

Limited Hazardous Building Materials Survey Report

Concord Elementary School
3811 SE Concord Road
Milwaukie, OR 97267

Prepared for:

North Clackamas Parks & Rec District

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Sample Inventories	3.1
Laboratory Data	Not Numbered
AHERA Certificates	Not Numbered



July 2017

Project No.: 21078.051 Phase No.: 0001

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GENERAL INFORMATION

BUILDING DATA

Concord Elementary School
3811 SE Concord Road
Milwaukie, OR 97267

CLIENT DATA

North Clackamas Parks & Rec District
150 Beaver Creek Road, Suite 414
Oregon City, OR 97045

SURVEY SCOPE

PBS Engineering and Environmental Inc. (PBS) has performed a limited hazardous building material survey of accessible school building areas in accordance with OSHA in 29 CFR 1910.1001 and compiled a report with the following information:

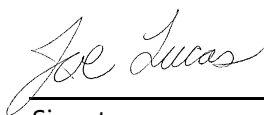
- Inspection summary
- The type, location, and approximate quantity of suspect asbestos-containing materials
- Bulk sampling of selected suspect building materials
- Lead paint sampling
- Floor plan diagrams indicating material and sample locations
- Laboratory analytical data of bulk material sampled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

With regard to asbestos, PBS endeavored to locate all the suspect asbestos-containing materials in the school; however, suspect asbestos-containing materials may be present and 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.

Joe Lucas
Project Manager
Accreditation #: IR-17-3527B

James Mastanduno
Prime Inspector
Accreditation #: IR-17-4993B



07.21.2017

Signature

Date



07.21.2017

Signature

Date

INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
6/5/2017	James Mastanduno	Building Survey
7/18/2017	Joe Lucas	Report Preparation

PBS has investigated accessible areas inside of the school 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
(+)	Air cell pipe insulation and mudded fittings	North wing domestic water pipes, art studio south classroom and old locker room	1,600 LF
(+)	Brown paper pipe wrap insulation	North wing pipe stubs above ceilings	30 LF
(+)	White mag pipe insulation	North wing pipe stubs above ceilings, office north of cafeteria above ceiling, attic	730 LF
(+)	9" vinyl floor tile and/or residual black mastic on concrete	Art studio north storerooms under carpet and newer tile, lower hallway lobby near elevator, sprinkler room, electrical room near vault, upper level main hall restrooms (on wood)	12,163 SF
(+)	Brown floor tile with black mastic on concrete	Room 17, hallway outside room 17, under carpet and newer tile	415 SF
(+)	Brown jute-back sheet vinyl flooring	Library storage area	264 SF
(+)	Red, gray, green, brown floor tile and non-asbestos black felt/mastic	North wing upper level hall, rooms 20-26, library, computer lab, office, rooms 28-29, staff workroom and classroom. Under new flooring and OSB underlayment in places, adhered to wood	13,860 SF
(+)	Gray and black sink undercoating	Throughout	12 EA

INSPECTION SUMMARY

(M)	Residual black mastic under non-asbestos covebase and yellow mastic	North wing	1,958 LF
(P)	Fire door	Boiler room	1 EA
(M)	Joint compound associated with gypsum wallboard	Wallboard walls and ceilings throughout (less than 1% asbestos)	NOT QUANTIFIED
(+)	White window glazing compound	Exterior windows at hallway entrances, main hall restrooms (less than 1% asbestos)	657 LF

INSPECTION SUMMARY

MATERIALS THAT 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.

<u>Material (type)</u>	<u>Location</u>
12" tan mottled floor tile and yellow mastic	Art studio
12" white fissured ceiling tiles and yellow glue dots	Ceiling areas
12" white vinyl floor tile with cream mastic	Office break room
1'x1' white ceramic tile	Bathroom areas
1'x1' white random hole pattern ceiling tiles	Ceiling areas
2'x2' white hole pattern ceiling tiles	Ceiling areas
2'x4' white stapled ceiling tile	Counseling office
4" beige covebase with yellow mastic	Flooring areas
6" black covebase with yellow and brown mastic	Flooring areas
6" brown brittle covebase and mastic	Main level hall men's restroom
6" tan covebase with cream mastic	Flooring areas
Black sink coating	Metal sinks
Brown felt cloth above ceiling	Sprinkler room
Cream mastic behind corkboard	Cafeteria, hallways
Gray duct sealant	HVAC ductwork
Gray felt under plywood flooring layers	Main wing flooring
Gray leveling compound	Lobby flooring
Gray pebble pattern sheet flooring	North wing classrooms
Gray rubbery window caulk	Exterior window frames
Gray stairwell sheet flooring	Stairwells
Gray vibration cloth	HVAC components
Red brick and mortar	Exterior walls
Ruberry black carpet mastic	Carpeted areas
Stage curtains	Stage
Tan ceramic tile and grout	Art studio former locker rooms
Tar paper under wood flooring	Gym and stage

INSPECTION SUMMARY

Wall and ceiling plaster	Ceiling areas
White door frame caulk	Exterior metal door frames
White fiberglass end sealant	Fiberglass piping
Yellow carpet mastic	Carpeted areas
Black backing under classroom backsplashes	Classrooms *2010 result
Boiler jacket and insulation	Boiler room *2010 result
Corkboard and tackboard mastic	Main floor office *2010 result
Gypsum and plaster ceiling	Boiler Room *2010 result
Nailed-on ceiling tile	Cafeteria *2010 result
Small aggregate pattern sheet flooring	Main floor north custodial closet *2010 result
Yellow mastic behind wainscot	Entryway and hallways *2010 result

INSPECTION SUMMARY

BACKGROUND

In June 2017, PBS performed a limited hazardous building materials survey of Concord Elementary School, located at 3811 SE Concord Road in Milwaukie, Oregon. The survey was requested by North Clackamas Parks and Recreation District in anticipation of building acquisition.

PBS performed previous inspection work at the facility in September 2010. Select information from historic sampling has been integrated into this report. Note that many of the materials sampled during the 2010 inspection are no longer present in the facility following previous asbestos abatement projects.

The survey was limited to accessible areas of the building and is not guaranteed to identify all hazardous building materials. Unidentified and inaccessible asbestos-containing materials may be present within wall, floor, or ceiling spaces or concealed under surface finishes.

The survey is intended to satisfy Occupational Safety and Health Administration (OSHA) hazard communication requirements as well as requirements by the Department of Environmental Quality (DEQ) to perform an asbestos inspection prior to renovation or demolition activities under Oregon Administrative Rule (OAR) 340-248-0270.

ASBESTOS SUMMARY

A PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector inspected the buildings to determine the presence, location, and approximate quantity of asbestos containing materials (ACM). Fifty-nine bulk samples of building materials, suspected of containing asbestos, were collected and submitted under chain of custody to LabCor Inc. of Portland, Oregon for polarized light microscopy (PLM) analysis. The following materials were found to contain asbestos:

- Air-cell pipe insulation and associated fittings on domestic water lines in the south art classroom studio, old locker room, and throughout the north wing.
- Magnesia (mag) pipe insulation and associated fittings above ceilings in the North Wing, in the office north of the cafeteria, and in the attic. Pipe insulation above ceilings is limited to approximately 2-ft. between the ceiling and the above floor deck.
- Felt paper wrap insulation above ceilings in the north wing.
- Brown jute-back sheet flooring in the library storage area. Flooring is concealed under newer carpeting.
- 9-in. vinyl floor tile and associated residual black mastic in the art studio north storerooms, lower hallway lobby near elevator, sprinkler room, and the electrical room near vault. Tile and/or mastic is concealed under newer flooring materials and adhered to concrete.
- 9-in. vinyl floor tile and associated black mastic in the upper level main hall restrooms. Tile and mastic is adhered to wood.
- Brown vinyl floor tile and associated black mastic in room 17 and the associated hallway outside room 17. Tile and mastic is concealed under newer flooring materials and adhered to concrete.
- Various colors of vinyl floor tile and non-asbestos black mastic and felt in the north wing upper level hall, rooms 20 through 26 and 28 through 29, library, computer lab, office, , and staff workroom and classroom. Tile is present under new flooring and oriented strand board (OSB) underlayment in places, and adhered to wood.
- Residual black mastic under new covebase applications in the north wing.

INSPECTION SUMMARY

- Black undercoating beneath metal counter in the kitchen.
- Gray and black undercoating on metal sinks in the main wing.
- Insulation within the door to the boiler room.
- White window glazing on exterior windows at entrances to the hallway, and with the main hall restrooms. This material has been identified as containing less than one percent asbestos.
- Joint compound associated with non-asbestos gypsum wallboard walls in select locations throughout the building. This material has been identified as containing less than one percent asbestos when composited with the associated gypsum wallboard.

Please refer to the asbestos Bulk Sample Inventory for more sample details.

Asbestos Regulations

Oregon DEQ, Environmental Protection Agency (EPA), and OSHA regulations require proper removal and handling of ACM by licensed and trained asbestos abatement contractors prior to building renovations or demolition.

The EPA, DEQ, and OSHA all define ACM as any material containing more than one percent asbestos. Although materials equal to or less than one percent are not considered by regulatory agencies to be an ACM, they still have some asbestos content, and Oregon OSHA has specific requirements for situations in which workers may encounter, disturb, or remove materials containing any level of asbestos. For the sake of hazard communication, these materials are included in the asbestos-containing materials section of this report.

In 1995, Oregon OSHA adopted 29 Code of Federal Regulations (CFR) Part 1926.1101 governing asbestos under OAR 437-003-1926.1101. The regulation has made significant changes in work procedures and how asbestos materials are managed. OSHA believes that the single biggest risk of asbestos exposure is to workers who unknowingly or improperly disturb ACM. Hazard communication, training, personal protection, work practices, exposure monitoring, and recordkeeping are all major components of the regulation.

DEQ's OAR 340, Division 248 also covers asbestos abatement requirements, removal notifications, licensing, and certifications for contractors.

For more information regarding the removal of asbestos-containing materials, please refer to the following:

1. Oregon Occupational Safety and Health Administration, OAR 437-003-1926.1101
2. Department of Environmental Quality, OAR-340, Division 248

INSPECTION SUMMARY

LEAD-BASED PAINT

Paint was sampled for lead content for the sake of hazard communication.

Seven paint chip samples were collected from representative building components from Concord Elementary School and submitted under chain of custody to RJ Lee Group of Monroeville, Pennsylvania, for analysis of lead content via flame atomic absorption (FLAA). The concentration of lead in the samples range from less than 99 parts per million (ppm) to 200,000 ppm.

