

ASBESTOS BUILDING INSPECTION

LOCATION:

**PETER W. STOTT CENTER
930 SW HALL STREET
PORTLAND, OREGON 97201**

JULY 11, 2008

FORENSIC ANALYTICAL PROJECT NO. PJ5587

PREPARED FOR:

PORTLAND STATE UNIVERSITY
PO BOX 13175
PORTLAND, OREGON 97403

PREPARED BY:



Forensic Analytical Consulting Services, Inc.
Portland Office
17400 SW Upper Boones Ferry Road, Suite 245
Portland, OR 97224
503/595.1001

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1.0 INTRODUCTION

Forensic Analytical Specialties, Inc. performed an inspection to identify asbestos-containing building materials at the property located at 930 SW Hall Street, Portland, Oregon. Dan Rouse, Noal Kraft, and Robin Sharpe conducted the field investigation on June 3, 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 consists of a three-story building totaling 201,935 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.

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,

Reviewed by,

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

Dan Rouse

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
PSC-01-FT-1	Floor Tile, 9" x 9" Brown Streaked, and Black Mastic	PSC - C204	PSC - 1st & 2nd Floors, East End	5% Chrysotile Tile 5% Chrysotile Mastic	6,575 sq. ft.	Good
PSC-02-CB-1	Cove Base, 4" Black, and Brown Adhesive	PSC - C204	-	ND	-	-
PSC-03-CT-1	Ceiling Tile, 12" x 12" Holed, and Brown Adhesive	PSC - 203	PSC - 1st & 2nd Floors, East End	2% Chrysotile Tile ND Mastic	28,720 sq. ft.	Good
PSC-04-CM-1	Carpet Mastic, Grey	PSC - 203A	-	ND	-	-
PSC-05-DST-1	Duct Seam Tape, White	PSC - C204	PSC - Throughout	60% Chrysotile	Not Quantified	Good
PSC-06-CT-1	Ceiling Tile, 2' x 4' (2" x 2" Pattern)	PSC - 202D	-	ND	-	-
PSC-07-DWJC-1	Drywall & Joint Compound	PSC - L202	-	ND	-	-
PSC-07-DWJC-2	Drywall & Joint Compound	PSC - L103	-	ND	-	-
PSC-07-DWJC-3	Drywall & Joint Compound	PSC - C168	-	ND	-	-
PSC-08-CTX-1	Ceiling Texture, Acoustical	PSC - C212	PSC - 2nd Floor, Central Office Areas and Restrooms	3% Chrysotile	5,165	Good
PSC-08-CTX-2	Ceiling Texture, Acoustical	PSC - C210	PSC - 2nd Floor, Central Office Areas and Restrooms	*	5,165	Good

ND – Non-Detected

* - This sample is part of a set in which one or more of the samples contains asbestos.

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
PSC-08-CTX-3	Ceiling Texture, Acoustical	PSC - 221	PSC - 2nd Floor, Central Office Areas and Restrooms	*	5,165	Good
PSC-09-TSI-1	Pipe Fitting	PSC - 221	PSC - Throughout	2% Chrysotile	Not Quantified	Good
PSC-10-PL-1	Plaster, Wall	PSC - 221	-	ND	-	-
PSC-10-PL-2	Plaster, Wall	PSC - C212	-	ND	-	-
PSC-10-PL-3	Plaster, Wall	PSC - 118	-	ND	-	-
PSC-10-PL-4	Plaster	PSC - 105	-	ND	-	-
PSC-10-PL-5	Plaster	PSC - 222	-	ND	-	-
PSC-11-CB-1	Cove Base, 4" Green, and White Adhesive	PSC - C212	-	ND	-	-
PSC-12-FT-1	Floor Tile, 12" x 12" Tan Specked, and Tan Mastic, and Grey Leveling Compound	PSC - L101	-	ND	-	-
PSC-13-FT-1	Floor Tile, 12" x 12" Grey Specked, and Tan Mastic, and Grey Leveling Compound	PSC - L101	-	ND	-	-
PSC-14-FT-1	Floor Tile, 12" x 12" Dark Grey Specked, and Tan Mastic	PSC - L103	-	ND	-	-
PSC-15-VJC-1	Vibration Joint Cloth	PSC - 111	-	ND	-	-
PSC-16-TSI-1	Pipe Insulation, Yellow	PSC - 111	PSC - Throughout	15% Amosite	Not Quantified	Good

ND – Non-Detected

* - This sample is part of a set in which one or more of the samples contains asbestos.

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
PSC-17-TSI-1	Pipe Insulation, Yellow	PSC - 111	PSC - Throughout	5% Chrysotile 2% Amosite	Not Quantified	Good
PSC-09-TSI-2	Pipe Fitting	PSC - 111	PSC - Throughout	3% Chrysotile	Not Quantified	Good
PSC-18-SV-1	Sheet Vinyl, Light Grey Specked	PSC - 143A	-	ND	-	-
PSC-19-CT-1	Ceiling Tile, 2' x 4' Pinhole	PSC - C168	-	ND	-	-
PSC-09-TSI-3	Pipe Fitting	PSC - C112	PSC - Throughout	3% Chrysotile	Not Quantified	Good
PSC-20-FM-1	Floor Material, Grey Marmoleum	PSC - E270	-	ND	-	-
PSC-21-FS-1	Firestop, Red	PSC - 209	-	ND	-	-
PSC-22-SU-1	Sink Undercoating, Grey	PSC - 124	-	ND	-	-
PSC-23-FP-1	Fireproofing, Sprayed-On	PSC - 301	PSC - 301	15% Chrysotile	3,150 sq. ft.	Fair
PSC-23-FP-2	Fireproofing, Sprayed-On	PSC - 301	PSC - 301	*	3,150 sq. ft.	Fair
PSC-23-FP3	Fireproofing, Sprayed-On	PSC - 301	PSC - 301	*	3,150 sq. ft.	Fair

