



Engineering +
Environmental

Asbestos Abatement Closeout Report

Concord Elementary School
3811 SE Concord Road
Milwaukie, Oregon 97267

Prepared for:



North Clackamas School District
12451 SE Fuller Road
Milwaukie, Oregon 97222

September, 2010
PBS Project No. 21078.021

4412 SW Corbett Avenue, Portland, OR 97239
503.248.1939 Main
866.727.0140 Fax
888.248.1939 Toll-Free
www.pbsenv.com

PROJECT CLOSEOUT REPORT

For

North Clackamas School District

This closeout report is for exclusive use of the Client and is not to be photographed, photocopied, or similarly reproduced, in total or in part, without the expressed written consent of the Client and/or PBS Engineering + Environmental.

Prepared by

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, Oregon 97239

TABLE OF CONTENTS

SUMMARY	TAB 1
Project Summary	
PROJECT COMMUNICATION	TAB 2
Field Observation Reports Visual Inspection Checklists Asbestos Worksite Checklists	
AIR/BULK SAMPLE INVENTORIES/LABORATORY REPORT(S)	TAB 3
Air Sampling Description Construction/Abatement Period Air Sample Inventory and Lab Reports Asbestos & Lead Paint Bulk Sample Inventories and Lab Reports (Pre-Renovation Investigation) Asbestos Bulk Sample Inventory and Lab Reports (Construction Period)	
CONTRACTOR PRE-CONTRACT SUBMITTALS	TAB 4
Asbestos Abatement Work Plan Certificate of Insurance Asbestos Abatement Contractors License Medical Surveillance Program Material Safety Data Sheets (MSDS) Respirator Program	
CONTRACTOR CLOSEOUT SUBMITTALS	TAB 5
DEQ Notification / Notification Revisions Asbestos Waste Shipment Report Forms Daily and Regulated Area Entry Logs Medical Surveillance & Fit Test Records	
ASBESTOS ABATEMENT PLANS AND SPECIFICATION	TAB 6
Bid Specifications (Asbestos Abatement of Six Schools) Abatement Drawings C-1 through HM-6.0 (Concord HM-4.0) (Sheet 5 of 7)	

TAB 1: SUMMARY

PROJECT SUMMARY

INTRODUCTION

Between June 21, 2010 and July 12, 2010, PBS Engineering + Environmental (PBS) conducted air monitoring and project oversight during asbestos abatement at Concord Elementary School in Milwaukie, Oregon. Abatement work was conducted to facilitate planned renovation work at this school. Abatement was performed by Performance Abatement Services (PAS) of Vancouver, Washington. Reference Tabs 4 and 5 for contractor licensing, qualifications, and logs of supervisors and workers used on this project.

The following approximate quantities of asbestos-containing materials were removed from the building (in both base bid, alternates and change orders) as part of this project:

- Approximately 2,300 square feet of non-asbestos floor tile with asbestos-containing mastic in the cafeteria on the lower level.
- Approximately 2,850 square feet of gypsum wall and ceiling systems with asbestos containing joint compound in the office area.
- Approximately 250 linear feet of pipe insulation in the lower level classrooms.
- Approximately 590 horizontal feet of complete window assemblies of varying heights and sizes with asbestos containing caulking, glazing compound and CAB panels. (see drawings for specific locations)
- Approximately 40 square feet of mastic removal behind wainscot panels in the office area.
- Approximately 50 square feet of debris in classrooms 11 and 13 as a result of unit ventilator removal.

Reference abatement plans and specifications in Tab 6 for additional abatement project information.

Listed below are descriptions of the engineering controls, work practices and air monitoring sampling methodologies utilized during this project.

ENGINEERING CONTROLS AND WORK PRACTICES

Abatement was performed in containment with critical barriers, decontamination chambers and negative-air pressure. The work area was regulated by placement of appropriate signage at the entrance to the abatement area. Glove bag removal was performed on pipe insulation in remote areas outside containment.

Throughout the duration of the project, workers utilized half-face negative pressure air purifying respirators, Tyvek coveralls, gloves, boots and other personal protection equipment, as appropriate.

All regulated asbestos-containing materials were double-bagged or drummed prior to removal from the work area. Labels were applied to the bags in accordance with standards developed by the Oregon Department of Environmental Quality (DEQ). The asbestos-containing materials and contaminated building components were disposed of at the Waste Management Landfill located in Hillsboro, Oregon.

All asbestos abatement was performed in compliance with applicable federal, state, and local regulations, project specifications, and contractual obligations.

VISUAL INSPECTIONS AND AIR SAMPLING

A PBS AHERA-certified inspector and/or a NIOSH certified 582 air technician were on-site during critical points of abatement on the project. PBS performed visual inspections of the work area for any residual asbestos-containing materials. The inspections are conducted to verify completion of the work and ensure proper removal of asbestos-containing materials in the removal area. Visual inspections were also performed in adjacent spaces to monitor the integrity of the containment, to identify potential problems outside the immediate work area and mitigate them, if necessary.

PBS performed ambient air monitoring in adjacent areas during the abatement. Air sample analysis revealed that the containment was successful at containing dust during abatement. The abatement contractor was responsible for Occupational Safety and Health Administration (OSHA) compliance for personal exposure monitoring.

In addition to the visual inspection, PBS collected clearance air samples for analysis via transmission electron microscopy (TEM). Analysis of all samples resulted in airborne fiber levels below the Environmental Protection Agency clearance standard of 70 structures per square millimeter (struc./mm²) of air. Clearance results were communicated to all appropriate parties.

Air monitoring inventory and analytical reports are included in Tab 3.

CERTIFICATION

PBS has compiled this report consistent with the project scope and certifies that the information is correct and accurate within the standards of professional quality and contractual obligations.


Signature _____ Date 10/8/10

Steve Dilling
Project Manager

TAB 2: PROJECT COMMUNICATION



FIELD OBSERVATION REPORT

Contractor: PDS

PBS Site Observer(s): JAY DOANE

Contractor On-site Personnel:

Project Manager: STEVE

Foreman: CLARK

Workers? 4 How Many? 3

Air Monitoring Personnel On-site:

Project Name: NCSO CONCORD

Project No.: 21078.021

Phase No. 003 Task:

Date: 07.07.10

Report No: Time: DA-1 Page 1 of 1

Weather: Temp.: °F

Summary Project Status: WINDOW REM/GB

Other Personnel On-site:

Items Observed (Work Practices & Procedures):

CREW CONTINUES TO GLOVE BAG ISI w/ HAZMAT WALK LOWER LEVEL + REMOVE WINDOWS

The individual signing certifies that the above information is correct and accurate.

Print or Type Name and Title

JAY DOANE H&E
07.07.10

Authorized Signature Date



FIELD OBSERVATION REPORT

Contractor: PAS

PBS Site Observer(s): JAY DOOLE

Contractor On-site Personnel:

Project Manager: STEVE

Foreman: CLARK

Workers? Y How Many? 3

Air Monitoring Personnel On-site:

Project Name: NCSA CONCORD

Project No.: 21078.021

Phase No. 003 Task:

Date: 07.06.10

Report No: Time: DAY Page 1 of 1

Weather: Temp.: °F

Summary Project Status: GLOVE BAG / WINDOW REM

Other Personnel On-site:

Items Observed (Work Practices & Procedures):

CREW IS WORKING @ OTHER SCHOOL SITE ASSISTING OTHER
CREWS WORK WERE CONTINUE GLOVE-BAGGING IN BASEMENT
CLASS ROOMS IN NORTH WING AND WINDOW REMOVAL

The individual signing certifies that the above information is correct and accurate.

Print or Type Name and Title
JAY J DOOLE IHTBEN
07.06.10

Authorized Signature Date



FIELD OBSERVATION REPORT

Contractor: PAS

PBS Site Observer(s): JD

Contractor On-site Personnel:

Project Manager: STEVE

Foreman: CHAK

Workers? Y How Many? 5

Air Monitoring Personnel On-site:

Project Name: MSD CONCORD

Project No.: 21078.021

Phase No. 003 Task:

Date: 07.02.10

Report No: Time: DAY Page 1 of 1

Weather: Temp.: °F

Summary Project Status: GLOBAG/WINDOW REM

Other Personnel On-site:

Items Observed (Work Practices & Procedures):

CREW CONTINUES TO PREP + REMOVE EXTERIOR WINDOWS ON NORTH SIDE OF BUILDING. GLOVE BAGGING CONTINUES IN NORTH WING LOWER LEVEL. PLUMBERS BREAK XITE PANEL ON SOUTHSIDE OF NORTH WING. PAS RESPONDS BY REMOVING REMAINING PANEL + HRA VACUUM AREA OF VADIS

The individual signing certifies that the above information is correct and accurate.

Print or Type Name and Title

JAY J. DANE HTECH
07.02.10

Authorized Signature Date



FIELD OBSERVATION REPORT

Contractor: PAS

Project Name: NCSJ CONCORD

PBS Site Observer(s): JAY DONALD

Project No.: 21078.021

Contractor On-site Personnel:

Phase No.: 003 Task No.:

Project Manager: STEVE D.

Date: 7.01.10

Foreman: CHAD

Report No: Time: 04:1 Page 1 of 1

Workers? 4 How Many? 5

Weather: Temp.: °F

Air Monitoring Personnel On-site:

Summary Project Status: WINDOWS/ADJ OFFICE MASTIC

Other Personnel On-site:

Items Observed (Work Practices & Procedures):

CREW WORKING ON GLOVE BAGGING TSI IN NORTH WING, MASTIC REMOVAL IN OFFICE BEHIND WALL PANEL + WINDOW REMOVAL ON NORTH WING

The individual signing certifies that the above information is correct and accurate.

Print or Type Name and Title

JAY DONALD I H TECH
07.01.10

Authorized Signature

Date



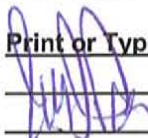
FIELD OBSERVATION REPORT

Contractor: <u>PAS</u>	Project Name: <u>NCSA CONCORD</u>
PBS Site Observer(s): <u>JAY DOANE</u>	Project No.: <u>21078-021</u>
Contractor On-site Personnel:	Phase No.: <u>003</u> Task No.:
Project Manager: <u>STEVE D</u>	Date: <u>6.30.10</u>
Foreman: <u>CHARL</u>	Report No: Time: <u>AM</u> Page 1 of 1
Workers? <u>4</u> How Many? <u>4</u>	Weather: Temp.: °F
Air Monitoring Personnel On-site: <u>JD</u>	Summary Project Status: <u>WINDOWS/GLOVE BAGS/TS</u>
	Other Personnel On-site: <u>GC/CONTRACTORS</u>

Items Observed (Work Practices & Procedures):

CREW PREPPING FOR WINDOW REMOVAL + GLOVE BAGGING OF TS IN NORTH WING CLEARANCE FOR OFFICE AREA 6705/AM CREW TO TEAR DOWN CONTAINMENT. ADDL BULK SAMPLE OF WALL MASTIC POSITIVE FOR ASBESTOS CONTENT. PAS TO REMOVE. 3 BUILDS OF WINDOWS REMOVED ON NORTHSIDE (TOTAL)

The individual signing certifies that the above information is correct and accurate.

 **Print or Type Name and Title**
JAY DOANE IH TECH
6.30.10

Authorized Signature Date



FIELD OBSERVATION REPORT

Contractor: DAS

PBS Site Observer(s): JAY DOANE

Contractor On-site Personnel:

Project Manager: STEVE

Foreman: CLARK

Workers? 1 How Many? 3

Air Monitoring Personnel On-site:

Project Name: NCSO CONCORD

Project No.: 21078.021

Phase No.: 003 Task No.:

Date: 06.29.10

Report No: Time: DAY Page 1 of 1

Weather: Temp.: °F

Summary Project Status: WINDOW REMOVAL

Other Personnel On-site: GC/DISTRICT

Items Observed (Work Practices & Procedures):

CREW WORKING ON REMOVAL OF WINDOWS ON NORTH SIDE OF BUILDING
BARRIER TAPE DEMARKATES WORK AREA, CREW IN PPE OF DEBRISABLE COVER
ALLS + 1/2 FACE RESPIRATOR w/ MAGENTA FILTERS

The individual signing certifies that the above information is correct and accurate.

Print or Type Name and Title

JAY J. DOANE 1H TECH
06.29.10

Authorized Signature

Date



FIELD OBSERVATION REPORT

Contractor: PAS

PBS Site Observer(s): JAY JOHNSON

Contractor On-site Personnel:

Project Manager: STEVE D

Foreman: CLARK

Workers? Y How Many? 5

Air Monitoring Personnel On-site:

Project Name: NCSO CONCORD

Project No.: 21078.021

Phase No. 003 Task:

Date: 06.28.10

Report No: Time: DAY Page 1 of 1

Weather: Temp.: °F

Summary Project Status: OFFICE CLEANING/WINDOWS

Other Personnel On-site:

Items Observed (Work Practices & Procedures):

JOJO PERFORMED VISUAL INSPECTION OF OFFICE WORK AREA. MAJOR
RESOLVE NEEDS WIPING. THE TEAM W/ CLARK W/ LOCK DOWN THE PBS
PERFORMS AGGRESSIVE TEM CLEANING. CLARK W/PAS IS REMOVING
EXAMPLES OF TYPES OF WINDOWS FOR SKYWARD WINDOW INSTALLERS

The individual signing certifies that the above information is correct and accurate.

Print or Type Name and Title

JAY JOHNSON HTECH
6.28.10

Authorized Signature Date



FIELD OBSERVATION REPORT

Contractor: PAS

PBS Site Observer(s): JAY DOANE

Contractor On-site Personnel:

Project Manager: STEVE D

Foreman: BLARK

Workers? Y How Many? 4

Air Monitoring Personnel On-site: JD

Project Name: NCSD CONCORD

Project No.: 21078.021

Phase No. 003 Task:

Date: 6.25.10

Report No: _____ Time: DAY Page 1 of 1

Weather: _____ Temp.: _____ °F

Summary Project Status: OFFICE/WINDOWS

Other Personnel On-site: _____

Items Observed (Work Practices & Procedures):

0745 CREW HAS TORN DOWN CONTAINMENT OF CAFETERIA. JASON HAS PROBLEM RE PAT IN KITCHEN - NEG TILE W/ YELLOW MASTIC. CREW TO CONTINUE DEMO IN OFFICE + BEGINS REMOVAL OF EXTERIOR WINDOWS

The individual signing certifies that the above information is correct and accurate.

Print or Type Name and Title
JAY J DOANE IH TECH
6.25.10

 Authorized Signature Date



FIELD OBSERVATION REPORT

Contractor: PAS

PBS Site Observer(s): JAY DEANE

Contractor On-site Personnel:

Project Manager: STEVE D

Foreman: CHARL R.

Workers? 4 How Many? 5

Air Monitoring Personnel On-site:

Project Name: MCSN CONDOR

Project No.: 21078.021

Phase No. 003 Task:

Date: 6.24.10

Report No: _____ Time: DAI Page 1 of 1

Weather: _____ Temp.: _____ °F

Summary Project Status: OFFICE DEMO

Other Personnel On-site:

Items Observed (Work Practices & Procedures):

0700 WORKERS DON PPE + CONTINUE DEMO OF GIP WITH BOARD SYSTEMS 0915 JASON W/SKYWARD HAS QUESTIONS RE: TSI + MATERIALS REMOVED SPLASH GUARDS + JOINTERS. 0950 PLUMBERS REMOVING CEILING HATED UNITS IN ROOM 13 IMPACT 4 HARD FITTING. REQUEST CLARK W/PAS TO HAVE WORKER W/HEPA VAC CLEAN IMPACTED AREA. STEVE TO SUBMIT BULK SAMPLES OF MATERIALS ON 4hr TURN AROUND. 1030 PAS IS WET WIPING + HEPA VACUUM ROOM 13. 110 CREW TO LUNCH 1200 CREW RETURNS, DONS PPE + RESUMES REMOVAL IN OFFICE AREA 1600 TEM RESULTS FOR CAFETERIA <70SPM 11/0AM CLARK

The individual signing certifies that the above information is correct and accurate.