See the Lead Sample Inventory section for representative building components and corresponding results.

Paint testing for this survey was limited in scope. The report information and testing results are not to be construed as an exhaustive investigation of lead-containing paint on all building surfaces. All paint on painted surfaces not identified in this report should be presumed to contain lead.

PBS identified approximately 25 lead vent pipe covers on the various roofs. All lead vent pipe covers should be carefully handled, packaged, and recycled or disposed of in the appropriate manner.

Lead-Containing Paint Regulations

The Consumer Product Safety Commission limit for lead in consumer paint products is 0.009 percent or 90 ppm or greater. The Department of Housing and Urban Development (HUD) and the EPA define lead-based paint as that which contains 0.5 percent or 5,000 ppm. Under OSHA, any lead concentration in paint that may become airborne during construction operations triggers requirements in the OSHA Lead in Construction Standard 29 CFR 1926.62 to protect employees impacting the paint.

In 1993, Oregon OSHA adopted the federal OSHA Lead Standard for the Construction Industry Title 29 CFR 1926.62 under Oregon Administrative Rule 437 Division 3 1926.62. This standard outlines worker 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 activities. This includes demolition or renovation of structures where lead-containing materials are present.

Disposal

According to Oregon DEQ's *Hazardous Waste/Toxics Reduction Policy Clarification*, disposal of building demolition waste coated with lead-based paint generally will not require a hazardous waste determination (i.e., toxicity characteristic leaching procedures [TCLP] testing) if demolition debris is disposed of at a DEQ-permitted solid waste landfill that meets the current design standards for municipal solid waste disposal facilities of 40 CFR Part 258.

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

INSPECTION SUMMARY

PCB/MERCURY VAPOR TUBES

Florescent light fixtures that utilize mercury-containing lamps and suspect PCB-containing light ballasts are present throughout the school.

Approximately 1,326 four-foot mercury-filled lamps and 140 suspect PCB-containing light ballasts were identified in the facility.

Not all ballasts were examined during the survey. Not all of the ballasts observed were found to be labeled "no PCB", and thus all ballasts should be assumed to contain PCBs prior to examination and disposal.

Mercury-containing Compact Fluorescent Light Tubes

All mercury-containing compact fluorescent light bulbs should be carefully handled, packaged, and recycled or disposed of in the appropriate manner.

Please refer to the following documents for requirements for removal and disposal of mercury-containing compact fluorescent light tubes:

1. US Environmental Protection Agency Toxic Substance Control Act, TSCA, (Code of Federal Regulations Title 40, Part 761).
2. US Department of Labor, Occupational Safety and Health Administration (OSHA).
3. RCRA, Resource Conservation and Recovery Act, 40 CFR Part 2761, Subpart D., 40 CFR 273.

PCB-containing Ballasts Light Ballasts

All PCB-containing light ballasts should be carefully handled, packaged, and recycled or disposed of in the appropriate manner.

In addition to the documents referenced above, please refer to the EPA Office of Toxic Substances Guidance Document, Summary of PCB Regulations, Document Number 910-S-94-002 for requirements for removal and disposal of PCB-containing light ballasts.

This report is not suitable as a bid document or an asbestos abatement design. The purpose of this report is risk hazard communication only.



North Clackamas Parks & Recreation District

Concord Elementary School

PBS Engineering and Environmental Inc.

Hazardous Materials Abatement

Probable Cost Estimate

Project No. 21078.051, Phase 0001

Prepared by: Joe Lucas

Date Prepared: July 17, 2017

Item	Unit	Quantity	Unit Price (USD)	Amount (USD)
A. Mobilization, Permits & Fees	EA	1	2,750.00	2,750.00
B. Asbestos-Containing Material Abatement				
Pipe Insulation and Hard Fittings	LF	2,360	20.00	47,200.00
Vinyl Floor Tile/Mastic (on wood)	SF	415	5.00	2,075.00
Vinyl Floor Tile/Mastic (on concrete)	SF	13,860	3.50	48,510.00
Vinyl Floor Tile (on wood)	SF	12,163	5.00	60,815.00
Vinyl Jute Back Sheet Flooring (on wood)	SF	264	5.00	1,320.00
Sinks & Countertops with Asbestos Undercoating	EA	13	50.00	650.00
Residual Black Covebase Mastic	LF	1,958	3.00	5,874.00
Fire Door	EA	1	150.00	150.00
Window Putty (<1%) - Training	EA	1	2,000.00	2,000.00
Joint Compound on Gypsum Walls (<1%) - Training	EA	1	2,000.00	2,000.00
C. Lead-Related Activities				
Contractor Lead Compliance - Training	EA	1	2,000.00	2,000.00
Lead-wrapped Roof Vent Pipes	EA	25	12.00	300.00
D. PCB-Containing Light Ballasts				
Light Ballast Removal	EA	140	15.00	2,100.00
E. Mercury-Containing Lamps				
Lamp Removal and Recycling	EA	1,326	1.50	1,989.00
Subtotal Estimated Project Costs				\$179,733.00
Contingency - 10%				\$17,973.30
Design/Consulting/Air Monitoring Fees				\$0.00
TOTAL PROBABLE COSTS				\$197,706.30

Cost Estimate Assumptions:

1) Cost estimate does not include abatement design, monitoring, clearance air sampling or closeout

GENERAL NOTES

- THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS.
- ACCESSIBLE SPACES WERE SURVEYED FOR SUSPECT HAZARDOUS MATERIALS. WHEN OBSERVED, THE MATERIALS WERE NOTED ON THE DRAWING.

SURVEY KEY NOTE

- ① ASBESTOS-CONTAINING AIR-CELL PIPE INSULATION AND HARD FITTINGS WERE IDENTIFIED IN INTERSTITIAL WALL CAVITIES ASSOCIATED WITH DOMESTIC WATER PLUMBING IN THE NORTHEAST ADDITION WING OF THE BUILDING.

LEGEND

- ASBESTOS-CONTAINING VINYL FLOOR TILE AND MASTIC UNDER CARPET (ON CONCRETE)
- ASBESTOS-CONTAINING VINYL FLOOR TILE AND MASTIC UNDER NON-ASBESTOS VINYL SHEET FLOORING (ON CONCRETE)
- ASBESTOS-CONTAINING VINYL FLOOR TILE AND MASTIC UNDER NON-ASBESTOS 12" VINYL FLOOR TILE AND MASTIC (ON CONCRETE)
- ASBESTOS-CONTAINING VINYL FLOOR TILE AND MASTIC (ON CONCRETE)
- ASBESTOS-CONTAINING UNDERCOATING ON STAINLESS STEEL COUNTERTOP
- ASBESTOS-CONTAINING UNDERCOATING ON STAINLESS STEEL SINK
- ASBESTOS-CONTAINING HORIZONTAL PIPE RUN
- ASBESTOS-CONTAINING VERTICAL PIPE RUN
- ASBESTOS-CONTAINING RESIDUAL BLACK COVEBASE MASTIC
- SUSPECT ASBESTOS-CONTAINING FIRE DOOR
- ASBESTOS-CONTAINING WINDOW GLAZING COMPOUND

ASBESTOS SAMPLE SYMBOLS

- ① DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
 ◆ MATERIAL SYMBOL

NOT TESTED	NEGATIVE	POSITIVE	
○	⊖	⊕	THERMAL SYSTEM INSULATION
□	⊖	⊕	SURFACING MATERIAL
◇	⊖	⊕	MISCELLANEOUS MATERIAL

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
①001	21078.051-0001	(-)	CARPET MASTIC
①002	21078.051-0002	(-)	SINK UNDERCOATING
◆003	21078.051-0003	(+/-<1%)	BROWN PIPE WRAP
①004	21078.051-0004	(-)	CARPET MASTIC (2)
●005	21078.051-0005	(+)	PIPE INSULATION
①006	21078.051-0006	(-/-)	GLUED-ON CEILING TILE
①007	21078.051-0007	(-)	WALL AND CEILING PLASTER
①008	21078.051-0008	(-/-)	COVEBASE/MASTIC
①009	21078.051-0009	(-/-)	SHEET FLOOR COVERING
●010	21078.051-0010	(+)	AIR CELL PIPE INSULATION
①011	21078.051-0011	(-)	CEILING TILES
◆012	21078.051-0012	(-/+/-)	VINYL FLOOR TILE/MASTIC
①013	21078.051-0013	(-)	CEILING TILE
●014	21078.051-0014	(+)	SINK UNDERCOATING (02)
①015	21078.051-0015	(-/-)	CERAMIC TILE/GROUT
◆016	21078.051-0016	(-/+<1%)	COVEBASE/MASTIC (2)/ JOINT COMPOUND
①017	21078.051-0017	(-/-)	FIBERGLASS SEALANT
①018	21078.051-0018	(-/-)	GYPSUM WALLBOARD/ JOINT COMPOUND
①019	21078.051-0019	(-/-)	SHEET FLOOR COVERING (2)
①020	21078.051-0020	(-/-)	VINYL FLOOR TILE/MASTIC
①021	21078.051-0021	(-)	CARPET MASTIC
①022	21078.051-0022	(-)	DOOR FRAME CAULK
①023	21078.051-0023	(-/-)	CERAMIC TILE/GROUT
◆024	21078.051-0024	(+/-)	VINYL FLOOR TILE/MASTIC (3)
①025	21078.051-0025	(-/-)	WALL CORKBOARD MASTIC (3)
①026	21078.051-0026	(-/-)	CEILING TILE (3)
①027	21078.051-0027	(-)	DUCT SEALANT
①028	21078.051-0028	(-)	CLOTH
①029	21078.051-0029	(-/-)	GYPSUM WALLBOARD/ JOINT COMPOUND
①051	21078.051-0051	(-/-)	COVEBASE/MASTIC (4)
①052	21078.051-0052	(-/-)	WINDOW FRAME CAULK (2)
①053	21078.051-0053	(<1%)	WINDOW FRAME CAULK (3)
①054	21078.051-0054	(-)	WINDOW GLAZING COMPOUND
①054	21078.051-0054	(-)	BRICK