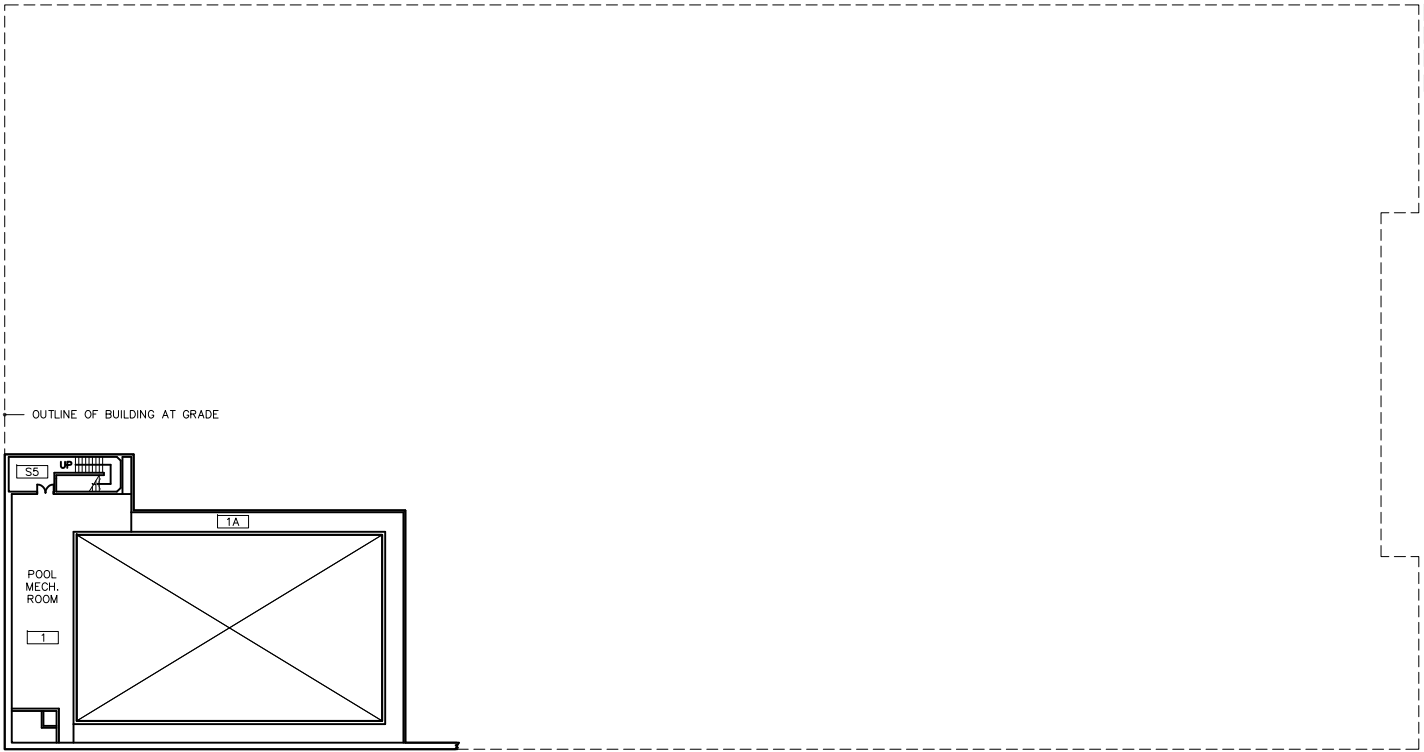
ND – Non-Detected





* - This sample is part of a set in which one or more of the samples contains asbestos.

APPENDIX B

SITE DRAWING(S)

Basement




-  Floor Tile, 9" x 9" Brown Streaked, and Black Mastic
 -  Ceiling Tile, 12" x 12" Holed
 -  Acoustical Ceiling Texture
 -  Spray-Applied Fireproofing
- ACM not shown:
 Duct Seam Tape
 Pipe Fitting Insulation
 Pipe Insulation

DATE: 7-11-08
DRAWN BY: DKR
CLIENT: PSU Peter Stott Center 17400 SW Upper Boones Ferry Road, Portland, Oregon 97224
PROJECT: PSU Peter Stott Center 17400 SW Upper Boones Ferry Road, Portland, Oregon 97224
LOCATION: Portland, Oregon 97201
PROJECT #: PJ5887
PAGE #: ACM - 1/4

REVISIONS

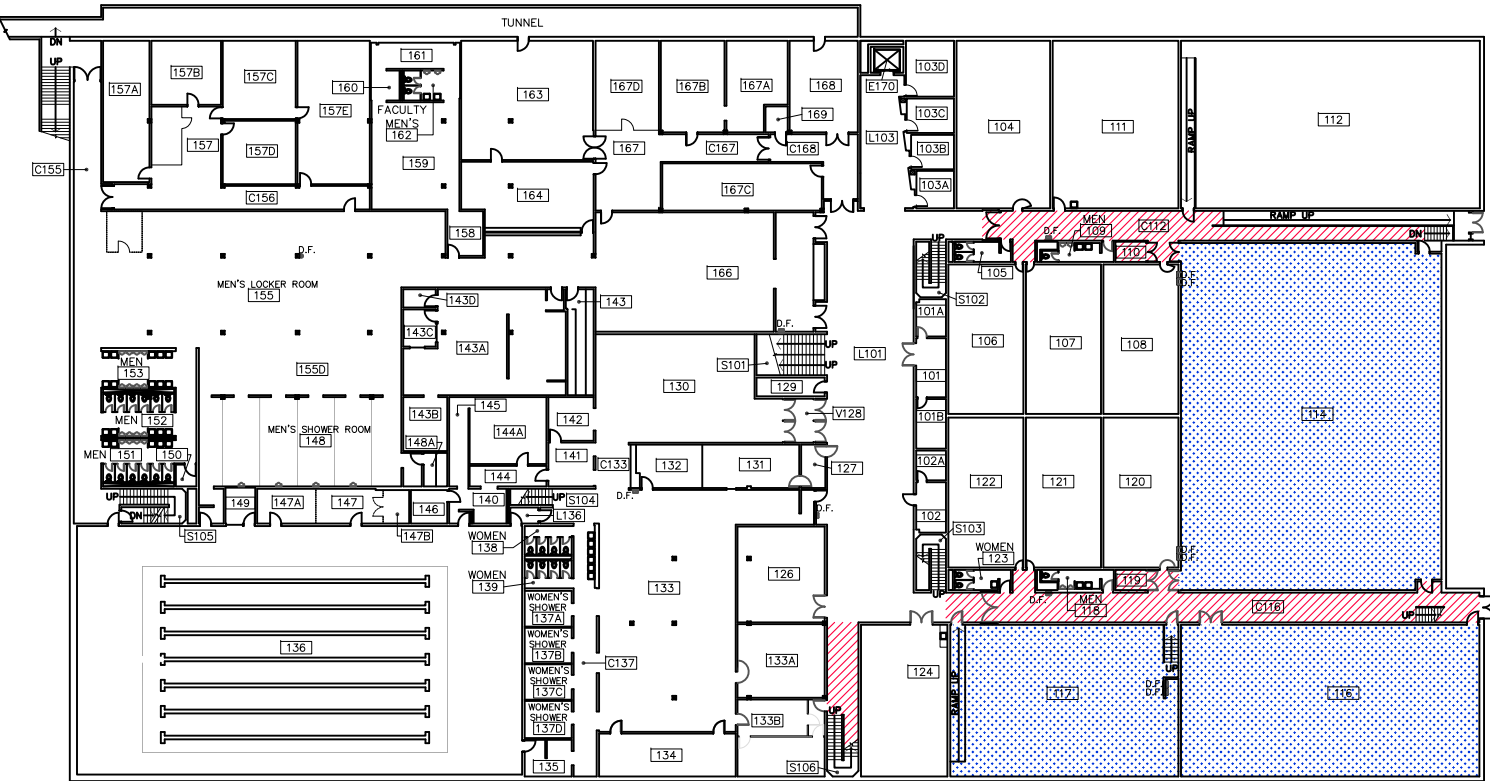
Peter Stott Center
 Basement
 ACM Locations