Print or Type Name and Title

JAY DEANE LABORER

6.24.10

Authorized Signature

Date



FIELD OBSERVATION REPORT

Contractor: <u>PAS</u>	Project Name: <u>NCSA CONCORD</u>
PBS Site Observer(s): <u>JAY DOANE</u>	Project No.: <u>21078.021</u>
Contractor On-site Personnel:	Phase No. <u>003</u> Task:
Project Manager: <u>STEVE D</u>	Date: <u>6.23.10</u>
Foreman: <u>CHARLIE</u>	Report No: Time: <u>DAY</u> Page 1 of 1
Workers? <u>4</u> How Many? <u>5</u>	Weather: Temp.: °F
Air Monitoring Personnel On-site:	Summary Project Status: <u>CLEARANCE/OFFICE DEMO</u>
	Other Personnel On-site:

Items Observed (Work Practices & Procedures):

1000 VISUAL INSPECTION OF LOWER LEVEL CAFFETERIA. NO VISIBLE EVIDENCE OF ACM OBSERVED SLIGHT STAINING OF SLAB * FILLER LOCK DOWN APPLIED 1100 AGGRESSIVE ITEM SAMPLING 1330 SAMPLING COMPLETE. OFFICE CONTAINMENT COMPLETE REMOVAL OF GYP CEILING BRGWS

The individual signing certifies that the above information is correct and accurate.

Print or Type Name and Title
JAY J DOANE / H I T E C H
6.23.10
 Authorized Signature Date



FIELD OBSERVATION REPORT

Contractor: _____

Project Name: NCSI CONCORD

Project No.: 21078.021

PBS Site Observer(s): _____

Phase No. 003 Task: _____

Contractor On-site Personnel: _____

Date: 6.22.10

Project Manager: _____

Report No: _____ Time: _____ Page 1 of 1

Foreman: _____

Weather: _____ Temp.: °F

Workers? _____ How Many? 6

Summary Project Status: VAT DEM CAFFERIA

Air Monitoring Personnel On-site: _____

Other Personnel On-site: _____

Items Observed (Work Practices & Procedures):

0645 ON SITE PAS TO BELOW VAT/M REMOVAL IN CAFETERIA, WORK LEVEL OFF SITE TO ALJAB CAGEK 0845 ON SITE FOR 900 MTG 1000 GROSS REMOVAL OF VET COMPLETE 1100 CREW TO LUNCH 1200 CREW RESUMES MASTIC REMOVAL

The individual signing certifies that the above information is correct and accurate.

Print or Type Name and Title _____

[Signature] JAY DEANER - I H TECH
6.22.10

Authorized Signature _____ Date _____



FIELD OBSERVATION REPORT

Contractor: PAS

PBS Site Observer(s): JAY DOANE

Contractor On-site Personnel:

Project Manager: STEVE D

Foreman: CLARK

Workers? 4 How Many? to

Air Monitoring Personnel On-site:

Project Name: NCSD CONCORD ES

Project No.: 21078.021

Phase No. 003 Task:

Date: 06.21.10

Report No: _____ Time: _____ Page 1 of 1

Weather: _____ Temp.: _____ °F

Summary Project Status: PREP

Other Personnel On-site: CONTRACTORS/DISTRICT

Items Observed (Work Practices & Procedures):

0730 PBS ON-SITE - MEET W/STEVE D + JASON (ARCHITECT) + REP FOR PAS TO DISCUSS SCHEDULE + SCOPE, WALK WORK AREAS

0830 PBS OFF SITE TO 5 OTHER DISTRICT SITES 1015 PBS RETURNS TO COLLECT PRE-ABATEMENT AIR SAMPLES FROM WORK AREA

The individual signing certifies that the above information is correct and accurate.

Print or Type Name and Title JAY J. DOANE 1H TECH

6.21.10

Authorized Signature _____ Date _____



VISUAL INSPECTION CHECKLIST

(USE FOR VISUAL INSPECTION, PRE-ENCAPSULATION & FINAL INSPECTION)

Contractor: PAS
PBS Site Observer: JAY DOANE
Project Manager: STEVE D
Owner Contact: _____
Air Mont. Personnel On Site: JD

Project Name: NCSA COLLEGE ES
Project Number: 21078.021 PH003
Abatement Area: CAFETERIA
Attached Report No.: _____
Date: 6.23.10 Time: 1000

Contractor On-Site Personnel

Foreman: CLARK R Other Personnel On Site: _____

Type of Inspection: Visual Inspection, Pre-Encapsulation, Final Inspection, Other

Number of Workers: 5

Page 1 of 1

REMOVAL COMPLETE:
(DUST & BULK ACM REMOVED)
clean

INSIDE WORK AREA:

EQUIPMENT:

- Decks
- Beams
- Pipes
- Joints of floors
- Base of Columns
- Ledges
- Horizontal surfaces

Fixtures cleaned

Scaffolds & ladders wiped

- Critical barriers wiped clean
- Conduit cleaned
- Owner's equipment cleaned
- Walls free of ACM streaks
- Floor is dry
- Waste removed

- Framework wiped clean
- Negative air unit filters clean
- Negative air unit grills & wheels free of ACM residue.
- Hand tools removed from work area

DECONTAMINATION UNIT:

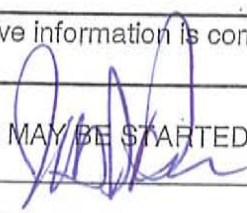
- Air locks clean
- Waste removed
- Shower clean
- Walls free of ACM
- Floor dry
- Equipment clean & removed

Condition of Regulated Work Area appears: Satisfactory Unsatisfactory

FIELD OBSERVATION NOTES: Include: 1) Work Practices, 2) Delays, 3) Items Discussed w/ Contractor, 4) Scope Changes, 5) Project Concerns

NO EVIDENCE OF ACM OBSERVED, SLIGHT STAINING OF SLAB & FILLER AREAS. VACUUM REMOVED VIA WET/MANUAL METHODS. PPE OF DISPOSABLE HEAD TO TOE COVERALS & 1/2 FACE RESPIRATORS W/ MAGENTA FILTERS

The individual signing has visually inspected this area and found that the above information is complete and accurate.

ANY DEFICIENCIES MUST BE CORRECTED BEFORE CLEARANCE MAY BE STARTED
Name: _____ Authorized Signature: 
Title: INTECH

Contractor



ASBESTOS WORKSITE CHECKLIST

(USE DURING WORKSITE PREPARATION AND AS A DAILY WORKSITE CHECKLIST)

Contractor: PAS
PBS Site Observer: JAY DOANE
Project Manager: STEVE D
Owner Contact: _____
Air Monit. Personnel On-Site: JD

Project Name: NCSD
Project Number: 21078.021 #003
Abatement Area: SAFFERLIA
Attached Report No.: _____
Date: 6.2.10 Time: _____ AM/PM

Contractor On-Site Personnel

Foreman: CHARK Other Personnel on Site: _____

Number of Workers: 5 Page _____ of _____

VAT/M REMOVAL

Type of Inspection: Worksite Preparation, Daily Worksite Checklist, Other
Pre-Abatement Air Samples: Yes, No

CLEAN ROOM:

- Warning Signs Posted
- Worksite Entry Logbook
- Decontamination, Respirator & Work Procedures Posted
- First Aid Kit
- Street Clothes Storage
- Sufficient Airlocks
- Hot & Cold Water with Controllable Taps
- Soap & Towels
- Drain with Filters or Wastewater Storage

WORK AREA:

- Critical Barriers Established
- Negative Pressure System Operational
Number of Negative Air Units 2
CFM of Negative Air Units _____
- Manometer Operational & Measuring Press. Diff.
- Ground Fault Interrupter on Electrical Items
- HVAC Isolated
- Emergency/Fire Exits Established
- Adequate Number of Fire Extinguishers

Decontamination Set-up and Construction Appearance:	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory
Work Area Set-up and Construction Appearance:	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory

Other (describe) _____ Other (describe) _____
FIELD OBSERVATION NOTES: Include: 1) Work practices; 2) Delays; 3) Items Discussed w/Contractor; 4) Scope Changes; 5) Project Concerns

PPR OF DISPOSABLE HEAD TO TOE COVERALLS, 1/2 FACE RESPIRATOR
w/ MAGENTA FILTERS

The individual signing has visually inspected this area and found that the above information is complete and accurate.

me: _____

Authorized Signature: 

cc: Contractor

Title: HITECO

**TAB 3: ASBESTOS/LEAD AIR AND BULK SAMPLE
INVENTORIES/LABORATORY REPORTS**



AIR SAMPLING PROCESS

Air samples are taken to determine representative fiber levels in the air, as an index to the potential asbestos content of the air. This is done to ensure the safety of the abatement workers and other personnel in the building, and to assist in determining if the building is safe for public occupancy after asbestos removal. The sampler is a pump and filter cassette arrangement through which the air is drawn. The fibers in the air are then deposited on the filter where they can be subsequently analyzed under a microscope.

EQUIPMENT

High volume air sampling pumps are a.c. - powered and used when large volumes of relatively clean air need to be sampled. These pumps typically operate at flow rates of about 10 liters of air per minute. Low volume pumps are battery operated and are primarily used for personal monitoring. They operate at 1.0 to 2.5 liters per minute flow rates.

PERSONAL EXPOSURE MONITORING

According to the OSHA code, an employer must perform monitoring to determine the exposure level for each employee, or at least the exposure for each type of task on the abatement project. Breathing zone air samples are collected to represent full shift exposure. This could be one sample or a series of samples representing a period of 6 to 7 hours or more.

AREA MONITORING

Ambient air samples are collected outside of abatement work areas to detect possible elevated fiber levels as a result of abatement. "Clearance" samples are a type of ambient air sample, and are taken prior to removing plastic isolation barriers to confirm that the space is safe to reoccupy without respiratory protection. The EPA recommended clearance level is 0.01 fiber per cubic centimeter (f/cc) of air for sample cassettes analyzed using phase contrast microscopy. In school buildings, if materials abated exceeds 160 square feet of asbestos-containing material (ACM) or 200 linear feet of ACM in a single containment, a total of five air samples are collected. The EPA clearance level is less than 70 structures per millimeter squared ($<70 \text{ Struct./mm}^2$) cumulative average of the set of five samples using transmission electron microscopy.

QUALITY CONTROL PROCEDURES

Air sampling pumps are calibrated before and after use to determine accurate flow rates. Microscopes are also frequently adjusted for proper operation. All equipment undergoes routine maintenance to ensure optimal functioning.

PBS analysts have completed air sampling/analysis training courses and participate in an internal quality control program, a national sample exchange program, and the American Industrial Hygiene Association's Proficiency Analytical Testing Program (PAT). This variety of quality control practices ensures the highest possible proficiency.

"Blanks" are unused filter cassettes that are periodically analyzed to determine the level of background fibers on the filters. All samples undergo chain-of-custody documentation. Records are kept of equipment calibration and maintenance.

AIR SAMPLE ASBESTOS ANALYSIS

Client: North Clackamas School District
 c/o JJ Henri Co.
 Milwaukie, OR 97222

Project: Construction Period Services
 Concord Elementary Hazmat Svcs

Report Date: 09/09/2010
 Date Received: 06/29/2010
 Client Project ID: N/A
 PBS Project No.: 21078.021 0003
 Page No.: 1 of 3

PBS LAB ID/ CLIENT ID	DATE, LOCATION WORKER NAME, ACTIVITY, PPE, ETC.	MINUTES SAMPLED	AVE. FLOW RATE (LPM)	AIR VOLUME (L)	FIBERS/ FIELDS	FIBERS PER cc (f/cc)
A21078.021-0001	6/21/2010 - Blank				0/100	0 fiber(s)
A21078.021-0002	6/21/2010 - Blank				0/100	0 fiber(s)
A21078.021-0003	6/21/2010 - Pre-abatement Basement; cafeteria A: 0.063 B: 0.035 C: 0.002	107	14.4 LPM	1541 L	62.5/100	0.02 f/cc
A21078.021-0004	6/21/2010 - Pre-abatement Main office A: 0.034 B: 0.019 C: 0.002	109	14.4 LPM	1570 L	34.5/100	0.011 f/cc
A21078.021-0005	6/22/2010 - Outside work area Decon entrance; cafeteria A: 0.016 B: 0.009 C: 0.001	279	9.8 LPM	2734 L	30.5/100	0.005 f/cc
A21078.021-0006	6/23/2010 - Clearance-TEM Lower level cafeteria vinyl floor tile/mastic	130	9.8 LPM	1274 L	See Attached TEM Analysis Report	
A21078.021-0007	6/23/2010 - Clearance-TEM Lower level cafeteria vinyl floor tile/mastic	130	9.8 LPM	1274 L	See Attached TEM Analysis Report	
A21078.021-0008	6/23/2010 - Clearance-TEM Lower level cafeteria vinyl floor tile/mastic	130	9.8 LPM	1274 L	See Attached TEM Analysis Report	
A21078.021-0009	6/23/2010 - Clearance-TEM Lower level cafeteria vinyl floor tile/mastic	130	9.8 LPM	1274 L	See Attached TEM Analysis Report	
A21078.021-0010	6/23/2010 - Clearance-TEM Lower level cafeteria vinyl floor tile/mastic	130	9.8 LPM	1274 L	See Attached TEM Analysis Report	
A21078.021-0011	6/24/2010 - Outside work area Office hall; gypsum/joint compound removal A: 0.016 B: 0.009 C: 0.002	226	6.9 LPM	1559 L	17/100	0.005 f/cc



AIR SAMPLE ASBESTOS ANALYSIS

Client: North Clackamas School District
 c/o JJ Henri Co.
 Milwaukie, OR 97222
 Project: Construction Period Services
 Concord Elementary Hazmat Svcs

Report Date: 09/09/2010
 Date Received: 07/30/2010
 Client Project ID: N/A
 PBS Project No.: 21078.021 0003
 Page No.: 2 of 3

PBS LAB ID/ CLIENT ID	DATE, LOCATION WORKER NAME, ACTIVITY, PPE, ETC.	MINUTES SAMPLED	AVE. FLOW RATE (LPM)	AIR VOLUME (L)	FIBERS/ FIELDS	FIBERS PER cc (f/cc)
A21078.021-0012	6/24/2010 - Clearance Room 13; hard fitting impact A: 0.013 B: 0.007 C: 0.002	106	14.4 LPM	1526 L	11.5/100	0.004 f/cc
A21078.021-0013	6/24/2010 - Outside work area Office hall; gypsum/joint compound removal A: 0.009 B: 0.005 C: 0.002	84	14.4 LPM	1210 L	8/100	0.003 f/cc
A21078.021-0014	6/28/2010 - Clearance-TEM Office; gypsum and joint compound removal	128	9.8 LPM	1254 L	See Attached TEM Analysis Report	
A21078.021-0015	6/28/2010 - Clearance-TEM Office; gypsum and joint compound removal	128	9.8 LPM	1254 L	See Attached TEM Analysis Report	
A21078.021-0016	6/28/2010 - Clearance-TEM Office; gypsum and joint compound removal	128	9.8 LPM	1254 L	See Attached TEM Analysis Report	
A21078.021-0017	6/28/2010 - Clearance-TEM Office; gypsum and joint compound removal	128	9.8 LPM	1254 L	See Attached TEM Analysis Report	
A21078.021-0018	6/28/2010 - Clearance-TEM Office; gypsum and joint compound removal	128	9.8 LPM	1254 L	See Attached TEM Analysis Report	
A21078.021-0019	6/28/2010 - Outside work area Room 12; glove bag A: 0.019 B: 0.01 C: 0.002	138	9.8 LPM	1352 L	16.5/100	0.006 f/cc
A21078.021-0020	6/28/2010 - Outside work area North wing hall; window removal A: 0.009 B: 0.005 C: 0.002	129	9.8 LPM	1264 L	8/100	0.003 f/cc
A21078.021-0021	6/28/2010 - Outside work area North wing hall; upstairs, window removal A: 0.013 B: 0.007 C: 0.002	148	9.8 LPM	1450 L	13/100	0.004 f/cc