LEAD SAMPLE SYMBOLS

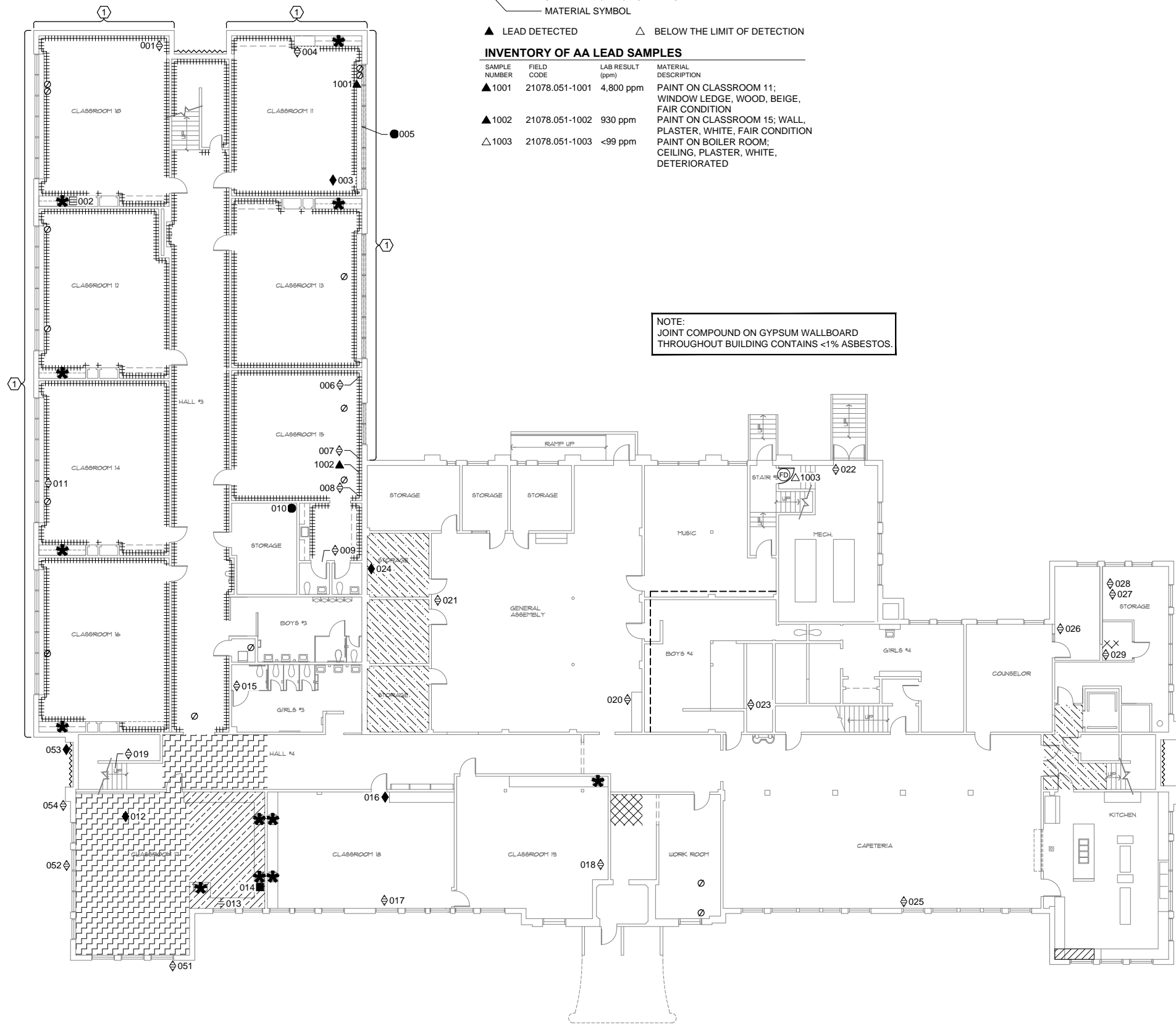
- ①007 DRAWING REFERENCE TO LEAD SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
 ◆ MATERIAL SYMBOL

- ▲ LEAD DETECTED △ BELOW THE LIMIT OF DETECTION

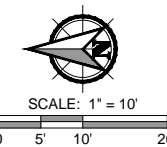
INVENTORY OF AA LEAD SAMPLES

SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
▲1001	21078.051-1001	4,800 ppm	PAINT ON CLASSROOM 11; WINDOW LEDGE, WOOD, BEIGE, FAIR CONDITION
▲1002	21078.051-1002	930 ppm	PAINT ON CLASSROOM 15; WALL, PLASTER, WHITE, FAIR CONDITION
△1003	21078.051-1003	<99 ppm	PAINT ON BOILER ROOM; CEILING, PLASTER, WHITE, DETERIORATED

NOTE: JOINT COMPOUND ON GYPSUM WALLBOARD THROUGHOUT BUILDING CONTAINS <1% ASBESTOS.



FIRST FLOOR PLAN



File name: L:\Projects\21078\21078-051-001\21078-051-001.dwg User: Jim Blanco CAD Plot Date/Time: 7/29/2017 3:33:17 PM Layout Tab: LAYOUT1

Full Size Sheet Format Is 24x36; If Printed Size Is Not 24x36, Then This Sheet Format Has Been Modified & Indicated Drawing Scale Is Not Accurate.



HAZARDOUS MATERIAL SURVEY PLAN
CONCORD ELEMENTARY SCHOOL
 3811 SE CONCORD, MILWAUKIE, OREGON

NO.	REVISION	DATE	BY	APPD

DRAWN BY JAB
CHECKED: JL
DATE: JULY 2017
PROJECT NUMBER: 21078.051
SHEET ID HM1
SHEET 1 OF 3

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LEGEND

- ASBESTOS-CONTAINING VINYL FLOOR TILE UNDER CARPET AND OSB BOARD (ON WOOD) WITH NON-ASBESTOS MASTIC
- ASBESTOS-CONTAINING VINYL FLOOR TILE UNDER CARPET (ON WOOD) WITH NON-ASBESTOS MASTIC
- ASBESTOS-CONTAINING VINYL FLOOR TILE UNDER WOOD FLOOR AND NON-ASBESTOS 12" VINYL FLOOR TILE/OSB BOARD (ON WOOD) WITH NON-ASBESTOS MASTIC
- ASBESTOS-CONTAINING VINYL FLOOR TILE AND MASTIC (ON WOOD)
- ASBESTOS-CONTAINING JUTE BACK VINYL SHEET FLOORING UNDER CARPET (ON WOOD)
- ASBESTOS-CONTAINING VERTICAL PIPE RUN (ABOVE CEILING)
- ASBESTOS-CONTAINING SINK UNDERCOATING ON STAINLESS STEEL SINK
- ASBESTOS-CONTAINING RESIDUAL BLACK COVEBASE MASTIC
- ASBESTOS-CONTAINING WINDOW GLAZING COMPOUND

ASBESTOS SAMPLE SYMBOLS

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

INVENTORY OF ASBESTOS SAMPLES

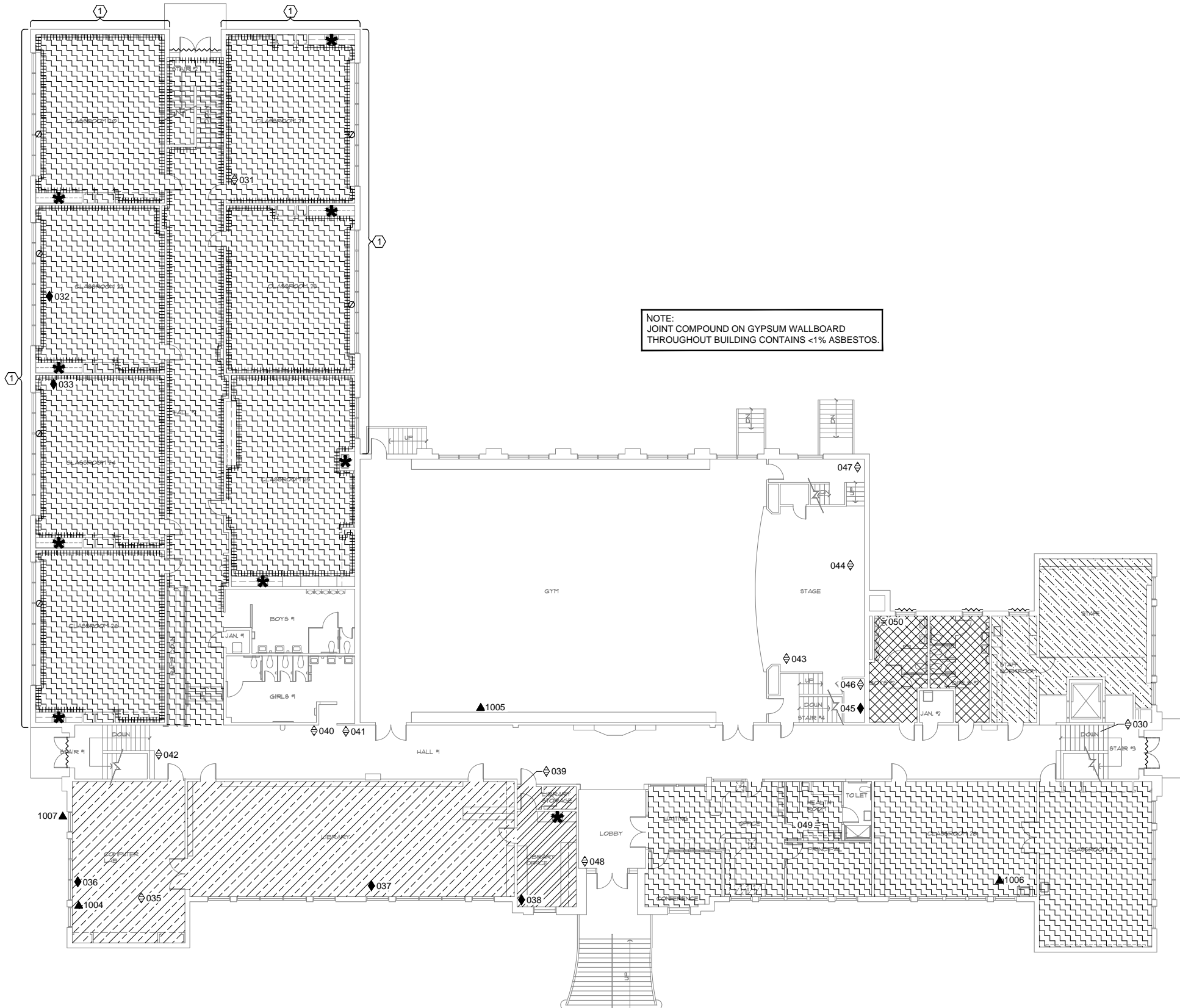
DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
◇ 030	21078.051-0030	(-/-)	SHEET FLOOR COVERING (2)
◇ 031	21078.051-0031	(-/-)	VINYL FLOOR TILE (3)
◇ 032	21078.051-0032	(-/-/+)	COVEBASE/BLACK MASTIC
◇ 033	21078.051-0033	(+/-)	VINYL FLOOR TILE/MASTIC
◇ 035	21078.051-0035	(-/-)	GLUED-ON CEILING TILES
◇ 036	21078.051-0036	(+/-/-)	VINYL FLOOR TILE/MASTIC (4)
◇ 037	21078.051-0037	(+/-/-)	VINYL FLOOR TILE/MASTIC (5)
◇ 038	21078.051-0038	(+/-/-)	SHEET FLOOR COVERING (3)
◇ 039	21078.051-0039	(-)	GRAY FELT UNDER PLYWOOD
◇ 040	21078.051-0040	(-)	WALL AND CEILING PLASTER
◇ 041	21078.051-0041	(-/-)	COVEBASE/MASTIC
◇ 042	21078.051-0042	(-/-)	GRAY FELT UNDER PLYWOOD
◇ 043	21078.051-0043	(-)	STAGE CURTAIN
◇ 044	21078.051-0044	(-)	STAGE CURTAIN
◇ 045	21078.051-0045	(+/-/+/-)	GYPSUM WALLBOARD/ JOINT COMPOUND
◇ 046	21078.051-0046	(-)	TAR PAPER
◇ 047	21078.051-0047	(-)	TAR PAPER
◇ 048	21078.051-0048	(-/-)	LEVELING COMPOUND
◇ 049	21078.051-0049	(-/-)	VINYL FLOOR TILE (5)
◇ 050	21078.051-0050	(-/-)	COVEBASE/MASTIC (4)

