU - S11	-	ND	-	-
SMSU-05-FP-2	Fireproofing	SMSU - 458F	-	ND	-	-
SMSU-16-FT-1	Floor Tile, 9" x 9" Green Streaked, and Black Mastic	SMSU - S401	SMSU - S401	3% Chrysotile Tile ND Mastic	190 sq. ft.	Good
SMSU-17-FT-1	Floor Tile, 9" x 9" Red-Orange Streaked, and Black Mastic	SMSU - S401	SMSU - S401, S301, S201, S101	3% Chrysotile Tile 2% Chrysotile Mastic	425 sq. ft.	Good
SMSU-18-ST-1	Stair Tread, Red-Orange	SMSU - S401	-	ND	-	-
SMSU-19-CT-1	Ceiling Tile, 2' x 4', Gypsum	SMSU - 355A	-	ND	-	-

ND – Non-Detected

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
SMSU-20-FP-1	Fireproofing, Sprayed-On	SMSU - 355D	Throughout Building - Areas have been removed or encapsulated, but the majority is still present	7% Chrysotile	105,515 sq. ft.	Fair
SMSU-21-FT-1	Floor Tile, 9" x 9" Dark Brown w/ White Specks, and Black Mastic	SMSU - 301C	SMSU - 301C	3% Chrysotile Tile ND Mastic	160 sq. ft.	Good
SMSU-22-FT-1	Floor Tile, 12" x 12" Grey Specked, and Black Mastic	SMSU - C305	-	ND	-	-
SMSU-23-TSI-1	Pipe Insulation	SMSU - 324A	Throughout	7% Chrysotile 5% Amosite	Not Quantified	Fair
SMSU-24-CT-1	Ceiling Tile, 12" x 12" Textured	SMSU - V236	-	ND	-	-
SMSU-25-CT-1	Ceiling Tile, 2' x 2' Textured Fiberglass	SMSU - 258	-	ND	-	-
SMSU-26-FT-1	Floor Tile, 9" x 9" Brown w/ White and Red Streaks, and Black Mastic	SMSU - S201	SMSU - S201	5% Chrysotile Tile ND Mastic	200 sq. ft.	Good
SMSU-27-FT-1	Floor Tile, 12" x 12" Beige w/ Brown Specks, and Black Mastic	SMSU - 250A	SMSU - 250A	2% Chrysotile Tile 5% Chrysotile Mastic	155 sq. ft.	Good

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
SMSU-28-VJC-1	Vibration Joint Cloth	SMSU - 203P	Likely Throughout on the HVAC Systems.	90% Chrysotile	Not Quantified	Good
SMSU-29-ADH-1	Adhesive on Door, Brown	SMSU - 203P	-	ND	-	-
SMSU-30-FM-1	Floor Material, Grey Non-Slip	SMSU - E7	-	ND	-	-
SMSU-31-FT-1	Floor Tile, 12" x 12" Dark Brown Specked, and Black Mastic	SMSU - V133	SMSU - V133	3% Chrysotile Mastic ND Tile	35 sq. ft.	Good
SMSU-32-FS-1	Firestop, Red	SMSU - 156	-	ND	-	-
SMSU-33-CT-2	Ceiling Tile, 12" x 12" Fissured w/ Pinholes	SMSU - S115	-	ND	-	-
SMSU-34-FT-1	Floor Tile, 12" x 12" Blue w/ Dark Blue and Tan Specks, and Tan Mastic	SMSU - C6	-	ND	-	-
SMSU-35-FT-1	Floor Tile, 12" x 12" Tan Specked, and Tan Mastic	SMSU - S10	-	ND	-	-
SMSU-36-FT-1	Floor Tile, 12" x 12" Black w/ White Specks, and Black Mastic	SMSU - V62	-	ND	-	-
SMSU-37-FT-1	Floor Tile, 12" x 12" Yellow Specked, and Tan Mastic	SMSU - S9	-	ND	-	-
SMSU-38-FT-1	Floor Tile, 9" x 9" Grey w/ White Streaks, and Black Mastic	SMSU - C1	SMSU - C1, Tunnel to Cramer Hall	5% Chrysotile Tile ND Mastic	~1,500 sq. ft.	Good

ND – Non-Detected

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
SMSU-39-FT-1	Floor Tile, 9" x 9" Black w/ White Specks, and Black Mastic	SMSU - C1	-	ND	-	-
SMSU-40-CT-1	Ceiling Tile, 2' x 4', 2" x 2" Pattern Textured w/ Pinholes	SMSU - C6	-	ND	-	-
SMSU-41-FT-1	Floor Tile, 12" x 12" Light Blue Specked, and Tan Mastic	SMSU - 1A	-	ND	-	-
SMSU-42-TSI-1	Pipe Fitting Insulation	SMSU - 3	-	ND	-	-
SMSU-43-FT-1	Floor Tile, 12" x 12" Beige w/ Green Specks, and Black Mastic	SMSU - 46	SMSU - 46	5% Chrysotile Mastic 3% Chrysotile Tile	205 sq. ft.	Fair
SMSU-44-FT-1	Floor Tile, 12" x 12" Gold Specked, and Black Mastic	SMSU - 36	SMSU - 36	2% Chrysotile Mastic ND Tile	2,190 sq. ft.	Good
SMSU-45-FT-1	Floor Tile, 12" x 12" Burnt Orange Specked, and Black Mastic	SMSU - 36	-	ND	-	-
SMSU-46-ADH-1	Adhesive on Ceiling, Brown	SMSU - 28B	-	ND	-	-
SMSU-47-CT-1	Ceiling Tile, 2' x 2' Textured	SMSU - 26	-	ND	-	-
SMSU-48-CT-1	Ceiling Tile, 2' x 4' Gouged w/ Pinholes	SMSU - 25	-	ND	-	-

ND – Non-Detected

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
SMSU-49-CT-1	Ceiling Tile, 12" x 12" Fissured w/ Pinholes	SMSU - C5	Throughout Building - Mostly in the SE Section. May be Concealed by Drop Ceiling Tile	5% Amosite Tile	~29,055	Good
SMSU-50-FT-1	Floor Tile, 12" x 12" Off-White w/ Black and Taupe Streaks, and Black Mastic	SMSU - S9	-	ND	-	-
SMSU-51-FT-1	Floor Tile, 12" x 12" Black w/ White Streaks, and Black Mastic	SMSU - S9	-	ND	-	-
SMSU-52-WTX-1	Wall Texture	SMSU - SC2	-	ND	-	-
SMSU-52-WTX-2	Wall Texture	SMSU - SC2	-	ND	-	-
SMSU-52-WTX-3	Wall Texture	SMSU - SC2	-	ND	-	-
SMSU-53-ST-1	Stair Tread, Black Non-Slip	SMSU - S9	-	ND	-	-
SMSU-54-TSI-1	Aircell Pipe Insulation	SMSU - S9C	Throughout	70% Chrysotile	Not Quantified	Fair
SMSU-54-TSI-2	Aircell Pipe Insulation	SMSU - S9A	-	*	-	-
SMSU-54-TSI-3	Aircell Pipe Insulation	SMSU - S6	-	*	-	-
SMSU-55-TSI-1	Fitting on Aircell Pipe Insulation	SMSU - S11	-	ND	-	-
SMSU-55-TSI-2	Fitting on Aircell Pipe Insulation	SMSU - S9A	-	ND	-	-

ND – Non-Detected

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
SMSU-55-TSI-3	Fitting on Aircell Pipe Insulation	SMSU - S9A	-	ND	-	-
SMSU-56-TSI-1	Rigid Pipe Insulation	SMSU - S11	Throughout	10% Amosite	Not Quantified	Fair
SMSU-56-TSI-2	Rigid Pipe Insulation	SMSU - S9A	-	*	-	-
SMSU-56-TSI-3	Rigid Pipe Insulation	SMSU - S9A	-	*	-	-
SMSU-57-DSC-1	Duct Seam Compound, Grey	SMSU - S9C	-	ND	-	-
SMSU-58-TSI-1	Fitting on Fibrous Insulated Pipe	SMSU - S11	-	ND	-	-
SMSU-58-TSI-2	Fitting on Fibrous Insulated Pipe	SMSU - S11	-	ND	-	-
SMSU-58-TSI-3	Fitting on Fibrous Insulated Pipe	SMSU - S11	-	ND	-	-
SMSU-60-TSI-1	Tank Insulation	SMSU - S11	-	ND	-	-
SMSU-60-TSI-2	Tank Insulation	SMSU - S11	-	ND	-	-
SMSU-60-TSI-3	Tank Insulation	SMSU - S11	-	ND	-	-
SMSU-61-WTX-1	Wall Texture	SMSU - Roof Area #2	-	ND	-	-
SMSU-61-WTX-2	Wall Texture	SMSU - Roof Area #2	-	ND	-	-

ND – Non-Detected

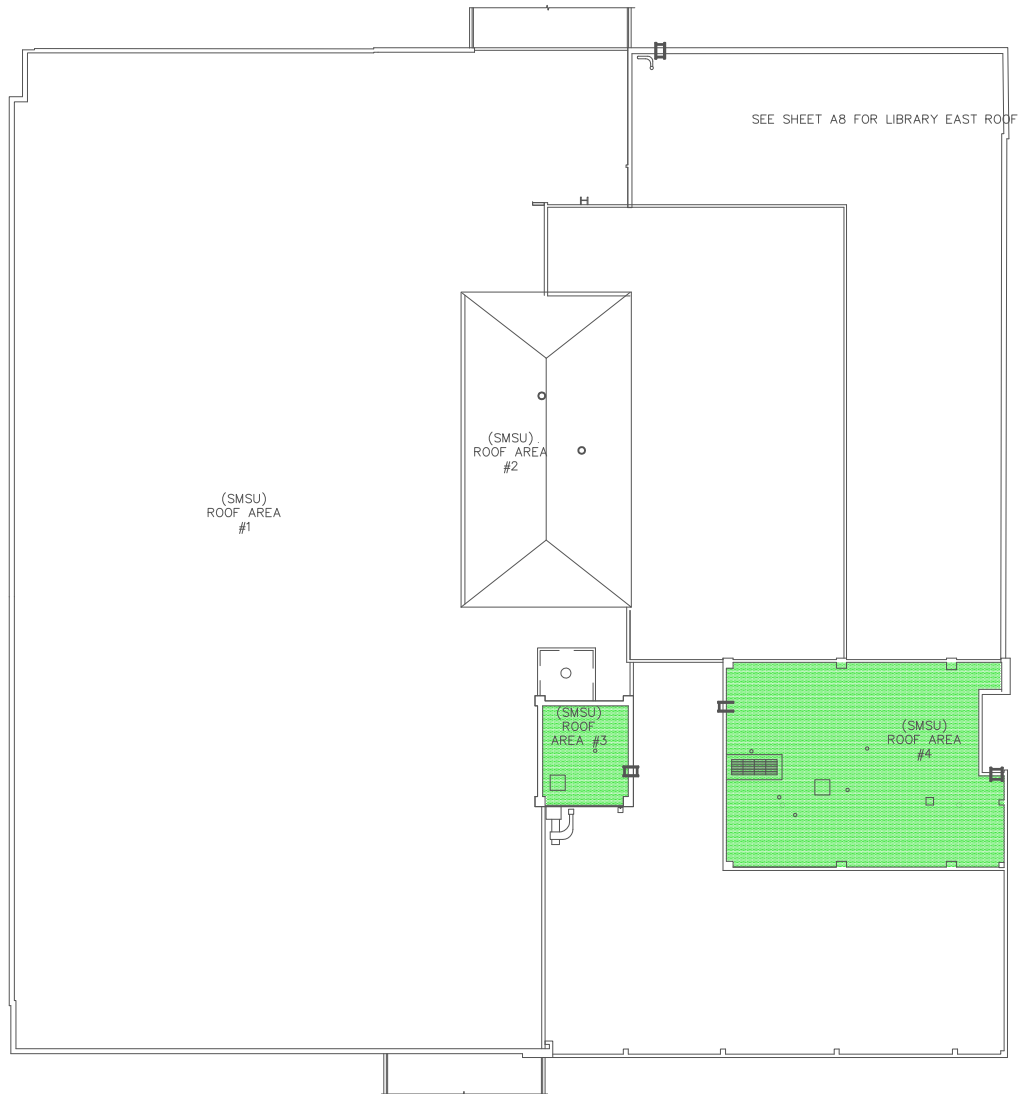
SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
SMSU-61-WTX-3	Wall Texture	SMSU - Roof Area #2	-	ND	-	-
SMSU-62-DST-1	Duct Seam Tape	SMSU - Roof Area #2	-	ND	-	-
SMSU-63-DSC-1	Duct Seam Compound, Light Grey	SMSU - Roof Area #1	-	ND	-	-
SMSU-64-SV-1	Sheet Vinyl, Tan Specked	SMSU - 126E	-	ND	-	-
SMSU-65-SU-1	Sink Undercoating, Grey	SMSU - 126E	-	ND	-	-
SMSU-66-FT-1	Floor Tile, 24" x 24" Tan Marbled, and Tan Mastic	SMSU - C126	-	ND	-	-
SMSU-67-FT-1	Floor Tile, 12" x 12" Beige Marbled, and Tan Mastic	SMSU - C126	-	ND	-	-
SMSU-68-CT-1	Ceiling Tile, 2' x 4' (2' x 2' Textured)	SMSU - 126	-	ND	-	-
SMSU-69-FT-1	Floor Tile, 2' x 4' Tan w/ White Streaks, and Black Mastic	SMSU - 427F	SMSU - 427F	5% Chrysotile Mastic 3% Chrysotile Tile	30 sq. ft.	Good
SMSU-70-FT-1	Floor Tile, 9" x 9" Tan Marbled, and Black Mastic	SMSU - 231	SMSU - 231	5% Chrysotile Mastic 3% Chrysotile Tile	95 sq. ft.	Good
SMSU-71-FT-1	Floor Tile, 12" x 12" Grey Marbled, and Tan Mastic	SMSU - 193	-	ND	-	-