Report North



No Scale

1st Floor



- Floor Tile, 9" x 9" Brown Streaked, and Black Mastic
 - Ceiling Tile, 12" x 12" Holes
 - Acoustical Ceiling Texture
 - Spray-Applied Fireproofing
- ACM not shown:
 Dust Seam Tape
 Pipe Fitting Insulation
 Pipe Insulation

DATE: 7-11-08
DRN BY: DKR

CLIENT: PSU
PROJECT: Peter Stott Center
LOCATION: Portland, Oregon 97201

PROJECT #: PJE887

ACM - 214

REVISIONS

NO.	DATE	DESCRIPTION

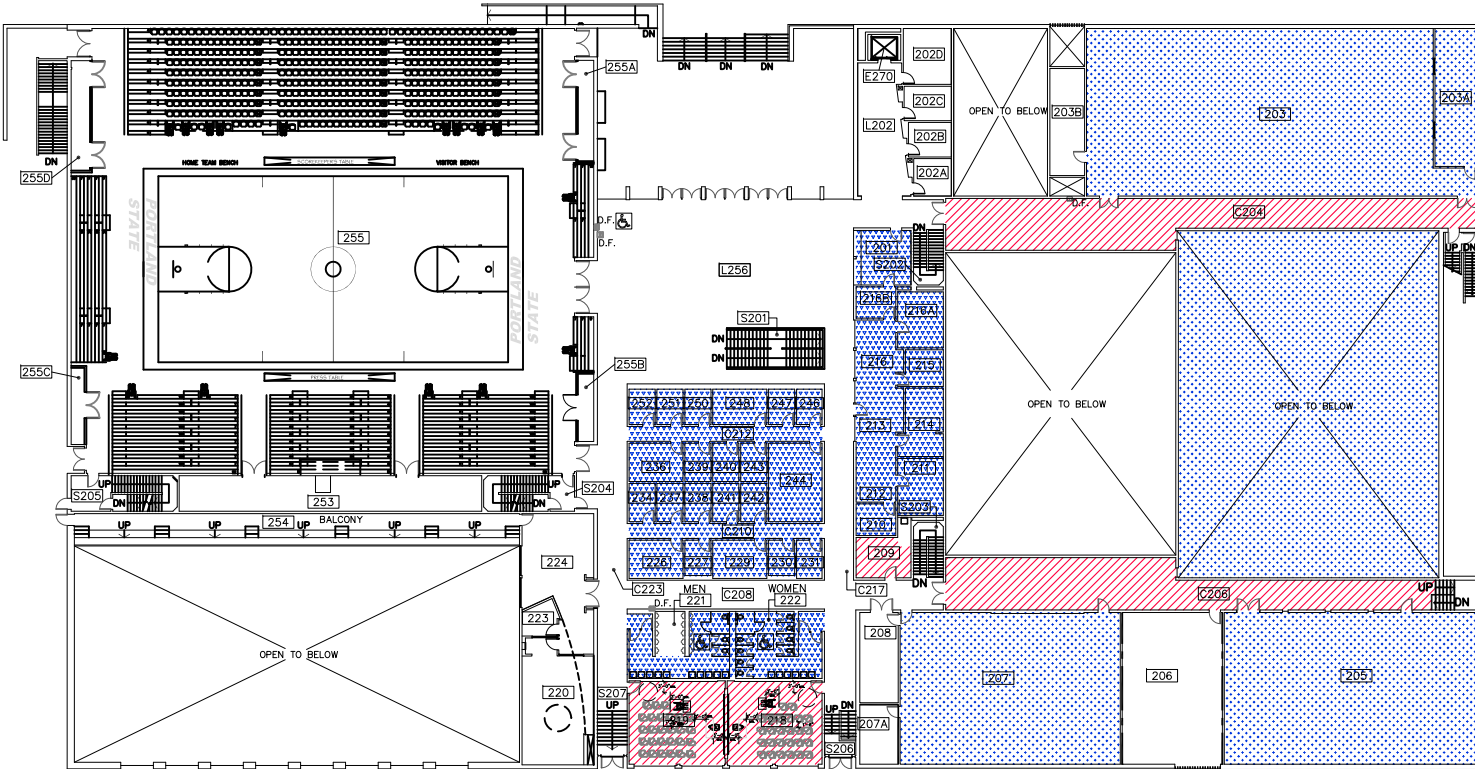
**Peter Stott Center
1st Floor
ACM Locations**