AIR SAMPLE ASBESTOS ANALYSIS

Client: North Clackamas School District
c/o JJ Henri Co.
Milwaukie, OR 97222
Project: Construction Period Services
Concord Elementary Hazmat Svcs

Report Date: 09/09/2010
Date Received: 07/30/2010
Client Project ID: N/A
PBS Project No.: 21078.021 0003
Page No.: 3 of 3

PBS LAB ID/ CLIENT ID	DATE, LOCATION WORKER NAME, ACTIVITY, PPE, ETC.	MINUTES SAMPLED	AVE. FLOW RATE (LPM)	AIR VOLUME (L)	FIBERS/ FIELDS	FIBERS PER cc (f/cc)
--------------------------	---	--------------------	-------------------------	-------------------	-------------------	----------------------------

REVIEWED BY


Approved Signatory _____ Date 9/15/10

Steve Dilling

Name

L: Liters of air
LPM: Liters per minute
A: Interlaboratory 95% Upper Confidence Limit
B: Intralaboratory 95% Upper Confidence Limit
C: Limit of detection (LOD)
<LOD: Below the limit of detection
FILTER AREA (Square millimeters): 385
FIELD AREA (Square millimeters): 0.00785



Engineering +
Environmental

4412 SW Corbett Avenue
Portland, OR 97239 503.248.1939
Fax 866.727.0140



Lab/Cor Portland, Inc.
 4321 SW Corbett Ave., Ste A
 Portland, OR 97239

Analysis Report Cover
Final Report

Phone: (503) 224-5055
 Fax: (503) 228-8282
 http://www.labcorpdx.net

Asbestos and Environmental Analysis

Job Number: 101182 **PDX**
Client: PBS Engineering + Environmental
Address: 4412 SW Corbett Ave
Portland, OR 97239
Project Name: Concord E.S.
Project Num: 21078.021 Phase 0003
PO Number:
Sub Project:

Report Number: 101182R01
Report Date: 6/24/2010

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

THE CUMULATIVE AVERAGE FOR THIS SET OF SAMPLES IS: 8.7 S/MM2 (PASSES AHERA CLEARANCE CRITERIA)

Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
101182 - S1	21078.021-0006 - TEM-Clearance	AHERA		6/23/2010
101182 - S2	21078.021-0007 - TEM-Clearance	AHERA		6/23/2010
101182 - S3	21078.021-0008 - TEM-Clearance	AHERA		6/23/2010
101182 - S4	21078.021-0009 - TEM-Clearance	AHERA		6/23/2010
101182 - S5	21078.021-0010 - TEM-Clearance	AHERA		6/23/2010

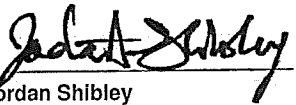
AHERA - Method 40-CFR Part 763 App. A, Subpart E Preparation and analysis of the above samples was conducted in accordance with the AHERA method for the identification of asbestos. Briefly, the samples were collapsed with a solution of N,N-dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in acetone until cleared of filter debris.

Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at approximate screen magnification of between 15,000x-20,000x, with an accelerating voltage of 100 KV. Grid opening measurements were performed at a magnification of approximately 550X. Grid preparations are evaluated by the analyst before commencing analysis. Proper preparations have >75% replicate coverage, have a 10% etch rate, have acceptable particulate loading and show no evidence of preparation remnants (chemical or material).

Disclaimer The results reported relate only to the samples tested or analyzed. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor Portland, Inc. the opportunity to provide you with the analytical services.

Reviewed by:

x 
 Jordan Shibley
 Analyst



Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Asbestos and Environmental Analysis

AHERA Summary Data

Job Number: 101182 PDX
Client: PBS Engineering + Environmental
Project Name: Concord E.S.

Report Number: 101182R01
Date Received: 6/23/2010

Lab/Cor Sample No.: S1

Client Sample No.: 21078.021-0006
Description: TEM-Clearance

Volume (L) : 1274
Lab Filter Area (mm²) : 385
Grid Openings Analyzed : 5
Average Grid Opening Area : 0.01385
Area Analyzed (mm²) : 0.06925
Analytical Sens. (struc/cc) : 0.00436
Dectection Limit. (struc/cc) : 0.01305

Analyst(s)	Analysis Date	Microscope	Magnification
JS	6/24/2010	H-7000	20000

Structure Type	Filter Density (s/mm ²)	Concentration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count' Prim/Total
AHERA >=0.5 to 5.0µm, 5:1	0	< 0.004	0 - 0.016 - Poisson	0
AHERA >=5.0µm, 5:1	0	< 0.004	0 - 0.016 - Poisson	0
AHERA TOTAL >=0.5, 5:1	0	< 0.004	0 - 0.016 - Poisson	0

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: 21078.021-0007
Description: TEM-Clearance

Volume (L) : 1274
Lab Filter Area (mm²) : 385
Grid Openings Analyzed : 5
Average Grid Opening Area : 0.01385
Area Analyzed (mm²) : 0.06925
Analytical Sens. (struc/cc) : 0.00436
Dectection Limit. (struc/cc) : 0.01305

Analyst(s)	Analysis Date	Microscope	Magnification
JS	6/24/2010	H-7000	20000

Structure Type	Filter Density (s/mm ²)	Concentration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count' Prim/Total
AHERA >=0.5 to 5.0µm, 5:1	0	< 0.004	0 - 0.016 - Poisson	0
AHERA >=5.0µm, 5:1	14.4	0.004	0 - 0.024 - Poisson	1
AHERA TOTAL >=0.5, 5:1	14.4	0.004	0 - 0.024 - Poisson	1

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * Analytical Sensitivity) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



Asbestos and Environmental Analysis

AHERA Summary Data

Job Number: 101182 PDX
Client: PBS Engineering + Environmental
Project Name: Concord E.S.

Report Number: 101182R01
Date Received: 6/23/2010

Lab/Cor Sample No.: S3

Client Sample No.: 21078.021-0008
Description: TEM-Clearance

Volume (L) : 1274
Lab Filter Area (mm2) : 385
Grid Openings Analyzed : 5
Average Grid Opening Area : 0.01385
Area Analyzed (mm2) : 0.06925
Analytical Sens. (struc/cc) : 0.00436
Dectection Limit. (struc/cc) : 0.01305

Analyst(s) Analysis Date Microscope Magnification
JS 6/24/2010 H-7000 20000

Structure Type	Filter Density (s/mm2)	Concentration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count' Prim/Total
AHERA >=0.5 to 5.0µm, 5:1	14.4	0.004	0 - 0.024 - Poisson	1
AHERA >=5.0µm, 5:1	0	< 0.004	0 - 0.016 - Poisson	0
AHERA TOTAL >=0.5, 5:1	14.4	0.004	0 - 0.024 - Poisson	1

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4

Client Sample No.: 21078.021-0009
Description: TEM-Clearance

Volume (L) : 1274
Lab Filter Area (mm2) : 385
Grid Openings Analyzed : 5
Average Grid Opening Area : 0.01385
Area Analyzed (mm2) : 0.06925
Analytical Sens. (struc/cc) : 0.00436
Dectection Limit. (struc/cc) : 0.01305

Analyst(s) Analysis Date Microscope Magnification
JS 6/24/2010 H-7000 20000

Structure Type	Filter Density (s/mm2)	Concentration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count' Prim/Total
AHERA >=0.5 to 5.0µm, 5:1	14.4	0.004	0 - 0.024 - Poisson	1
AHERA >=5.0µm, 5:1	0	< 0.004	0 - 0.016 - Poisson	0
AHERA TOTAL >=0.5, 5:1	14.4	0.004	0 - 0.024 - Poisson	1

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * Analytical Sensitivity) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

Asbestos and Environmental Analysis

AHERA Summary Data

Job Number: 101182 PDX
Client: PBS Engineering + Environmental
Project Name: Concord E.S.

Report Number: 101182R01
Date Received: 6/23/2010

Lab/Cor Sample No.: S5

Volume (L) : 1274

Client Sample No.: 21078.021-0010

Lab Filter Area (mm2) : 385

Description: TEM-Clearance

Grid Openings Analyzed : 5

Analyst(s) Analysis Date Microscope Magnification
JS 6/24/2010 H-7000 20000

Average Grid Opening Area : 0.01385

Area Analyzed (mm2) : 0.06925

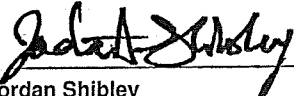
Analytical Sens. (struc/cc) : 0.00436

Detection Limit. (struc/cc) : 0.01305

Structure Type	Filter Density (s/mm2)	Concentration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count' Prim/Total
AHERA >=0.5 to 5.0µm, 5:1	0	< 0.004	0 - 0.016 - Poisson	0
AHERA >=5.0µm, 5:1	0	< 0.004	0 - 0.016 - Poisson	0
AHERA TOTAL >=0.5, 5:1	0	< 0.004	0 - 0.016 - Poisson	0

* Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

x 
Jordan Shibley
Analyst



Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

AHERA Raw Data

Job Number: 101182 PDX Method 40-CFR Part 763 App. A, Subpart E
Client: PBS Engineering + Environmental
Project Name: Concord E.S.
Project No.: 21078.021 Phase 0003

Report Number: 101182R01
Date Received: 6/23/2010

Lab/Cor Sample No: S1

Client Sample No: 21078.021-0006

Description: TEM-Clearance

Analyst(s) Analysis Date Microscope Magnification
JS 6/24/2010 H-7000 20000

Gr	No.	Loc.	ID	Prim Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G1	1	G3			NSD							
G1	2	H6			NSD							
G1	3	F8			NSD							
G2	4	H8			NSD							
G2	5	H4			NSD							



Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

AHERA Raw Data

Job Number: 101182 PDX Method 40-CFR Part 763 App. A, Subpart E
Client: PBS Engineering + Environmental
Project Name: Concord E.S.
Project No.: 21078.021 Phase 0003

Report Number: 101182R01
Date Received: 6/23/2010

Lab/Cor Sample No: S2

Client Sample No: 21078.021-0007

Description: TEM-Clearance

Analyst(s) Analysis Date Microscope Magnification
JS 6/24/2010 H-7000 20000

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count	Categories
G1	1	G2				NSD								
G1	2	H5				NSD								
G1	3	F7				NSD								
G2	4	H7	ADQ	1		Matrix 2-0	5	4.5	1.1	Tremolite	Mg, Si, Ca, Fe			AHERA, AHERA_5.0
						ItemType	ItemNum		Confirmed		Comment			
						Brightfield	H16221BF							
						Diffraction	H16221DF		JS 6/24/2010		0.53 nm row spacing			
						Spectra	H16221SP		JS 6/24/2010					
G2	5	D6				NSD								



Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

AHERA Raw Data

Job Number: 101182 PDX Method 40-CFR Part 763 App. A, Subpart E
Client: PBS Engineering + Environmental
Project Name: Concord E.S.
Project No.: 21078.021 Phase 0003

Report Number: 101182R01
Date Received: 6/23/2010

Lab/Cor Sample No: S3

Client Sample No: 21078.021-0008

Description: TEM-Clearance

Analyst(s) Analysis Date Microscope Magnification
JS 6/24/2010 H-7000 20000

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count	Categories
G1	1	D9				NSD								
G1	2	H9				NSD								
G1	3	H6	CDQ	1		Fiber	0.6	0.05	12	Chrysotile	Mg, Si			AHERA, AHERA_0.5-5.0
						ItemType	ItemNum		Confirmed		Comment			
						Brightfield	H16222BF							
						Diffraction	H16222DF		JS 6/24/2010		0.53 row spacing			
						Spectra	H16222SP		JS 6/24/2010					
G2	4	H5				NSD								
G2	5	D3				NSD								



Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

AHERA Raw Data

Job Number: 101182 PDX Method 40-CFR Part 763 App. A, Subpart E
Client: PBS Engineering + Environmental
Project Name: Concord E.S.
Project No.: 21078.021 Phase 0003

Report Number: 101182R01
Date Received: 6/23/2010

Lab/Cor Sample No: S4

Client Sample No: 21078.021-0009

Description: TEM-Clearance

Analyst(s) Analysis Date Microscope Magnification
JS 6/24/2010 H-7000 20000

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count	Categories
G1	1	C3				NSD								
G1	2	F3	CDQ	1		Fiber	1.7	0.05	34	Chrysotile	Mg, Si			AHERA, AHERA_0.5-5.0
						ItemType						Confirmed		Comment
						Brightfield								
						Diffraction						JS 6/24/2010		0.53 nm row spacing
						Spectra						JS 6/24/2010		
G1	3	H6				NSD								
G2	4	H7				NSD								
G2	5	F4				NSD								



Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

AHERA Raw Data

Job Number: 101182 PDX Method 40-CFR Part 763 App. A, Subpart E Report Number: 101182R01
 Client: PBS Engineering + Environmental Date Received: 6/23/2010
 Project Name: Concord E.S.
 Project No.: 21078.021 Phase 0003

Lab/Cor Sample No: S5

Client Sample No: 21078.021-0010

Description: TEM-Clearance

Analyst(s) Analysis Date Microscope Magnification
 JS 6/24/2010 H-7000 20000

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count	Categories
G1	1	H3				NSD								
G1	2	H7				NSD								
G1	3	D5				NSD								
G2	4	D3				NSD								
G2	5	G3				NSD								



Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

AHERA Raw Data

Job Number: 101182

PDX

Method 40-CFR Part 763 App. A, Subpart E

Report Number: 101182R01

Client: PBS Engineering + Environmental

Date Received: 6/23/2010

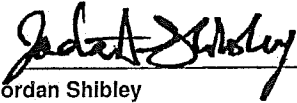
Project Name: Concord E.S.

Project No.: 21078.021 Phase 0003

Count Categories

AHERA	AHERA TOTAL >=0.5, 5:1	AHERA_0.5-5.0	AHERA >=0.5 to 5.0µm, 5:1	AHERA_5.0	AHERA >=5.0µm, 5:1
-------	------------------------	---------------	---------------------------	-----------	--------------------

Reviewed by:

x 

Jordan Shibley
Analyst



Engineering + Environmental

101182

TRANSMITTAL AND CHAIN OF CUSTODY FOR TEM SAMPLES

Project No.: 21078.021

Phase No.: 0003

Task No.:

Project Site/Location: Concord ES.

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: 6/23/10

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939 Fax: 503.248.0223

Name: Harmony Kilby
Authorized Signature: [Signature] Date: 6/23/10 2:30 pm

RECEIVER

Date Received: 6/23/10 2:55 pm

Company: LabCor Portland
Address: 4321 SW Corbett Ave.
Portland, OR 97239
(503) 224-5055

Name: STEPHANIE GOWEN
Authorized Signature: [Signature] Date: 6/23/10

Sender's ID No.	Brief Description	Air Volume	Receiver's ID No.
21078.021 - 0006	TEM Clearance	1274 L	
- 0007	↓	↓ L	
- 0008	↓	↓ L	
- 0009	↓	↓ L	
- 0010	↓	↓ L	

Please analyze the attached air samples, as listed on this form, for asbestos using Transmission Electron Microscopy, in accordance with A.H.E.R.A., CFR 40, Part 763, Appendix A to Subpart E, protocol, or the most recent version thereof. Please archive any remaining sample components for a minimum of thirty days after analysis date.