LEAD SAMPLE SYMBOLS

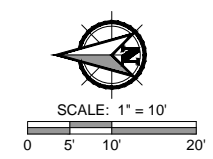
- ▲ 1007 — DRAWING REFERENCE TO LEAD SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
- MATERIAL SYMBOL
- ▲ LEAD DETECTED △ BELOW THE LIMIT OF DETECTION

INVENTORY OF AA LEAD SAMPLES

SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
▲ 1004	21078.051-1004	4,400 ppm	PAINT ON COMPUTER LAB; RADIATOR, METAL, BEIGE, FAIR CONDITION
▲ 1005	21078.051-1005	460 ppm	PAINT ON GYM; WALL, GYPSUM, WHITE, INTACT
▲ 1006	21078.051-1006	2,700 ppm	PAINT ON CLASSROOM 28; RADIATOR, METAL, BROWN, DETERIORATED
▲ 1007	21078.051-1007	200,000 ppm	PAINT ON EXTERIOR; NORTH ENTRANCE, WINDOW LEDGE, WOOD, GREEN, DETERIORATED



SECOND FLOOR PLAN



File name: L:\Projects\21078\21078-051-005-Consolidated\DWG\21078_051_HM2.dwg User: Jim Blanco CAD Plot Date/Time: 7/29/2017 3:33:05 PM Layout Title: LAYOUT1

HAZARDOUS MATERIAL SURVEY PLAN
CONCORD ELEMENTARY SCHOOL
 3811 SE CONCORD, MILWAUKIE, OREGON

NO.	REVISION	DATE	BY	APPD.

DRAWN BY	
JAB	
CHECKED:	
JL	
DATE:	
JULY 2017	
PROJECT NUMBER:	
21078.051	
SHEET ID	
HM2	
SHEET 2 OF 3	

Full Size Sheet Format Is 24x36; If Printed Size Is Not 24x36, Then This Sheet Format Has Been Modified & Indicated Drawing Scale Is Not Accurate.

GENERAL NOTES

1. THIS DRAWING IS DIAGRAMMATIC. 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.

LEGEND

- ASBESTOS-CONTAINING HORIZONTAL PIPE RUN
- ∅ ASBESTOS-CONTAINING VERTICAL PIPE RUN

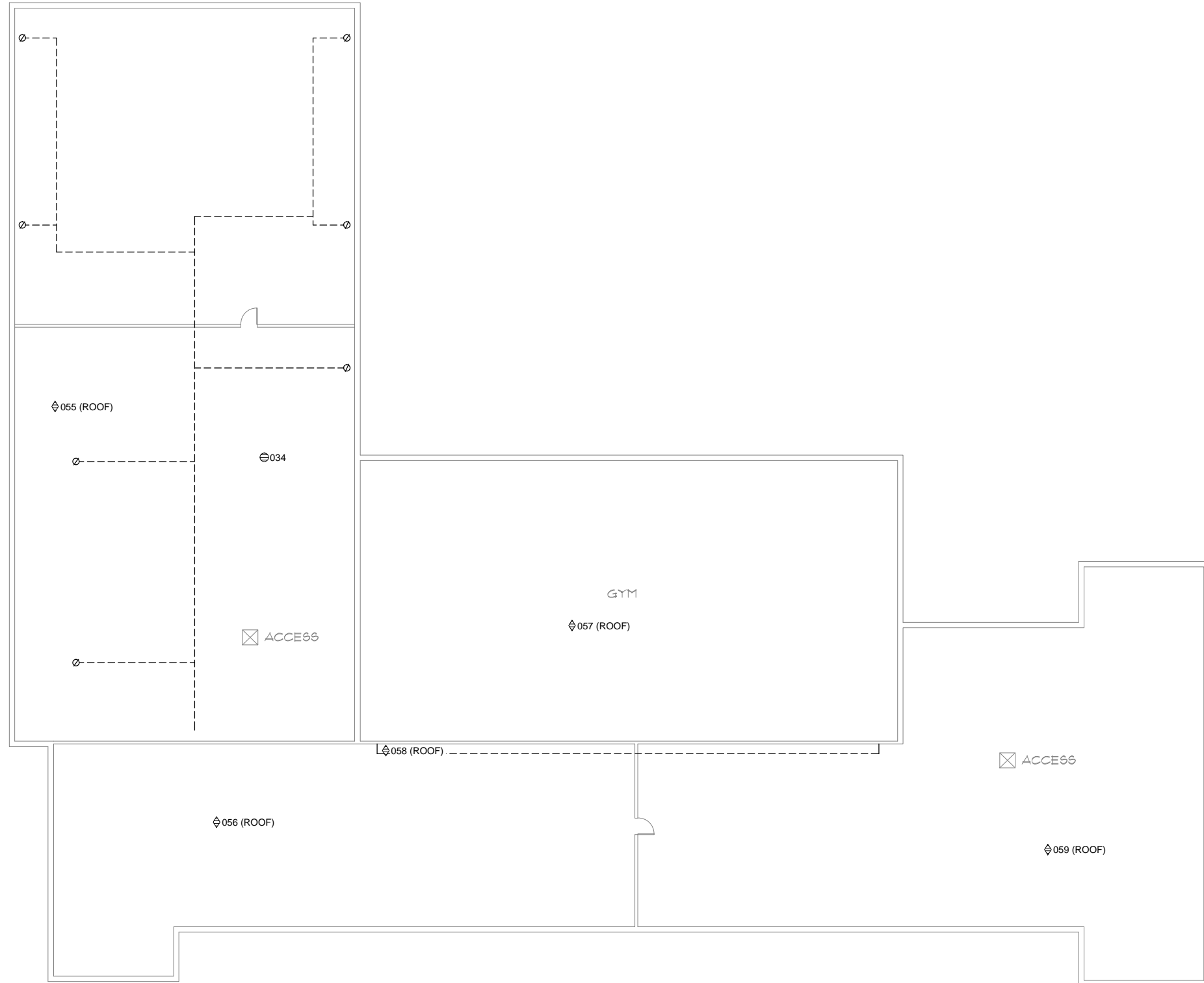
ASBESTOS SAMPLE SYMBOLS

- ◊007 DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
- MATERIAL SYMBOL

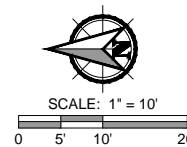
NOT TESTED	NEGATIVE	POSITIVE	
○	⊖	⊕	THERMAL SYSTEM INSULATION
□	⊟	■	SURFACING MATERIAL
◇	◇	◆	MISCELLANEOUS MATERIAL

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
⊖034	21078.051-0034	(-)	VIBRATION CLOTH
◇055	21078.051-0055	(-/-)	BUILT-UP ROOFING
◇056	21078.051-0056	(-)	BUILT-UP ROOFING
◇057	21078.051-0057	(-)	BUILT-UP ROOFING
◇058	21078.051-0058	(-/-)	BUILT-UP ROOFING
◇059	21078.051-0059	(-)	BUILT-UP ROOFING



ATTIC PLAN



PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Milwaukie, OR 97131
503.261.1939
pbsus.com



HAZARDOUS MATERIAL SURVEY PLAN
CONCORD ELEMENTARY SCHOOL
3811 SE CONCORD, MILWAUKIE, OREGON

NO.	REVISION	DATE	BY	APP'D

DRAWN BY	JAB
CHECKED:	JL
DATE:	JULY 2017
PROJECT NUMBER:	21078.051
SHEET ID	HM3
SHEET	3 OF 3

Filename: L:\Projects\21078\21078-051-0078_North Classroom SD (NCS)\21078.051_ConcordES\DWG\21078.051_HM3.dwg Layout: Tab: LAYOUT1 User: Jim Blanco CAD Plot Date/Time: 7/19/2017 4:43:49 PM