Report North

No Scale

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

2nd Floor



- Floor Tile, 9" x 9" Brown Streaked, and Black Mastic
- Ceiling Tile, 12" x 12" Holed
- Acoustical Ceiling Texture
- Spray-Applied Fireproofing
- ACM not shown:
 - Duct Seam Tape
 - Pipe Fitting Insulation
 - Pipe Insulation

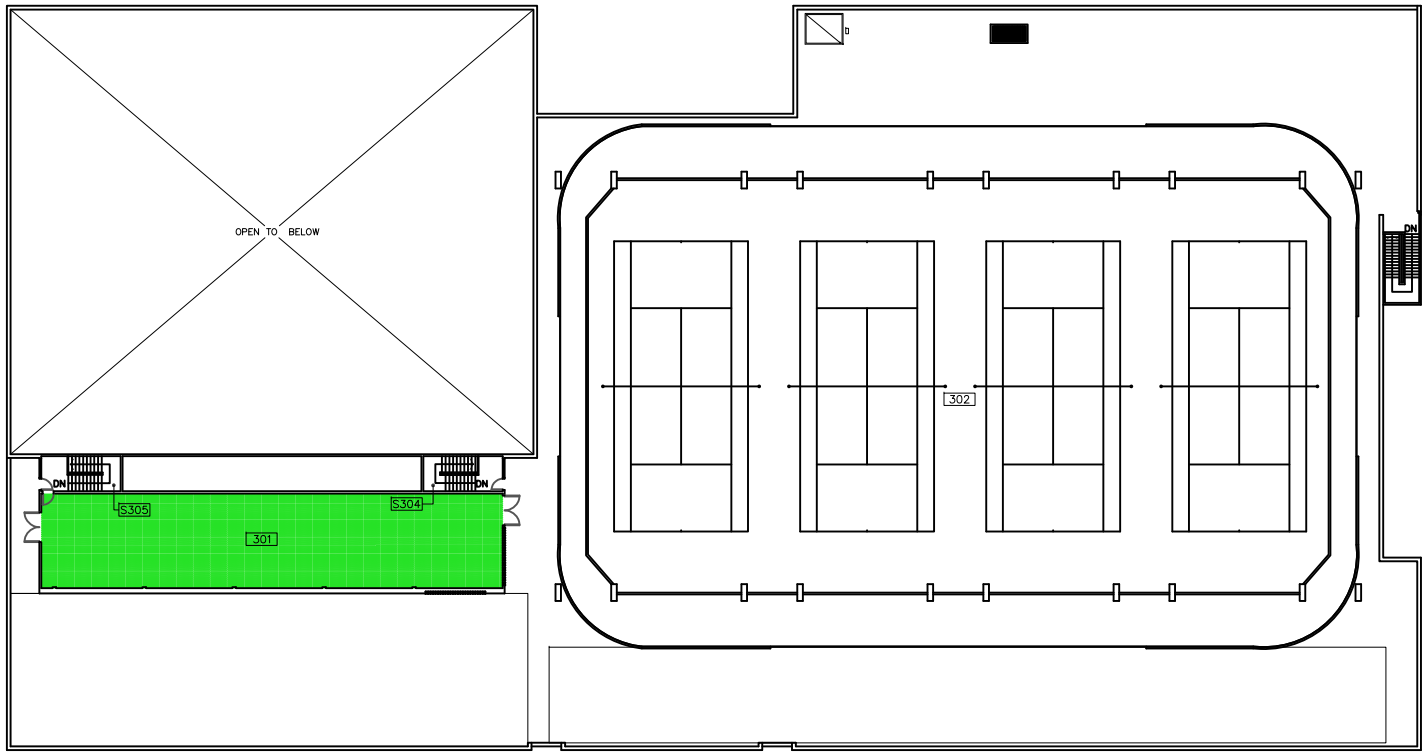
DATE: 7-11-08
PROJECT: Peter Stott Center
LOCATION: Portland, Oregon 97201
DRN BY: DKR
PROJECT #: PJE887
ACM - 314





REVISIONS

Peter Stott Center
2nd Floor
ACM Locations



Roof



-  Floor Tile, 9" x 9" Brown Streaked, and Black Mastic
 -  Ceiling Tile, 12" x 12" Holed
 -  Acoustical Ceiling Texture
 -  Spray-Applied Fireproofing
- ACM not shown:
 Duct Seam Tape
 Pipe Fitting Insulation
 Pipe Insulation

DATE: 7-11-08	CLIENT: PSU
DRAWN BY: DKR	PROJECT: Peter Stott Center
PROJECT #: ACM -4/4	LOCATION: Portland, Oregon 97201
	PROJECT #: PJ5857