ND – Non-Detected

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
SMSU-72-ADH-1	Exposed Wall Adhesive, Brown	SMSU - 104	-	ND	-	-
SMSU-73-FT-1	Floor Tile, 9" x 9" Green w/ White Streaks, and Black Mastic	SMSU - C11	SMSU - C11	3% Chrysotile Tile 2% Chrysotile Mastic	65 sq. ft.	Good
SMSU-74-CW-1	Canvas Wrap on HVAC	SMSU - 57E	-	ND	-	-
SMSU-75-FT-1	Floor Tile, 12" x 12" Tan Marbled, and Tan Mastic	SMSU - 57F	-	ND	-	-
SMSU-76-CT-1	Ceiling Tile, 12" x 12" Gouged w/ Pinholes	SMSU - S2	-	ND	-	-
SMSU-59-TSI-1	Black Foam Pipe Insulation	Library East - Mechanical Room	-	ND	-	-
SMSU-05-FP-3	Fireproofing	SMSU - 126D	-	ND	-	-
Assumed	Cement Asbestos Board	Assumed	North Exterior	Assumed	1,500 sq. ft.	Good

APPENDIX B

SITE DRAWING(S)



- Floor Tile, 12" x 12" Off White w/ Brown Streaks
- Floor Tile, 9" x 9" Green Streaked
- Floor Tile, 9" x 9" Red/Orange Streaked, and Black Mastic
- Floor Tile, 12" x 12" Dark Brown w/ White Specks
- Floor Tile, 9" x 9" Brown w/ White and Red Streaks
- Floor Tile, 12" x 12" Beige w/ Brown Specks, and Black Mastic
- Mastic under Dark Brown Specked 12" x 12" Floor Tile, Black
- Floor Tile, 9" x 9" Grey w/ White Streaks
- Floor Tile, 12" x 12" Beige w/ Green Specks, and Black Mastic
- Mastic under Gold Specked 12" x 12" Floor Tile, Black
- Ceiling Tile, 12" x 12" Fissured w/ Pinholes
- Floor Tile, 9" x 9" Tan w/ White Streaks, and Black Mastic
- Floor Tile, 9" x 9" Tan Marbled, and Black Mastic
- Floor Tile, 9" x 9" Green w/ White Streaks, and Black Mastic
- Spray-Applied Fireproofing

ACM not shown:
 Duct Seam Tape
 Rigid Pipe Insulation
 Vibration Joint Cloth
 Alrcell Pipe Insulation

Samples of the roof were not collected at the request of PSU.

DATE: 7-10-08	PROJECT: PSU Smith Memorial Student Union	CLIENT: PSU Smith Memorial Student Union	LOCATION: Portland, Oregon 97201
DRAWN BY: DKR			
PAGE #:		PROJECT #:	PJ584
			ACM - 717

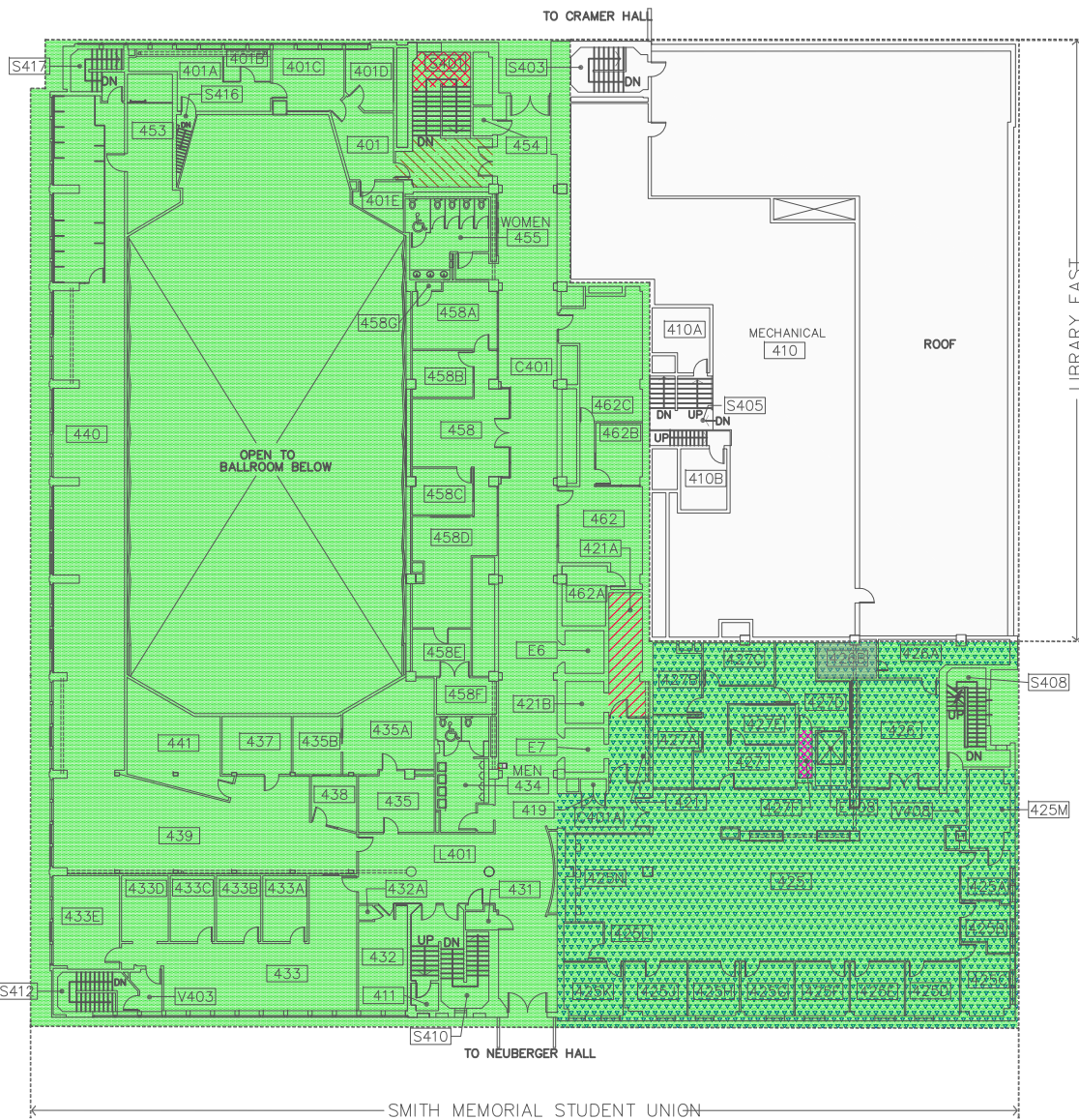
REVISIONS

Smith Memorial Student Union
 Roof
 ACM Locations



No Scale

Forensic Analytical
 17400 SW Upper Boones Ferry Road, Suite 245
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 503-595-1001 Fax
 www.forensica.com



-  Floor Tile, 12" x 12" Off White w/ Brown Streaks
-  Floor Tile, 9" x 9" Green Streaked
-  Floor Tile, 9" x 9" Red/Orange Streaked, and Black Mastic
-  Floor Tile, 12" x 12" Dark Brown w/ White Specks
-  Floor Tile, 9" x 9" Brown w/ White and Red Streaks
-  Floor Tile, 12" x 12" Beige w/ Brown Specks, and Black Mastic
-  Mastic under Dark Brown Specked 12" x 12" Floor Tile, Black
-  Floor Tile, 9" x 9" Grey w/ White Streaks
-  Floor Tile, 12" x 12" Beige w/ Green Specks, and Black Mastic
-  Mastic under Gold Specked 12" x 12" Floor Tile, Black
-  Ceiling Tile, 12" x 12" Fissured w/ Pinholes (Exposed or above Newer Tiles)
-  Floor Tile, 9" x 9" Tan w/ White Streaks, and Black Mastic
-  Floor Tile, 9" x 9" Tan Marbled, and Black Mastic
-  Floor Tile, 9" x 9" Green w/ White Streaks, and Black Mastic
-  Spray-Applied Fireproofing
-  Not Accessed

ACM not shown:
 Duct Seam Tape
 Rigid Pipe Insulation
 Vibration Joint Cloth
 Aircell Pipe Insulation

REVISIONS

Smith Memorial Student Union
 4th Floor
 ACM Locations



No Scale



- Floor Tile, 12" x 12" Off White w/ Brown Streaks
- Floor Tile, 9" x 9" Green Streaked
- Floor Tile, 9" x 9" Red/Orange Streaked, and Black Mastic
- Floor Tile, 12" x 12" Dark Brown w/ White Specks
- Floor Tile, 9" x 9" Brown w/ White and Red Streaks
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- Mastic under Dark Brown Specked 12" x 12" Floor Tile, Black
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- Ceiling Tile, 12" x 12" Fissured w/ Pinholes (Exposed or above Newer Tiles)
- Floor Tile, 9" x 9" Tan w/ White Streaks, and Black Mastic
- Floor Tile, 9" x 9" Tan Marbled, and Black Mastic
- Floor Tile, 9" x 9" Green w/ White Streaks, and Black Mastic
- Spray-Applied Fireproofing

ACM not shown:
 Duct Seam Tape
 Rigid Pipe Insulation
 Vibration Joint Cloth
 Arcell Pipe Insulation

REVISIONS

Smith Memorial Student Union
 3rd Floor
 ACM Locations



No Scale



- Floor Tile, 12" x 12" Off White w/ Brown Streaks
- Floor Tile, 9" x 9" Green Streaked
- Floor Tile, 9" x 9" Red/Orange Streaked, and Black Mastic
- Floor Tile, 12" x 12" Dark Brown w/ White Specks
- Floor Tile, 9" x 9" Brown w/ White and Red Streaks
- Floor Tile, 12" x 12" Beige w/ Brown Specks, and Black Mastic
- Mastic under Dark Brown Specked 12" x 12" Floor Tile, Black
- Floor Tile, 9" x 9" Grey w/ White Streaks
- Floor Tile, 12" x 12" Beige w/ Green Specks, and Black Mastic
- Mastic under Gold Specked 12" x 12" Floor Tile, Black
- Ceiling Tile, 12" x 12" Fissured w/ Pinholes (Exposed or above Newer Tiles)
- Floor Tile, 9" x 9" Tan w/ White Streaks, and Black Mastic
- Floor Tile, 9" x 9" Tan Marbled, and Black Mastic
- Floor Tile, 9" x 9" Green w/ White Streaks, and Black Mastic
- Spray-Applied Fireproofing