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.051-0001	Carpet Mastic	Room 10; rubbery black mastic on concrete		Lab Cor
		Layer: Layer 1	Description: mastic, black/gray	
21078.051-0002	Sink Undercoating	Room 10; black sink undercoating		Lab Cor
		Layer: Layer 1	Description: loose flaky material, black	
21078.051-0003	Brown Pipe Wrap	Room 11; brown felt pipe wrap		Lab Cor
		Layer: Layer 1	Description: fine compact powder, off-white, with woven fibers, off-white	
		Layer 2	compressed fibers, brown	<1% Chrysotile
21078.051-0004	Carpet Mastic (2)	Room 11; yellow carpet mastic		Lab Cor
		Layer: Layer 1	Description: mastic, gray, with paint flakes, green/tan	
21078.051-0005	Pipe Insulation	Room 11; white mag TSI pipe insulation		Lab Cor
		Layer: Layer 1	Description: fibrous powder, off-white	
21078.051-0006	Glued-on Ceiling Tile	Room 15; 12"X12", white fissured glued-on ceiling tile with yellow glue dots		Lab Cor
		Layer: Layer 1	Description: fibrous material, gray, with paint, white	
		Layer 2	mastic, tan	No Asbestos Detected
21078.051-0007	Wall and Ceiling Plaster	Room 15; white wall plaster		Lab Cor
		Layer: Layer 1	Description: granular compact powder, off-white	
21078.051-0008	Covebase/Mastic	Room 15; 6" black covebase with yellow and brown mastic		Lab Cor
		Layer: Layer 1	Description: flexible material, black	
		Layer 2	mastic, tan, with wood fibers	No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>	
21078.051-0009	Sheet Floor Covering	Room 15 restroom; gray pebble pattern, sheet flooring		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	vinyl, gray		No Asbestos Detected
	Layer 2	fibrous backing, gray, with mastic, tan	No Asbestos Detected		
21078.051-0010	Air Cell Pipe Insulation	Lower north storage room; air cell insulation on sink water pipes		Lab Cor	
		Layer:	Description:		Analysis:
	Layer 1	fibrous material, gray, with woven fibers, tan	45% Chrysotile		
21078.051-0011	Ceiling Tiles	Room 14; 2'x2' white hole pattern ceiling tile		Lab Cor	
		Layer:	Description:		Analysis:
	Layer 1	compressed fibers, brown, with paint, off-white	No Asbestos Detected		
21078.051-0012	Vinyl Floor Tile/Mastic	Room 17; brown floor tile with black mastic		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	mastic, tan		No Asbestos Detected
		Layer 2	vinyl, reddish brown		12% Chrysotile
		Layer 3	mastic, black		5% Chrysotile
	Layer 4	fine compact powder, gray	No Asbestos Detected		
21078.051-0013	Ceiling Tile	Room 17; 1'x1' white random hole pattern nailed ceiling tile		Lab Cor	
		Layer:	Description:		Analysis:
	Layer 1	compressed fibers, tan, with paint, off-white	No Asbestos Detected		
21078.051-0014	Sink Undercoating (02)	Room 17; gray sink undercoating		Lab Cor	
		Layer:	Description:		Analysis:
	Layer 1	loose flaky material, gray/off-white	10% Chrysotile		
21078.051-0015	Ceramic Tile/Grout	Girl's north hall restroom; 1'x1' white ceramic tile		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	ceramic tile, tan, with glaze, off-white		No Asbestos Detected
		Layer 2	cementitious material, gray		No Asbestos Detected
	Layer 3	woven fibers, white, with fibrous backing, green/brown	No Asbestos Detected		

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.051-0016	Covebase/Mastic (2)	Room 17; 4" beige covebase with yellow mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	flexible material, gray	No Asbestos Detected	
	Layer 2	mastic, tan	No Asbestos Detected	
	Layer 3	fine compact powder, off-white, micaceous	<1% Chrysotile	
21078.051-0017	Fiberglass Sealant	Room 17; white fiberglass end sealant		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	flexible material, white	No Asbestos Detected	
	Layer 2	loose fibrous material, yellow	No Asbestos Detected	
21078.051-0018	Gypsum Wallboard/Joint Compound	Room 19; gypsum joint compound		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fine compact powder, tan, micaceous, with paint, gray, and fibrous backing	No Asbestos Detected	
	Layer 2	chalky material, pink	No Asbestos Detected	
21078.051-0019	Sheet Floor Covering (2)	Main hall lower level; gray stairwell sheet flooring		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	flexible material, tan	No Asbestos Detected	
	Layer 2	mastic, off-white/brown	No Asbestos Detected	
21078.051-0020	Vinyl Floor Tile/Mastic	Art studio; 12" tan matted vinyl floor tile with yellow mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	vinyl, tan/gray	No Asbestos Detected	
	Layer 2	mastic, orange	No Asbestos Detected	
21078.051-0021	Carpet Mastic	Art studio; yellow carpet mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, orange	No Asbestos Detected	
21078.051-0022	Door Frame Caulk	Boiler room; white door frame caulk		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	flexible material, white, with paint, tan	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.051-0023	Ceramic Tile/Grout	Art studio locker room; tan ceramic tile and grout		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	ceramic tile, white, with glaze, tan	No Asbestos Detected
	Layer 2	cementitious material, gray, with granular material, gray	No Asbestos Detected	
21078.051-0024	Vinyl Floor Tile/Mastic (3)	Art studio south room; 9" vinyl floor tile with black mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	vinyl, tan/brown	8% Chrysotile
	Layer 2	mastic, black	5% Chrysotile	
21078.051-0025	Wall Corkboard Mastic (3)	Cafeteria; cream mastic behind wall corkboard packing		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	mastic, white, with fine compact powder, off-white	No Asbestos Detected
	Layer 2	compressed fibers, brown	No Asbestos Detected	
21078.051-0026	Ceiling Tile (3)	Counseling office; 2'x4' white stapped fiberboard ceiling tile		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fine compact powder, white, with paint, off-white	No Asbestos Detected
	Layer 2	compressed fibers, tan	No Asbestos Detected	
21078.051-0027	Duct Sealant	Sprinkler room; gray duct sealant		Lab Cor
		Layer:	Description:	Analysis:
	Layer 1	flexible material, gray	No Asbestos Detected	
21078.051-0028	Cloth	Sprinkler room; brown felt fire cloth above ceiling		Lab Cor
		Layer:	Description:	Analysis:
	Layer 1	compressed fibers, gray/brown	No Asbestos Detected	
21078.051-0029	Gypsum Wallboard/Joint Compound	Sprinkler room; gypsum joint compound		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fine compact powder, off-white, micaceous, with paint, off-white, and fibrous backing	No Asbestos Detected
	Layer 2	chalky material, tan	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>	
21078.051-0030	Sheet Floor Covering (2)	South stairwell; gray stairwell sheet flooring		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	vinyl, off-white/gray		No Asbestos Detected
	Layer 2	mastic, gray	No Asbestos Detected		
21078.051-0031	Vinyl Floor Tile (3)	Room 21; gray vinyl floor tile with black mastic		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	vinyl, tan/gray		No Asbestos Detected
	Layer 2	mastic, black	No Asbestos Detected		
21078.051-0032	Covebase/Black Mastic	Room 22; 6" tan covebase with cream mastic and residual black mastic		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	rubbery material, tan		No Asbestos Detected
		Layer 2	mastic, off-white		No Asbestos Detected
	Layer 3	mastic, black	3% Chrysotile		
21078.051-0033	Vinyl Floor Tile/Mastic	Room 24; red vinyl floor tile with black mastic		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	hard vinyl, red		3% Chrysotile
	Layer 2	fibrous backing, black	No Asbestos Detected		
21078.051-0034	Vibration Cloth	North wing attire; dark gray vibration cloth		Lab Cor	
		Layer:	Description:		Analysis:
	Layer 1	woven fibers, black	No Asbestos Detected		
21078.051-0035	Glued-on Ceiling Tiles	Computer lab; 12"x12" white fissured ceiling tile with yellow glue dots		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	compressed fibrous material, off-white		No Asbestos Detected
	Layer 2	mastic, yellow	No Asbestos Detected		
21078.051-0036	Vinyl Floor Tile/Mastic (4)	Computer lab; gray 9" vinyl floor tile with black mastic over black felt		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	hard vinyl, gray		3% Chrysotile
		Layer 2	mastic, black		No Asbestos Detected
	Layer 3	fibrous backing, black	No Asbestos Detected		

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.051-0037	Vinyl Floor Tile/Mastic (5)	Library; brown vinyl floor tile with black mastic over black felt		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, yellow	No Asbestos Detected	
	Layer 2	hard vinyl, orange	4% Chrysotile	
	Layer 3	fibrous backing, black	No Asbestos Detected	
21078.051-0038	Sheet Floor Covering (3)	Library storage; brown jute back sheet vinyl		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, yellow	No Asbestos Detected	
	Layer 2	vinyl, brown	3% Chrysotile	
	Layer 3	woven fibers, tan	No Asbestos Detected	
21078.051-0039	Gray Felt under Plywood	Library storage; gray felt under juteback and wood floor		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fibrous material, brown	No Asbestos Detected	
21078.051-0040	Wall and Ceiling Plaster	Upper level main hall; plaster wall		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compact granular powder, off-white with paint, off-white	No Asbestos Detected	
21078.051-0041	Covebase/Mastic	Upper level; main hall, 6" tan covebase with cream mastic and residue black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, tan	No Asbestos Detected	
	Layer 2	mastic, yellow/black	No Asbestos Detected	
21078.051-0042	Gray Felt under Plywood	Upper level main hall; gray felt under plywood and carpet		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fibrous backing, gray	No Asbestos Detected	
	Layer 2	brittle mastic, dark brown	No Asbestos Detected	
21078.051-0043	Stage Curtain	Stage; blue stage curtain		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	woven fibers, black	No Asbestos Detected	
21078.051-0044	Stage Curtain	Stage; black stage curtain		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	woven fibers, blue	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.051-0045	Gypsum Wallboard/Joint Compound	Stage closet; gypsum wallboard with joint compound		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fine compact powder, off-white with paint, off-white	<1% Chrysotile (Composite)
		Layer 2	paper backing, off-white	No Asbestos Detected
		Layer 3	fine compact powder, off-white	<1% Chrysotile (Composite)
		Layer 4	compact chalky material with paper, white	No Asbestos Detected
	Comments:	GRR Point Count: 1% asbestos		
21078.051-0046	Tar Paper	Stage closet; black paper under wood stage floor		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fibrous backing, black/brown	No Asbestos Detected
21078.051-0047	Tar Paper	gym; black paper under wood gym floor		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fibrous backing, black/brown	No Asbestos Detected
21078.051-0048	Leveling Compound	Lobby; gray leveling compound		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	granular material, gray	No Asbestos Detected
		Layer 2	loose fibers, tan	No Asbestos Detected
21078.051-0049	Vinyl Floor Tile (5)	Office break room; 12" white vinyl floor tile with cream mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	hard vinyl, tan	No Asbestos Detected
		Layer 2	granular material, gray	No Asbestos Detected
21078.051-0050	Covebase/Mastic (4)	Main level main hall men's restroom; brittle dark brown 6" covebase		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	rubbery material, brown	No Asbestos Detected
		Layer 2	mastic, tan	No Asbestos Detected
21078.051-0051	Window Frame Caulk (2)	Exterior of class 17; gray rubbery window caulk		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	rubbery material, gray	No Asbestos Detected
		Layer 2	sticky mastic, brown	No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.051-0052	Window Frame Caulk (3)	Exterior of class 17; white rubbery window caulk		Lab Cor
	Layer: Layer 1	Description: rubbery material, white	Analysis: No Asbestos Detected	
21078.051-0053	Window Glazing Compound	Exterior north entrance from hall; white window glazing		Lab Cor
	Layer: Layer 1	Description: hard compact powder, off-white	Analysis: <1% Chrysotile	
21078.051-0054	Brick	Exterior north entrance from hall; brick and mortar		Lab Cor
	Layer: Layer 1	Description: ceramic, red	Analysis: No Asbestos Detected	
21078.051-0055	Built-up Roofing	North area; flat roof, built-up asphaltic roofing with silver paint		Lab Cor
	Layer: Layer 1	Description: paint, silver	Analysis: No Asbestos Detected	
	Layer 2	thick rocky fibrous tar, black	No Asbestos Detected	
	Layer 3	compressed fibers, brown	No Asbestos Detected	
21078.051-0056	Built-up Roofing	Northwest area; flat roof, rolled asphaltic roofing		Lab Cor
	Layer: Layer 1	Description: thick rocky fibrous tar, black	Analysis: No Asbestos Detected	
21078.051-0057	Built-up Roofing	Central area; flat roof, rolled asphaltic roofing		Lab Cor
	Layer: Layer 1	Description: thick rocky fibrous tar, black	Analysis: No Asbestos Detected	
21078.051-0058	Built-up Roofing	Central area; pitched roof; 3-tab asphaltic roof with tar paper		Lab Cor
	Layer: Layer 1	Description: rocky fibrous tar, black	Analysis: No Asbestos Detected	
	Layer 2	rocky fibrous tar, black	No Asbestos Detected	
	Layer 3	fibrous tar, black	No Asbestos Detected	
21078.051-0059	Built-up Roofing	Southwest area; flat roof, rolled asphaltic roofing		Lab Cor
	Layer: Layer 1	Description: thick rocky fibrous tar, black	Analysis: No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB21078.051-1001	Paint	4,800 ppm	Classroom 11; window ledge, wood, beige, fair condition	R.J. Lee Group
LB21078.051-1002	Paint	930 ppm	Classroom 15; wall, plaster, white, fair condition	R.J. Lee Group
LB21078.051-1003	Paint	<99 ppm	Boiler room; ceiling, plaster, white, deteriorated	R.J. Lee Group
LB21078.051-1004	Paint	4,400 ppm	Computer lab; radiator, metal, beige, fair condition	R.J. Lee Group
LB21078.051-1005	Paint	460 ppm	Gym; wall, gypsum, white, intact	R.J. Lee Group
LB21078.051-1006	Paint	2,700 ppm	Classroom 28; radiator, metal, brown, deteriorated	R.J. Lee Group
LB21078.051-1007	Paint	200,000 ppm	Exterior; north entrance, window ledge, wood, green, deteriorated	R.J. Lee Group

