



Design-Level Hazardous Building Materials Survey

6445 NE MLK Jr. Blvd.
Portland, OR

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Asbestos Survey Drawings	2.1
Sample Inventories	3.1
Laboratory Data	Not Numbered
AHERA Certificates	Not Numbered

February 2005
Project #: 19179.000

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ENGINEERING AND ENVIRONMENTAL

www.pbsenv.com

GENERAL INFORMATION

BUILDING DATA

6445 NE MLK Jr. Blvd.
Portland, OR

CLIENT DATA

Portland Development Commission
1900 SW 4th Avenue, #7000
Portland, OR 97201

SURVEY SCOPE

PBS Engineering and Environmental has performed a pre-demolition, design level survey of accessible building areas in accordance with OSHA in 29 CFR 1910.1001 and compiled a report with the following information:

- The type, location and approximate quantity of suspect asbestos-containing materials.
- Bulk sampling of selected suspect building materials.
- Lead paint sampling.
- Inspection summary
- Floor plan diagrams indicating material and sample locations.
- Laboratory analytical data of bulk material sampled.
- Suspect PCB light ballast inspection.

PBS endeavored to locate all the suspect asbestos-containing materials in the building; however, suspect asbestos-containing materials may be present concealed within wall, ceiling, or floor spaces. If suspect materials are uncovered during demolition activities that are not identified in this report, testing should be performed prior to impact.

PBS has conducted a physical inspection of the building, compiled this report consistent with the survey scope, and certifies that the information is correct and accurate within the standards of professional quality and contractual obligations.

Francis Stohosky

Project Manager

Accreditation #: MPR-04-0014A

Francis Stohosky 9/25/03
Signature Date

Rich Dufresne

Prime Inspector

Accreditation #: IR-04-0264A

Rich Dufresne 9/25/03
Signature Date



INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
7/31/2003	Rich Dufresne	Inspect and Sample

PBS Engineering and Environmental has investigated accessible areas inside of the building(s) to locate suspect asbestos-containing building materials (ACBM). Suspect materials may be present in concealed areas (e.g. behind walls and under carpet). The findings are listed below.

ASBESTOS MATERIALS

The following materials either tested positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials that had mixed results are considered positive. Materials not sampled may not contain asbestos and should be tested to verify asbestos content prior to impact through demolition, renovation, etc.

(+) Tested Positive, (M) Mixed Results, (P) Presumed Positive, (T) Previously Tested Positive.

Result	Material (type)	Location	Approx. Quantity
(+)	Built-up Roofing Boards	Roof	7,000 SF
(+)	Joint Compound	Offices	
(+)	Silver Roof Paint	Roof	7,000 SF
(+)	Vinyl Floor Tile (1)	Bath, Under Sheet Floor Covering	20 SF
(+)	Vinyl Floor Tile/Mastic (3)	Rear Paneled Office	220 SF
(+)	Vinyl Floor Tile/Mastic (2)	Throughout Offices, Under Carpet	1,150 SF

MATERIALS WHICH TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content. It may be prudent to test prior to impact through demolition, renovation, etc.

Material (type)	Location
Sheet Floor Covering	Bath, Gray Tile Pattern
Wall and Ceiling Plaster	Offices
Wall Texture Material	Offices and Garage

INSPECTION SUMMARY

BACKGROUND

On July 31, 2003 PBS Engineering and Environmental performed a Pre-Demolition Design Level Hazardous Building Materials survey at the property known as 6445 NE MLK Boulevard in Portland, Oregon. The purpose of the survey was to identify asbestos-containing materials, lead based paint, PCB containing light ballasts and other hazardous building materials in the building.

ASBESTOS SUMMARY

PBS endeavored to locate all accessible building components suspected to contain asbestos. Additional hidden or concealed suspect materials may be present in the building. If concealed suspect asbestos-containing materials are discovered during demolition or renovation activities, which are not identified in this report, testing should be performed prior to impact. Common examples of concealed suspect materials include, but are not limited to, multiple layers of flooring or insulation concealed within wall, ceiling, or floor spaces.