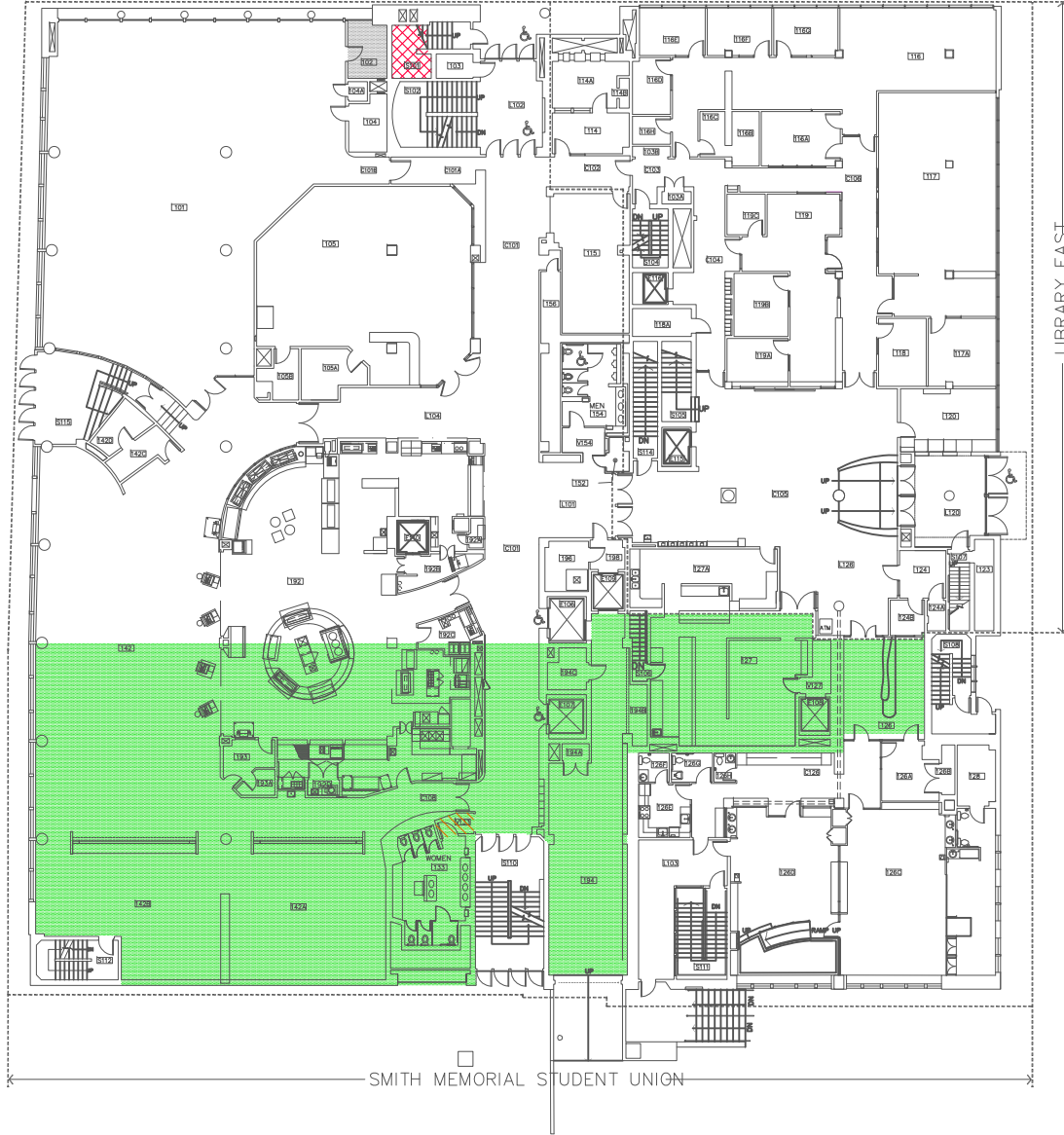
ACM not shown:
 Duct Seam Tape
 Rigid Pipe Insulation
 Vibration Joint Cloth
 Arcell Pipe Insulation

REVISIONS

Smith Memorial Student Union
 1st Floor
 ACM Locations



No Scale



- Floor Tile, 12" x 12" Off White w/ Brown Streaks
- Floor Tile, 9" x 9" Green Streaked
- Floor Tile, 9" x 9" Red/Orange Streaked, and Black Mastic
- Floor Tile, 12" x 12" Dark Brown w/ White Specks
- Floor Tile, 9" x 9" Brown w/ White and Red Streaks
- Floor Tile, 12" x 12" Beige w/ Brown Specks, and Black Mastic
- Mastic under Dark Brown Specked 12" x 12" Floor Tile, Black
- Floor Tile, 9" x 9" Grey w/ White Streaks
- Floor Tile, 12" x 12" Beige w/ Green Specks, and Black Mastic
- Mastic under Gold Specked 12" x 12" Floor Tile, Black
- Ceiling Tile, 12" x 12" Fissured w/ Pinholes (Exposed or above Newer Tiles)
- Floor Tile, 9" x 9" Tan w/ White Streaks, and Black Mastic
- Floor Tile, 9" x 9" Tan Marbled, and Black Mastic
- Floor Tile, 9" x 9" Green w/ White Streaks, and Black Mastic
- Spray-Applied Fireproofing
- Not Accessed

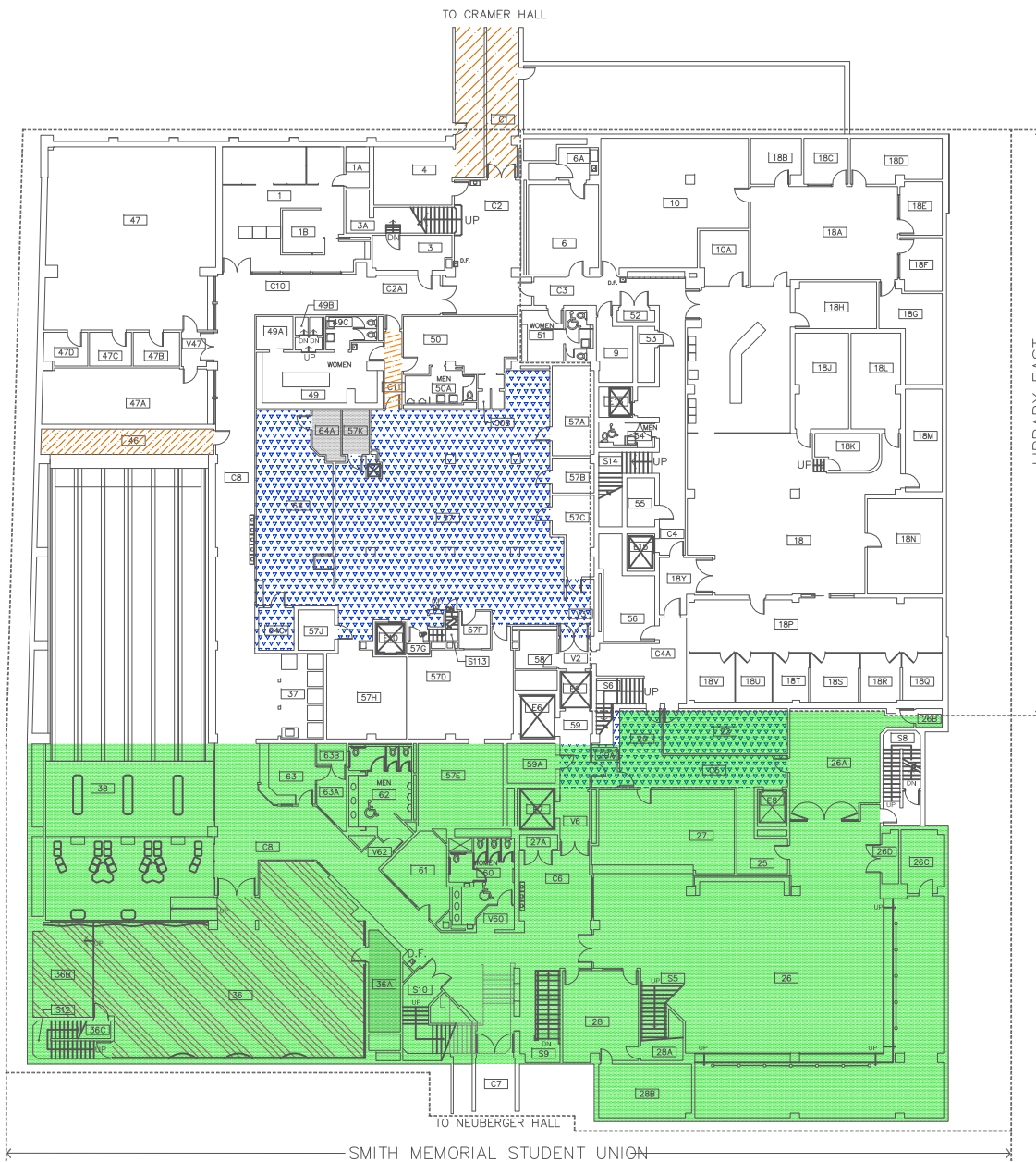
ACM not shown:
 Duct Seam Tape
 Rigid Pipe Insulation
 Vibration Joint Cloth
 Aircell Pipe Insulation

REVISIONS

Smith Memorial Student Union
 1st Floor
 ACM Locations



No Scale



- Floor Tile, 12" x 12" Off White w/ Brown Streaks
- Floor Tile, 9" x 9" Green Streaked
- Floor Tile, 9" x 9" Red/Orange Streaked, and Black Mastic
- Floor Tile, 12" x 12" Dark Brown w/ White Specks
- Floor Tile, 9" x 9" Brown w/ White and Red Streaks
- Floor Tile, 12" x 12" Beige w/ Brown Specks, and Black Mastic
- Mastic under Dark Brown Specked 12" x 12" Floor Tile, Black
- Floor Tile, 9" x 9" Grey w/ White Streaks
- Floor Tile, 12" x 12" Beige w/ Green Specks, and Black Mastic
- Mastic under Gold Specked 12" x 12" Floor Tile, Black
- Ceiling Tile, 12" x 12" Fissured w/ Pinholes (Exposed or above Newer Tiles)
- Floor Tile, 9" x 9" Tan w/ White Streaks, and Black Mastic
- Floor Tile, 9" x 9" Tan Marbled, and Black Mastic
- Floor Tile, 9" x 9" Green w/ White Streaks, and Black Mastic
- Spray-Applied Fireproofing
- Not Accessed

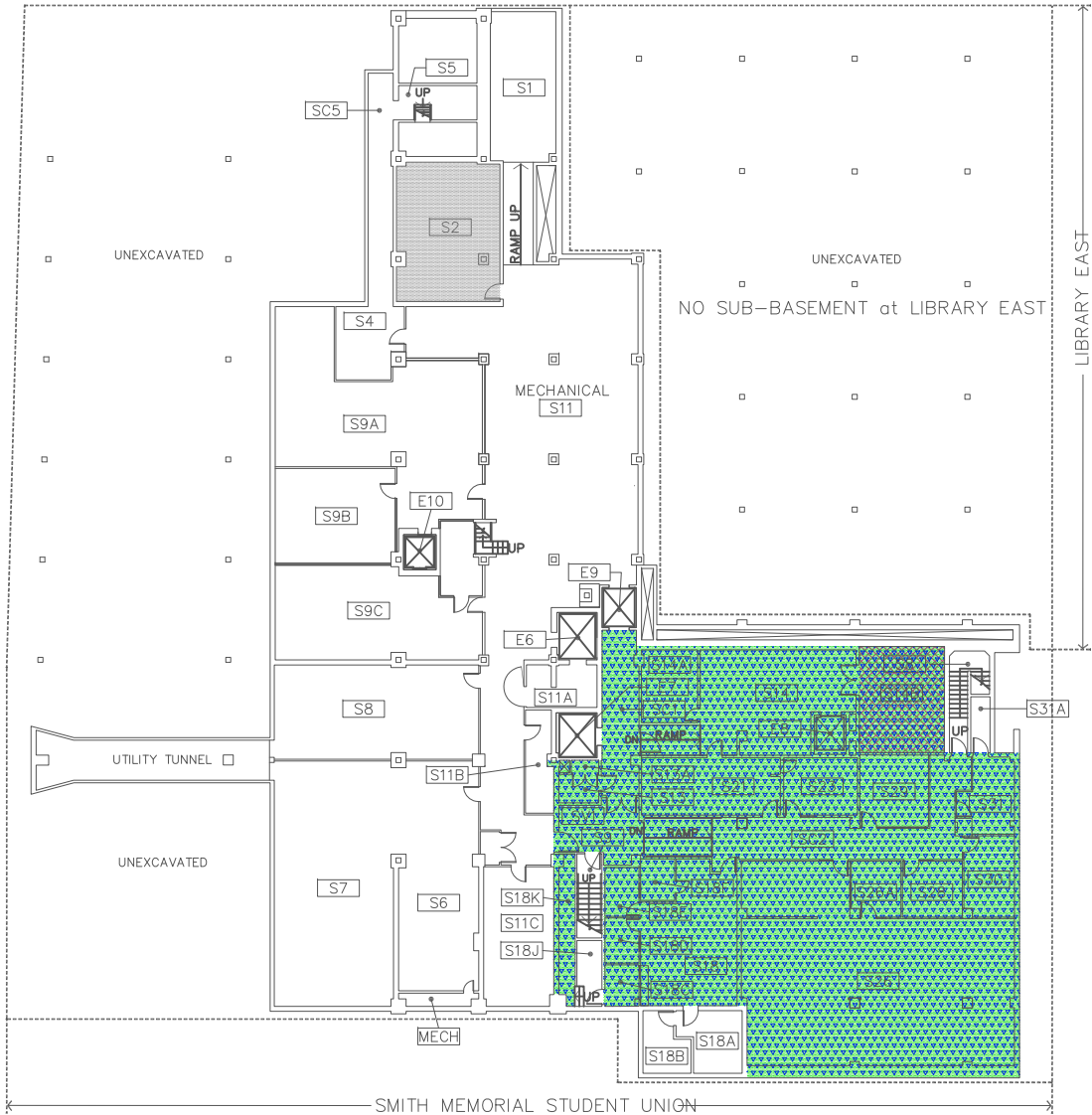
ACM not shown:
 Duct Seam Tape
 Rigid Pipe Insulation
 Vibration Joint Cloth
 Arcell Pipe Insulation