TURNAROUND DESIRED: 24 hr.

SPECIAL INSTRUCTIONS: SDJD



Lab/Cor Portland, Inc.
 4321 SW Corbett Ave., Ste A
 Portland, OR 97239

Analysis Report Cover
Final Report

Phone: (503) 224-5055
 Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

Job Number: 101252 **PDX**
Client: PBS Engineering + Environmental
Address: 4412 SW Corbett Ave
Portland, OR 97239
Project Name: Construction Period Services
Project Num: 21078.021 Phase 0003
PO Number:
Sub Project:

Report Number: 101252R01
Report Date: 6/29/2010

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

THE CUMULATIVE AVERAGE FOR THIS SET OF SAMPLES IS: 3.4 S/MM2 (PASSES AHERA CLEARANCE CRITERIA)

Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
101252 - S1	A21078.021-0014 - Clearance -TEM	AHERA		6/28/2010
101252 - S2	A21078.021-0015 - Clearance -TEM	AHERA		6/28/2010
101252 - S3	A21078.021-0016 - Clearance -TEM	AHERA		6/28/2010
101252 - S4	A21078.021-0017 - Clearance -TEM	AHERA		6/28/2010
101252 - S5	A21078.021-0018 - Clearance -TEM	AHERA		6/28/2010

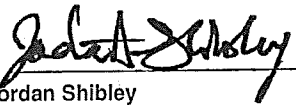
AHERA - Method 40-CFR Part 763 App. A, Subpart E Preparation and analysis of the above samples was conducted in accordance with the AHERA method for the identification of asbestos. Briefly, the samples were collapsed with a solution of N,N-dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in acetone until cleared of filter debris.

Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at approximate screen magnification of between 15,000x-20,000x, with an accelerating voltage of 100 KV. Grid opening measurements were performed at a magnification of approximately 550X. Grid preparations are evaluated by the analyst before commencing analysis. Proper preparations have >75% replicate coverage, have a 10% etch rate, have acceptable particulate loading and show no evidence of preparation remnants (chemical or material).

Disclaimer The results reported relate only to the samples tested or analyzed. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor Portland, Inc. the opportunity to provide you with the analytical services.

Reviewed by:

x 
 Jordan Shibley
 Analyst

Asbestos and Environmental Analysis

AHERA Summary Data

Job Number: 101252 PDX
 Client: PBS Engineering + Environmental
 Project Name: Construction Period Services

Report Number: 101252R01
 Date Received: 6/28/2010

Lab/Cor Sample No.: S1

Client Sample No.: A21078.021-0014
 Description: Clearance -TEM

Volume (L) : 1254
 Lab Filter Area (mm2) : 385
 Grid Openings Analyzed : 7
 Average Grid Opening Area : 0.008505
 Area Analyzed (mm2) : 0.059535
 Analytical Sens. (struc/cc) : 0.00516
 Detection Limit. (struc/cc) : 0.01542

Analyst(s)	Analysis Date	Microscope	Magnification
JS	6/29/2010	H-7000	20000

Structure Type	Filter Density (s/mm2)	Concentration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count ¹ Prim/Total
AHERA >=0.5 to 5.0µm, 5:1	16.8	0.005	0 - 0.029 - Poisson	1
AHERA >=5.0µm, 5:1	0	< 0.005	0 - 0.019 - Poisson	0
AHERA TOTAL >=0.5, 5:1	16.8	0.005	0 - 0.029 - Poisson	1

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: A21078.021-0015
 Description: Clearance -TEM

Volume (L) : 1254
 Lab Filter Area (mm2) : 385
 Grid Openings Analyzed : 7
 Average Grid Opening Area : 0.008505
 Area Analyzed (mm2) : 0.059535
 Analytical Sens. (struc/cc) : 0.00516
 Detection Limit. (struc/cc) : 0.01542

Analyst(s)	Analysis Date	Microscope	Magnification
JS	6/29/2010	H-7000	20000

Structure Type	Filter Density (s/mm2)	Concentration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count ¹ Prim/Total
AHERA >=0.5 to 5.0µm, 5:1	0	< 0.005	0 - 0.019 - Poisson	0
AHERA >=5.0µm, 5:1	0	< 0.005	0 - 0.019 - Poisson	0
AHERA TOTAL >=0.5, 5:1	0	< 0.005	0 - 0.019 - Poisson	0

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * Analytical Sensitivity) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

Asbestos and Environmental Analysis

AHERA Summary Data

Job Number: 101252 PDX
 Client: PBS Engineering + Environmental
 Project Name: Construction Period Services

Report Number: 101252R01
 Date Received: 6/28/2010

Lab/Cor Sample No.: S3
 Client Sample No.: A21078.021-0016
 Description: Clearance -TEM

Volume (L) : 1254
 Lab Filter Area (mm2) : 385
 Grid Openings Analyzed : 7
 Average Grid Opening Area : 0.008505
 Area Analyzed (mm2) : 0.059535
 Analytical Sens. (struc/cc) : 0.00516
 Detection Limit. (struc/cc) : 0.01542

Analyst(s)	Analysis Date	Microscope	Magnification
JS	6/29/2010	H-7000	20000

Structure Type	Filter Density (s/mm2)	Concentration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count ¹ Prim/Total
AHERA >=0.5 to 5.0µm, 5:1	0	< 0.005	0 - 0.019 - Poisson	0
AHERA >=5.0µm, 5:1	0	< 0.005	0 - 0.019 - Poisson	0
AHERA TOTAL >=0.5, 5:1	0	< 0.005	0 - 0.019 - Poisson	0

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4
 Client Sample No.: A21078.021-0017
 Description: Clearance -TEM

Volume (L) : 1254
 Lab Filter Area (mm2) : 385
 Grid Openings Analyzed : 7
 Average Grid Opening Area : 0.008505
 Area Analyzed (mm2) : 0.059535
 Analytical Sens. (struc/cc) : 0.00516
 Detection Limit. (struc/cc) : 0.01542

Analyst(s)	Analysis Date	Microscope	Magnification
JS	6/29/2010	H-7000	20000

Structure Type	Filter Density (s/mm2)	Concentration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count ¹ Prim/Total
AHERA >=0.5 to 5.0µm, 5:1	0	< 0.005	0 - 0.019 - Poisson	0
AHERA >=5.0µm, 5:1	0	< 0.005	0 - 0.019 - Poisson	0
AHERA TOTAL >=0.5, 5:1	0	< 0.005	0 - 0.019 - Poisson	0

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

¹ One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * Analytical Sensitivity) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

Asbestos and Environmental Analysis

AHERA Summary Data

Job Number: 101252 PDX
 Client: PBS Engineering + Environmental
 Project Name: Construction Period Services

Report Number: 101252R01
 Date Received: 6/28/2010

Lab/Cor Sample No.: S5

Volume (L) : 1254

Client Sample No.: A21078.021-0018

Lab Filter Area (mm2) : 385

Description: Clearance -TEM

Grid Openings Analyzed : 7

Analyst(s)	Analysis Date	Microscope	Magnification
JS	6/29/2010	H-7000	20000

Average Grid Opening Area : 0.008505

Area Analyzed (mm2) : 0.059535

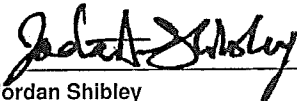
Analytical Sens. (struc/cc) : 0.00516

Detection Limit. (struc/cc) : 0.01542

Structure Type	Filter Density (s/mm2)	Concentration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count' Prim/Total
AHERA >=0.5 to 5.0µm, 5:1	0	< 0.005	0 - 0.019 - Poisson	0
AHERA >=5.0µm, 5:1	0	< 0.005	0 - 0.019 - Poisson	0
AHERA TOTAL >=0.5, 5:1	0	< 0.005	0 - 0.019 - Poisson	0

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

x 
 Jordan Shibley
 Analyst

One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ((Struc count) * Analytical Sensitivity)) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

AHERA Raw Data

Job Number: 101252 PDX Method 40-CFR Part 763 App. A, Subpart E Report Number: 101252R01
 Client: PBS Engineering + Environmental Date Received: 6/28/2010
 Project Name: Construction Period Services
 Project No.: 21078.021 Phase 0003

Lab/Cor Sample No: S1

Client Sample No: A21078.021-0014

Description: Clearance -TEM

Analyst(s) Analysis Date Microscope Magnification
 JS 6/29/2010 H-7000 20000

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count	Categories
G1	1	B20				NSD								
G1	2	B24				NSD								
G1	3	E2				NSD								
G1	4	E9				NSD								
G2	5	B21	CDQ	1		Fiber	2	0.05	40	Chrysotile	Mg, Si			AHERA, AHERA_0.5-5.0
						ItemType	ItemNum				Confirmed	Comment		
						Brightfield	H16432BF							
						Diffraction	H16432DF			JS	6/29/2010	0.53 nm row spacing		
						Spectra	H16432SP			JS	6/29/2010			
G2	6	E10				NSD								
G2	7	E21				NSD								



Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

AHERA Raw Data

Job Number: 101252 PDX Method 40-CFR Part 763 App. A, Subpart E Report Number: 101252R01
 Client: PBS Engineering + Environmental Date Received: 6/28/2010
 Project Name: Construction Period Services
 Project No.: 21078.021 Phase 0003

Lab/Cor Sample No: S2

Client Sample No: A21078.021-0015

Description: Clearance -TEM

Analyst(s)	Analysis Date	Microscope	Magnification
JS	6/29/2010	H-7000	20000

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count	Categories
G1	1	B22				NSD								
G1	2	E4				NSD								
G1	3	F10				NSD								
G1	4	F20				NSD								
G2	5	F15				NSD								
G2	6	H4				NSD								
G2	7	E12				NSD								



Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

AHERA Raw Data

Job Number: 101252 PDX Method 40-CFR Part 763 App. A, Subpart E
Client: PBS Engineering + Environmental
Project Name: Construction Period Services
Project No.: 21078.021 Phase 0003

Report Number: 101252R01
Date Received: 6/28/2010

Lab/Cor Sample No: S3

Client Sample No: A21078.021-0016

Description: Clearance -TEM

Analyst(s) Analysis Date Microscope Magnification
JS 6/29/2010 H-7000 20000

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count	Categories
G1	1	A24				NSD								
G1	2	D8				NSD								
G1	3	D24				NSD								
G1	4	E17				NSD								
G2	5	E12				NSD								
G2	6	E14				NSD								
G2	7	F20				NSD								

Asbestos and Environmental Analysis

AHERA Raw Data

Job Number: 101252 PDX Method 40-CFR Part 763 App. A, Subpart E Report Number: 101252R01
 Client: PBS Engineering + Environmental Date Received: 6/28/2010
 Project Name: Construction Period Services
 Project No.: 21078.021 Phase 0003

Lab/Cor Sample No: S4

Client Sample No: A21078.021-0017

Description: Clearance -TEM

Analyst(s) Analysis Date Microscope Magnification
 JS 6/29/2010 H-7000 20000

Gr	No.	Loc.	ID	Prim Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count	Categories
G1	1	F5			NSD								
G1	2	E3			NSD								
G1	3	E6			NSD								
G1	4	E16			NSD								
G2	5	B20			NSD								
G2	6	E3			NSD								
G2	7	E11			NSD								



Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

AHERA Raw Data

Job Number: 101252 **PDX** **Method** 40-CFR Part 763 App. A, Subpart E
Client: PBS Engineering + Environmental
Project Name: Construction Period Services
Project No.: 21078.021 Phase 0003

Report Number: 101252R01
Date Received: 6/28/2010

Lab/Cor Sample No: S5

Client Sample No: A21078.021-0018

Description: Clearance -TEM

Analyst(s) **Analysis Date** **Microscope** **Magnification**
JS 6/29/2010 H-7000 20000

Gr	No.	Loc.	ID	Prim Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G1	1	B20			NSD							
G1	2	E4			NSD							
G1	3	F10			NSD							
G1	4	E24			NSD							
G2	5	I5			NSD							
G2	6	E22			NSD							
G2	7	E8			NSD							



Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

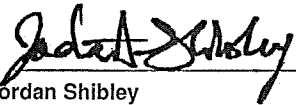
AHERA Raw Data

Job Number: 101252 PDX Method 40-CFR Part 763 App. A, Subpart E Report Number: 101252R01
Client: PBS Engineering + Environmental Date Received: 6/28/2010
Project Name: Construction Period Services
Project No.: 21078.021 Phase 0003

Count Categories

AHERA AHERA TOTAL >=0.5, 5:1 AHERA_0.5-5.0 AHERA >=0.5 to 5.0µm, 5:1 AHERA_5.0 AHERA >=5.0µm, 5:1

Reviewed by:

x 

Jordan Shibley
Analyst



101252

TRANSMITTAL AND CHAIN OF CUSTODY FOR AIR TEM SAMPLES

Project No.: 21078.021 Phase 0003

Project Site: Construction Period Services

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 28, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Harmony Kilby (Signature)

Name

(Signature)

Authorized Signature

6/28/10 3:15 pm

Date

RECEIVER

Date Received: 6/28/10 3:25pm

Company: LabCor Portland
Address:

STEPHANIE GLOWEN (Signature)

Name

(Signature)

Authorized Signature

6/28/10

Date

Table with 4 columns: Sender's ID No., Brief Description, Receiver's ID No., Air Volume. Contains 5 rows of data for Clearance-TEM samples.

Please analyze the attached 5 air sample(s), as listed on this form, for asbestos using Transmission Electron Microscopy, in accordance with A.H.E.R.A., CFR 40, Part 763, Appendix A to Subpart E, protocol, or the most recent version thereof. Please archive any remaining sample components for a minimum of thirty days after analysis date.