REVISIONS

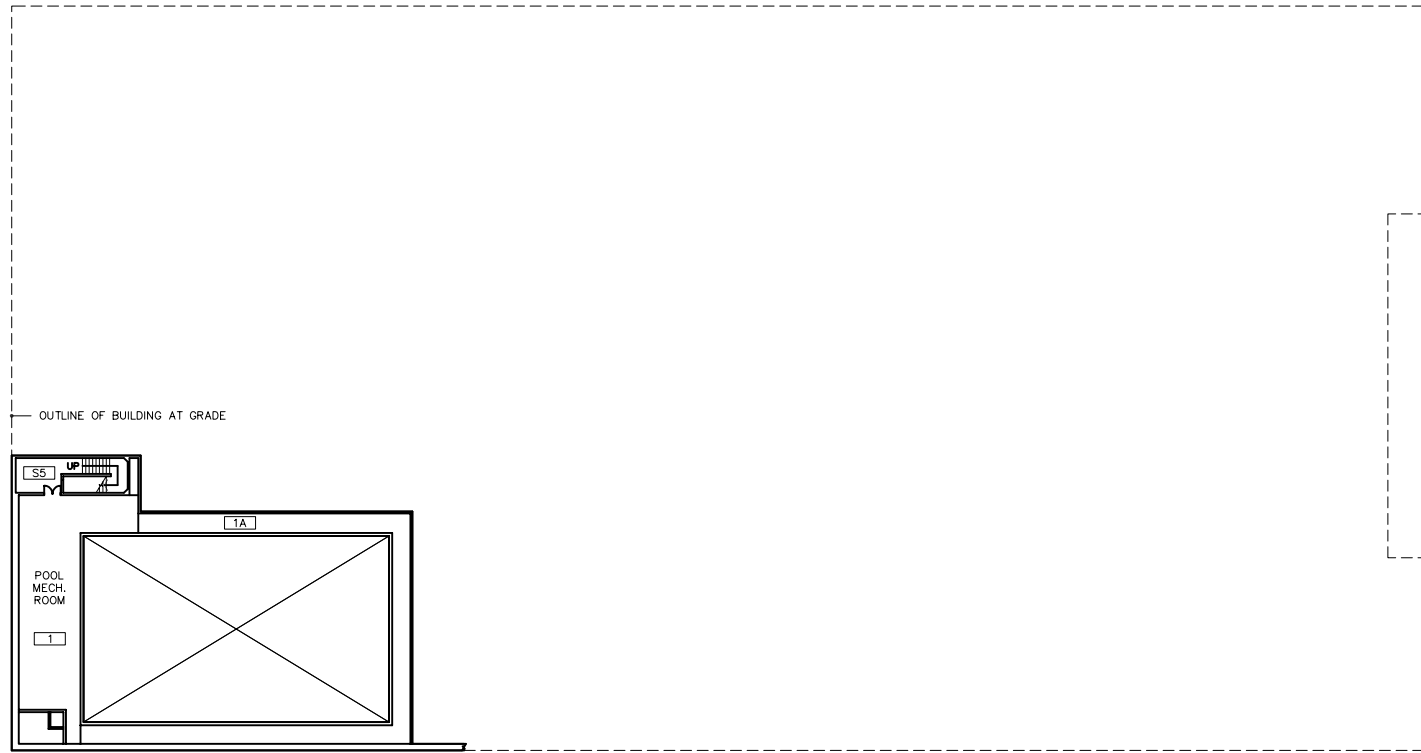
Peter Stott Center
 Roof
 ACM Locations

Report North



No Scale

Basement



No Samples Taken

DATE: 7-11-08
DRN BY: DKR
PAGE #: SAM - 1/4
CLIENT: PSU PROJECT: Peter Stott Center LOCATION: Portland, Oregon 97201
PROJECT #: PJE887

PSU is a registered provider of continuing education for the International Board of Standards and Practices for Certified Environmental Health and Safety Practitioners. This course is approved for 1.0 CEU credit. For more information, visit www.ihf.org.

REVISIONS

Peter Stott Center
Basement
Sample Locations

Report North

No Scale

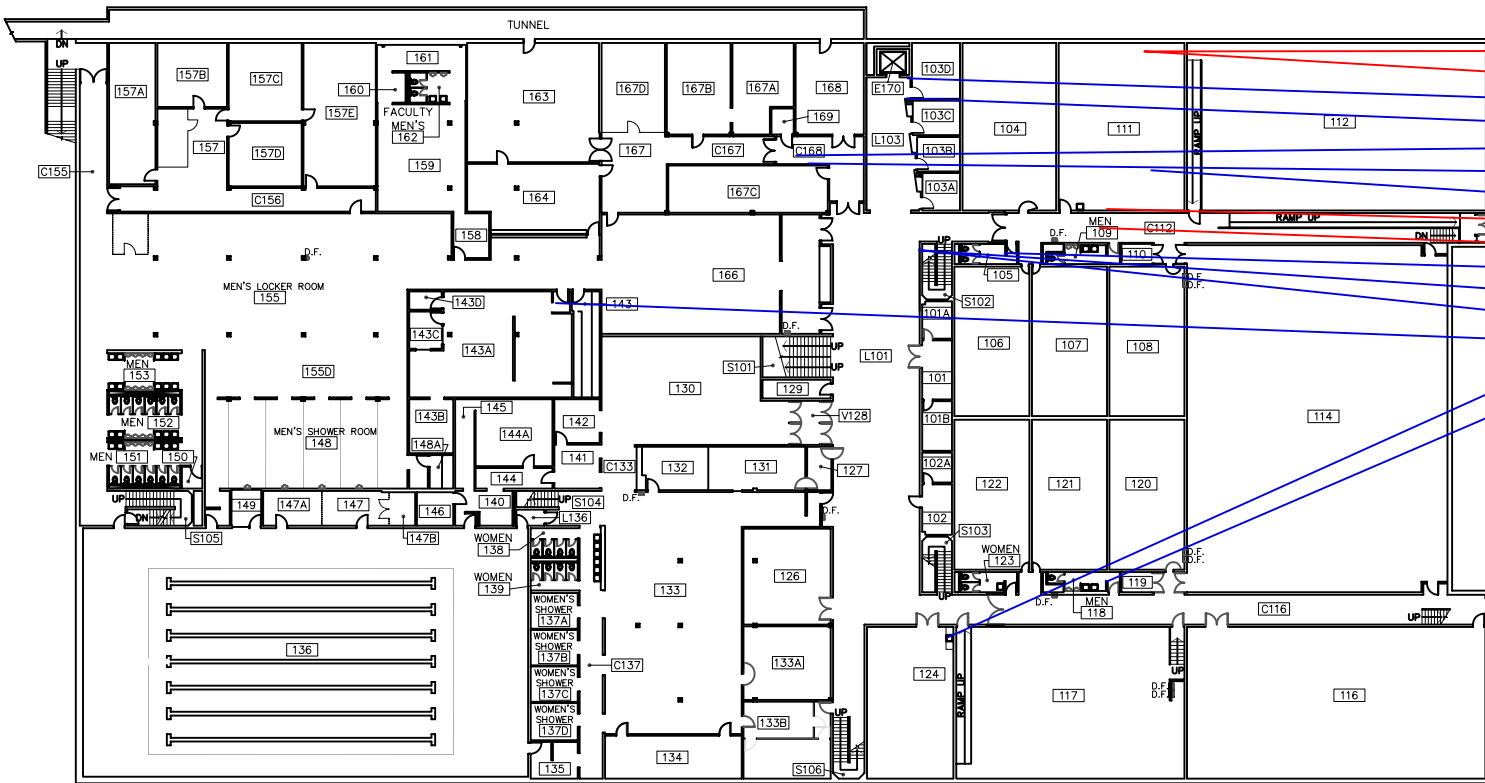
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--

Forensic Analytical

17400 SW Upper Boones Ferry Road, Suite 245
Portland, Oregon 97224
503/952-1001 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.