REVISIONS

Smith Memorial Student Union
 Basement
 ACM Locations



No Scale



- Floor Tile, 12" x 12" Off White w/ Brown Streaks
- Floor Tile, 9" x 9" Green Streaked
- Floor Tile, 9" x 9" Red/Orange Streaked, and Black Mastic
- Floor Tile, 12" x 12" Dark Brown w/ White Specks
- Floor Tile, 9" x 9" Brown w/ White and Red Streaks
- Floor Tile, 12" x 12" Beige w/ Brown Specks, and Black Mastic
- Mastic under Dark Brown Specked 12" x 12" Floor Tile, Black
- Floor Tile, 9" x 9" Grey w/ White Streaks
- Floor Tile, 12" x 12" Beige w/ Green Specks, and Black Mastic
- Mastic under Gold Specked 12" x 12" Floor Tile, Black
- Ceiling Tile, 12" x 12" Fissured w/ Pinholes (Exposed or above Newer Tiles)
- Floor Tile, 9" x 9" Tan w/ White Streaks, and Black Mastic
- Floor Tile, 9" x 9" Tan Marbled, and Black Mastic
- Floor Tile, 9" x 9" Green w/ White Streaks, and Black Mastic
- Spray-Applied Fireproofing
- Not Accessed

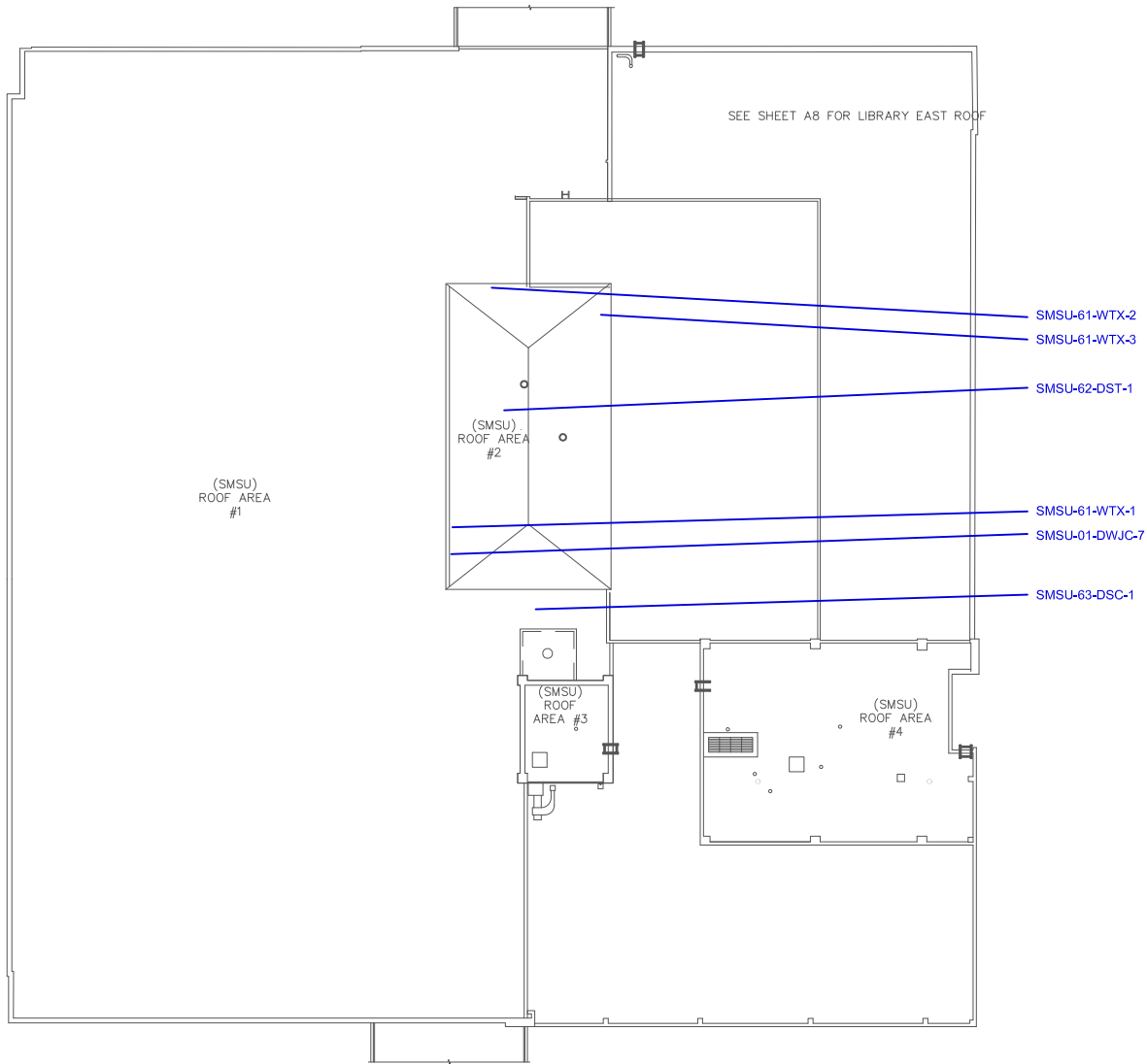
ACM not shown:
 Duct Seam Tape
 Rigid Pipe Insulation
 Vibration Joint Cloth
 Aircell Pipe Insulation

REVISIONS

Smith Memorial Student Union
 Sub-Basement
 ACM Locations



No Scale



DATE: 7-10-08
 DRN BY: CFG
 PAGE #: SAM - 7/7

CLIENT: PSU
 PROJECT: Smith Memorial Student Union
 LOCATION: Portland, Oregon 97201

PROJECT #: PJE584

REVISIONS

NO.	DESCRIPTION

Smith Memorial Student Union
 Roof
 Sample Locations

Report North

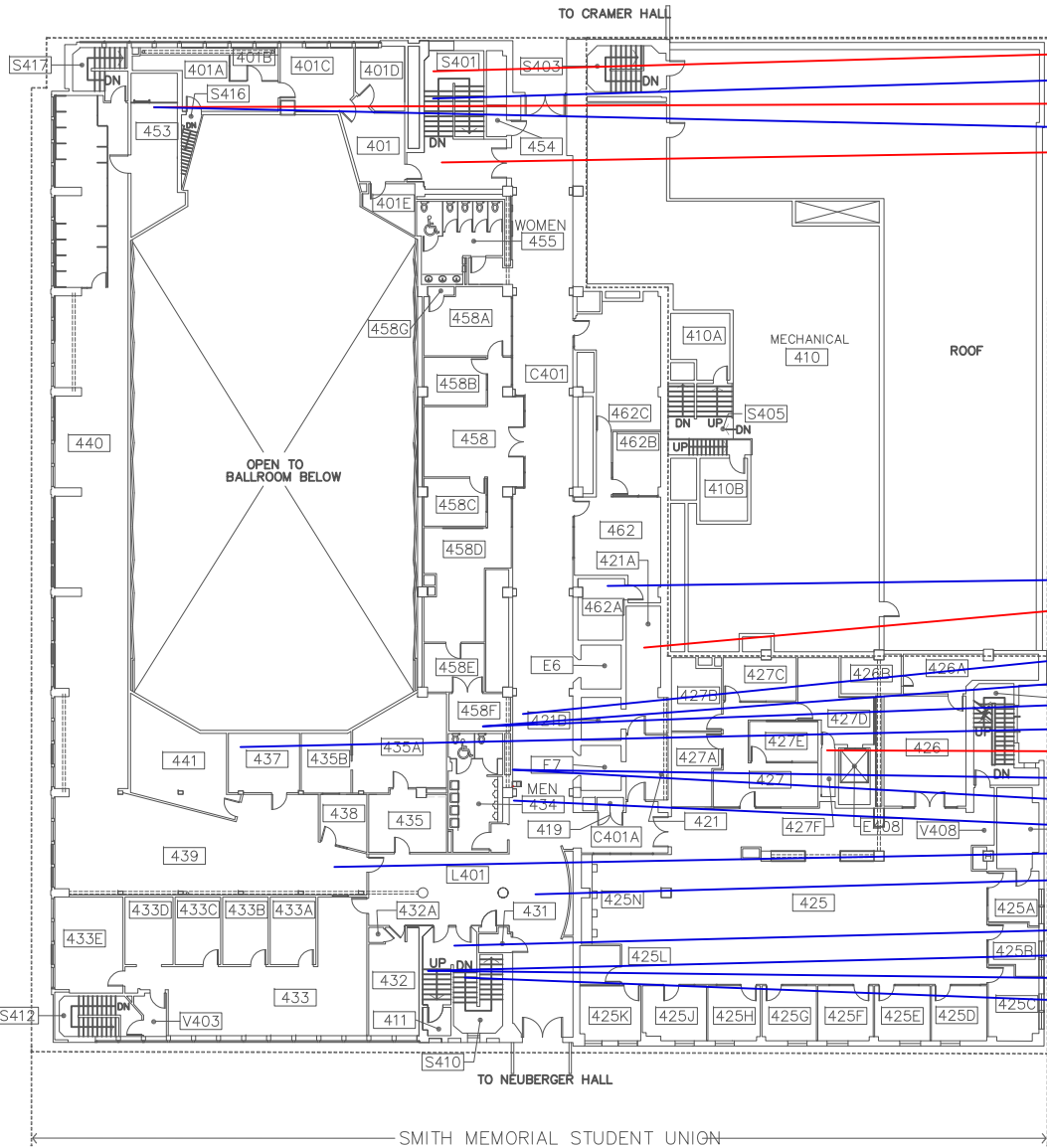
No Scale

Sample ID # Key

PSU Provided Building Code
 Heterogeneous Material **F**
 Material Code - Click for Details
 ABC-00F-1
 ABC-00F-1
 Non-ACM Shown in Red
 Non-ACM Shown in Blue

Forensic Analytical
 17400 SW Upper Boones Ferry Road, Suite 245
 Portland, Oregon 97224
 503-992-1001 Fax
 www.forensica.com

* - This sample is part of a set in which one of the samples tested positive for asbestos.
 ** - This sample contained a trace amount of asbestos.