TURNAROUND DESIRED: 24 hour

SPECIAL INSTRUCTIONS:

SD/UD (circled)

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>	
21078.021-0001	Wall and Ceiling Plaster	Main floor; south custodial closet, plaster and skim		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	fine compact powder, white		No Asbestos Detected
	Layer 2	loose cementitious powder, light gray	No Asbestos Detected		
21078.021-0002	Wall and Ceiling Plaster	Main floor; main office, west wall, plaster and skim		Lab Cor	
		Layer:	Description:		Analysis:
	Layer 1	light gray coarse cementitious material	No Asbestos Detected		
21078.021-0003	Wall and Ceiling Plaster	Main floor; room 25, plaster and skim		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	coarse cementitious material, white		No Asbestos Detected
	Layer 2	loose cementitious powder, white	No Asbestos Detected		
21078.021-0004	Glued-on Ceiling Tiles (1)	Main floor; south hall, 12"x12" fissured ceiling tiles with yellow mastic		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	compact fibrous material, white		No Asbestos Detected
	Layer 2	mastic, yellow	No Asbestos Detected		
21078.021-0005	Glued-on Ceiling Tiles (1)	Main floor; north hall, 12"x12" fissured ceiling tiles with yellow mastic		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	compact fibrous material, white		No Asbestos Detected
	Layer 2	mastic, yellow	No Asbestos Detected		
21078.021-0006	Glued-on Ceiling Tiles (1)	Main floor; office, 12"x12" fissured ceiling tiles with yellow mastic		Lab Cor	
		Layer:	Description:		Analysis:
		Layer 1	compact fibrous material, white		No Asbestos Detected
	Layer 2	mastic, yellow	No Asbestos Detected		
21078.021-0007	Nailed-on Ceiling Tiles	Main floor; room 25, 2'x4' nailed on ceiling tiles		Lab Cor	
		Layer:	Description:		Analysis:
	Layer 1	brown compressed fibers	No Asbestos Detected		
21078.021-0008	Vinyl Floor Tile (1)	Main floor; room 25, under heater, green floor tile with black mastic		Lab Cor	
		Layer:	Description:		Analysis:
	Layer 1	dark gray compressed fibers	No Asbestos Detected		

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.021-0009	Felt Wrap Pipe Insulation	Main floor; room 25, under heater, grey felt		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	vinyl, green	7% Chrysotile
		Layer 2	fibrous tarry backing, black	No Asbestos Detected
21078.021-0010	Caulk	Main floor; room 25, window between aluminum frame and brick, grey caulk		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	gray soft rubbery material	No Asbestos Detected
21078.021-0011	Caulk	Main floor; window between transite panel and aluminum frame, grey caulk		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	gray/brown soft rubbery material w/ coating	5% Chrysotile
21078.021-0012	Gypsum Wallboard/Joint Compd.	Main floor; north boys restroom, gypsum and joint compound		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fine compact powder w/ paint, offwhite	No Asbestos Detected
		Layer 2	compact chalky material with paper, white	No Asbestos Detected
21078.021-0013	Gypsum Wallboard/Joint Compd.	Main floor; health room, gypsum and joint compound		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fine compact powder w/ paint, offwhite	<1% Chrysotile
		Layer 2	compact chalky material with paper, white	No Asbestos Detected
		Comments:	Point Count Total % Asbestos (Layer 1): 1.25%; GRR Composite Total % Asbestos: 0.1%	
21078.021-0014	Gypsum Wallboard/Joint Compd.	Main floor; room 28, gypsum and joint compound		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fine compact powder, offwhite	No Asbestos Detected
		Layer 2	compact chalky material with paper, white	No Asbestos Detected
21078.021-0015	Wall Tile	North staircase wall; wall tile		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	tan vinyl	No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.021-0016	Gypsum Wallboard/Joint Compd.	Lower level; room 15, behind ceiling tile, gypsum and joint compound		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fine compact powder, white	No Asbestos Detected	
	Layer 2	compact chalky material, white	No Asbestos Detected	
21078.021-0017	Glued-on Ceiling Tiles (1)	Lower level; room 15, 12"x12" fissured ceiling tile with yellow mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compact fibrous material, white	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
21078.021-0018	Wall and Ceiling Plaster	Lower level; room 15, plaster and skim		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	coarse cementitious material, white	No Asbestos Detected	
	Layer 2	loose cementitious powder, white	No Asbestos Detected	
21078.021-0019	Wood Panel Mastic	Main floor; main office behind wood paneling, gold mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	yellow mastic	No Asbestos Detected	
21078.021-0020	Covebase/Mastic	Main floor; health room, 4" tan covebase with white mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, tan	No Asbestos Detected	
	Layer 2	mastic w/ paint, offwhite/black	No Asbestos Detected	
21078.021-0021	Tackboard Mastic	Main floor; hall outside health room behind tackboard, gold mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	orange mastic	No Asbestos Detected	
21078.021-0022	Vinyl Floor Tile/Mastic	Main floor; main office under OSB underlayment, green tile with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	vinyl tile, green	6% Chrysotile	
	Layer 2	fibrous tarry backing, black	No Asbestos Detected	
21078.021-0023	Sink Undercoating	Main floor; health room, black sink undercoating		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	black brittle mastic	2% Chrysotile	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>	
21078.021-0024	Sink Undercoating	Main floor; room 21, black sink undercoating		Lab Cor	
		Layer: Layer 1	Description: black brittle mastic		Analysis: No Asbestos Detected
21078.021-0025	Transite Panel	Main floor; room 21, above windows, transite panel		Lab Cor	
		Layer: Layer 1	Description: light gray loose powder		Analysis: 5% Chrysotile
21078.021-0026	Gypsum Wallboard/Joint Compd.	Main floor; room 20, gypsum and joint compound		Lab Cor	
		Layer: Layer 1	Description: fine compact powder, white		Analysis: No Asbestos Detected
		Layer: Layer 2	Description: loose chalky powder		Analysis: No Asbestos Detected
21078.021-0027	Corkboard Mastic	Main floor; room 25, corkboard mastic		Lab Cor	
		Layer: Layer 1	Description: interwoven fibers w/ paint, white		Analysis: No Asbestos Detected
		Layer: Layer 2	Description: mastic, dark gray		Analysis: No Asbestos Detected
		Layer: Layer 3	Description: cork material, light brown		Analysis: No Asbestos Detected
		Layer: Layer 4	Description: mastic, w/ powder, dark gray		Analysis: No Asbestos Detected
21078.021-0028	Sink Undercoating	Main floor; room 25, grey sink undercoating		Lab Cor	
		Layer: Layer 1	Description: gray loose shavings		Analysis: 6% Chrysotile
21078.021-0029	Sheet Floor Covering (1)	Main floor; north custodial closet, sheet vinyl with small aggregate pattern		Lab Cor	
		Layer: Layer 1	Description: vinyl, gray		Analysis: No Asbestos Detected
		Layer: Layer 2	Description: mastic w/ wood fibers, yellow		Analysis: No Asbestos Detected
21078.021-0030	Vinyl Floor Tile/Mastic (1)	Main floor; computer lab, 9"x9" grey floor tile with black mastic		Lab Cor	
		Layer: Layer 1	Description: vinyl tile, gray		Analysis: 4% Chrysotile
		Layer: Layer 2	Description: mastic, black		Analysis: No Asbestos Detected
		Layer: Layer 3	Description: fibrous tarry backing, black		Analysis: No Asbestos Detected
21078.021-0031	Vinyl Floor Tile/Mastic (2)	Main floor; computer lab, 9"x9" dark grey floor tile with black mastic		Lab Cor	
		Layer: Layer 1	Description: vinyl tile, gray		Analysis: 4% Chrysotile
		Layer: Layer 2	Description: fibrous tarry backing, black		Analysis: No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.021-0032	Ceiling Tile	Main floor; library office, ceiling tile		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	light tan compact fibrous material	No Asbestos Detected
21078.021-0033	Sink Undercoating	Lower level; room 19, grey sink undercoating		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	gray loose shavings	6% Chrysotile
21078.021-0034	Sink Undercoating	Lower level; room 15, coat area, white sink undercoating		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	offwhite fibrous mastic	No Asbestos Detected
21078.021-0035	Sheet Floor Covering (1)	Lower level; room 15, coat area, sheet vinyl with small aggregate pattern		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	vinyl, gray	No Asbestos Detected
		Layer 2	fibrous backing, gray	No Asbestos Detected
		Layer 3	mastic, yellow	No Asbestos Detected
21078.021-0036	Covebase/Mastic	Lower level; room 15, coat area, black covebase mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	mastic, yellow	No Asbestos Detected
		Layer 2	mastic, black	3% Chrysotile
21078.021-0037	Tackboard Mastic	Lower level; hall outside room 16, behind tackboard, gold mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	compressed fibers, light brown	No Asbestos Detected
		Layer 2	mastic, light brown	No Asbestos Detected
21078.021-0038	Gypsum Wallboard/Joint Compd.	Lower level; room 16, gypsum and joint compound		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fine compact powder w/ paint, white	No Asbestos Detected
		Layer 2	compact chalky material, offwhite	No Asbestos Detected
21078.021-0039	Sheet Floor Covering (2)	Lower level; room 17, grey sheet vinyl with large aggregate pattern		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	vinyl, gray	No Asbestos Detected
		Layer 2	fibrous backing, gray	No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.021-0040	Gypsum Wallboard/Joint Compd.	Lower level; room 19, gypsum and joint compound		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fine compact powder, white	<1% Chrysotile
		Layer 2	compact chalky, offwhite	No Asbestos Detected
	Comments:	XRD Asbestos Weight Percent (Layer 1): 2.20%; GRR Composite Total % Asbestos: 0.12%		
21078.021-0041	Nailed-on Ceiling Tile	Lower level; cafeteria, nailed-on ceiling tile		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	golden brown compressed fibers	No Asbestos Detected
21078.021-0042	Counter Undercoating	Lower level; kitchen, under dishwasher counter, black undercoating		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	black mastic	2% Chrysotile
21078.021-0043	Vinyl Floor Tile/Mastic (3)	Lower level; 12"x12" floor tile with brown streaks and black mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	vinyl tile, white	No Asbestos Detected
		Layer 2	mastic, black	No Asbestos Detected
21078.021-0044	Vinyl Floor Tile/Mastic (4)	Lower level; 12"x12" floor tile with brown specks and black mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	vinyl tile, white	No Asbestos Detected
		Layer 2	mastic, black	No Asbestos Detected
21078.021-0045	Sealant	Room 16; exterior window, at aluminum window seam, grey sealant		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	gray sticky mastic	6% Chrysotile
21078.021-0046	Sealant	Room 17; exterior window, between aluminum frame and brick, top layer, grey sealant		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	soft rubbery material, gray	No Asbestos Detected
		Layer 2	mastic, black	2% Chrysotile

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.021-0047	Sealant	Room 17; exterior window, between aluminum frame and brick, bottom layer, black sealant		Lab Cor
		Layer: Layer 1	Description: dark brown sticky mastic	Analysis: 2% Chrysotile
21078.021-0048	Sealant	Room 14; exterior window, at ventilator exhaust, grey sealant		Lab Cor
		Layer: Layer 1	Description: gray sticky mastic	Analysis: 6% Chrysotile
21078.021-0049	Sealant	Room 14; exterior window, between aluminum frame and brick, grey sealant		Lab Cor
		Layer: Layer 1	Description: soft rubbery material, gray	Analysis: No Asbestos Detected
		Layer: Layer 2	Description: sticky mastic, gray	Analysis: 6% Chrysotile
21078.021-0050	Sealant	Room 14; exterior window, at aluminum window seam, grey sealant		Lab Cor
		Layer: Layer 1	Description: gray sticky mastic	Analysis: 6% Chrysotile
21078.021-0051	Sealant	Room 15; exterior window, at ventilator exhaust, grey sealant		Lab Cor
		Layer: Layer 1	Description: gray sticky mastic	Analysis: 6% Chrysotile
21078.021-0052	Sealant	Room 15; exterior window, between aluminum frame and brick, grey sealant		Lab Cor
		Layer: Layer 1	Description: soft rubbery material, gray	Analysis: No Asbestos Detected
		Layer: Layer 2	Description: soft rubbery material, light gray	Analysis: 5% Chrysotile
21078.021-0053	Sealant	Room 15; exterior window, between aluminum window seam, grey sealant		Lab Cor
		Layer: Layer 1	Description: light gray soft rubbery material	Analysis: 5% Chrysotile
21078.021-0054	Sealant	Ground floor near east access ramp; exterior window, between aluminum frame and brick, grey sealant		PBS ARCHIVE
		Layer:	Description:	Analysis:

Comments: Sample archived; not analyzed per request.

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.021-0055	Window Glazing Compound	Upper level; gym window, east, exterior window, grey window glazing		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	gray soft caulking material w/ paint	2% Chrysotile	
21078.021-0056	Window Glazing Compound	Upper level; gym window, east, exterior window, grey window glazing		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	white soft caulking material w/ paint	1% Chrysotile	
21078.021-0057	Window Glazing Compound	Upper level; gym window, east, exterior window, grey window glazing		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	white soft caulking material w/ paint	1% Chrysotile	
	Comments:	Point Count Total % Asbestos: 1%		
21078.021-0058	Sealant	Upper level; gym window, east, exterior window, between frame and brick, grey sealant		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	dark brown soft rubbery material w/ paint	No Asbestos Detected	
21078.021-0059	Boiler Insulation	Boiler room; jacket and insulation		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	loose fibrous material, yellow	No Asbestos Detected	
	Layer 2	fibrous backing w/ paint, white	No Asbestos Detected	
	Layer 3	interwoven fibers w/ foil, white.silver	No Asbestos Detected	
21078.021-0060	Vinyl Floor Tile/Mastic	Cafeteria; 12" cream tile with mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	vinyl tile, white	No Asbestos Detected	
	Layer 2	mastic, black	4% Chrysotile	
21078.021-0061	Covebase/Mastic	Cafeteria; 5" black covebase		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, black	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.021-0062	3-Tab Roofing	Roof edges; composition 3-tab		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	rocky fibrous tar, black	No Asbestos Detected
		Layer 2	rocky fibrous tar, black/gray	3% Chrysotile
21078.021-0063	Built-up Roofing	Roof top; silver paint and tar		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	paint, silver	No Asbestos Detected
		Layer 2	tar, black	No Asbestos Detected
21078.021-0064	Vinyl Floor Tile/Mastic	Cafeteria; 12" cream with black mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	vinyl tile, tan	No Asbestos Detected
		Layer 2	mastic, black	4% Chrysotile

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net*Asbestos and Environmental Analysis***Client:** PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239**Report Number:** 100191R02
Report Date: 02/04/2010**Job Number:** 100191**P.O. No:** n/a**Project Name:****Project Number:** 21078.021 Phase 0002**Project Notes:**

Client Sample ID: 21078.021-0001	Sample ID: S1	Date Analyzed: 02/04/2010	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
fine compact powder, white	10%	-	-
			NAD
Layer 02			
loose cementitious powder, light gray	90%	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic Other
			Matrix
Layer 01	-	-	-
			100%
Layer 02	-	2%	-
			98%

Client Sample ID: 21078.021-0002	Sample ID: S2	Date Analyzed: 02/04/2010	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
coarse cementitious material, light gray	100%	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic Other
			Matrix
	-	2%	-
			98%

Client Sample ID: 21078.021-0003	Sample ID: S3	Date Analyzed: 02/04/2010	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
coarse cementitious material, white	40%	-	-
			NAD
Layer 02			
loose cementitious powder, white	60%	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic Other
			Matrix
Layer 01	Trace	2%	-
			98%
Layer 02	-	3%	-
			97%

Job Number: 100191

Report Number: 100191R02

Report Date: 02/04/2010

Client Sample ID: 21078.021-0004		Sample ID: S4			Date Analyzed: 02/04/2010			
Client Sample Description:					Analyst: Stephanie Golden			
Asbestos Mineral Fibers		Percent of Sample:		Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01								
compact fibrous material, white		95%		-	-	-	NAD	
Layer 02								
mastic, yellow		5%		-	-	-	NAD	
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	60%	5%	8%	-	-	-	-	27%
Layer 02	-	1%	-	-	-	-	-	99%

Client Sample ID: 21078.021-0005		Sample ID: S5			Date Analyzed: 02/04/2010			
Client Sample Description:					Analyst: Stephanie Golden			
Asbestos Mineral Fibers		Percent of Sample:		Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01								
compact fibrous material, white		95%		-	-	-	NAD	
Layer 02								
mastic, yellow		5%		-	-	-	NAD	
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	60%	5%	10%	-	-	-	-	25%
Layer 02	-	1%	-	-	-	-	-	99%

Client Sample ID: 21078.021-0006		Sample ID: S6			Date Analyzed: 02/04/2010			
Client Sample Description:					Analyst: Stephanie Golden			
Asbestos Mineral Fibers		Percent of Sample:		Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01								
compact fibrous material, white		95%		-	-	-	NAD	
Layer 02								
mastic, yellow		5%		-	-	-	NAD	
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	60%	5%	9%	-	-	-	-	26%
Layer 02	-	1%	-	-	-	-	-	99%

Client Sample ID: 21078.021-0007		Sample ID: S7			Date Analyzed: 02/04/2010			
Client Sample Description:					Analyst: Stephanie Golden			
Asbestos Mineral Fibers		Percent of Sample:		Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous								
compressed fibers, brown		100%		-	-	-	NAD	
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	100%	-	-	-	-	-	0%