1st Floor



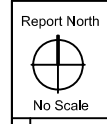
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- PSC-17-TS#1
- PSC-14-FT-1
- PSC-07-DWJC-2
- PSC-19-CT-1
- PSC-07-DWJC-3
- PSC-15-VJC-1
- PSC-09-TS#1
- PSC-09-TS#3
- PSC-10-PL-4
- PSC-12-FT-1
- PSC-13-FT-1
- PSC-18-SV-1
- PSC-22-SU-1
- PSC-10-PL-3

DATE: 7-11-08
 PROJECT: Peter Stott Center
 LOCATION: Portland, Oregon 97201
 DRAWN BY: DKR
 PROJECT #: PJS897
 PAGE #: SAM - 2/4

REVISIONS

NO.	DESCRIPTION

Peter Stott Center
 1st Floor
 Sample Locations



No Scale

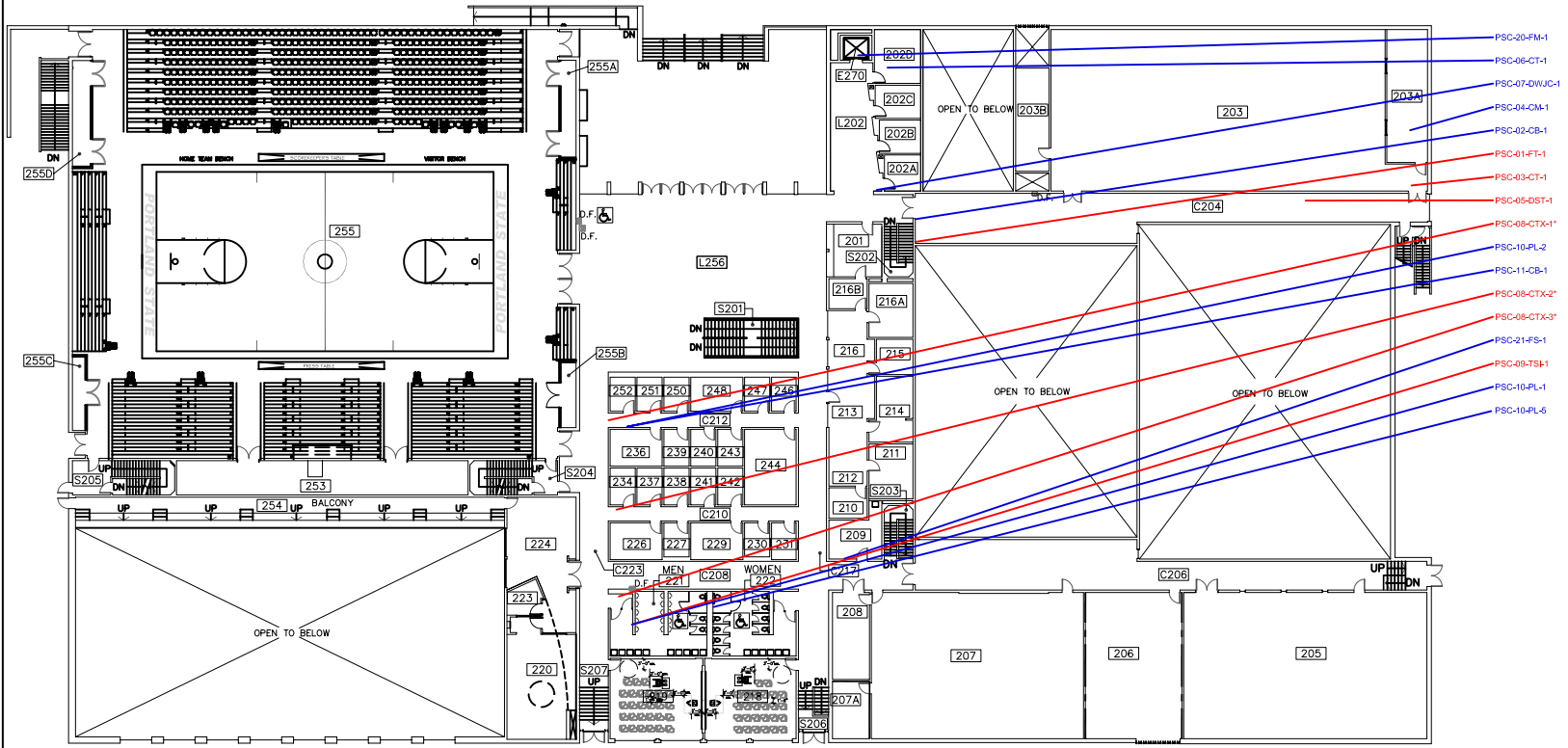
Sample ID # Key
 PSU Provided Building Code
 Homogeneous Material #
 Material Code - Click for Details
 ACW# Shown in Red
 Non-ACW Shown in Blue

Forensic Analytical
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 Portland, Oregon 97224
 503.995.1001
 Fax: 503.995.1002
 WWW.FORENSICCA.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.

2nd Floor



- PSC-20-FM-1
- PSC-06-CT-1
- PSC-07-DWJC-1
- PSC-04-CM-1
- PSC-02-CB-1
- PSC-01-FT-1
- PSC-03-CT-1
- PSC-05-DST-1
- PSC-08-CTX-1*
- PSC-10-PL-2
- PSC-11-CB-1
- PSC-08-CTX-2*
- PSC-08-CTX-3*
- PSC-21-FS-1
- PSC-09-TSH-1
- PSC-10-PL-1
- PSC-10-PL-6

DATE: 7-11-08
 PROJECT: Peter Stott Center
 LOCATION: Portland, Oregon 97201
 DRAWN BY: DKR
 PROJECT #: PJS897
 PAGE #: SAM - 3/4