- SMSU-17-FT-1
- SMSU-18-ST-1
- SMSU-12-DST-1
- SMSU-13-DW-1
- SMSU-16-FT-1
- SMSU-15-TSI-1
- SMSU-14-FT-1
- SMSU-05-FP-1
- SMSU-15-TSI-2
- SMSU-05-FP-2
- SMSU-11-CT-1
- SMSU-69-FT-1
- SMSU-01-DWJC-1
- SMSU-03-CB-1
- SMSU-02-FT-1
- SMSU-09-CT-1
- SMSU-04-CT-1
- SMSU-06-FT-1
- SMSU-08-ST-1
- SMSU-10-PL-1
- SMSU-07-ST-1

DATE: 7-10-08
 PROJECT: Smith Memorial Student Union
 LOCATION: Portland, Oregon 97201
 PROJECT #: PJS884

REVISIONS

Smith Memorial Student Union
 4th Floor
 Sample Locations

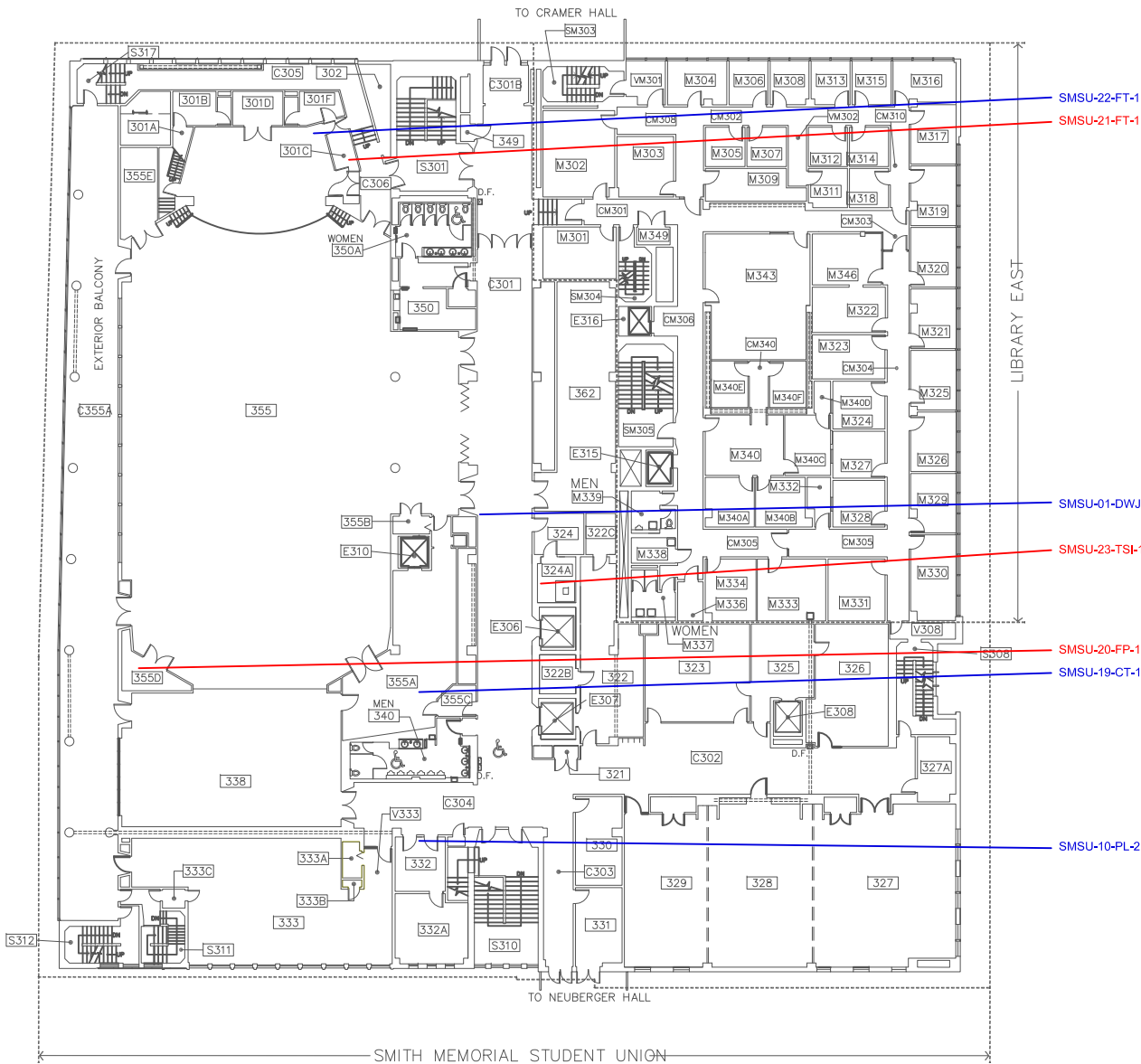
Report North

 No Scale

Sample ID # Key
 PSU Provided Building Code
 Homogeneous Material **F**
 Material Code - Click for Details
 ABC-00-FT-1
 ABC Shown in Red
 Non-ABC Shown in Blue

Forensic Analytical
 17400 SW Upper Boones Ferry Road, Suite 245
 Portland, Oregon 97224
 503.995.1001 Fax
 www.forensica.com



* - This sample is part of a set in which one of the samples tested positive for asbestos.
 ** - This sample contained a trace amount of asbestos.



DATE: 7-10-08
 DRN BY: CFG
 PROJECT: Smith Memorial Student Union
 LOCATION: Portland, Oregon 97201
 PROJECT #: PJB584

REVISIONS

Smith Memorial Student Union
 3rd Floor
 Sample Locations

Report North

 No Scale

Sample ID # Key
 PSU Provided Building Code
 Homogeneous Material #
 Material Code - Click for Details
 ABC-00-FT-1
 A/C# Shown in Red
 None-A/C# Shown in Blue

Forensic Analytical
 17400 SW Upper Boones Ferry Road, Suite 245
 Portland, Oregon 97224
 503-995-1001 Fax
 www.forensica.com

* - This sample is part of a set in which one of the samples tested positive for asbestos.
 ** - This sample contained a trace amount of asbestos.



SMSU-26-FT-1
 SMSU-27-FT-1
 SMSU-01-DWJC-4
 SMSU-25-CT-1
 SMSU-30-FM-1
 SMSU-29-ADH-1
 SMSU-28-VJC-1
 SMSU-24-CT-1
 SMSU-01-DWJC-3
 SMSU-70-FT-1


DATE: 7-10-08
 DRN BY: CFG
 PAGE #: SAM-417

CLIENT: PSU
 PROJECT: Smith Memorial Student Union
 LOCATION: Portland, Oregon 97201
 PROJECT #: PJB584

REVISIONS

Smith Memorial Student Union
 1st Floor
 Sample Locations

Report North



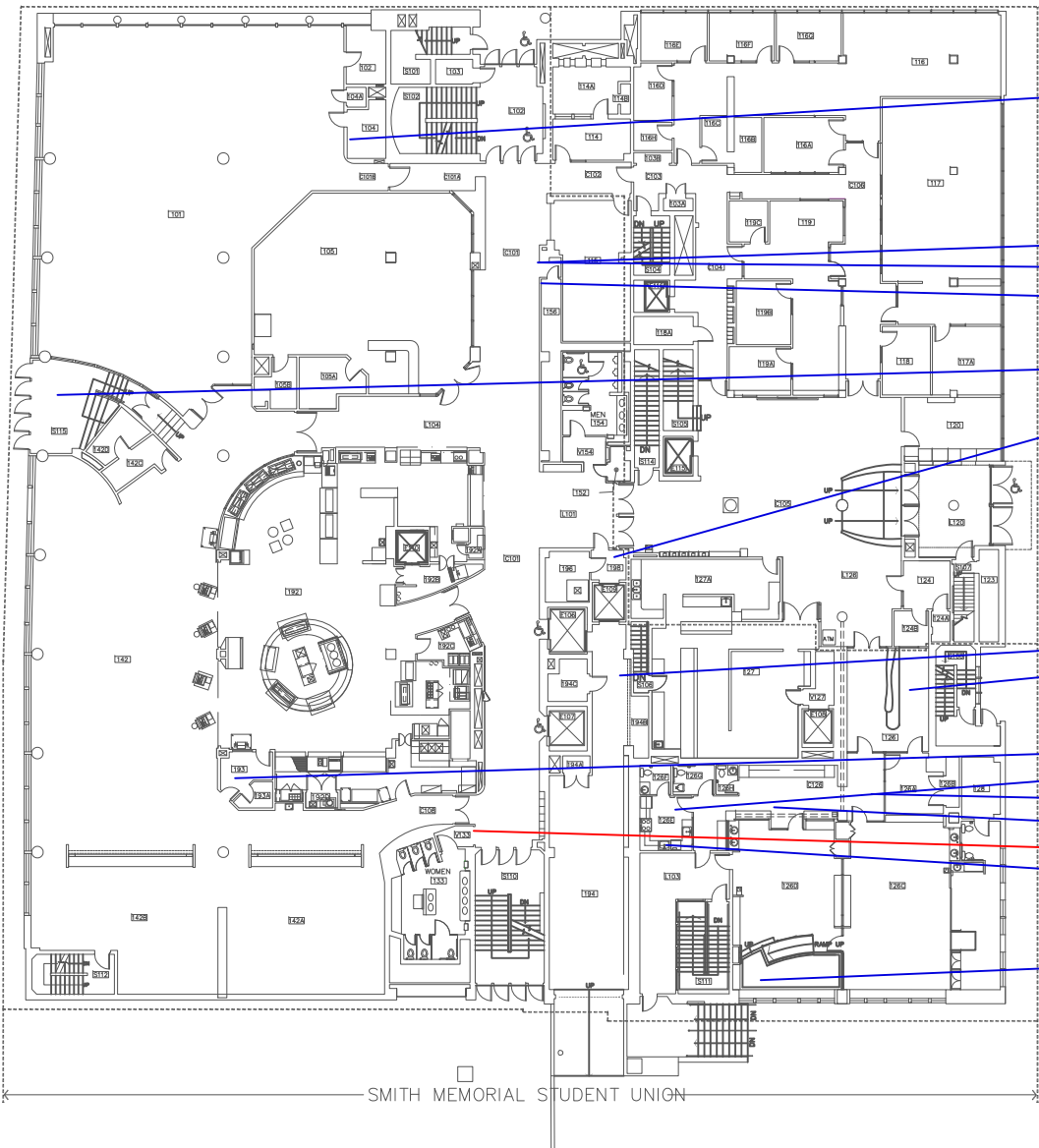
No Scale

Sample ID # Key
 PSU Provided Building Code
 Heterogeneous Material #
 Material Code - Click for Details
 ABC-00-FT-1
 A/C-01 Shown in Red
 Non-A/C-01 Shown in Blue

Forensic Analytical
 17400 SW Upper Boones Ferry Road, Suite 245
 Portland, Oregon 97224
 503-595-1001 Fax
 www.forensica.com



* - This sample is part of a set in which one of the samples tested positive for asbestos.
 ** - This sample contained a trace amount of asbestos.



SMSU-72-ADH-1

SMSU-10-PL-3

SMSU-01-DWJC-5

SMSU-32-FS-1

SMSU-33-CT-2

SMSU10-PL-4

SMSU-10-PL-5

SMSU-68-CT-1

SMSU-71-FT-1

SMSU-64-SV-1

SMSU-66-FT-1

SMSU-67-FT-1

SMSU-31-FT-1

SMSU-65-SU-1

SMSU-05-FP-3

DATE: 7-10-08
 DRN BY: CFG
 PROJECT: PSU Smith Memorial Student Union
 LOCATION: Portland, Oregon 97201
 PROJECT #: PJS684
 PAGE #: SAM - 3/7