Asbestos bulk samples were collected by an AHERA accredited inspector and analyzed by a AIHA certified laboratory using Polarized Light Microscopy (PLM). The following is a discussion of the survey findings:

Asbestos-containing vinyl floor tile and mastic was identified throughout the office portion of the building. The floor tile is located under carpet in most areas and is under non-asbestos sheet floor covering in the restroom and entry.

The roofing materials tested positive for asbestos. The roofing consists of asbestos-containing silver roof paint, asbestos-containing asphaltic roofing boards, and asbestos-containing roof penetration sealant.

Joint compound applied to gypsum board throughout the office area interior walls tested positive for asbestos. The positive joint compound samples tested 2% for asbestos by visual estimate. The gypsum wallboard tested negative for asbestos. Under current regulations, the EPA, DEQ, and OSHA classify a material as asbestos-containing if analytical results indicate the material contains greater than 1% asbestos by weight. Additional point count analysis of the material may reveal that the composite wall system contain less than 1% asbestos, in which case the gypsum board systems would not be considered an asbestos-containing material. However, activities disturbing the material including demolition would still require that the work is completed by OSHA trained workers using appropriate engineering controls.

Please refer to the Bulk Sample Inventory and Site Plan for specific sample locations and asbestos content.

All asbestos-containing materials were observed in good condition. Sample locations have been tagged in the field with orange signage per PDC requirements.

INSPECTION SUMMARY

No abatement actions are recommended for temporary building occupancy. All asbestos-containing materials should be removed by a licensed abatement contractor prior to demolition of the structure.

Asbestos Regulatory Issues

In 1994 Oregon-OSHA adopted federal regulations governing asbestos (29 CFR Part 1926.1101). These regulations have made significant changes in work procedures and how asbestos materials are removed. OSHA believes that the single biggest problem is to workers who unknowingly or improperly disturb asbestos containing materials (ACM). Hazard communication, training, personal protection, work practices, exposure monitoring and record keeping are all major components of the regulation. Oregon Administrative Rules-340, Divisions 32 and 33 also cover asbestos abatement requirements, removal notifications, licensing and certifications for contractors.

Documents of reference for the removal of asbestos-containing materials:

1. Oregon Occupational Safety and Health Administration (OAR-437, 29 CFR 1926.1101 asbestos)
2. Oregon Department of Environmental Quality (OAR 340 Division 248)

LEAD-BASED PAINT

Four representative bulk samples of suspect paint applications were collected from selected interior and exterior building surfaces. The paint samples were submitted to a qualified laboratory for lead analysis by flame atomic absorption (FLAA). Lead analysis results indicated that detectable levels of lead were present in all of the bulk paint samples submitted.

Please refer to the lead sample inventory, laboratory analysis report, and Hazardous Materials Drawing for a description and location of representative components sampled and associated lead concentrations.

Other painted components not identified in this report should be presumed to contain lead. Approximately 11,200 square feet of presumed lead-containing paint is present. All of the positive paint sample locations were tagged in the field with yellow labels per PDC requirements; all positive materials were observed in good condition. No paint abatement is recommended for temporary building occupancy. No paint abatement is required or recommended prior to building demolition.

Lead-Based Paint Regulatory Issues

Oregon OSHA adopted the federal OSHA lead-in-construction standard (29 CFR 1926.62) in November of 1993 under OAR 437 Division 3-001. The OR-OSHA standards outline worker

INSPECTION SUMMARY

exposure limits, personal protection requirements, and employer responsibility for exposure assessment, training, housekeeping and recordkeeping. OSHA's lead standard applies to all work where employees may be exposed to lead in construction, alteration, or repair. This includes renovation or demolition of structures where lead-containing materials are present.

Disposal of building demolition waste coated with lead-based paint will generally not require a hazardous waste determinations (i.e., TCLP testing) if demolition debris is disposed of at a solid waste landfill that is permitted by DEQ and which meets the current design standards for municipal solid waste disposal facilities of 40 CFR Part 258.