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
http://www.labcorpdx.net*Asbestos and Environmental Analysis***Client:** PBS Engineering and Environmental
4412 SW Corbett Avenue
Portland, OR 97239**Report Number:** 173327R01
Report Date: 06/12/2017**Job Number:** 173327**P.O. No:** n/a**Project Name:****Project Number:** 21078.051 Phase 0001**Project Notes:**

Client Sample ID: 21078.051-0001	Sample ID: S1	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Ellie Brown	Percent Asbestos:
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		
Homogeneous mastic, black/gray	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 2 % - - - -		98 %

Client Sample ID: 21078.051-0002	Sample ID: S2	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Ellie Brown	Percent Asbestos:
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		
Homogeneous loose flaky material, black	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- Trace - - - -		100 %

Comments: Suboptimal amount of material provided for analysis. Results may not be representative of the parent material.

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
http://www.labcorpdx.net*Asbestos and Environmental Analysis***Job Number:** 173327**Report Number:** 173327R01**Report Date:** 06/12/2017

Client Sample ID:	21078.051-0003	Sample ID:	S3	Date Analyzed:	06/10/2017	Analyst:	Ellie Brown	
Client Sample Description:								
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Layer 01								
fine compact powder, off-white, with woven fibers, off-white	20 %	12 %	-	-				12 %
Layer 02								
compressed fibers, brown	80 %	Trace	-	-				< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
Layer 01	-	20 %	-	-	-	-	-	68 %
Layer 02	Trace	95 %	-	-	-	-	-	5 %

Client Sample ID:	21078.051-0004	Sample ID:	S4	Date Analyzed:	06/10/2017	Analyst:	Ellie Brown	
Client Sample Description:								
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous								
mastic, gray, with paint flakes, green/tan	100 %	-	-	-				NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
	-	5 %	-	-	-	-	-	95 %

Client Sample ID:	21078.051-0005	Sample ID:	S5	Date Analyzed:	06/10/2017	Analyst:	Ellie Brown	
Client Sample Description:								
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous								
fibrous powder, off-white	100 %	5 %	10 %	-				15 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
	-	-	-	-	-	-	-	85 %

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
http://www.labcorpdx.net*Asbestos and Environmental Analysis***Job Number:** 173327**Report Number:** 173327R01**Report Date:** 06/12/2017

Client Sample ID: 21078.051-0006	Sample ID: S6				Date Analyzed: 06/10/2017	
Client Sample Description:					Analyst: Ellie Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
fibrous material, gray, with paint, white	60 %	-	-	-		NAD
Layer 02						
mastic, tan	40 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	10 %	30 %	-	-	60 %
Layer 02	-	Trace	-	-	-	100 %

Client Sample ID: 21078.051-0007	Sample ID: S7				Date Analyzed: 06/10/2017	
Client Sample Description:					Analyst: Ellie Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
granular compact powder, off-white	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	Trace	Trace	-	-	-	100 %

Client Sample ID: 21078.051-0008	Sample ID: S8				Date Analyzed: 06/10/2017	
Client Sample Description:					Analyst: Ellie Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
flexible material, black	80 %	-	-	-		NAD
Layer 02						
mastic, tan, with wood fibers	20 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	10 %	-	-	-	90 %

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Client Sample ID: 21078.051-0009	Sample ID: S9				Date Analyzed: 06/10/2017	Analyst: Ellie Brown	Percent Asbestos:
Client Sample Description:							
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			
Layer 01							
vinyl, gray	60 %	-	-	-	NAD		
Layer 02							
fibrous backing, gray, with mastic, tan	40 %	-	-	-	NAD		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	-	-	-	-	100 %	
Layer 02	5 %	80 %	-	-	-	15 %	

Client Sample ID: 21078.051-0010	Sample ID: S10				Date Analyzed: 06/10/2017	Analyst: Ellie Brown	Percent Asbestos:
Client Sample Description:							
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
fibrous material, gray, with woven fibers, tan	100 %	45 %	-	-	45 %		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	55 %	-	-	-	0 %	

Client Sample ID: 21078.051-0011	Sample ID: S11				Date Analyzed: 06/10/2017	Analyst: Ellie Brown	Percent Asbestos:
Client Sample Description:							
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
compressed fibers, brown, with paint, off-white	100 %	-	-	-	NAD		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	98 %	-	-	-	2 %	



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Report Number: 173327R01

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Client Sample ID: 21078.051-0012

Sample ID: S12

Date Analyzed: 06/10/2017

Client Sample Description:

Analyst: Ellie Brown

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, tan	10 %	-	-	-		NAD
Layer 02						
vinyl, reddish brown	80 %	12 %	-	-		12 %
Layer 03						
mastic, black	8 %	5 %	-	-		5 %
Layer 04						
fine compact powder, gray	2 %	-	-	-		NAD
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	Trace	-	100 %
Layer 02	-	-	-	-	-	88 %
Layer 03	-	-	-	-	-	95 %
Layer 04	-	Trace	-	-	-	100 %

Client Sample ID: 21078.051-0013

Sample ID: S13

Date Analyzed: 06/10/2017

Client Sample Description:

Analyst: Ellie Brown

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
compressed fibers, tan, with paint, off-white	100 %	-	-	-		NAD
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	95 %	-	-	-	5 %

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Client Sample ID: 21078.051-0014	Sample ID: S14	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Ellie Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous loose flaky material, gray/off-white	100 % 10 % - -		10 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 90 %
	- - - - -		

Client Sample ID: 21078.051-0015	Sample ID: S15	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Ellie Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01 ceramic tile, tan, with glaze, off-white	70 % - - -		NAD
Layer 02 cementitious material, gray	20 % - - -		NAD
Layer 03 woven fibers, white, with fibrous backing, green/brown	10 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -		100 %
Layer 02	- Trace - - -		100 %
Layer 03	40 % 60 % - - -		0 %

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<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
flexible material, gray	70 %	-	-	-	NAD	
Layer 02						
mastic, tan	25 %	-	-	-	NAD	
Layer 03						
fine compact powder, off-white, micaceous	5 %	Trace	-	-	< 1 %	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	Trace	-	-	-	100 %

Client Sample ID: 21078.051-0017**Sample ID:** S17**Date Analyzed:** 06/10/2017**Client Sample Description:****Analyst:** Ellie Brown

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
flexible material, white	90 %	-	-	-	NAD	
Layer 02						
loose fibrous material, yellow	10 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	5 %	-	-	95 %
Layer 02	-	-	100 %	-	-	0 %

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<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01 fine compact powder, tan, micaceous, with paint, gray, and fibrous backing	35 %	-	-	-	NAD	
Layer 02 chalky material, pink	65 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	3 %	2 %	-	-	-	95 %

Client Sample ID: 21078.051-0019**Sample ID:** S19**Date Analyzed:** 06/10/2017**Client Sample Description:****Analyst:** Ellie Brown

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01 flexible material, tan	96 %	-	-	-	NAD	
Layer 02 mastic, off-white/brown	4 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	10 %	-	-	-	90 %

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Client Sample ID: 21078.051-0020	Sample ID: S20	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Ellie Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
vinyl, tan/gray	98 % - - -		NAD
Layer 02			
mastic, orange	2 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -	-	100 %
Layer 02	- 2 % - - -	-	98 %

Client Sample ID: 21078.051-0021	Sample ID: S21	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Ellie Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
mastic, orange	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - Trace - -	-	100 %

Client Sample ID: 21078.051-0022	Sample ID: S22	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Ellie Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
flexible material, white, with paint, tan	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -	-	100 %

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<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
ceramic tile, white, with glaze, tan	75 %	-	-	-		NAD
Layer 02						
cementitious material, gray, with granular material, gray	25 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 21078.051-0024**Sample ID:** S24**Date Analyzed:** 06/10/2017**Client Sample Description:****Analyst:** Ellie Brown

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
vinyl, tan/brown	98 %	8 %	-	-		8 %
Layer 02						
mastic, black	2 %	5 %	-	-		5 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	92 %
Layer 02	-	-	-	-	-	95 %