REVISIONS

Smith Memorial Student Union
 Sample Locations

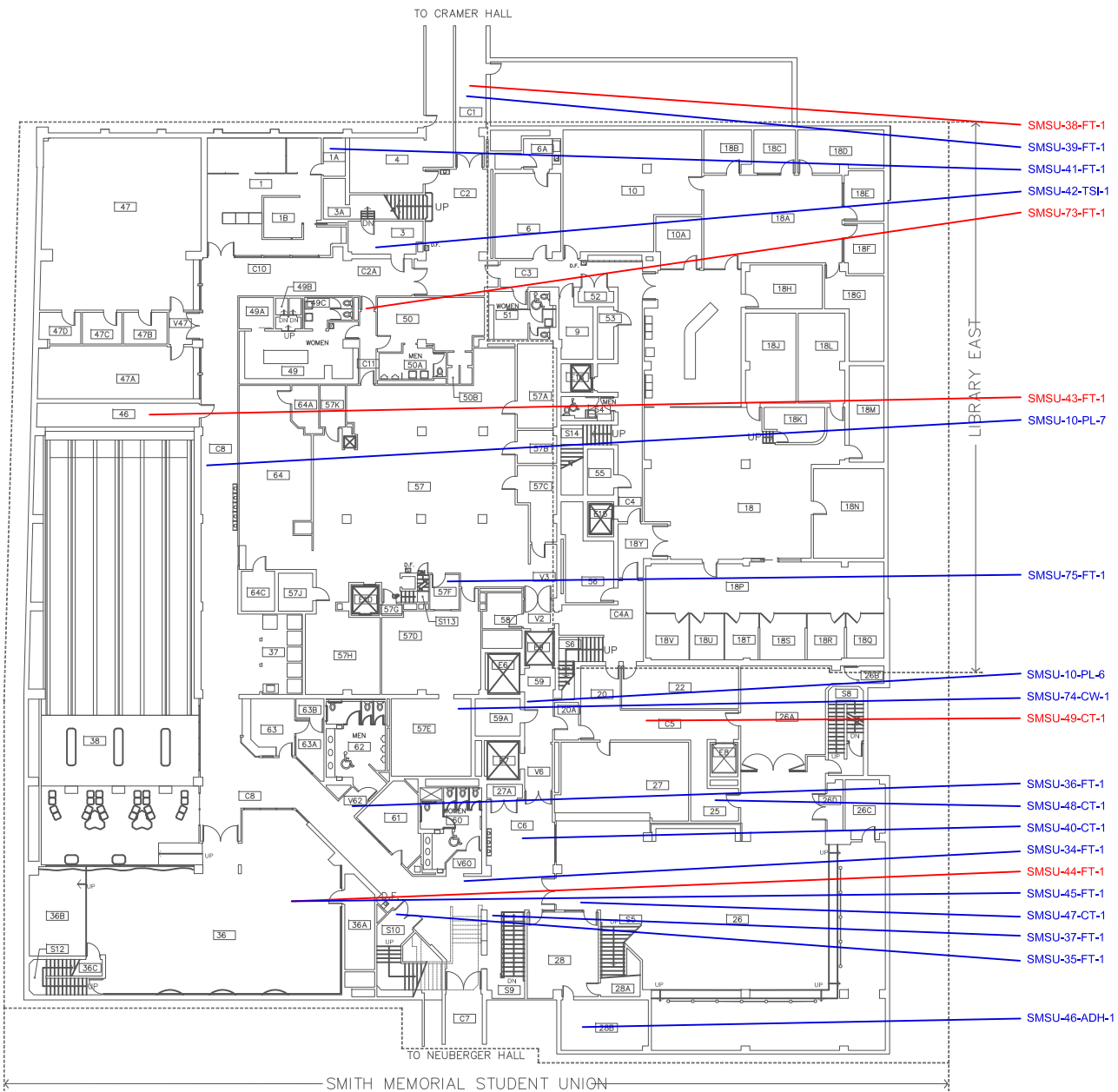
Report North

 No Scale

Sample ID # Key
 PSU Analytical Practices Cycle:
 Heterogeneous Material: **H**
 Natural Crust - Click for Details: **Aec-00-FP-1**
 Sample: **F** in Bed
 None-ACM Shown in Blue

Forensic Analytical
 17400 SW Upper Boones Ferry Road, Suite 245
 Portland, Oregon 97224
 503.595.1001 Fax
 www.forensica.com

* - This sample is part of a set in which one of the samples tested positive for asbestos.
 ** - This sample contained a trace amount of asbestos.




DATE: 7-10-08	CLIENT: PSU Smith Memorial Student Union
DRAWN BY: CFG	PROJECT: Smith Memorial Student Union
PAGE #: SAM - 217	LOCATION: Portland, Oregon 97201
	PROJECT #: PJSB942

REVISIONS

Smith Memorial Student Union
Basement
Sample Locations

Report North



No Scale

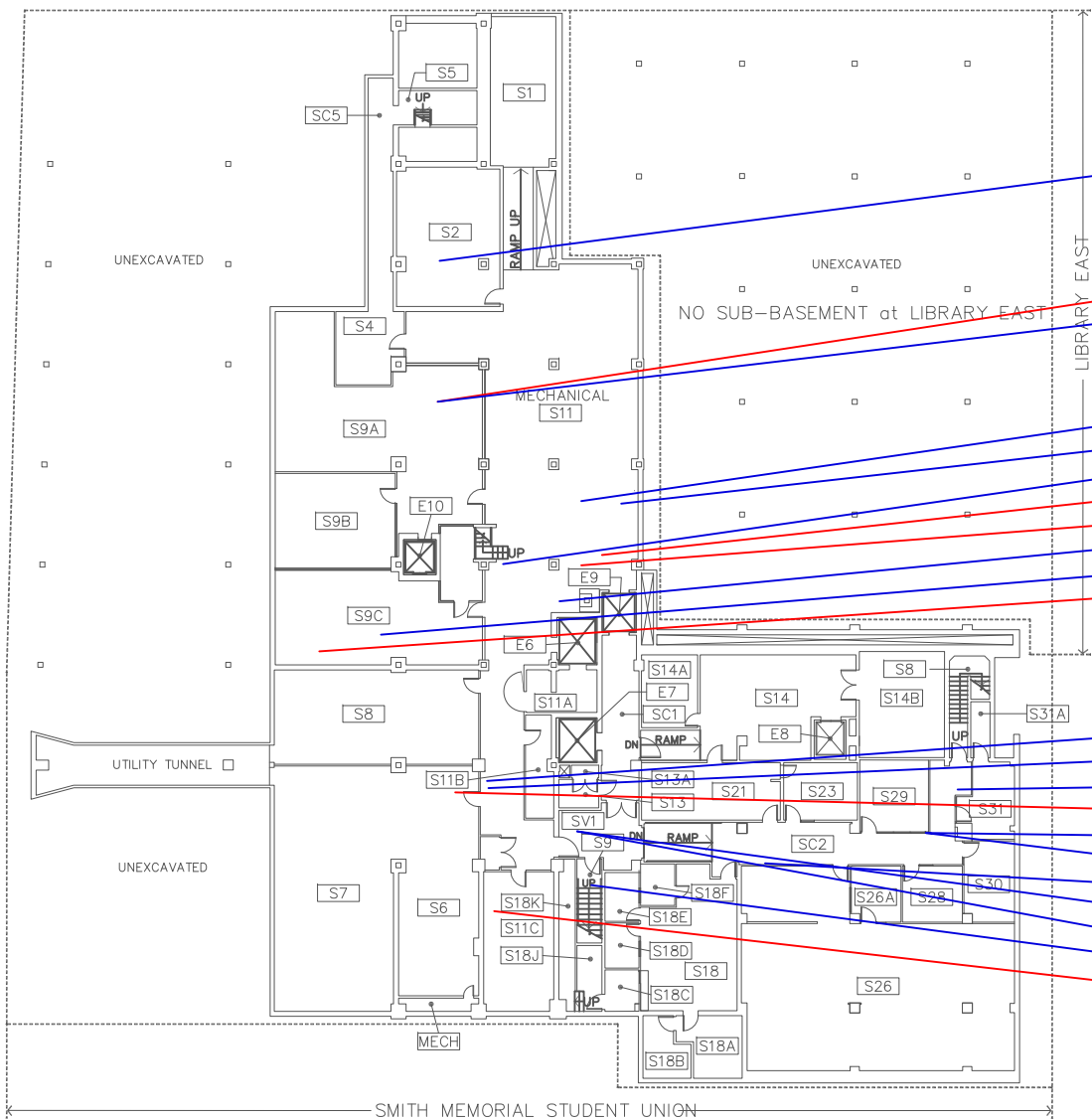
Sample ID # Key

PSU Provided Building Code:
Homogeneous Material: **F**
Material Code - Click for Details: **ABC-00-FT-1**
ACCS Shown in Red
None-ACCS Shown in Blue

Forensic Analytical
17400 SW Upper Boones Ferry Road, Suite 245
Portland, Oregon 97224
503-595-1001 Fax:
www.forensica.com



* - This sample is part of a set in which one of the samples tested positive for asbestos.
** - This sample contained a trace amount of asbestos.



- SMSU-76-CT-1
- SMSU-54-TSI-2*
- SMSU-55-TSI-2, 3
- SMSU-60-TSI-1, 2, 3
- SMSU-15-TSI-3
- SMSU-58-TSI-2
- SMSU-56-TSI-1
- SMSU-56-TSI-2*
- SMSU-58-TSI-1
- SMSU-57-DSC-1
- SMSU-54-TSI-1
- SMSU-58-TSI-3
- SMSU-55-TSI-1
- SMSU-52-WTX-2
- SMSU-54-TSI-3*
- SMSU-01-DWJC-6
- SMSU-52-WTX-1
- SMSU-52-WTX-3
- SMSU-50-FT-1
- SMSU-51-FT-1
- SMSU-53-ST-1
- SMSU-56-TSI-3*

DATE: 7-10-08
 PROJECT: Smith Memorial Student Union
 LOCATION: Portland, Oregon 97201
 DRN BY: CFG
 PAGE #: SAM - 1/7
 PROJECT #: PJ584

REVISIONS

NO.	DESCRIPTION

Smith Memorial Student Union
 Sub-Basement
 Sample Locations

Report North



No Scale

Sample ID # Key
 PSU Provided Building Code: ABC-00FT-1
 Homogeneous Material: *
 Material Code - Click for Details
 ACM Shown in Red
 Non-ACM Shown in Blue

Forensic Analytical
 17400 SW Upper Boones Ferry Road, Suite 245
 Portland, Oregon 97224
 503.992.1001
 Fax: 503.992.1002
 www.forensica.com



* - This sample is part of a set in which one of the samples tested positive for asbestos.
 ** - This sample contained a trace amount of asbestos.

APPENDIX C

**LABORATORY ANALYSIS REPORTS
AND CHAIN OF CUSTODY RECORDS**



Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Forensic Analytical Consulting Svcs
Noal Kraft
17400 SW Upper Boones Ferry Rd
Suite 245
Durham, OR 97224

Client ID: PE21
Report Number: B114038
Date Received: 06/17/08
Date Analyzed: 06/19/08
Date Printed: 06/20/08
First Reported: 06/20/08

Job ID/Site: PJ5584; Kate Vance Smith Memorial Student Union (SMSU) 1825 SW
Broadway Portland OR 97201

FASI Job ID: PE21
Total Samples Submitted: 106
Total Samples Analyzed: 102

Date(s) Collected:

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-01-DWJC-1	10767804						
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-01-DWJC-2	10767805						
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-01-DWJC-3	10767806						
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-01-DWJC-4	10767807						
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
SMSU-01-DWJC-5	10767808						
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
SMSU-01-DWJC-6	10767809						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %)							
SMSU-01-DWJC-7	10767810						
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B114038

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-02-FT-1	10767811						
Layer: Green Mastic			ND				
Layer: Off-White Tile			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-03-CB-1	10767812						
Layer: Black Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-04-CT-1	10767813						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
SMSU-05-FP-1	10767814						
Layer: Beige Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Fibrous Glass (65 %)							
SMSU-06-FT-1	10767815						
Layer: Grey Tile			ND				
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-07-ST-1	10767816						
Layer: Tan Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-08-ST-1	10767817						
Layer: Grey Non-Fibrous Material			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-09-CT-1	10767818						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B114038

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-10-PL-1	10767819						
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-10-PL-2	10767820						
Layer: Off-White Plaster			ND				
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-10-PL-3	10767821						
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-10-PL-4	10767822						
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-10-PL-5	10767823						
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-10-PL-6	10767824						
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-10-PL-7	10767825						
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-11-CT-1	10767826						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B114038

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-12-DST-1	10767827						
Layer: Grey Fibrous Material		Chrysotile	50 %				
Total Composite Values of Fibrous Components:		Asbestos (50%)					
Cellulose (35 %)							
SMSU-13-DW-1	10767828						
Layer: Beige Woven Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (90 %)							
SMSU-14-FT-1	10767829						
Layer: Beige Tile		Chrysotile	2 %				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
SMSU-15-TSI-1	10767830						
Layer: Tan Fibrous Material			ND				
Layer: Off-White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (80 %)							
SMSU-15-TSI-2	10767831						
Layer: Tan Fibrous Material			ND				
Layer: Off-White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (80 %)							
SMSU-15-TSI-3	10767832						
Layer: Off-White Non-Fibrous Material			ND				
Layer: Yellow Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Fibrous Glass (10 %)							
SMSU-05-FP-2	10767833						
Layer: Grey Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Fibrous Glass (70 %)							
SMSU-16-FT-1	10767834						
Layer: Green Tile		Chrysotile	3 %				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
SMSU-17-FT-1	10767835						
Layer: Red-Brown Tile		Chrysotile	3 %				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B114038

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-18-ST-1	10767836						
Layer: Red-Brown Non-Fibrous Material			ND				
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-19-CT-1	10767837						
Layer: White Drywall			ND				
Layer: White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (5 %)							
SMSU-20-FP-1	10767838						
Layer: Off-White Semi-Fibrous Material		Chrysotile	7 %				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (7%)					
Cellulose (Trace)							
SMSU-21-FT-1	10767839						
Layer: Grey Tile		Chrysotile	3 %				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
SMSU-22-FT-1	10767840						
Layer: Grey Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-23-TSI-1	10767841						
Layer: Beige Semi-Fibrous Material		Chrysotile	7 %	Amosite	5 %		
Layer: Silver Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (10 %)							
SMSU-24-CT-1	10767842						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
SMSU-25-CT-1	10767843						
Layer: Yellow Fibrous Material			ND				
Layer: White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Fibrous Glass (80 %)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B114038