Reference the DEQ's hazardous waste reduction policy and follow all requirements under the Oregon DEQ, Management of Building Demolition Waste, 97-002 for proper disposal of lead-based painted demolition waste.

PCB/MERCURY VAPOR TUBES

Fluorescent light fixtures are present throughout the building. The fixtures utilize mercury-containing fluorescent lamp tubes. Approximately 50 eight-foot, and 10 four-foot lamps were observed in the building. The lamps were observed intact.

The inspector dismantled three representative light fixtures to identify if the ballasts were PCB-containing. Two of the ballasts were labeled "No PCBs". During renovation or demolition, each fixture should be inspected to determine if the ballast is suspect for PCBs. Approximately 38 fixtures were identified that may utilize PCB containing ballasts. The ballasts were observed in good condition with no visible evidence of leakage.


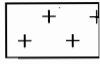


No suspect mercury-containing switches or thermostats were found.

No ballast or lamp abatement is recommended prior to temporary building occupancy. Lamps and ballasts may be disposed of in the general garbage pick-up for the building, on a maintenance basis (one or two ballasts per month, up to six lamps per month is suggested). Lamps and ballasts are to be disposed of as hazardous waste prior to building demolition. A program for recycling the lamps may be available through the Metro recycling program.



NOTES

1. THIS DRAWING IS DIAGRAMMATIC AND NOT PROPER SCALE. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS.
2. ACCESSIBLE SPACES WERE SURVEYED FOR SUSPECT HAZARDOUS MATERIALS. WHEN OBSERVED, THE MATERIALS WERE NOTED ON THE DRAWING.
3. JOINT COMPOUND ON INTERIOR GYPSUM WALLS TESTED POSITIVE FOR ASBESTOS.

LEGEND

-  ASBESTOS-CONTAINING VINYL FLOOR TILE AND MASTIC
-  ASBESTOS-CONTAINING ROOFING MATERIALS
- PARCEL BOUNDARY
-  CARPET EXISTS OVER VINYL FLOOR TILE
-  NON-ASBESTOS SHEET FLOOR COVERING EXISTS OVER VINYL FLOOR TILE



ASBESTOS SAMPLE SYMBOLS

-  DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
 -  MATERIAL SYMBOL
- | | | | |
|------------|----------|----------|------------------------|
| NOT TESTED | NEGATIVE | POSITIVE | |
| ○ | ⊖ | ⊕ | MECHANICAL INSULATION |
| □ | ⊞ | ■ | SURFACING MATERIAL |
| ◇ | ◇ | ◇ | MISCELLANEOUS MATERIAL |

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
001	19179.000-001	(-)	WALL TEXTURE
002	19179.000-002	(-)	WALL TEXTURE
003	19179.000-003	(-)	WALL AND CEILING PLASTER
004	19179.000-004	(-)	WALL TEXTURE
005	19179.000-005	(-/+)	GYPSUM WALLBOARD/JOINT COMPOUND
006	19179.000-006	(-)	SHEET FLOOR COVERING
007	19179.000-007	(+)	VINYL FLOOR TILE
008	19179.000-008	(+/-)	VINYL FLOOR TILE/ MASTIC
009	19179.000-009	(+/-)	VINYL FLOOR TILE/ MASTIC
010	19179.000-010	(+/-)	VINYL FLOOR TILE/ MASTIC
011	19179.000-011	(+/-)	GYPSUM WALLBOARD/JOINT COMPOUND
012	19179.000-012	(+)	PAINT
013	19179.000-013	(+)	ROOF PENETRATION SEALANT
014	19179.000-014	(+)	ROOFING

LEAD SAMPLE SYMBOLS

-  DRAWING REFERENCE TO LEAD SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
-  MATERIAL SYMBOL
- ▲ LEAD DETECTED.
- △ BELOW THE LIMIT OF DETECTION.