Job Number: 100191

Report Number: 100191R02

Report Date: 02/04/2010

Client Sample ID: 21078.021-0008		Sample ID: S8			Date Analyzed: 02/04/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
compressed fibers, dark gray	100 %	-	-	-	NAD		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix		
	-	-	-	100 %	-	0 %	

Client Sample ID: 21078.021-0009		Sample ID: S9			Date Analyzed: 02/04/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01							
vinyl, green	80 %	7 %	-	-	7 %		
Layer 02							
fibrous tarry backing, black	20 %	-	-	-	NAD		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix		
Layer 01	-	-	-	-	-	93 %	
Layer 02	-	70 %	-	-	-	30 %	

Client Sample ID: 21078.021-0010		Sample ID: S10			Date Analyzed: 02/04/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
soft rubbery material, gray	100 %	-	-	-	NAD		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix		
	-	-	-	-	-	100 %	

Client Sample ID: 21078.021-0011		Sample ID: S11			Date Analyzed: 02/04/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
soft rubbery material w/ coating, gray/brown	100 %	5 %	-	-	5 %		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix		
	-	-	-	-	-	95 %	

Job Number: 100191

Report Number: 100191R02

Report Date: 02/04/2010

Client Sample ID: 21078.021-0012		Sample ID: S12			Date Analyzed: 02/04/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01							
fine compact powder w/ paint, offwhite	15%	-	-	-			NAD
Layer 02							
compact chalky material with paper, white	85%	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	1%	2%	-	-	-	-	97%
Layer 02	2%	5%	-	-	-	-	93%

Client Sample ID: 21078.021-0013		Sample ID: S13			Date Analyzed: 02/04/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01							
fine compact powder w/ paint, offwhite	30%	Trace	-	-			< 1%
Layer 02							
compact chalky material with paper, white	70%	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	-	-	-	-	-	100%
Layer 02	-	6%	-	-	-	-	94%

Client Sample ID: 21078.021-0014		Sample ID: S14			Date Analyzed: 02/04/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01							
fine compact powder, offwhite	5%	-	-	-			NAD
Layer 02							
compact chalky material with paper, white	95%	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	3%	-	-	-	-	97%
Layer 02	2%	6%	-	-	-	-	92%

Client Sample ID: 21078.021-0015		Sample ID: S15			Date Analyzed: 02/04/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
vinyl, tan	100%	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	-	-	-	-	-	100%

Job Number: 100191

Report Number: 100191R02
Report Date: 02/04/2010

Client Sample ID: 21078.021-0016		Sample ID: S16			Date Analyzed: 02/04/2010		
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
fine compact powder, white	20 %	-	-	-			NAD
Layer 02							
compact chalky material, white	80 %	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	1 %	-	-	-	-	99 %
Layer 02	1 %	6 %	-	-	-	-	93 %

Client Sample ID: 21078.021-0017		Sample ID: S17			Date Analyzed: 02/04/2010		
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
compact fibrous material, white	90 %	-	-	-			NAD
Layer 02							
mastic, yellow	10 %	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	60 %	5 %	12 %	-	-	-	23 %
Layer 02	2 %	-	-	-	-	-	98 %

Client Sample ID: 21078.021-0018		Sample ID: S18			Date Analyzed: 02/04/2010		
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
coarse cementitious material, white	35 %	-	-	-			NAD
Layer 02							
loose cementitious powder, white	65 %	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	2 %	-	-	-	-	98 %
Layer 02	-	3 %	-	-	-	-	97 %

Job Number: 100191

Report Number: 100191R02

Report Date: 02/04/2010

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.
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:

x 

Stephanie Golden
Analyst



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0002

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: February 02, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 503.248.0223

RECEIVER

Date Received: 2/2/10 10:50am

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

Name: Harmony Kilby

Name: STEPHANIE GARDNER

Authorized Signature: [Signature] Date: 2/2/10 10:50 am

Authorized Signature: [Signature] Date: 2/2/10

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No. Rows 1-15.



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

21078.021-0016

21078.021-0017

21078.021-0018

Please analyze the enclosed 18 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:

CN



Lab/Cor Portland, Inc.

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

BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Asbestos and Environmental Analysis

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 100227R01
Report Date: 02/10/2010

P.O. No: n/a

Job Number: 100227

Project Name:

Project Number: 21078.021 Phase 0002

Project Notes:

Client Sample ID: 21078.021-0013

Sample ID: S1

Date Analyzed: 02/10/2010

Client Sample Description:

Analyst: Stephanie Golden

Asbestos Mineral Fibers

Percent of

Sample:

Chrysotile

Amosite

Crocidolite

Percent Asbestos:

Homogeneous

fine compact powder,
offwhite

% 1.25 %

Point Count:

5 Point Count Fields: 400

1.25 %

Other Fibers

Fibrous

Glass

Cellulose

Mineral

Wool

Synthetic

Other

Matrix

98.75 %

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.

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:

x

Jordan Shibley
Analyst



Harmony Kilby

From: Harmony Kilby
Sent: Friday, February 05, 2010 4:07 PM
To: 'Staff'
Subject: Additional Analysis: 21078.021 Phase 0002; LC# 100191
Attachments: 100191R02_20100204_Final-PLMVis.pdf; 100191_coc.pdf

Please do a **point count analysis** on **Layer 1 (joint compound only)** of sample **-0013** for Project 21078.021 Phase 0002 (LCP#100191).

We would like results on a **3 Day TA**.

Please let me know if there are any questions about this request.

Thank you!

Harmony Kilby
Administrative Assistant
harmony_kilby@pbsenv.com
503.417.7592

PBS Engineering + Environmental
Engineering | Natural Resources | Environmental | Health and Safety
www.pbsenv.com
4412 SW Corbett Ave Portland OR, 97239
ph: 503.248.1939 : fax: 503.248.0223

From: Staff [<mailto:Staff@labcorpdx.net>]
Sent: Thursday, February 04, 2010 10:58 AM
To: Harmony Kilby
Cc: Matt Jones
Subject: 21078.021 Phase 0002; LC# 100191

Attached are the invoice and final report for the sample(s) submitted on 02/02/2010.

Please contact us at the number below if you should have any further questions, concerns or complaints regarding the results or the service provided to you.

Sincerely,

Stephanie Golden
Analyst
4321 SW Corbett Ave., Ste A
Portland, OR 97239
Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Note: This email and the attached document contain privileged and confidential information, and are intended solely for the use of the individual referenced above. If you are not the intended recipient, you are hereby advised that any distribution or copying of this communication is prohibited. If you have received this message in error, immediately notify the sender by telephone or email and delete this message from your mail server.

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 100349R01
Report Date: 02/22/2010

Job Number: 100349

P.O. No: n/a

Project Name:

Project Number: 21078.021 Phase 0002

Project Notes:

Client Sample ID: 21078.021-0013

Sample ID: S1

Date Analyzed: 02/22/2010

Client Sample Description:

Analyst: Stephanie Golden

<u>Asbestos Mineral Fibers</u>		Layer				Percent
		Percent:	Chrysotile	Amosite	Crocidolite	Asbestos:
Homogeneous						
fine powder, gray		%	0.5 %	-	-	0.1 %
Other Fibers						
	Fibrous	Mineral				
	Glass	Cellulose	Wool	Synthetic	Other	Matrix
						99.5 %

Comments: Gravimetric Reduction. GRR value is 0.204993478.

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.
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:

x 

Stephanie Golden
Analyst

LabCor Portland, Inc.

100349

PBS Request for Extended/ Additional Analyses

Please use this form for samples that require additional analysis. This should only be used for samples LabCor already has received and reported.

Primary Contact: (person requesting additional analysis)	<i>Harmony Kilby</i>	Project Manager: Contact Project Manager?:	<i>Clark Nelson</i> Yes <input type="radio"/> No <input checked="" type="radio"/>
--	----------------------	--	--

LabCor Report No.:	<i>100191</i>	PBS Project No.:	<i>21078.021 Phase 0002</i>
---------------------------	---------------	-------------------------	-----------------------------

Client Sample Numbers to be Analyzed:

Sample Number	Layer (if applicable)
<i>~0013</i>	

Select One:			Select One:	
			Turn Around	Price
	Composite Analysis	Percent asbestos is recalculated with regards to the entire sample. The report shows layer percent, and percent asbestos present in the total sample received. There is no charge for this, as we just select a certain option when running a report. This can also be requested along with original analysis, so the report automatically shows the composite results for the requested samples.	Same Day	NA
X	Composite/ Gravimetric 400 Point Count	"Composite by weight". The entire sample gravimetrically reduced by ashing and acid dissolution and a 400-field point count is performed on what is left. The percent of asbestos present is calculated based on points counted with the gravimetric reduction ratio applied.	24 hours 2 days 3 days 5 days	\$95.00 \$80.00 \$75.00 \$65.00
	400 Point Count	A 400-field point count is performed on a single layer within a sample with no gravimetric reduction.	4 hours 8 hours 24 hours 2 days 3 days	\$75.00 \$65.00 \$60.00 \$35.00 \$35.00

Turn around times begin only when a Lab/Cor PLM analyst approves this request by initialing below and returns the form to the chain of custody contact. By initialing and dating below Lab/Cor accepts the analysis request and will provide the client with the approved analyses within the stated turn around time.

Request Authorized by: *H. Kilby* Date Requested: *2/18/10 4:50pm*

Approved Signature: *J. Anderson* Date Approved: *2/18/10 5:00pm*

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 100296R01

Report Date: 02/15/2010

Job Number: 100296

P.O. No: n/a

Project Name:

Project Number: 21078.021 Phase 0002

Project Notes:

Client Sample ID:	21078.021-0019	Sample ID:	S1	Date Analyzed:	02/15/2010
Client Sample Description:					Analyst: Stephanie Golden
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous mastic, yellow	100%	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
	-	2%	-	-	98%

Client Sample ID:	21078.021-0020	Sample ID:	S2	Date Analyzed:	02/15/2010
Client Sample Description:					Analyst: Stephanie Golden
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01 rubbery material, tan	40%	-	-	-	NAD
Layer 02 mastic w/ paint, offwhite/black	60%	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
Layer 01	-	-	-	-	100%
Layer 02	-	-	-	-	100%

Client Sample ID:	21078.021-0021	Sample ID:	S3	Date Analyzed:	02/15/2010
Client Sample Description:					Analyst: Stephanie Golden
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous mastic, orange	100%	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
	-	1%	-	-	99%

Client Sample ID:	21078.021-0022	Sample ID:	S4	Date Analyzed:	02/15/2010
Client Sample Description:					Analyst: Stephanie Golden
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01 vinyl tile, green	60%	6%	-	-	6%
Layer 02 fibrous tarry backing, black	40%	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
Layer 01	-	-	-	-	94%
Layer 02	-	70%	-	-	30%

Job Number: 100296

Report Number: 100296R01

Report Date: 02/15/2010

Client Sample ID: 21078.021-0023		Sample ID: S5			Date Analyzed: 02/15/2010	Analyst: Stephanie Golden	Percent Asbestos:
Client Sample Description:		Asbestos Mineral Fibers					Percent Asbestos:
		Percent of Sample:	Chrysotile	Amosite	Crocidolite		
Homogeneous							
brittle mastic, black		100%	2%	-	-		2%
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix	Percent Asbestos:
		-	-	-	-	-	98%
Client Sample ID: 21078.021-0024		Sample ID: S6			Date Analyzed: 02/15/2010	Analyst: Stephanie Golden	Percent Asbestos:
Client Sample Description:		Asbestos Mineral Fibers					Percent Asbestos:
		Percent of Sample:	Chrysotile	Amosite	Crocidolite		
Homogeneous							
brittle mastic, black		100%	-	-	-		NAD
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix	Percent Asbestos:
		-	-	-	-	-	100%
Client Sample ID: 21078.021-0025		Sample ID: S7			Date Analyzed: 02/15/2010	Analyst: Stephanie Golden	Percent Asbestos:
Client Sample Description:		Asbestos Mineral Fibers					Percent Asbestos:
		Percent of Sample:	Chrysotile	Amosite	Crocidolite		
Homogeneous							
loose powder, light gray		100%	5%	-	-		5%
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix	Percent Asbestos:
		-	2%	-	-	-	93%
Client Sample ID: 21078.021-0026		Sample ID: S8			Date Analyzed: 02/15/2010	Analyst: Stephanie Golden	Percent Asbestos:
Client Sample Description:		Asbestos Mineral Fibers					Percent Asbestos:
		Percent of Sample:	Chrysotile	Amosite	Crocidolite		
Layer 01							
fine compact powder, white		20%	-	-	-		NAD
Layer 02							
loose chalky powder		80%	-	-	-		NAD
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix	Percent Asbestos:
Layer 01		-	1%	-	-	-	99%
Layer 02		-	5%	-	-	-	95%

Job Number: 100296

Report Number: 100296R01

Report Date: 02/15/2010

Client Sample ID: 21078.021-0027		Sample ID: S9			Date Analyzed: 02/15/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01							
interwoven fibers w/ paint, white	10%	-	-	-			NAD
Layer 02							
mastic, dark gray	5%	-	-	-			NAD
Layer 03							
cork material, light brown	80%	-	-	-			NAD
Layer 04							
mastic, w/ powder, dark gray	5%	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	20%	-	-	-	-	80%
Layer 02	-	-	-	-	-	-	100%
Layer 03	-	-	-	-	-	-	100%
Layer 04	-	1%	-	-	-	-	99%

Client Sample ID: 21078.021-0028		Sample ID: S10			Date Analyzed: 02/15/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
loose shavings, gray	100%	6%	-	-			6%
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	-	-	-	-	-	94%

Client Sample ID: 21078.021-0029		Sample ID: S11			Date Analyzed: 02/15/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01							
vinyl, gray	95%	-	-	-			NAD
Layer 02							
mastic w/ wood fibers, yellow	5%	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	-	-	-	-	-	100%
Layer 02	-	4%	-	-	-	-	96%

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net*Asbestos and Environmental Analysis*

Job Number: 100296

Report Number: 100296R01

Report Date: 02/15/2010

Client Sample ID: 21078.021-0030**Sample ID:** S12**Date Analyzed:** 02/15/2010**Client Sample Description:****Analyst:** Stephanie Golden

<u>Asbestos Mineral Fibers</u>	Percent of Sample:				Percent Asbestos:
	Chrysotile	Amosite	Crocidolite		
Layer 01					
vinyl tile, gray	50 %	4 %	-	-	4 %
Layer 02					
mastic, black	5 %	-	-	-	NAD
Layer 03					
fibrous tarry backing, black	45 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
Layer 01	-	-	-	-	96 %
Layer 02	-	2 %	-	-	98 %
Layer 03	-	70 %	-	-	30 %

Client Sample ID: 21078.021-0031**Sample ID:** S13**Date Analyzed:** 02/15/2010**Client Sample Description:****Analyst:** Stephanie Golden

<u>Asbestos Mineral Fibers</u>	Percent of Sample:				Percent Asbestos:
	Chrysotile	Amosite	Crocidolite		
Layer 01					
vinyl tile, gray	60 %	4 %	-	-	4 %
Layer 02					
fibrous tarry backing, black	30 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
Layer 01	-	-	-	-	96 %
Layer 02	-	70 %	-	-	30 %

Client Sample ID: 21078.021-0032**Sample ID:** S14**Date Analyzed:** 02/15/2010**Client Sample Description:****Analyst:** Stephanie Golden

<u>Asbestos Mineral Fibers</u>	Percent of Sample:				Percent Asbestos:
	Chrysotile	Amosite	Crocidolite		
Homogeneous					
compact fibrous material, light tan	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
	5 %	60 %	-	-	35 %