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-26-FT-1	10767844						
Layer: Brown Tile		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
SMSU-27-FT-1	10767845						
Layer: Tan Tile		Chrysotile	2 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
SMSU-28-VJC-1	10767846						
Layer: Brown Fibrous Material		Chrysotile	90 %				
Total Composite Values of Fibrous Components:		Asbestos (90%)					
Cellulose (2 %)							
SMSU-29-ADH-1	10767847						
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-30-FM-1	10767848						
Layer: Grey Tile			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (5 %)						
SMSU-31-FT-1	10767849						
Layer: Black Tile			ND				
Layer: Black Mastic		Chrysotile	3 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
SMSU-32-FS-1	10767850						
Layer: Red-Brown Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (10 %)						
SMSU-33-CT-2	10767851						
Layer: Off-White Fibrous Tile			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (2 %)	Fibrous Glass (90 %)						
SMSU-34-FT-1	10767852						
Layer: Blue Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B114038

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-35-FT-1	10767853						
Layer: Tan Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-36-FT-1	10767854						
Layer: Black Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-37-FT-1	10767855						
Layer: Tan Tile			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-38-FT-1	10767856						
Layer: Grey Tile		Chrysotile	5 %				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
SMSU-39-FT-1	10767857						
Layer: Black Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-40-CT-1	10767858						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
SMSU-41-FT-1	10767859						
Layer: Blue Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-42-TSI-1	10767860						
Layer: Beige Semi-Fibrous Material			ND				
Layer: Off-White Woven Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %) Fibrous Glass (15 %)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B114038

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-43-FT-1	10767861						
Layer: Beige Tile		Chrysotile	3 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
SMSU-44-FT-1	10767862						
Layer: Tan Tile			ND				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
SMSU-45-FT-1	10767863						
Layer: Red-Brown Tile			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-46-ADH-1	10767864						
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-47-CT-1	10767865						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
SMSU-48-CT-1	10767866						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
SMSU-49-CT-1	10767867						
Layer: Off-White Fibrous Tile		Amosite	5 %				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (2 %) Fibrous Glass (90 %)							
SMSU-50-FT-1	10767868						
Layer: Off-White Tile			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B114038

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-51-FT-1	10767869						
Layer: Black Tile			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-52-WTX-1	10767870						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-52-WTX-2	10767871						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-52-WTX-3	10767872						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-52-WTX-3	10767872						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-53-ST-1	10767873						
Layer: Black Non-Fibrous Material			ND				
Layer: Clear Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-54-TSI-1	10767874						
Layer: Grey Fibrous Material		Chrysotile	70 %				
Total Composite Values of Fibrous Components:		Asbestos (70%)					
Cellulose (5 %)							
SMSU-54-TSI-2	10767875						
Comment: Sample not analyzed due to prior positive result in series.							
SMSU-54-TSI-3	10767876						
Comment: Sample not analyzed due to prior positive result in series.							
SMSU-55-TSI-1	10767877						
Layer: Off-White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Fibrous Glass (25 %)							
SMSU-55-TSI-2	10767878						
Layer: Off-White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Fibrous Glass (25 %)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B114038

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-55-TSI-3	10767879						
Layer: Off-White Semi-Fibrous Material			ND				
Layer: Silver Woven Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (7 %)	Fibrous Glass (25 %)						
SMSU-56-TSI-1	10767880						
Layer: Off-White Semi-Fibrous Material		Amosite	10 %				
Layer: Silver Woven Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (9%)					
Cellulose (7 %)							
SMSU-56-TSI-2	10767881						
Comment: Sample not analyzed due to prior positive result in series.							
SMSU-56-TSI-3	10767882						
Comment: Sample not analyzed due to prior positive result in series.							
SMSU-57-DSC-1	10767883						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-58-TSI-1	10767884						
Layer: Grey Semi-Fibrous Material			ND				
Layer: Off-White Woven Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Fibrous Glass (45 %)						
SMSU-58-TSI-2	10767885						
Layer: Grey Semi-Fibrous Material			ND				
Layer: Off-White Woven Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Fibrous Glass (45 %)						
SMSU-58-TSI-3	10767886						
Layer: Grey Semi-Fibrous Material			ND				
Layer: Off-White Woven Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Fibrous Glass (45 %)						
SMSU-60-TSI-1	10767887						
Layer: Off-White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Fibrous Glass (5 %)						
SMSU-60-TSI-2	10767888						
Layer: Off-White Semi-Fibrous Material			ND				
Layer: Off-White Woven Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (5 %)						

Client Name: Forensic Analytical Consulting Svcs

Report Number: B114038

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-60-TSI-3	10767889						
Layer: Off-White Semi-Fibrous Material			ND				
Layer: Off-White Woven Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (5 %)						
SMSU-61-WTX-1	10767890						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-61-WTX-2	10767891						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-61-WTX-3	10767892						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-62-DST-1	10767893						
Layer: White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (55 %)							
SMSU-63-DSC-1	10767894						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-64-SV-1	10767895						
Layer: Off-White Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-65-SU-1	10767896						
Layer: Grey Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (15 %)							
SMSU-66-FT-1	10767897						
Layer: Tan Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B114038

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-67-FT-1	10767898						
Layer: Tan Tile			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-68-CT-1	10767899						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
SMSU-69-FT-1	10767900						
Layer: Beige Tile		Chrysotile	3 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
SMSU-70-FT-1	10767901						
Layer: Beige Tile		Chrysotile	3 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
SMSU-71-FT-1	10767902						
Layer: Grey Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-72-ADH-1	10767903						
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-73-FT-1	10767904						
Layer: Green Tile		Chrysotile	3 %				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
SMSU-74-CW-1	10767905						
Layer: Beige Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
SMSU-75-FT-1	10767906						
Layer: Tan Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B114038

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SMSU-76-CF-1	10767907						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %)	Fibrous Glass (45 %)						
SMSU-59-TSI-1	10767908						
Layer: Black Foam			ND				
Layer: Foil			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
SMSU-05-FP-3	10767909						
Layer: Grey Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (50 %)						



James Flores, Laboratory Supervisor, Hayward Laboratory

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

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Client: PE21 FACS Portland Portland State University	Sampled by: KR	PM: Noal Kraft	Date: 6-5-08
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com		
Site: PJ5584 Kate Vance Smith Memorial Student Union (SMSU)	Turnaround Time:	1-Day	2-Day
Client No.: C6007 FACS Job#: PJ5584	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other: <i>Analyzes bracketed soils to P⁺ positive</i>	3-Day <input checked="" type="checkbox"/>	5-Day
		Other	Due Date & Time:

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
SMSU-01-DWJC-1	DWJC	C401			
2		C301			
3		V236			
4		258A			
5		C101			
6		SC2			
7		roof area #2			
SMSU-02-FT-1	FT, tan under-carpet (black) + CM (green)	C401			
03-CB-1	CB, 6" black (white)	C401			
04-CT-1	CT, 2x4, 2x2 pattern G/P	C401			

WB - Wallboard IC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BRM - Baseboard Mastic
 RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Shipped via: Fed Ex Airborne NPS US Mail Courier XXX Drop Off Other: _____

Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>
Date & Time: 6-16-08	Date & Time: 6/17/08 10:04 F

Condition Acceptable Yes No



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-5-08				
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com						
Site: PJ5584 Kate Vance Smith Memorial Student Union (SMSU)	Turnaround Time:	1-Day	2-Day	3-Day <input checked="" type="checkbox"/>	5-Day	Other	Due Date & Time:
Client No.: C6007 FACS Job#: PJ5584	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
05-FP-1	Fireproofing, sprayed-on	C401			
06-ST-1	FT, 9x9, grey w/ white + black streaks (tan)	S410			
07-ST-1	ST, tan	S410			
08-ST-1	ST, grey w/ white + black streaks	S410			
09-CT-1	CT, 2x2, textured	439			
10-PL-1	Plaster	S410			
	2	332			
	3	C101			
	4	198			
	5	194			

1033



WB - Wallboard IC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BBM - Baseboard Mastic Friable Yes/No Good: Fair/Poor
 RSE - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Shipped via: Fed Ex Airborne UPS US Mail Courier XXX Drop Off Other:

Relinquished by: *[Signature]* Received by: *[Signature]*
 Date & Time: 6-16-08 Date & Time: 6/17/08 Condition Acceptable Yes No

10302E



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft Date: 6-5-08
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com	
Site: PJ5584 Kate Vance Smith Memorial Student Union (SMSU)	Turnaround Time:	1-Day 2-Day 3-Day <input checked="" type="checkbox"/> 5-Day Other Due Date & Time:
Client No.: C6007 FACS Job#: PJ5584	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:	

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
SMSU-10-PL-6	plaster	59			
↓ 7	↓	C8			
11-CT-1	CT, 12x12, holed + brown adhes	437			
12-DST-1	Ductseam tape	453			
13-DW-1	Canvas duct wraps	453			
14-FT-1	FT, 12x12, off white w/ brown streaks	421A			
15-TSE-1	Pice ins. encap. sealant	462A			
↓ 2	↓	458F			
↓ 3	↓	S11			
↓ OS-FP-2	Fireproofing	458F			

WB - Wallboard IC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BBM - Baseboard Mastic
 RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture
 Shipped via: Fed Ex Airborne UPS US Mail Courier XXX Drop Off Other:

Friable Good
 Yes / No Fair / Poor

Relinquished by:

[Signature]
 6-16-08

Date & Time:

Received by:

[Signature]
 6/17/08 10:30 AM

Date & Time:

Condition Acceptable Yes No



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-5-08				
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com						
Site: PJ5584 Kate Vance Smith Memorial Student Union (SMSU)	Turnaround Time:	1-Day	2-Day	3-Day <input checked="" type="checkbox"/>	5-Day	Other	Due Date & Time:
Client No.: C6007 FACS Job#: PJ5584	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
SMU-16-FT-1	FT, 9x9, green streaked (black)	S401			
17-FT-1	FT, 9x9, red/orange streaked (black)	S401			
18-ST-1	ST, red/orange	S401			
19-CT-1	CT, 2x4, gypsum	355A			
20-FP-1	Fireproofing, sprayed-on	355D			
21-FT-1	FT, 9x9, dark brown w/ white specks (black)	301C			
22-FT-1	FT, 12x12, gray speckled (black)	C305			
23-TSI-1	Pipe insulation	324A			
24-CT-1	CT, 12x12, textured	V236			
25-CT-1	CT, 2x2, textured fiberglass	258			

WR - Wallboard JC - Joint Compound FT - Floor Tile PTM - Floor Tile Mastic RRM - Baseboard Mastic
 RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Friable Good
 Yes/No Fair/Poor

Shipped via: Fed Ex Airborne UPS US Mail Courier XXX Drop Off Other:

Relinquished by:

Date & Time:

6-16-08

Received by:

Date & Time:

6/17/08 10:20 AM

Condition Acceptable Yes No



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-5-08				
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com						
Site: PJ5584 Kate Vance Smith Memorial Student Union (SMSU)	Turnaround Time:	1-Day	2-Day	3-Day <input checked="" type="checkbox"/>	5-Day	Other	Due Date & Time:
Client No.: C6007 FACS Job#: PJ5584	Analysis: PLM Standard / Point Count / Flame AA (Pb) / Other:						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
SMSU-26-FT-1	FT, 9x9, brown w/ white + red streaks (black)	S201			
27-FT-1	FT, 12x12, beige w/ brown specks (black)	250A			
28-VJC-1	Vibration joint cloth	203P			
29-ADH-1	Adhesive on door, brown	203P			
30-FM-1	Fm, gray non slip	203P E7			
31-FT-1	FT, 12x12, black speckled (black) dark brown	133			
32-FS-1	Fire Stop, red	156			
33-CT-2	CT, 12x12, fissured pinkish	S115			
34-FT-1	FT, 12x12, blue w/ dark blue + tan specks (tan)	C6			
35-FT-1	FT, 12x12, tan speckled (tan)	S10			

WB - Wallboard JC - Joint Compound FT - Floor Tile FIM - Floor Tile Mastic BBM - Baseboard Mastic
 RNF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Shipped via: Fed Ex Airborne UPS US Mail Courier Drop Off Other: _____

Relinquished by:	Received by:
Date & Time: 6-16-08	Date & Time: 6/17/08 1030 ^{AM}