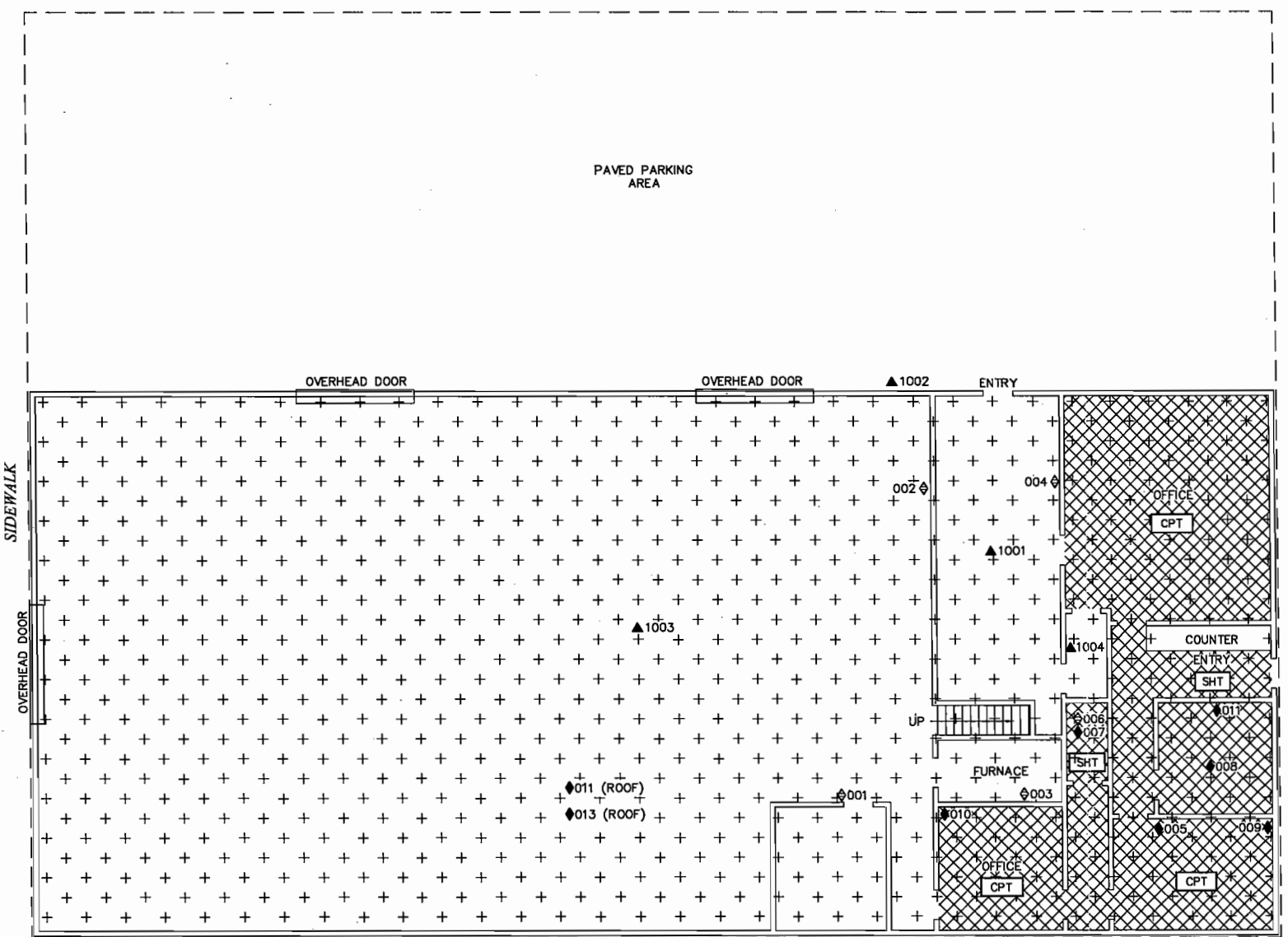
INVENTORY OF AA LEAD SAMPLES

SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
▲1001	19179.000-1001	47	PAINT ON OFFICE FLOOR, CONCRETE, GRAY, GOOD
▲1002	19179.000-1002	359	PAINT ON N. EXTERIOR WALL, EXTERIOR WALL, CONCRETE, WHITE, GOOD
▲1003	19179.000-1003	37	PAINT ON EXTERIOR TRIM, EXTERIOR TRIM, WOOD, LIGHT BROWN, GOOD
▲1004	19179.000-1004	4760	PAINT ON RESTROOM, INTERIOR TRIM, WOOD, WHITE, GOOD

NE PORTLAND BLVD.