Client Sample ID: 21078.021-0033**Sample ID:** S15**Date Analyzed:** 02/15/2010**Client Sample Description:****Analyst:** Stephanie Golden

<u>Asbestos Mineral Fibers</u>	Percent of Sample:				Percent Asbestos:
	Chrysotile	Amosite	Crocidolite		
Homogeneous					
loose shavings, gray	100 %	6 %	-	-	6 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
	-	-	-	-	94 %

Job Number: 100296

Report Number: 100296R01

Report Date: 02/15/2010

Client Sample ID: 21078.021-0034	Sample ID: S16	Date Analyzed: 02/15/2010	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
fibrous mastic, offwhite	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Mineral Wool	Synthetic Other
	35 %	-	-
			Matrix
			65 %

Client Sample ID: 21078.021-0035	Sample ID: S17	Date Analyzed: 02/15/2010	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
vinyl, gray	50 %	-	-
			NAD
Layer 02			
fibrous backing, gray	45 %	-	-
			NAD
Layer 03			
mastic, yellow	5 %	-	-
			NAD
Other Fibers	Fibrous Glass	Mineral Wool	Synthetic Other
			Matrix
Layer 01	-	-	-
			100 %
Layer 02	2 %	75 %	-
			23 %
Layer 03	-	3 %	-
			97 %

Client Sample ID: 21078.021-0036	Sample ID: S18	Date Analyzed: 02/15/2010	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
mastic, yellow	70 %	-	-
			NAD
Layer 02			
mastic, black	30 %	3 %	-
			3 %
Other Fibers	Fibrous Glass	Mineral Wool	Synthetic Other
			Matrix
Layer 01	-	-	-
			100 %
Layer 02	-	1 %	-
			96 %

Client Sample ID: 21078.021-0037	Sample ID: S19	Date Analyzed: 02/15/2010	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
compressed fibers, light brown	40 %	-	-
			NAD
Layer 02			
mastic, light brown	60 %	-	-
			NAD
Other Fibers	Fibrous Glass	Mineral Wool	Synthetic Other
			Matrix
Layer 01	-	100 %	-
			0 %
Layer 02	-	2 %	-
			98 %

Job Number: 100296

Report Number: 100296R01

Report Date: 02/15/2010

Client Sample ID: 21078.021-0038		Sample ID: S20			Date Analyzed: 02/15/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01							
fine compact powder w/ paint, white	15 %	-	-	-	NAD		
Layer 02							
compact chalky material, offwhite	85 %	-	-	-	NAD		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	1 %	-	-	-	-	99 %
Layer 02	3 %	5 %	-	-	-	-	92 %

Client Sample ID: 21078.021-0039		Sample ID: S21			Date Analyzed: 02/15/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01							
vinyl, gray	50 %	-	-	-	NAD		
Layer 02							
fibrous backing, gray	50 %	-	-	-	NAD		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	-	-	-	-	-	100 %
Layer 02	3 %	80 %	-	-	Wollastonite	5 %	12 %

Client Sample ID: 21078.021-0040		Sample ID: S22			Date Analyzed: 02/15/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01							
fine compact powder, white	10 %	Trace	-	-	< 1 %		
Layer 02							
compact chalky, offwhite	90 %	-	-	-	NAD		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	3 %	-	-	-	-	97 %
Layer 02	-	6 %	-	-	-	-	94 %

Client Sample ID: 21078.021-0041		Sample ID: S23			Date Analyzed: 02/15/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
compressed fibers, golden brown	100 %	-	-	-	NAD		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	100 %	-	-	-	-	0 %

Job Number: 100296

Report Number: 100296R01

Report Date: 02/15/2010

Client Sample ID: 21078.021-0042		Sample ID: S24			Date Analyzed: 02/15/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Homogeneous mastic, black	100 %	2 %	-	-			
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
-	-	-	-	-	-	-	98 %

Client Sample ID: 21078.021-0043		Sample ID: S25			Date Analyzed: 02/15/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01 vinyl tile, white	95 %	-	-	-			
Layer 02 mastic, black	5 %	-	-	-			
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	1 %	-	-	-	-	99 %

Client Sample ID: 21078.021-0044		Sample ID: S26			Date Analyzed: 02/15/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01 vinyl tile, white	95 %	-	-	-			
Layer 02 mastic, black	5 %	-	-	-			
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	5 %	-	-	-	-	95 %

Job Number: 100296

Report Number: 100296R01

Report Date: 02/15/2010

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.

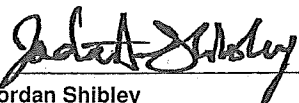
Quantitative analysis by PLM point count or TEM is recommended for samples testing at < or = to 1% asbestos.

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:

x 

Jordan Shibley
Analyst



100296

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0002

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: February 12, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 503.248.0223

Name: Harmony Kilby

Authorized Signature: [Signature] Date: 2/12/10 3:50 pm

RECEIVER

Date Received: 2/12/10 4:02 pm

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

Name: STEPHANIE GOLOEN

Authorized Signature: [Signature] Date: 2/12/10

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No. Rows 21078.021-0019 to 21078.021-0033.



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

21078.021-0034		
21078.021-0035		
21078.021-0036		
21078.021-0037		
21078.021-0038		
21078.021-0039		
21078.021-0040		
21078.021-0041		
21078.021-0042		
21078.021-0043		
21078.021-0044		

Please analyze the enclosed 26 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:

CW



Lab/Cor Portland, Inc.

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

**Analysis Report Cover
Final Report**

Asbestos and Environmental Analysis

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Job Number: 100346 PDX
Client: PBS Engineering + Environmental
Address: 4412 SW Corbett Ave
Portland, OR 97239

Report Number: 100346R01
Report Date: 2/22/2010

Project Name:
Project No.: 21078.021 Phase 0002
PO Number:
Sub Project:
Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

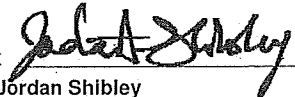
Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
100346 - S1	21078.021-0040 - Layer 1	NIOSH 9000 - XRD - Quantitative Bulk		2/18/2010

NIOSH 9000 - Preparation and analysis of the above samples were conducted in accordance with the NIOSH method 9000 for the identification and quantification of asbestos by X-ray diffraction. Sample fibrosity was confirmed by either optical or electron microscopy before consideration of XRD quantitative analysis determine a more accurate percentage by weight. Approximately 500 mg of mortared fines were dried in an oven at 110°C for at least one hour. Approximately 5 mg of dried sample was diluted with isopropanol to 10ml. Aliquots were filtered onto 0.45µm silver membrane filters. The filters were mounted on sample holders for XRD analysis. XRD analysis was performed using an X-ray Diffractometer using a Copper x-ray source at 40 kV/ 35 mA emission. The XRD is equipped with a computer-controlled goniometer stage with selectable scan step sizes and rates. Scanning was done using step size of 0.03° 2 theta, at a rate of 1 sec per step. Quantitative data were obtained using NIST-certified or other calibration standards of regulated asbestiform minerals.

Disclaimer The results reported relate only to the samples tested or analyzed. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor Portland, Inc. the opportunity to provide you with the analytical services.

Sincerely,

x 
Jordan Shibley
Analyst

**LabCor
Portland
Inc**

Lab/Cor Portland, Inc.

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

Final Report

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

NIOSH 9000 - XRD - Quantitative Bulk Summary

Job Number: 100346 PDX
Client: PBS Engineering + Environmental

Report Number: 100346R01
Date Received: 2/18/2010

Project Name:

Lab/Cor Sample No.: S1

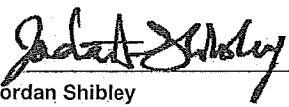
Client Sample No.: 21078.021-0040

Description: Layer 1

Analyst(s) Analysis Date
JS 2/22/2010

Analyte Description	Abs/Pres	Weight %	Gravimetric Reduction	Weight Percent
Chrysotile	Presence	2.20%	Acid Solubles	
Asbestos	Presence	2.20%	Organics	
			Residue	

Reviewed by:

x 
Jordan Shibley
Analyst



Lab/Cor Portland, Inc.

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

BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Asbestos and Environmental Analysis

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 100377R01
Report Date: 02/24/2010

P.O. No: n/a

Job Number: 100377

Project Name:

Project Number: 21078.021 Phase 0002

Project Notes:

Client Sample ID: 21078.021-0040

Sample ID: S1

Date Analyzed: 02/24/2010

Client Sample Description:

Analyst: Stephanie Golden

Asbestos Mineral Fibers

Layer				
Percent:	Chrysotile	Amosite	Crocidolite	

Percent Asbestos:

Homogeneous

fine powder, gray

% 0.75 %

Point Count: 3 **Point Count Fields:** 400

0.12 %

Other Fibers

Fibrous	Mineral		
Glass	Cellulose	Wool	Synthetic

Other

Matrix
99.25 %

Comments: Gravimetric Reduction. GRR value is 0.159139084.

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.
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:

x

Stephanie Golden
Analyst



100377

LabCor Portland, Inc.

PBS Request for Extended/ Additional Analyses

Please use this form for samples that require additional analysis. This should only be used for samples LabCor already has received and reported.

Primary Contact: (person requesting additional analysis)	<i>Harmony Kirby</i>	Project Manager: Contact Project Manager?:	<i>Clark Nelson</i> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	----------------------	--	--

LabCor Report No.:	<i>100296</i>	PBS Project No.:	<i>21078-021 Ph.0002</i>
---------------------------	---------------	-------------------------	--------------------------

Client Sample Numbers to be Analyzed:

Sample Number	Layer (if applicable)
<i>-0040</i>	

Select One:			Select One:	
			Turn Around	Price
	Composite Analysis	Percent asbestos is recalculated with regards to the entire sample. The report shows layer percent, and percent asbestos present in the total sample received. There is no charge for this, as we just select a certain option when running a report. This can also be requested along with original analysis, so the report automatically shows the composite results for the requested samples.	Same Day	NA
<input checked="" type="checkbox"/>	Gravimetric/ Composite 400 Point Count	"Composite by weight". The entire sample gravimetrically reduced by ashing and acid dissolution and a 400-field point count is performed on what is left. The percent of asbestos present is calculated based on points counted with the gravimetric reduction ratio applied.	<input checked="" type="checkbox"/> 24 hours 2 days 3 days 5 days	\$95.00 \$80.00 \$75.00 \$55.00
	400 Point Count	A 400-field point count is performed on a single layer within a sample with no gravimetric reduction.	4 hours 8 hours 24 hours 2 days 3 days	\$75.00 \$65.00 \$50.00 \$35.00 \$35.00

Turn around times begin only when a Lab/Cor PLM analyst approves this request by Initialing below and returns the form to the chain of custody contact. By initialing and dating below Lab/Cor accepts the analysis request and will provide the client with the approved analyses within the stated turn around time.

Request Authorized by: *H. Kirby* Date Requested: *2/23/10*

Approved Signature: *[Signature]* Date Approved: *2/23/10 9:30am*

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 100312R01
Report Date: 02/17/2010

P.O. No: n/a

Job Number: 100312

Project Name:

Project Number: 21078.021 Phase 0002

Project Notes:

Client Sample ID: 21078.021-0045	Sample ID: S1	Date Analyzed: 02/17/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Percent of Sample: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous sticky mastic, gray	100 % 6 % - -	6 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other Matrix	94 %

Client Sample ID: 21078.021-0046	Sample ID: S2	Date Analyzed: 02/17/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Percent of Sample: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01 soft rubbery material, gray	98 % - - -	NAD
Layer 02 mastic, black	2 % 2 % - -	2 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other Matrix	
Layer 01	- - - -	100 %
Layer 02	- - - -	98 %

Client Sample ID: 21078.021-0047	Sample ID: S3	Date Analyzed: 02/17/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Percent of Sample: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous sticky mastic, dark brown	100 % 2 % - -	2 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other Matrix	
	- - - -	98 %

Client Sample ID: 21078.021-0048	Sample ID: S4	Date Analyzed: 02/17/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Percent of Sample: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous sticky mastic, gray	100 % 6 % - -	6 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other Matrix	
	- - - -	94 %

Job Number: 100312

Report Number: 100312R01

Report Date: 02/17/2010

Client Sample ID: 21078.021-0049		Sample ID: S5			Date Analyzed: 02/17/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01							
soft rubbery material, gray	70%	-	-	-	NAD		
Layer 02							
sticky mastic, gray	30%	6%	-	-	6%		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix		
Layer 01	-	-	-	-	-	100%	
Layer 02	-	-	-	-	-	94%	

Client Sample ID: 21078.021-0050		Sample ID: S6			Date Analyzed: 02/17/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
sticky mastic, gray	100%	6%	-	-	6%		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix		
	-	-	-	-	-	94%	

Client Sample ID: 21078.021-0051		Sample ID: S7			Date Analyzed: 02/17/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
sticky mastic, gray	100%	6%	-	-	6%		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix		
	-	-	-	-	-	94%	

Client Sample ID: 21078.021-0052		Sample ID: S8			Date Analyzed: 02/17/2010		Percent Asbestos:
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers	Percent of Sample:	Chrysotile	Amosite	Crocidolite			
Layer 01							
soft rubbery material, gray	90%	-	-	-	NAD		
Layer 02							
soft rubbery material, light gray	10%	5%	-	-	5%		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix		
Layer 01	-	-	-	-	-	100%	
Layer 02	-	-	-	-	-	95%	

Job Number: 100312

Report Number: 100312R01
Report Date: 02/17/2010

Client Sample ID: 21078.021-0053 **Sample ID:** S9 **Date Analyzed:** 02/17/2010
Client Sample Description: **Analyst:** Stephanie Golden

<u>Asbestos Mineral Fibers</u>	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
soft rubbery material, light gray	100 %	5 %	-	-	5 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
	-	-	-	-	95 %

Client Sample ID: 21078.021-0055 **Sample ID:** S10 **Date Analyzed:** 02/17/2010
Client Sample Description: **Analyst:** Stephanie Golden

<u>Asbestos Mineral Fibers</u>	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
soft caulking material w/ paint, gray	100 %	2 %	-	-	2 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
	-	-	-	-	98 %

Client Sample ID: 21078.021-0056 **Sample ID:** S11 **Date Analyzed:** 02/17/2010
Client Sample Description: **Analyst:** Stephanie Golden

<u>Asbestos Mineral Fibers</u>	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
soft caulking material w/ paint, white	100 %	1 %	-	-	1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
	-	-	-	-	99 %

Client Sample ID: 21078.021-0057 **Sample ID:** S12 **Date Analyzed:** 02/17/2010
Client Sample Description: **Analyst:** Stephanie Golden

<u>Asbestos Mineral Fibers</u>	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
soft caulking material w/ paint, white	100 %	1 %	-	-	1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
	-	-	-	-	99 %

Client Sample ID: 21078.021-0058 **Sample ID:** S13 **Date Analyzed:** 02/17/2010
Client Sample Description: **Analyst:** Stephanie Golden

<u>Asbestos Mineral Fibers</u>	Percent of Sample:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
soft rubbery material w/ paint, dark brown	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic Other	Matrix
	-	-	-	-	100 %


Job Number: 100312

Report Number: 100312R01
Report Date: 02/17/2010

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.
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:

x 

Stephanie Golden
Analyst



100312

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0002

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

RECEIVER

Date Sent: February 16, 2010

Date Received: 2/16/10 10:15 AM

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 503.248.0223

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

Harmony Kilby
Name

STEPHANIE GOLDEN
Name

[Signature]
Authorized Signature

2/16/10 9:50 am
Date

[Signature]
Authorized Signature

2/16/10
Date

Sender's ID No.	Brief Description	Receiver's ID No.
21078.021-0045		
21078.021-0046		
21078.021-0047		
21078.021-0048		
21078.021-0049		
21078.021-0050		
21078.021-0051		
21078.021-0052		
21078.021-0053		
21078.021-0055		
21078.021-0056		
21078.021-0057		
21078.021-0058		



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Please analyze the enclosed 13 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:

0054 has been archived.