REVISIONS

NO.	DATE	DESCRIPTION

Peter Stott Center
 2nd Floor
 Sample Locations



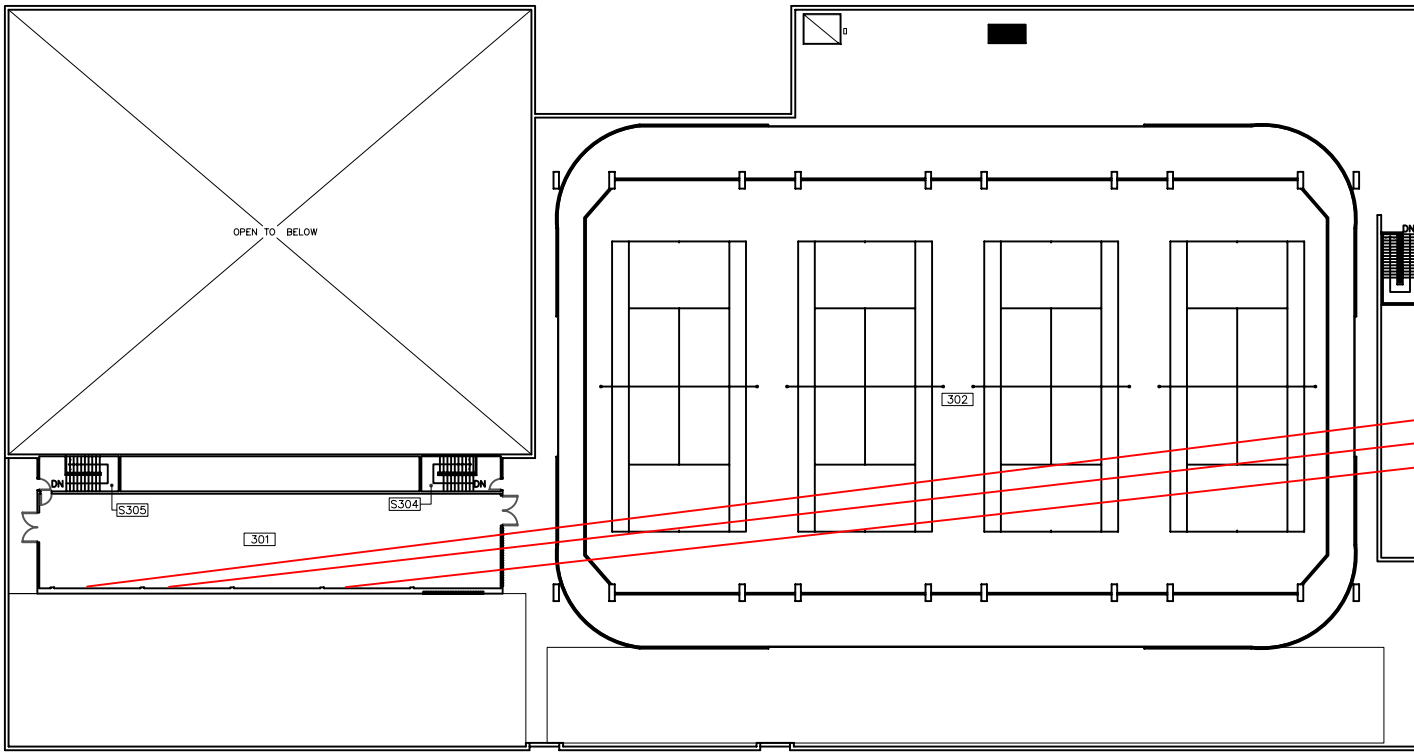
Sample ID # Key

PSU Provided Building Code
 Homogeneous Material # ABC-00-F-1
 Material Code - Click for Details
 ACW Shown in Red
 Non-ACW Shown in Blue

Forensic Analytical
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 Fax: 503.952.1002
 www.forensicca.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.

Roof



DATE: 7-11-08
 DRN BY: DKR
 PROJECT: PSU Peter Stott Center
 LOCATION: Portland, Oregon 97201
 PROJECT #: PJE887
 PAGE #: SAM -4/4

REVISIONS

NO.	DESCRIPTION

Peter Stott Center
 Roof
 Sample Locations

Report North

No Scale

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

Forensic Analytical
 17400 SW Upper Boones Ferry Road, Suite 245
 Portland, Oregon 97224
 503/995-1001
 Fax: 503/995-1002
 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: B113991
Date Received: 06/17/08
Date Analyzed: 06/20/08
Date Printed: 06/20/08
First Reported: 06/20/08

Job ID/Site: PJ5587; Kate Vance Peter W. Scott Center (PSC) 3 floors 930 SW Hall Portland OR 97201

FASI Job ID: PE21
Total Samples Submitted: 35
Total Samples Analyzed: 31

Date(s) Collected:

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PSC-01-FT-1	10767282						
Layer: Brown Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
PSC-02-CB-1	10767283						
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Talc (2 %)							
PSC-03-CT-1	10767284						
Layer: Grey Fibrous Tile		Chrysotile	2 %				
Layer: Paint			ND				
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (2 %) Fibrous Glass (90 %)							
PSC-04-CM-1	10767285						
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PSC-05-DST-1	10767286						
Layer: Off-White Fibrous Material		Chrysotile	60 %				
Total Composite Values of Fibrous Components:		Asbestos (60%)					
Cellulose (35 %)							
PSC-06-CT-1	10767287						
Layer: Grey Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
PSC-07-DWJC-1	10767288						
Layer: Off-White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B113991

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PSC-07-DWJC-2	10767289						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
PSC-07-DWJC-3	10767290						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
PSC-08-CTX-1	10767291						
Layer: Off-White Texture		Chrysotile	3 %				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
PSC-08-CTX-2	10767292						
Comment: Sample not analyzed due to prior positive result in series.							
PSC-08-CTX-3	10767293						
Comment: Sample not analyzed due to prior positive result in series.							
PSC-09-TSI-1	10767294						
Layer: Grey Semi-Fibrous Material		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace) Fibrous Glass (40 %)							
PSC-10-PL-1	10767295						
Layer: Off-White Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PSC-10-PL-2	10767296						
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PSC-10-PL-3	10767297						
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PSC-10-PL-4	10767298						
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B113991