SIDEWALK

PAVED PARKING AREA



ALLEY

SIDEWALK

SIDEWALK

NE MARTIN LUTHER KING JR. BLVD.



PBS

ENGINEERING AND ENVIRONMENTAL

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PORTLAND DEVELOPMENT COMMISSION
 HAZARDOUS MATERIALS SITE PLAN
 6445 NE MARTIN LUTHER KING JR BOULEVARD
 PORTLAND, OREGON

HAZARDOUS MATERIALS SURVEY

Project #: 19179.000
 Date: AUGUST 2003

FIGURE HM1

Code	Material	Location	Lab
19179.000-0001	Wall Texture	Paint room; Wall texture Analysis: No Asbestos Detected (White texturing material)	Jones Environ. Lab
19179.000-0002	Wall Texture	Garage; Wall texture Analysis: No Asbestos Detected (White texturing material)	Jones Environ. Lab
19179.000-0003	Wall and Ceiling Plaster	Furnace room; Wall plaster Analysis: No Asbestos Detected (White plaster)	Jones Environ. Lab
19179.000-0004	Wall Texture	Storage room; Wall texture Analysis: No Asbestos Detected (White texturing material)	Jones Environ. Lab
19179.000-0005	Gypsum Wallboard/Joint Compd.	Office Analysis: No Asbestos Detected (White gypsum) 2% Chrysotile (White-painted compound on brown paper)	Jones Environ. Lab
19179.000-0006	Sheet Floor Covering	Bath; Gray tile pattern Analysis: No Asbestos Detected (Gray sheet vinyl w/fibrous backing yellow mastic)	Jones Environ. Lab
19179.000-0007	Vinyl Floor Tile (1)	Bath; Lower layer Analysis: 2% Chrysotile (Gray tile particles w/yellow mastic)	Jones Environ. Lab

Code	Material	Location	Lab
19179.000-0008	Vinyl Floor Tile (2)	Under carpet throughout offices Analysis: <1% Chrysotile (Gray-brown tile) 5% Chrysotile (Black mastic)	Jones Environ. Lab
19179.000-0009	Vinyl Floor Tile (2)	Under carpet front office Analysis: <1% Chrysotile (Gray-brown tile) 4% Chrysotile (Black mastic)	Jones Environ. Lab
19179.000-0010	Vinyl Floor Tile (3)	Under carpet; Rear office Analysis: 2% Chrysotile (Tan tile) 6% Chrysotile (Black mastic)	Jones Environ. Lab
19179.000-0011	Gypsum Wallboard/Joint Compd.	Office Analysis: <1% Chrysotile (White-painted off-white compound) No Asbestos Detected (White paper)	Jones Environ. Lab
19179.000-0012	Paint	Silver roof paint w/tar Analysis: 10% Chrysotile (Silver painted black asphaltic material)	Jones Environ. Lab
19179.000-0013	Roof Penetration Sealant	Roof penetration sealant Analysis: 2% Chrysotile (Silver painted black asphaltic material)	Jones Environ. Lab
19179.000-0014	Roofing	Roofing boards w/foil and tar Analysis: 2% Chrysotile (Black asphaltic material)	Jones Environ. Lab

<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB19179.000-1001	Paint	47 ppm	Office; Floor, concrete, gray, good	Wy'East Environ.
LB19179.000-1002	Paint	359 ppm	N. exterior wall; Exterior wall, concrete, white, good	Wy'East Environ.
LB19179.000-1003	Paint	37 ppm	Exterior trim; Exterior trim, wood, light brown, good	Wy'East Environ.
LB19179.000-1004	Paint	4760 ppm	Restroom; Interior trim, wood, white, good	Wy'East Environ.