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<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, white, with fine compact powder, off-white	60 %	-	-	-		NAD
Layer 02						
compressed fibers, brown	40 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	100 %	-	-	-	0 %

Client Sample ID: 21078.051-0026**Sample ID:** S26**Date Analyzed:** 06/10/2017**Client Sample Description:****Analyst:** Ellie Brown

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
fine compact powder, white, with paint, off-white	45 %	-	-	-		NAD
Layer 02						
compressed fibers, tan	55 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	100 %	-	-	-	0 %

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Client Sample ID: 21078.051-0027	Sample ID: S27	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Ellie Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
flexible material, gray	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		100 %

Client Sample ID: 21078.051-0028	Sample ID: S28	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Ellie Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compressed fibers, gray/brown	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 100 % - - -		0 %

Client Sample ID: 21078.051-0029	Sample ID: S29	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Ellie Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
fine compact powder, off-white, micaceous, with paint, off-white, and fibrous backing	25 % - - -		NAD
Layer 02			
chalky material, tan	75 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- Trace - - -		100 %
Layer 02	2 % Trace - - -		98 %



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Client Sample ID: 21078.051-0030	Sample ID: S30				Date Analyzed: 06/10/2017	Analyst: Ellie Brown	Percent Asbestos:
Client Sample Description:							
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			
Layer 01							
vinyl, off-white/gray	95 %	-	-	-	NAD		
Layer 02							
mastic, gray	5 %	-	-	-	NAD		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	-	-	-	-	100 %	
Layer 02	-	5 %	-	-	-	95 %	

Client Sample ID: 21078.051-0031	Sample ID: S31				Date Analyzed: 06/10/2017	Analyst: Ellie Brown	Percent Asbestos:
Client Sample Description:							
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			
Layer 01							
vinyl, tan/gray	94 %	-	-	-	NAD		
Layer 02							
mastic, black	6 %	-	-	-	NAD		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	-	-	-	-	100 %	
Layer 02	-	Trace	-	-	-	100 %	

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Client Sample ID: 21078.051-0032		Sample ID: S32			Date Analyzed: 06/12/2017		
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
rubbery material, tan	85 %	-	-	-			NAD
Layer 02							
mastic, off-white	9 %	-	-	-			NAD
Layer 03							
mastic, black	6 %	3 %	-	-			3 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	97 %

Client Sample ID: 21078.051-0033		Sample ID: S33			Date Analyzed: 06/12/2017		
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
hard vinyl, red	70 %	3 %	-	-			3 %
Layer 02							
fibrous backing, black	30 %	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	97 %
Layer 02	-	75 %	-	-	-	-	25 %

Client Sample ID: 21078.051-0034		Sample ID: S34			Date Analyzed: 06/12/2017		
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
woven fibers, black	100 %	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	100 %	-	-	-	-	0 %



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Client Sample ID: 21078.051-0035	Sample ID: S35	Date Analyzed: 06/12/2017	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Layer 01			
compressed fibrous material, off-white	60 %	-	-
			NAD
Layer 02			
mastic, yellow	40 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01	-	-	80 %
			-
			-
Layer 02	-	-	5 %
			-
			-
			20 %
			95 %

Client Sample ID: 21078.051-0036	Sample ID: S36	Date Analyzed: 06/12/2017	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Layer 01			
hard vinyl, gray	50 %	3 %	-
			-
			3 %
Layer 02			
mastic, black	3 %	-	-
			-
			NAD
Layer 03			
fibrous backing, black	47 %	-	-
			-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01	-	-	-
			-
			-
Layer 02	-	2 %	-
			-
			-
Layer 03	-	75 %	-
			-
			-
			97 %
			98 %
			25 %

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<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, yellow	3 %	-	-	-		NAD
Layer 02						
hard vinyl, orange	70 %	4 %	-	-		4 %
Layer 03						
fibrous backing, black	27 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	96 %
Layer 03	-	65 %	-	-	-	35 %

Client Sample ID: 21078.051-0038**Sample ID:** S38**Date Analyzed:** 06/12/2017**Analyst:** Stephanie Golden**Client Sample Description:**

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, yellow	2 %	-	-	-		NAD
Layer 02						
vinyl, brown	70 %	3 %	-	-		3 %
Layer 03						
woven fibers, tan	28 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	2 %	-	98 %
Layer 02	-	-	-	-	-	97 %
Layer 03	-	100 %	-	-	-	0 %

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Client Sample ID: 21078.051-0039	Sample ID: S39	Date Analyzed: 06/12/2017	Analyst: Stephanie Golden	Percent Asbestos:		
Client Sample Description:						
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		
Homogeneous	fibrous material, brown	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	90 %	-	-	-	10 %

Client Sample ID: 21078.051-0040	Sample ID: S40	Date Analyzed: 06/12/2017	Analyst: Stephanie Golden	Percent Asbestos:		
Client Sample Description:						
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		
Homogeneous	compact granular powder, off-white with paint, off-white	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 21078.051-0041	Sample ID: S41	Date Analyzed: 06/10/2017	Analyst: Stephanie Golden	Percent Asbestos:		
Client Sample Description:						
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		
Layer 01	rubbery material, tan	95 %	-	-	-	NAD
Layer 02	mastic, yellow/black	5 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

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Client Sample ID: 21078.051-0042	Sample ID: S42				Date Analyzed: 06/10/2017	
Client Sample Description:					Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
fibrous backing, gray	95 %	-	-	-		NAD
Layer 02						
brittle mastic, dark brown	5 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	100 %	-	-	-	0 %
Layer 02	-	3 %	-	-	-	97 %

Client Sample ID: 21078.051-0043	Sample ID: S43				Date Analyzed: 06/10/2017	
Client Sample Description:					Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
woven fibers, black	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	100 %	-	-	-	0 %

Client Sample ID: 21078.051-0044	Sample ID: S44				Date Analyzed: 06/10/2017	
Client Sample Description:					Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
woven fibers, blue	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	100 %	-	-	-	0 %

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
http://www.labcorpdx.net*Asbestos and Environmental Analysis***Job Number:** 173327**Report Number:** 173327R01**Report Date:** 06/12/2017**Client Sample ID:** 21078.051-0045**Sample ID:** S45**Date Analyzed:** 06/10/2017**Client Sample Description:****Analyst:** Stephanie Golden

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
fine compact powder, off-white with paint, off-white	15 %	3 %	-	-	3 %	
Layer 02						
paper backing, off-white	8 %	-	-	-	NAD	
Layer 03						
fine compact powder, off-white	10 %	3 %	-	-	3 %	
Layer 04						
compact chalky material with paper, white	67 %	-	-	-	NAD	
Other Fibers						
	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	97 %
Layer 02	-	100 %	-	-	-	0 %
Layer 03	-	-	-	-	-	97 %
Layer 04	-	5 %	-	-	-	95 %

Client Sample ID: 21078.051-0046**Sample ID:** S46**Date Analyzed:** 06/10/2017**Client Sample Description:****Analyst:** Stephanie Golden

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
fibrous backing, black/brown	100 %	-	-	-	NAD	
Other Fibers						
	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	85 %	-	-	-	15 %

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
http://www.labcorpdx.net*Asbestos and Environmental Analysis***Job Number:** 173327**Report Number:** 173327R01**Report Date:** 06/12/2017

Client Sample ID: 21078.051-0047	Sample ID: S47	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
fibrous backing, black/brown	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 85 % - - - -		15 %

Client Sample ID: 21078.051-0048	Sample ID: S48	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
granular material, gray	60 % - - -		NAD
Layer 02			
loose fibers, tan	40 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- 5 % - - - -		95 %
Layer 02	- 100 % - - - -		0 %

Client Sample ID: 21078.051-0049	Sample ID: S49	Date Analyzed: 06/10/2017	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
hard vinyl, tan	98 % - - -		NAD
Layer 02			
granular material, gray	2 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -		100 %
Layer 02	- - - - -		100 %

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
http://www.labcorpdx.net*Asbestos and Environmental Analysis***Job Number:** 173327**Report Number:** 173327R01**Report Date:** 06/12/2017

Client Sample ID: 21078.051-0050	Sample ID: S50	Date Analyzed: 06/10/2017		
Client Sample Description:		Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite Crocidolite	
Layer 01			Percent Asbestos:	
rubbery material, brown	99 %	-	-	NAD
Layer 02				
mastic, tan	1 %	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool Synthetic Other	Matrix
Layer 01	-	-	-	100 %
Layer 02	-	2 %	-	98 %

Client Sample ID: 21078.051-0051	Sample ID: S51	Date Analyzed: 06/10/2017		
Client Sample Description:		Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite Crocidolite	
Layer 01			Percent Asbestos:	
rubbery material, gray	90 %	-	-	NAD
Layer 02				
sticky mastic, brown	10 %	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool Synthetic Other	Matrix
Layer 01	-	-	-	100 %
Layer 02	-	-	-	100 %

Client Sample ID: 21078.051-0052	Sample ID: S52	Date Analyzed: 06/10/2017		
Client Sample Description:		Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite Crocidolite	
Homogeneous			Percent Asbestos:	
rubbery material, white	100 %	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool Synthetic Other	Matrix
	-	-	-	100 %



Lab/Cor Portland, Inc.

4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055
http://www.labcorpdx.net

Asbestos and Environmental Analysis

Job Number: 173327

Report Number: 173327R01

Report Date: 06/12/2017

Client Sample ID: 21078.051-0053	Sample ID: S53	Date Analyzed: 06/10/2017						
Client Sample Description:			Analyst: Stephanie Golden					
Asbestos Mineral Fibers	Layer	Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous	hard compact powder, off-white	100 %	Trace	-	-			< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix 100 %
	-	-	-	-	-			

Client Sample ID: 21078.051-0054	Sample ID: S54	Date Analyzed: 06/10/2017						
Client Sample Description:			Analyst: Stephanie Golden					
Asbestos Mineral Fibers	Layer	Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous	ceramic, red	100 %	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix 100 %
	-	-	-	-	-			

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM. This report and the data contained therein cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

- "NAD" is No Asbestos Detected.
- Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
- Material binders, such as those found in vinyl floor tiles, may prevent the detection of small diameter asbestos fibers. A gravimetric preparation and point-count is recommended for such samples.
- Quantitative analysis by PLM point count or TEM may be recommended for samples testing at < or = to 1% asbestos.
- The following estimate of error for this method by visual estimation of asbestos percent are as follows:
1% asbestos: 0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
- This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Reviewed by:


Digital Signature for Lab Use Only
X

Stephanie Golden
Technical Manager



175527
p 1 of 3

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.051 **Phase** 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: June 07, 2017

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Hailey Edmeades
Name

H Edmeades 6/7 2:21p
Authorized Signature Date Time

RECEIVER

Date Received: 6-7-17

Company: Lab Cor
Address: 4321 SW Corbett Ave Ste A
Portland, OR 97239
503-224-5055

Jillian Lambert
Name

Jillian Lambert 6-7 2:25PM
Authorized Signature Date Time

Sender's ID No.	Brief Description
21078.051-0001	_____
21078.051-0002	_____
21078.051-0003	_____
21078.051-0004	_____
21078.051-0005	_____
21078.051-0006	_____
21078.051-0007	_____
21078.051-0008	_____
21078.051-0009	_____
21078.051-0010	_____
21078.051-0011	_____
21078.051-0012	_____
21078.051-0013	_____
21078.051-0014	_____

Receiver's ID No.