Condition Acceptable Yes No



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-5-08				
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com						
Site: PJ5584 Kate Vance Smith Memorial Student Union (SMSU)	Turnaround Time:	1-Day	2-Day	3-Day <input checked="" type="checkbox"/>	5-Day	Other	Due Date & Time:
Client No.: C6007 FACS Job#: PJ5584	Analysis: PLM Standard / Point Count / Flame AA (Pb) / Other:						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
SMSU-36-FT-1	FT, 12x12, black w/ white specks (black)	V62			
37-FT-1	FT, 12x12, yellow specked (tan)	S9			
38-FT-1	FT, 9x9, grey w/ white streaks (black)	C1			
39-FT-1	FT, 9x9, black (black) w/ white specks (black)	C1			
40-CT-1	CT, 2x4, 2x2 pattern textured pinhole	C6			
41-FT-1	FT, 12x12, light blue specked (tan)	1A			
42-TSE-1	Pipe fitting insul.	3			
43-FT-1	FT, 12x12, beige w/ green specks (black)	46			
44-FT-1	FT, 12x12, gold specked (black)	36			
45-FT-1	FT, 12x12, burnt orange specked (black)	36			

WB - Wallboard IC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BBM - Baseboard Mastic
 RSE - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Friable Good /
 Yes / No Fail / Poor

Shipped via: Fed Ex Airborne LPS US Mail Courier XXX Drop Off Other:

Relinquished by:	Received by:
Date & Time: 6-16-08	Date & Time: 6/17/08 10:09 AM

Condition Acceptable Yes No



Client: PE21 FACS Portland Portland State University	Sampled by: DKE	PM: Noal Kraft	Date: 6-5-08				
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com						
Site: PJ5584 Kate Vance Smith Memorial Student Union (SMSU)	Turnaround Time:	1-Day	2-Day	3-Day <input checked="" type="checkbox"/>	5-Day	Other	Due Date & Time:
Client No.: C6007 FACS Job#: PJ5584	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
SMSU-46-ADH-1	Adhesive, brown on ceiling	283			
47-CT-1	CT, 2x2 textured	26			
48-CT-1	CT, 2x4, G/P	25			
49-CT-1	CT, 12x12, F/P	C5			
50-FT-1	FT, 12x12, off-white w/ black & grey streaks (black)	S9			
51-FT-1	FT, 12x12, black w/ white streaks (black)	S9			
52-WTV-1	Wall text.	SC2			
↓ 2	↓	SC2			
↓ 3	↓	SC2			
53-ST-1	ST, black nonslip	S9			

WB - Wallboard IC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BMM - Baseboard Mastic
RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Friable Good
Yes/No Fair/Poor

Shipped via: Fed Ex Airborne UPS US Mail Courier XXX Drop Off Other:

Relinquished by:

[Signature]
6-16-08

Date & Time:

Received by:

[Signature]
6/17/08 10:29 AM

Date & Time:

Condition Acceptable Yes/No



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-5-08				
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com						
Site: PJ5584 Kate Vance Smith Memorial Student Union (SMSU)	Turnaround Time:	1-Day	2-Day	3-Day <input checked="" type="checkbox"/>	5-Day	Other	Due Date & Time:
Client No.: C6007 FACS Job#: PJ5584	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
SMSU-S4-TSE-1	Aircell pipe insulation	S9C			
↓ 2	↓	S9A			
↓ 3	↓	S6			
S-TSE-1	Fitting on aircell pipe insul.	S11			
↓ 2	↓	S9A			
↓ 3	↓	S9A			
S0-TSE-1	Rigid pipe insulation	S11			
↓ 2	↓	S9A			
↓ 3	↓	S9A			
S7-BSC-1	Duct seam compound, grey	S9C			

WB - Wallboard JC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BBM - Baseboard Mastic
RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Friable Good
Yes/No Fair/Poor

Shipped via: Fed Ex Airborne UPS US Mail Courier XXX Drop Off Other:

Relinquished by:

[Signature]

Date & Time:

6-16-08

Received by:

[Signature]

Date & Time:

6/17/08 10:30 AM

Condition Acceptable Yes/No

[Signature]



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-5-08				
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com						
Site: PJ5584 Kate Vance Smith Memorial Student Union (SMSU)	Turnaround Time:	1-Day	2-Day	3-Day <input checked="" type="checkbox"/>	5-Day	Other	Due Date & Time:
Client No.: C6007 FACS Job#: PJ5584	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
SMSU 55-TSE-1	Fitting on f.b. ins. pipe	S11			
↓ 2	↓	S11			
↓ 3	↓	S11			
60TSS-1	tank insul.	S11			
↓ 2	↓	S11			
↓ 3	↓	S11			
61-NTX-1	Wall text.	Roof area #2			
↓ 2		↓			
↓ 3		↓			
62-DST-1	Duct seam tape	↓			

WB - Wallboard JC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastie BBM - Baseboard Mastie
 RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Friable Cond.
 Yes - No Fair - Poor

Shipped via: Fed Ex Airborne UPS US Mail Courier XXX Drop Off Other:

Relinquished by:

[Signature]

Date & Time:

6-16-08

Received by:

[Signature]

Date & Time:

6/17/08 10:27 AM

Condition Acceptable Yes No

[Signature]



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-5-08				
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com						
Site: PJ5584 Kate Vance Smith Memorial Student Union (SMSU)	Turnaround Time:	1-Day	2-Day	3-Day <input checked="" type="checkbox"/>	5-Day	Other	Due Date & Time:
Client No.: C6007 FACS Job#: PJ5584	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
SMSU-63-DSC-1	Duct seam compound, light gray	Roof area #1			
64-SU-1	Sheet Vinyl, TAN SPIC	126E			
65-SU-1	Sink Underlayment, Grey	126E			
66-FT-1	FT, 24"x24" TAN MARBLE + TAN	126			
67-FT-1	FT, 12x12 Beige " " "	126			
68-FT-1	CT, 12x12 (2x12 TEXTURE)	126			
69-FT-1	FT, 9x9, tan w/ white streaks (black)	427F			
70-FT-1	FT, 9x9, tan marble (black)	231			
71-FT-1	FT, 12x12, grey mottled (tan)	193			
72-ADH-1	exposed wall adhesive, brown	104			

WB - Wallboard IC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic RBM - Baseboard Mastic
RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Friable Good:
Yes / No Fair / Poor

Shipped via: Fed Ex Airborne UPS US Mail Courier XXX Drop Off Other:

Relinquished by:

[Signature]
6-16-08

Date & Time:

Received by:

[Signature]
6/17/08 10:30 AM

Date & Time:

Condition Acceptable Yes No



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft Date: 6-13-08
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com	
Site: PJ5584 Kate Vance Smith Memorial Student Union (SMSU)	Turnaround Time:	1-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> 3-Day <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> Other <input type="checkbox"/> Due Date & Time:
Client No.: C6007 FACS Job#: PJ5584	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:	

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
58SV-73-F1-1	FT, 9x9, ground, white streaks (black)	C11			
74-CW-1	Canvas wrap on HVAC	S7E			
75-F1-1	FT, 12x12, tan marbled (tan)	S7F			
76-F1-1	FT, 12x12, tan marbled (tan)				
76-F1-1	FT, 12x12, tan marbled (tan)				
76-F1-1	CT, 12x12 F1 (S7046)	S2			
59-TS3-1	} was not included } per Robin from Portland } just add to list Rp)				
05-FP-3					

WB - Wallboard JC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BBM - Baseboard Mastic
 RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WJ - Wall Texture

Shipped via: Fed Ex Airborne UPS US Mail Courier XXX Drop Off Other:

Relinquished by:	Received by:
Date & Time: 6-16-08	Date & Time: 6/17/08 10:30 AM

Condition Acceptable Yes No

APPENDIX D

GLOSSARY OF TERMS

GLOSSARY OF TERMS

ACM - Asbestos-containing material: Any material containing more than one percent asbestos. This includes suspect and/or presumed ACM.

AHERA: Asbestos Hazard Emergency Response Act of 1986.

AHERA Building Inspector: A person who has successfully completed the training requirements for a building inspector established by EPA Asbestos Model Accreditation Plan; Interim Final Rule (40 CFR Part 763, Appendix C to Subpart E, I.B.3) and whose certification is current.

AHERA Project Designer: A person who has successfully completed the training requirements for an asbestos abatement project designer established by EPA regulations (40 CFR 763.90(g)) and whose certification is current.

Asbestos: Chrysotile, amosite, crocidolite, tremolite, anthophyllite, actinolite and any of these minerals that have been chemically treated and/or altered.

Asbestos Building Inspection: A written report describing an inspection using the procedures contained in EPA regulations (40 CFR 763,86) to determine whether materials or structures to be worked on, renovated, removed, or demolished (including materials on the outside of structures) contain asbestos.

Authorized Person: Any person authorized by the employer and required by work duties to be present in regulated areas.

Chain of Custody Record: Legal documentation that follows samples from collection to the laboratory indicating who has been in possession of the samples.

Competent Person: A person capable of identifying asbestos hazards, selecting appropriate control strategies and having the authority to take prompt corrective measures. Additionally, for Class I and Class II work, one who is specially trained in a training course meeting the criteria of EPA's Model Accreditation Plan (40 CFR 763) for project designer or supervisor, or its equivalent and, for Class II work, who is trained in an operations and Maintenance O & M Course developed by EPA (40 CFR 76392 (a) (2)).

Contractor: The asbestos abatement contractor.

EPA: United States Environmental Protection Agency

Friable: Asbestos-containing material that can be crumbled, pulverized or reduced to powder when dry, by hand pressure.

HEPA - High-Efficiency Particulate Air (Filter): A filter capable of trapping and retaining at least 99.97 percent of all mono-dispersed particles of 0.3 micrometers in diameter.

Intact: ACM that has not crumbled, been pulverized, or otherwise deteriorated so that its no longer likely to be bound within its matrix.

LF: Linear feet

NESHAPs: National Emission Standard for Hazardous Air Pollutants, 40 CFR part 61.

NVLAP: National Voluntary Laboratory Accreditation Program

OSHA: United States Department of Labor - Occupational Safety and Health Administration.

Owner: The legal entity, including a lessee, which exercises control over management and record keeping functions relating to a building and/or facility in which the abatement activities described in this document take place.

Owners Representative: A person authorized by the Owner to act on the Owners behalf.

PLM: Polarized Light Microscopy

PACM - Presumed Asbestos Containing Material: Thermal system insulation and surfacing material found in buildings constructed no later than 1980. The designation of a material as PACM may be rebutted through PLM analysis of samples obtained by certified inspectors.

Removal: All operations where ACM and/or PACM is taken out or stripped from structures or substrate, and includes demolition operations.

Sq. Ft.: Square feet

Surfacing Material: Material that is sprayed, troweled-on or otherwise applied to surfaces.

Suspect ACBM: Material that is suspected of containing asbestos that has not been sampled and analyzed for asbestos content.

TSI - Thermal System Insulation: ACM applied to pipes, fittings, boilers, breaching, tanks, ducts or other structural components to prevent heat loss or gain.

APPENDIX E

ACCREDITATION

Certificate of Completion

This is to certify that
Noal C. Kraft
has satisfactorily completed
4 hours of refresher training as an
Asbestos Building Inspector

to comply with the training requirements of
TSCA Title III / 40 CFR 763 (AHCRA)

Certificate Number: 10267132


Instructor

EPA Provider Cert. Number: 1085



Jul 18, 2007

Date(s) of Training

Exam Score: NA

Expiration Date: Jul 17, 2008

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • (206) 285.3373 • fax (206) 285.3927

Certificate of Completion

This is to certify that

Dan K. Rouse

has satisfactorily completed
4 hours of refresher training as an

Asbestos Building Inspector

to comply with the training requirements of
WSPA Title III / 40 CFR 763 (AHERA)

Certificate Number: 1029792



Instructor

EPA Provider Cert. Number: 1085



Jun 18, 2008

Date(s) of Training

Exam Score: NA

Expiration Date: Jun 18, 2009

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • (206) 285.3373 • fax (206) 285.3927

Certificate of Completion

This is to certify that

Robin Sharpe

has attended and successfully completed the requisite training for accreditation under TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR EPA AHERA (Asbestos Hazard Emergency Response Act), and ASHARA Model Accreditation Program requirements for **AHERA INSPECTOR REFRESHER**

as presented by

Bureau Veritas North America, Inc.



Allen George

Allen George
INSTRUCTOR

Course Date: 04/29/08

Certification # 08-1061

Certificate Expiration Date: 04/29/09

3800 NE Sandy Boulevard, Suite 101, Portland, Oregon 97232 • (971) 244-1200 • fax (971) 244-1209