Code	Material	Location	Lab
19179.000-0001	Wall Texture	Paint room; Wall texture Analysis: No Asbestos Detected (White texturing material)	Jones Environ. Lab
19179.000-0002	Wall Texture	Garage; Wall texture Analysis: No Asbestos Detected (White texturing material)	Jones Environ. Lab
19179.000-0003	Wall and Ceiling Plaster	Furnace room; Wall plaster Analysis: No Asbestos Detected (White plaster)	Jones Environ. Lab
19179.000-0004	Wall Texture	Storage room; Wall texture Analysis: No Asbestos Detected (White texturing material)	Jones Environ. Lab
19179.000-0005	Gypsum Wallboard/Joint Compd.	Office Analysis: No Asbestos Detected (White gypsum) 2% Chrysotile (White-painted compound on brown paper)	Jones Environ. Lab
19179.000-0006	Sheet Floor Covering	Bath; Gray tile pattern Analysis: No Asbestos Detected (Gray sheet vinyl w/fibrous backing yellow mastic)	Jones Environ. Lab
19179.000-0007	Vinyl Floor Tile (1)	Bath; Lower layer Analysis: 2% Chrysotile (Gray tile particles w/yellow mastic)	Jones Environ. Lab

Code	Material	Location	Lab
19179.000-0008	Vinyl Floor Tile (2)	Under carpet throughout offices Analysis: <1% Chrysotile (Gray-brown tile) 5% Chrysotile (Black mastic)	Jones Environ. Lab
19179.000-0009	Vinyl Floor Tile (2)	Under carpet front office Analysis: <1% Chrysotile (Gray-brown tile) 4% Chrysotile (Black mastic)	Jones Environ. Lab
19179.000-0010	Vinyl Floor Tile (3)	Under carpet; Rear office Analysis: 2% Chrysotile (Tan tile) 6% Chrysotile (Black mastic)	Jones Environ. Lab
19179.000-0011	Gypsum Wallboard/Joint Compd.	Office Analysis: <1% Chrysotile (White-painted off-white compound) No Asbestos Detected (White paper)	Jones Environ. Lab
19179.000-0012	Paint	Silver roof paint w/tar Analysis: 10% Chrysotile (Silver painted black asphaltic material)	Jones Environ. Lab
19179.000-0013	Roof Penetration Sealant	Roof penetration sealant Analysis: 2% Chrysotile (Silver painted black asphaltic material)	Jones Environ. Lab
19179.000-0014	Roofing	Roofing boards w/foil and tar Analysis: 2% Chrysotile (Black asphaltic material)	Jones Environ. Lab

<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB19179.000-1001	Paint	47 ppm	Office; Floor, concrete, gray, good	Wy'East Environ.
LB19179.000-1002	Paint	359 ppm	N. exterior wall; Exterior wall, concrete, white, good	Wy'East Environ.
LB19179.000-1003	Paint	37 ppm	Exterior trim; Exterior trim, wood, light brown, good	Wy'East Environ.
LB19179.000-1004	Paint	4760 ppm	Restroom; Interior trim, wood, white, good	Wy'East Environ.

Jones Environmental Laboratory, Inc.
 3325 SE Harrison St., Milwaukie, OR 97222
 Ph 503-659-8338 Fax 503-659-7577

Report Date: 8/4/2003
 Client No.: 02002
 Invoice Reference: AB032183

ASBESTOS ANALYSIS REPORT

Bulk Asbestos Samples Analyzed per 40 CFR 763 Subpart F Appendix A PLM
 EPA Method 600 M4-82-020 (600 R-93-116)

Client Name & Address: PBS Environmental, Inc., 4412 SW Corbett
 Portland, Oregon 97201

Client Project Information: Project # 19179.000 Task # 0000

Sample: 19179.000 0001 (JELab ID# AB-03- 2183)

Layers (totaling 100%) 100%
 Color/Texture? White Texturing Material

Asbestos Detected? ND

Primary Non-Fibrous Matrix : CaCO3, misc

Primary Other Fibers : < 1 % Cellulose

Comments :

Sample: 19179.000 0002 (JELab ID# AB-03- 2184)

Layers (totaling 100%) 100%
 Color/Texture? White Texturing Material

Asbestos Detected? ND

Primary Non-Fibrous Matrix : CaCO3, misc

Primary Other Fibers : 2% Fiberglass

Comments : Subsamples treated w/HCl.