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PSC-10-PL-5	10767299						
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PSC-11-CB-1	10767300						
Layer: Green Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PSC-12-FT-1	10767301						
Layer: Grey Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PSC-13-FT-1	10767302						
Layer: Tan Tile			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PSC-14-FT-1	10767303						
Layer: Grey Tile			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PSC-15-VJC-1	10767304						
Layer: Black Woven Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
PSC-16-TSI-1	10767305						
Layer: Off-White Semi-Fibrous Material		Amosite	15 %				
Layer: White Woven Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (12%)					
Cellulose (20 %)							
PSC-17-TSI-1	10767306						
Layer: Grey Semi-Fibrous Material		Amosite	2 %	Chrysotile	5 %		
Layer: White Woven Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (20 %) Fibrous Glass (30 %)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B113991

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PSC-09-TSI-2	10767307						
Layer: Grey Semi-Fibrous Material		Chrysotile	3 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)	Fibrous Glass (45 %)						
PSC-18-SU-1	10767308						
Layer: Grey Sheet Flooring			ND				
Layer: Fibrous Backing			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (5 %)	Synthetic (10 %)					
PSC-19-CT-1	10767309						
Layer: Grey Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %)	Fibrous Glass (45 %)						
PSC-09-TSI-3	10767310						
Layer: Grey Semi-Fibrous Material		Chrysotile	3 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)	Fibrous Glass (45 %)						
PSC-20-FM-1	10767311						
Layer: Blue Sheet Flooring			ND				
Layer: Tan Woven Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (60 %)							
PSC-21-FS-1	10767312						
Layer: Red Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (7 %)						
PSC-22-SU-1	10767313						
Layer: Grey Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (15 %)							
PSC-23-FP-1	10767314						
Layer: Off-White Semi-Fibrous Material		Chrysotile	15 %				
Total Composite Values of Fibrous Components:		Asbestos (15%)					
Cellulose (Trace)							
PSC-23-FP-2	10767315						
Comment: Sample not analyzed due to prior positive result in series.							
PSC-23-FP-3	10767316						
Comment: Sample not analyzed due to prior positive result in series.							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B113991

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
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James Flores, Laboratory Supervisor, Hayward Laboratory

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

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



Client: **PE21 FACS Portland**
Portland State University

Contact: **Noal Kraft** Phone: (503) 595-1001

Site: **PJ5587** Kate Vance
Peter W. Scott Center (PSC)

Client No.: **C6007** FACS Job#: **PJ5587**

Sampled by: **DKR** PM: **Noal Kraft** Date: **6-3-08**

Special Instructions: E-mail results to **NKraft@forensica.com** and **rtracy@forensica.com**

Turnaround Time: 1-Day 2-Day 3-Day 5-Day Other Due Date & Time:

Analysis: PLM Standard / Point Count / Flame AA (Pb) / Other: *Analyze bracketed sets to 1st positive*

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
PSC-01-FF-1	FT, 9x9, brown streaked (black)	C204			
02-CB-1	CB, 4", black (brown)	C204			
03-CT-1	CT, 12x12, holed + brown adhesive	203			
04-CM-	Carpet mastic, grey	203A			
05-DST-1	Duct seam tape, white	C204			
06-CT-1	CT, 2x4, 2x2 pattern	202D			
07-DWJG	DWJC	L202			
2		L103			
3		C168			
VOID					

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

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

Relinquished by: *[Signature]* Date & Time: **6-3-08**

Received by: *[Signature]* Date & Time: **6/17/08 10:00 AM**

Condition Acceptable Yes No



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-3-08				
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com						
Site: PJ5587 Kate Vance Peter W. Scott Center (PSC)	Turnaround Time:	1-Day	2-Day	3-Day <input checked="" type="checkbox"/>	5-Day	Other	Due Date & Time:
Client No.: C6007 FACS Job#: PJ5587	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
PSC-07-DWJG-5 6 7	DWJG NO ID				
08-CTX-1	Ceiling texture, acoustical	C212			
2	↓	C210			
3	↓	221			
09-TSE-1	Pipe fitting	221			
10-PL-1	Plaster, wall	221			
2	↓	C212			
3	↓	118			

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

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:

6/17/08 10:20 AM

Date & Time:

Condition Acceptable No



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-3-08				
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com						
Site: PJ5587 Kate Vance Peter W. Scott Center (PSC)	Turnaround Time:	1-Day	2-Day	3-Day <input checked="" type="checkbox"/>	5-Day	Other	Due Date & Time:
Client No.: C6007 FACS Job#: PJ5587	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
PSC-10-PL-4	Plaster	105			
↓ 5 ↓	↓ ↓	222			
11-CB-1	CB, 4" green (white)	C212			
12-FT-1	FT, 12x12, tan speckled (tan) + gray leveling compound	L101			
13-FT-1	FT, 12x12, gray speckled (tan) + gray leveling compound	L101			
14-FT-1	FT, 12x12, dark gray speckled (tan)	L103			
VSC 15-VSC-1	Scrub vibration cloth joint	111			
16-TSI-1	Pipe fitting insulation, yellow	111			
17-TSI-1	Pipe insulation, yellow	111			
↓ 09-TSI-2 ↓	Pipe fitting	111			

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

Friable Good /
Yes / No Fair / Poor

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

Relinquished by:

Date & Time:

6-16-08

Received by:

Date & Time:

6/17/08 11:30 AM

Condition Acceptable Yes No

 Yes No



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-3-08
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com		
Site: PJ5587 Kate Vance Peter W. Scott Center (PSC)	Turnaround Time:	1-Day	2-Day
Client No.: C6007 FACS Job#: PJ5587	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:	3-Day <input checked="" type="checkbox"/>	5-Day
		Due Date & Time:	

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
PSC-18-SU-1	Sheet Vinyl, Light Green Squares	Rm 143A			
19-CT-1	C.T. 2x4 @ Perimeter	Rm C-168			
09-TSE-3	Pipe fitting	C112			
20-FM-1	Firestopped FM, grey marmoleum	E270			
21-FS-1	Fire stop	209			
22-SU-1	SU, grey	124			
23-FP-1	Fireproofing, sprayed on	301			
↓ 2	↓	301			
↓ 3	↓	301			

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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: _____

Relinquished by:	Received by:
Date & Time: 6-16-08	Date & Time: 6/17/08 10:20 AM
Condition Acceptable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 (AHERA)

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
TSCA Title II / 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



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