1755C7
P 2 of 3



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

21078.051-0015		
21078.051-0016		
21078.051-0017		
21078.051-0018		
21078.051-0019		
21078.051-0020		
21078.051-0021		
21078.051-0022		
21078.051-0023		
21078.051-0024		
21078.051-0025		
21078.051-0026		
21078.051-0027		
21078.051-0028		
21078.051-0029		
21078.051-0030		
21078.051-0031		
21078.051-0032		
21078.051-0033		
21078.051-0034		
21078.051-0035		
21078.051-0036		
21078.051-0037		
21078.051-0038		
21078.051-0039		

173327
p 3 of 3



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

21078.051-0040	_____	_____
21078.051-0041	_____	_____
21078.051-0042	_____	_____
21078.051-0043	_____	_____
21078.051-0044	_____	_____
21078.051-0045	_____	_____
21078.051-0046	_____	_____
21078.051-0047	_____	_____
21078.051-0048	_____	_____
21078.051-0049	_____	_____
21078.051-0050	_____	_____
21078.051-0051	_____	_____
21078.051-0052	_____	_____
21078.051-0053	_____	_____
21078.051-0054	_____	_____

Please analyze the enclosed 54 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.

Request verbal results by: _____ AM/PM _____ Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: 48 Hour

SPECIAL INSTRUCTIONS:

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
http://www.labcorpdx.net*Asbestos and Environmental Analysis***Client:** PBS Engineering and Environmental
4412 SW Corbett Avenue
Portland, OR 97239**Report Number:** 174217R01
Report Date: 07/13/2017**Job Number:** 174217**P.O. No:** n/a**Project Name:****Project Number:** 21078.051 Phase 0001**Project Notes:****Client Sample ID:** 21078.051-0055**Sample ID:** S1**Date Analyzed:** 07/13/2017**Analyst:** Stephanie Golden**Client Sample Description:****Asbestos Mineral Fibers**

Layer	Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01 paint, silver	2 %	-	-	-	NAD
Layer 02 thick rocky fibrous tar, black	80 %	-	-	-	NAD
Layer 03 compressed fibers, brown	18 %	-	-	-	NAD

Other Fibers

	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	10 %	-	90 %
Layer 03	-	100 %	-	-	-	0 %

Client Sample ID: 21078.051-0056**Sample ID:** S2**Date Analyzed:** 07/13/2017**Analyst:** Stephanie Golden**Client Sample Description:****Asbestos Mineral Fibers**

Layer	Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous thick rocky fibrous tar, black	100 %	-	-	-	NAD

Other Fibers

	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	5 %	2 %	-	-	-	93 %

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
http://www.labcorpdx.net*Asbestos and Environmental Analysis***Job Number:** 174217**Report Number:** 174217R01**Report Date:** 07/13/2017

Client Sample ID: 21078.051-0057	Sample ID: S3	Date Analyzed: 07/13/2017	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
thick rocky fibrous tar, black	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	5 % 2 % - - -		93 %

Client Sample ID: 21078.051-0058	Sample ID: S4	Date Analyzed: 07/13/2017	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
rocky fibrous tar, black	35 % - - -		NAD
Layer 02			
rocky fibrous tar, black	35 % - - -		NAD
Layer 03			
fibrous tar, black	30 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	18 % - - -		82 %
Layer 02	18 % - - -		82 %
Layer 03	10 % 25 % - - -		65 %

Client Sample ID: 21078.051-0059	Sample ID: S5	Date Analyzed: 07/13/2017	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
thick rocky fibrous tar, black	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	10 % 5 % - - -		85 %

Job Number: 174217

Report Number: 174217R01

Report Date: 07/13/2017

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM. This report and the data contained therein cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

- "NAD" is No Asbestos Detected.
- Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
- Material binders, such as those found in vinyl floor tiles, may prevent the detection of small diameter asbestos fibers. A gravimetric preparation and point-count is recommended for such samples.
- Quantitative analysis by PLM point count or TEM may be recommended for samples testing at < or = to 1% asbestos.
- The following estimate of error for this method by visual estimation of asbestos percent are as follows:
1% asbestos: 0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
- This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Reviewed by:


Stephanie Golden
Technical Manager

174217



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.051 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: July 12, 2017

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Handwritten signature: Harly Edmeades

Authorized Signature: H Edmeades Date: 7/12 Time: 1:13

RECEIVER

Date Received: 7-12-17

Company: Lab Cor
Address: 4321 SW Corbett Ave Ste A
Portland, OR 97239
503-224-5055

Handwritten signature: Jillian Lambert

Authorized Signature: Jillian Lambert Date: 7-12 Time: 1:29 PM

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No. Rows contain ID numbers 21078.051-0055 through 21078.051-0059.

Please analyze the enclosed 5 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.

Request verbal results by: AM/PM Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: 24 Hour

SPECIAL INSTRUCTIONS:

LABORATORY REPORT

 PBS Engineering & Environmental
 4412 Southwest Corbett Ave.
 Portland, OR 97239

 Attn: Hailey Edmeades
 Phone: 503-417-7594

Email: hailey.edmeades@pbsenv.com

 RJ Lee Group Job No.: PA090620170005
 Samples Received: June 9, 2017
 Report Date: June 16, 2017
 Client Project: 21078.051 Phase 0001
 Purchase Order No.: N/A
 Matrix: Solid
 Prep/Analysis: EPA 3050B / EPA 7000B-Paint

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit		Analysis Date	Q
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg		
LB21078.051-1001	PA090620170005-001	NP	Lead	0.48	4800	0.017	170	06/16/2017	AN
LB21078.051-1002	PA090620170005-002	NP	Lead	0.093	930	0.0099	99	06/16/2017	AN
LB21078.051-1003	PA090620170005-003	NP	Lead	< 0.0099	< 99	0.0099	99	06/16/2017	AN
LB21078.051-1004	PA090620170005-004	NP	Lead	0.44	4400	0.0099	99	06/16/2017	AN
LB21078.051-1005	PA090620170005-005	NP	Lead	0.046	460	0.011	110	06/16/2017	AN
LB21078.051-1006	PA090620170005-006	NP	Lead	0.27	2700	0.014	140	06/16/2017	AN
LB21078.051-1007	PA090620170005-007	NP	Lead	20	200000	0.010	100	06/16/2017	AN

Comments:
Report Qualifiers (Q):

P : PA-DEP Accredited (PA DEP Lab ID 02-00396, NELAP)
N : NY ELAP Accredited (NY ELAP Lab Code 10884)
C : CA ELAP Accredited (CA ELAP Certificate 1970)
A : AIHA-LAP, LLC Accredited (Lab ID 100364)
- : Test (analyte-matrix-preparation-analysis) is performed under RJLG's General Quality System requirements and is not part of any of the above scopes of accreditations

E = Value above highest calibration standard
J = Value below lowest calibration standard but above MDL (Method Detection Limit)
L = LCS (Laboratory Control Standard)/SRM (Standard Reference Material) recovery outside accepted recovery limits
H = Holding times for preparation or analysis exceeded

B = Analyte detected in the associated Method Blank
S = Spike Recovery outside accepted limits
R = RPD (relative percent difference) outside accepted limits
D = RL (reporting limit verification) outside accepted limits
NP = Not Provided

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

This laboratory operates in accord with ISO 17025:2005 guidelines, and holds a limited scope of accreditations under different accrediting agencies; refer to <http://www.rjlg.com/about-us/accreditations/> for more information and current status. Unless it is specifically stated otherwise (under the Q column using the appropriate accrediting agency qualifier(s)) the work contained in this report is performed under RJLG's General Quality System requirements and is not part of any scope of accreditations. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid.

Unless otherwise noted (either in the comments section of the report and/or with the appropriate qualifiers under the report qualifiers (Q) column) the following apply: (a) Samples were received in good condition, (b) All QC samples are within acceptable established limits, (c) All samples designated as NELAP meet the requirements of the NELAC standard; if not applicable qualifiers will be used to designate the non-compliance and (d) Results have not been blank corrected. Quality Control data is available upon request.



 Philip Grindle
 Laboratory Supervisor

4



TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 21078.051 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: June 07, 2017

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Hailey Edmeades
Name

Handwritten signature and date 6/7
Authorized Signature Date

RECEIVER

Date Received: 6/9/17 1000

Company: R.J. Lee Group
Address: 350 Hochberg Road
Monroeville, PA 15146
724-325-1776

Handwritten signature
Name

Handwritten signature and date 6/9/17
Authorized Signature Date

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No. Rows 1-7 with ID numbers LB21078.051-1001 to 1007.

ANALYSIS REQUESTED:

- LEAD: [x] Paint, [] Wipe, [] Soil/Misc., [] Air, [] TCLP

Please analyze the enclosed 7 sample(s) for LEAD content using Atomic Absorption Method. PBS requests prior notification if samples will be disposed.

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

5 Day (circled in blue)

SPECIAL INSTRUCTIONS:

Joe L.

THIS IS TO CERTIFY THAT
JOE LUCAS
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: 01/20/2017

Course Location: Portland, OR

Certificate: IR-17-3527B



Engineering +
Environmental

Refresher Training Held Online

Expiration Date: 01/20/2018

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

A handwritten signature in black ink that reads "Gregory M. Baker".

Greg Baker, Instructor

THIS IS TO CERTIFY THAT

JAMES MASTANDUNO

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: 01/05/2017

Course Location: Portland, OR

Certificate: IR-17-4993B



**Engineering +
Environmental**

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

Expiration Date: 01/05/2018

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

A handwritten signature in black ink that reads "Gregory M. Baker".

Greg Baker, Instructor