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 3325 SE Harrison St., Milwaukie, OR 97222
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Report Date: 8/4/2003
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 Invoice Reference: AB032183

Sample: 19179.000 0003 (JELab ID# AB-03- 2185)

Layers (totaling 100%) 100%
 Color/Texture? White Plaster

Asbestos Detected? ND

Primary Non-Fibrous Matrix : Sulfates, CaCO3, misc

Primary Other Fibers : < 1 % Cellulose

Comments : Subsamples treated w/HCl.

Sample: 19179.000 0004 (JELab ID# AB-03- 2186)

Layers (totaling 100%) 100%
 Color/Texture? White Texturing Material

Asbestos Detected? ND

Primary Non-Fibrous Matrix : CaCO3, misc

Primary Other Fibers : < 1 % Cellulose

Comments : Subsamples treated w/HCl.

Sample: 19179.000 0005 (JELab ID# AB-03- 2187)

Layers (totaling 100%)	80%	20%
Color/Texture?	White Gypsum	White-Painted Compound on Brown Paper

Asbestos Detected? ND Yes: 2% Chrysotile

Primary Non-Fibrous Matrix : Sulfates, misc Paint, CaCO3, misc

Primary Other Fibers : 3% Fibrous Glass 38% Cellulose
 < 1 % Cellulose

Comments :

Jones Environmental Laboratory, Inc.
 3325 SE Harrison St., Milwaukie, OR 97222
 Ph 503-659-8338 Fax 503-659-7577

Report Date: 8/4/2003
 Client No.: 02002
 Invoice Reference: AB032183

Sample: 19179.000 0006 (JELab ID# AB-03- 2188)

Layers (totaling 100%) 100%
 Color/Texture? Gray Sheet Vinyl w/ Fibrous Backing
 Yellow Mastic

Asbestos Detected? ND

Primary Non-Fibrous Matrix : CaCO3, vinyl, mastic, misc

Primary Other Fibers : 16% Cellulose
 5% Synthetic
 4% Fibrous Glass

Comments :

Sample: 19179.000 0007 (JELab ID# AB-03- 2189)

Layers (totaling 100%) 100%
 Color/Texture? Gray Tile Particles w/
 Yellow Mastic

Asbestos Detected? Yes: 2% Chrysotile

Primary Non-Fibrous Matrix : Vinyl, CaCO3, mastic

Primary Other Fibers : ND

Comments :

Sample: 19179.000 0008 (JELab ID# AB-03- 2190)

Layers (totaling 100%) 95% 5%
 Color/Texture? Gray-Brown Black Mastic
 Tile

Asbestos Detected? Yes: < 1 % Chrysotile Yes: 5% Chrysotile

Primary Non-Fibrous Matrix : Vinyl, CaCO3 Mastic matrix

Primary Other Fibers : ND ND

Comments :

Aug 08 03 12:46p

Jones Environmental Laboratory, Inc.
 3325 SE Harrison St., Milwaukie, OR 97222
 Ph 503-659-8338 Fax 503-659-7577

Report Date: 8/4/2003
 Client No.: 02002
 Invoice Reference: AB032183

Sample: 19179.000 0009 (JELab ID# AB-03- 2191)

Layers (totaling 100%) 95% 5%
 Color/Texture? Gray-Brown Black Mastic
 Tile

Asbestos Detected? Yes: < 1 % Chrysotile Yes: 4% Chrysotile

Primary Non-Fibrous Matrix : Vinyl, CaCO3 Mastic matrix

Primary Other Fibers : ND ND

Comments :

Sample: 19179.000 0010 (JELab ID# AB-03- 2192)

Layers (totaling 100%) 95% 5%
 Color/Texture? Tan Black
 Tile Mastic

Asbestos Detected? Yes: 2 % Chrysotile Yes: 6% Chrysotile

Primary Non-Fibrous Matrix : Vinyl, CaCO3 Mastic matrix

Primary Other Fibers : ND ND

Comments :

Sample: 19179.000 0011 (JELab ID# AB-03- 2193)

Layers (totaling 100%) 90% 10%
 Color/Texture? White-Painted White Paper
 Off-White
 Compound

Asbestos Detected? Yes: < 1 % Chrysotile ND

Primary Non-Fibrous Matrix : CaCO3, paint, misc Misc

Primary Other Fibers : ND 68% Cellulose

Comments :

Aug 08 03 12:46p

Jones Environmental Laboratory, Inc.
 3325 SE Harrison-St., Milwaukie, OR 97222
 Ph 503-659-8338 Fax 503-659-7577

Report Date: 8/4/2003
 Client No.: 02002
 Invoice Reference: AB032183

Sample: 19179.000 0012 (JELab ID# AB-03- 2194)

Layers (totaling 100%) 100%
 Color/Texture? Silver-Painted
 Black Asphaltic Material

Asbestos Detected? Yes: 10% Chrysotile

Primary Non-Fibrous Matrix : Asphaltic matrix, paint

Primary Other Fibers : ND

Comments :

Sample: 19179.000 0013 (JELab ID# AB-03- 2195)

Layers (totaling 100%) 100%
 Color/Texture? Silver-Painted
 Black Asphaltic Material

Asbestos Detected? Yes: 2% Chrysotile

Primary Non-Fibrous Matrix : Asphaltic matrix, paint

Primary Other Fibers : ND

Comments :

Sample: 19179.000 0014 (JELab ID# AB-03- 2196)

Layers (totaling 100%) 100%
 Color/Texture? Black Asphaltic Material

Asbestos Detected? Yes: 2% Chrysotile


Primary Non-Fibrous Matrix : Asphaltic matrix

Primary Other Fibers : 6% Fibrous Glass
 < 1 % Cellulose

Comments : Foil not analyzed.

Jones Environmental Laboratory, Inc.
3325 SE Harrison St., Milwaukie, OR 97222
Ph 503-659-8338 Fax 503-659-7577

Report Date: 8/4/2003
Client No.: 02002
Invoice Reference: AB032183

Signature:  Date: 8/5/2003
Approved Signatory and Analyst Elizabeth Jones

This laboratory successfully participates in the American Industrial Hygiene Association Bulk Asbestos Analytical Testing Program.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "ND" is not detected.
Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
Small diameter fibers such as those found in vinyl floor tiles, may not be detected by PLM.
Asbestos detection interferences may result from material binders.
Qualitative and quantitative TEM analysis may be recommended for difficult samples.
Quantitative analysis by PLM point count or TEM is recommended for samples testing at < or = to 1% asbestos.
This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Wy'East

Wy'East Environmental Sciences, Inc.

LABORATORY REPORT

PBS Environmental
Attn: Rich Dufresne
4412 SW Corbett
Portland, OR 97239

PROJECT NAME/SITE: 19179.000 **REPORT NUMBER:** 47519
PROJECT NUMBER: 6445 NE MLK Blvd. **REPORT DATE:** 8-4-03
EXTRACTION DATE: 8-4-03 **PAGE:** 1 of 1

AOAC 974.02

Analyte: Total Lead (Pb) in paint chips quantification by FLAA

Field ID	Lab ID	Quantification mg/Kg (ppm)	Detection Limit mg/Kg (ppm)
-1001	K8756	47	17
-1002	K8757	359	17
-1003	K8758	37	17
-1004	K8759	4,760	17
BLANK	-	ND	17

ND = Not Detected (below reporting limit or detection limit)

THIS IS TO CERTIFY THAT

RICH A. DUFRESNE

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE
for
ASBESTOS INSPECTOR REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 04/14/2005

Course Location: Portland, OR

Certificate: IR-05-0264A

Expiration Date: 04/14/2006

ASBESTOS INSPECTOR REFRESHER is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)



For verification of the authenticity of this certificate contact: PBS Environmental
4412 SW Corbett Avenue, Portland, OR 97239
(503) 248-1939

David Stover, Director of Training