CN/NS

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 100350R01
Report Date: 02/22/2010

Job Number: 100350

P.O. No: n/a

Project Name:

Project Number: 21078.021 Phase 0002

Project Notes:

Client Sample ID: 21078.021-0057

Sample ID: S1

Date Analyzed: 02/22/2010

Client Sample Description:

Analyst: Stephanie Golden

Asbestos Mineral Fibers

Layer Percent:	Chrysotile	Amosite	Crocidolite
Homogeneous	1 %	-	-
soft caulking material, white/gray	1 %	-	-

Point Count:	Point Count Fields:	Percent Asbestos:
4	400	1 %

Other Fibers

Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
-	-	-	-	-	99 %

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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. 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:

x 

Stephanie Golden
Analyst

LabCor Portland, Inc.

100350

PBS Request for Extended/ Additional Analyses

Please use this form for samples that require additional analysis. This should only be used for samples LabCor already has received and reported.

Primary Contact: (person requesting additional analysis)	<i>Harmony Kilby</i>	Project Manager: Contact Project Manager?:	<i>Clark Nelson</i> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	----------------------	--	--

LabCor Report No.:	<u>100312</u>	PBS Project No.:	<u>21078.021 Phase 0002</u>
---------------------------	---------------	-------------------------	-----------------------------

Client Sample Numbers to be Analyzed:	Sample Number	Layer (if applicable)
	~0057	

Select One:			Select One:	
			Turn Around	Price
	Composite Analysis	Percent asbestos is recalculated with regards to the entire sample. The report shows layer percent, and percent asbestos present in the total sample received. There is no charge for this, as we just select a certain option when running a report. This can also be requested along with original analysis, so the report automatically shows the composite results for the requested samples.	Same Day	NA
	Composite/ Gravimetric 400 Point Count	"Composite by weight". The entire sample gravimetrically reduced by ashing and acid dissolution and a 400-field point count is performed on what is left. The percent of asbestos present is calculated based on points counted with the gravimetric reduction ratio applied.	24 hours 2 days 3 days 5 days	\$95.00 \$80.00 \$75.00 \$55.00
X	400 Point Count	A 400-field point count is performed on a single layer within a sample with no gravimetric reduction.	4 hours 8 hours 24 hours <u>2 days</u> 3 days	\$75.00 \$65.00 \$50.00 \$35.00 \$35.00

Turn around times begin only when a Lab/Cor PLM analyst approves this request by initialing below and returns the form to the chain of custody contact. By initialing and dating below Lab/Cor accepts the analysis request and will provide the client with the approved analyses within the stated turn around time.

Request Authorized by: *H. Kilby* Date Requested: 2/18/10 4:50pm

Approved Signature: *[Signature]* Date Approved: 2/18/10 5:00pm

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 100361R01
Report Date: 02/19/2010

Job Number: 100361

P.O. No: n/a

Project Name:

Project Number: 21078.021 Phase 0002

Project Notes:

Client Sample ID: 21078.021-0059	Sample ID: S1	Date Analyzed: 02/19/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01 loose fibrous material, yellow	40 % - - -	NAD
Layer 02 fibrous backing w/ paint, white	30 % - - -	NAD
Layer 03 interwoven fibers w/ foil, white.silver	30 % - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
Layer 01	100 % - - - -	0 %
Layer 02	- 90 % - - -	10 %
Layer 03	80 % - - - -	20 %

Client Sample ID: 21078.021-0060	Sample ID: S2	Date Analyzed: 02/19/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01 vinyl tile, white	99 % - - -	NAD
Layer 02 mastic, black	1 % 4 % - -	4 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
Layer 01	- - - - -	100 %
Layer 02	- 2 % - - -	94 %

Client Sample ID: 21078.021-0061	Sample ID: S3	Date Analyzed: 02/19/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01 rubbery material, black	98 % - - -	NAD
Layer 02 mastic, brown	2 % - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
Layer 01	- - - - -	100 %
Layer 02	- - - - Wollastonite 2 %	98 %

Asbestos and Environmental Analysis

Job Number: 100361

Report Number: 100361R01

Report Date: 02/19/2010

Client Sample ID: 21078.021-0062		Sample ID: S4			Date Analyzed: 02/19/2010	
Client Sample Description:		Analyst: Stephanie Golden				
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rocky fibrous tar, black	50 %	-	-	-		NAD
Layer 02						
rocky fibrous tar, black/gray	50 %	3 %	-	-		3 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	15 %	-	-	-	-	85 %
Layer 02	-	-	-	-	-	97 %

Client Sample ID: 21078.021-0063		Sample ID: S5			Date Analyzed: 02/19/2010	
Client Sample Description:		Analyst: Stephanie Golden				
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
paint, silver	8 %	-	-	-		NAD
Layer 02						
tar, black	92 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	2 %	-	-	-	98 %
Layer 02	-	7 %	-	-	-	93 %

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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. 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:

x 

Stephanie Golden
 Analyst



100361

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0002

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: February 19, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 503.248.0223

R. Conroy

Name

[Signature]

Authorized Signature

2/19/10

Date

RECEIVER

Date Received: 2/19/10 1:00pm

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

STEPHANIE GOWEN

Name

[Signature]

Authorized Signature

2/19/10

Date

Sender's ID No.

Brief Description

Receiver's ID No.

21078.021-0059

21078.021-0060

21078.021-0061

21078.021-0062

21078.021-0063

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: 4 Hour

SPECIAL INSTRUCTIONS:

Please call Steve Billing w/ Results 503-209-1503

SD

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 100385R01
Report Date: 02/25/2010

Job Number: 100385

P.O. No: n/a

Project Name:

Project Number: 21078.021 Phase 0002

Project Notes:

Client Sample ID: 21078.021-0064	Sample ID: S1	Date Analyzed: 02/25/2010	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Layer 01			
vinyl tile, tan	95%	-	-
Layer 02			
mastic, black	5%	4%	-
			4%
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01	-	-	-
Layer 02	-	1%	-
			100%
			95%

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.

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:

x Stephanie Golden

Stephanie Golden
Analyst



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0002

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: February 25, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 503.248.0223

Harmony Kilby
Name

[Signature]
Authorized Signature

2/25/10 11:10 am
Date

RECEIVER

Date Received: 2/25/10 11:15 AM

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

John Harris
Name

[Signature] 2/25/10
Authorized Signature Date

Sender's ID No.

Brief Description

Receiver's ID No.

21078.021-0064

Please analyze the enclosed 1 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: 4 Hour

SPECIAL INSTRUCTIONS: Verbal Results to Steve Dilling



<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB21078.021-1001	Paint	6,920 ppm	Room 29; at window, brown, metal, heater, good condition	R.J. Lee Group
LB21078.021-1002	Paint	630 ppm	Room 29; east wall, white, plaster, good condition	R.J. Lee Group
LB21078.021-1003	Paint	<483 ppm	Room 29; cabinet, brown, plaster, good condition	R.J. Lee Group
LB21078.021-1004	Paint	1,760 ppm	Eastside gymnasium; interior, clear, wood, window, good condition	R.J. Lee Group
LB21078.021-1005	Paint	184,000 ppm	Eastside gymnasium; exterior, brown, wood, window, fair condition	R.J. Lee Group
LB21078.021-1006	Paint	299 ppm	Boiler #1; door, metal substrate, silver, poor condition	R.J. Lee Group
LB21078.021-1007	Paint	251 ppm	Gym south wall; wood substrate, white, good condition	R.J. Lee Group
LB21078.021-1008	Paint	<211 ppm	East exterior; door, metal, blue, good condition	R.J. Lee Group
LB21078.021-1009	Paint	<77.2 ppm	Covered play structure; siding, wood, grey, good condition	R.J. Lee Group
LB21078.021-1010	Paint	<463 ppm	Covered play structure; pole, metal, red, good condition	R.J. Lee Group
LB21078.021-1011	Paint	358 ppm	Covered play structure; pole, metal, blue, good condition	R.J. Lee Group
LB21078.021-1012	Paint	None Detected	First floor; west hall, center, white, sheetrock, wall, good condition	Wy'East Environ.
LB21078.021-1013	Paint	672 ppm	First floor; confluence of west and north halls, tan and white, wood, door frame, good condition	Wy'East Environ.
LB21078.021-1014	Paint	3240 ppm	First floor; between rooms 11 and 13, tan and turquoise, wood, wall, good condition	Wy'East Environ.
LB21078.021-1015	Paint	1340 ppm	Ground floor; north wall of health room, tan, sheetrock, wall, good condition	Wy'East Environ.
LB21078.021-1016	Paint	1250 ppm	Ground floor; room 20, tan/white/pink, wood, door frame, good condition	Wy'East Environ.



RJ Lee Group, Inc.
350 Hochberg Road, Monroeville, PA 15146
Tel: (724) 325-1776 | Fax: (724) 733-1799

LABORATORY REPORT

PBS Environmental - Portland, OR
4412 SW Corbett Avenue
Portland, OR 97239

Attn: Harmony Kilby
Phone: 503-248-1939
Fax: 503-248-0223
Email: harmony_kilby@pbsenv.com

RJ Lee Group Job No.: CAC1009419-0
Samples Received: February 17, 2010
Report Date: February 19, 2010
Client Project: 21078.021 Phase 0001
Purchase Order No.: N/A
Matrix: Solid
Prep/Analysis: EPA 3050B / EPA 7420 (Solids)-PA

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		
LB21078.021-1001	CA17022010P031-001	N/A	Lead	0.629	6290	0.00848	84.8	02/19/2010	
LB21078.021-1002	CA17022010P031-002	N/A	Lead	0.0630	630	0.0116	116	02/19/2010	
LB21078.021-1003	CA17022010P031-003	N/A	Lead	< 0.0483	< 483	0.0483	483	02/19/2010	
LB21078.021-1004	CA17022010P031-004	N/A	Lead	0.176	1760	0.0356	356	02/19/2010	
LB21078.021-1005	CA17022010P031-005	N/A	Lead	18.4	184000	0.00988	98.8	02/19/2010	

Analyst Comments:

Report Qualifiers (Q):
 H = Holding times for preparation or analysis exceeded
 P = NELAC in-lab certification pending
 N = Analyte not NELAC certified
 *NELAC-National Environmental Laboratory Accreditation Conference
 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 accreditation under AIHA Lab ID 100364, NY ELAP Lab Code 10984, EPA Lab Code PA00162, CA ELAP Certificate 1970, PA DEP Lab ID 02-00396, VA DCLS Lab ID 00297, and LA DEQ Agency Interest 94775. 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.
 Quality Control data is available upon request. Results have not been blank corrected unless otherwise noted. Samples were received in good condition unless otherwise noted.

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

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

Philip Grindle
Philip Grindle
Laboratory Supervisor

9



Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 21078.021 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: February 16, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 503.248.0223

Harmony Kilby
Name

Authorized Signature Date 2/16/10

RECEIVER

Date Received: 02/17/2010

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

Karen [Signature]
Name

Authorized Signature Date 02/17/2010 10:20 AM

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No. Rows include LB21078.021-1001 through 1005.

ANALYSIS REQUESTED: LEAD: [X] Paint, [] Wipe, [] Soil/Misc., [] Air, [] TCLP

Please analyze the enclosed 5 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: 48 Hour

SPECIAL INSTRUCTIONS:



Ry Lee Group, Inc.
 350 Hochberg Road, Monroeville, PA 15146
 Tel: (724) 325-1776 | Fax: (724) 733-1799

LABORATORY REPORT

FBS Environmental - Portland, OR
 4412 SW Corbett Avenue
 Portland, OR 97239

RJ Lee Group Job No.: CAC1009524-0
 Samples Received: February 23, 2010
 Report Date: February 23, 2010
 Client Project: 21078.021 Phase 0001
 Purchase Order No.: N/A
 Matrix: Solid
 Prep/Analysis: EPA 3050B / EPA 7420 (Solids)-PA

Attn: Harmony Kilby
 Phone: 503-248-1939
 Fax: 503-248-0223
 Email: harmony_kilby@pbseav.com

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		
LB21078.021-1006	CA23022010P009-001	N/A	Lead	0.0299	299	0.0135	135	02/23/2010	
LB21078.021-1007	CA23022010P009-002	N/A	Lead	0.0251	251	0.00960	96.0	02/23/2010	

Analyst Comments:

Report Qualifiers (Q):
 H = Holding times for preparation or analysis exceeded
 P = NELAC[®] analyte verification pending
 N = Analyte not NELAC[®] certified
 *NELAC-National Environmental Laboratory Accreditation Conference

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 accreditation under ALHA Lab ID 100364, NY ELAP Lab Code 10884, EPA Lab Code 10884, EPA Lab Code PA00162, CA ELAP Certificate 1970, PA DEP Lab ID 02-00896, VA DCLS Lab ID 00297, and LA DEQ Agency Interval 94775. 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. Quality Control data is available upon request. Results have not been blank corrected unless otherwise noted. Samples were received in good condition unless otherwise noted.

E = Value above highest calibration standard
 I = Value below lowest calibration standard but above MDL (Method Detection Limit)
 L = LCS (Laboratory Control Standards)/SRM (Standard Reference Material) recovery outside accepted recovery limits

B = Analyte detected in the associated Method Blank
 S = Spike Recovery outside accepted limits
 R = RP (relative percent difference) outside accepted limits
 D = RL (reporting limit verification) outside accepted limits

Philip Grindle
 Philip Grindle
 Laboratory Supervisor



Engineering + Environmental

CAC1009524-0

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 21078.021 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

RECEIVER

Date Sent: February 22, 2010

Date Received: _____

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 503.248.0223

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

Name: [Signature]
Authorized Signature: [Signature]
Date: 2/22/10

Name: _____
Authorized Signature: _____
Date: _____

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No.
Row 1: LB21078.021-1006, _____, _____
Row 2: LB21078.021-1007, _____, _____

ANALYSIS REQUESTED:
LEAD:
 Paint
 Wipe
 Soil/Misc.
 Air
 TCLP

Please analyze the enclosed 2 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:
Rush

SPECIAL INSTRUCTIONS:
same day results CN

[Signature]
02/23/2010 8:30am



LABORATORY REPORT

PBS Environmental - Portland, OR
4412 SW Corbett Avenue
Portland, OR 97239

Attn: Harmony Kilby
Phone: 503-248-1939
Fax: 503-248-0223
Email: harmony_kilby@pbsenv.com

RJ Lee Group Job No.: CAC1009549-0
Samples Received: February 24, 2010
Report Date: February 24, 2010
Client Project: 21078.021 Phase 0001
Purchase Order No.: N/A
Matrix: Solid
Prep/Analysis: EPA 3050B / EPA 7420 (Solids)-PA

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		
LB21078.021-1008	CA24022010FP007-001	N/A	Lead	< 0.0211	< 211	0.0211	211	02/24/2010	
LB21078.021-1009	CA24022010FP007-002	N/A	Lead	< 0.00772	< 77.2	0.00772	77.2	02/24/2010	
LB21078.021-1010	CA24022010FP007-003	N/A	Lead	< 0.0463	< 463	0.0463	463	02/24/2010	
LB21078.021-1011	CA24022010FP007-004	N/A	Lead	0.0358	358	0.0249	249	02/24/2010	

Analyst Comments:

Report Qualifiers (Q):
H = Holding times for preparation or analysis exceeded
P = NELAC[®] analyte certification pending
N = Analyte not NELAC[®] certified
*NELAC-National Environmental Laboratory Accreditation Conference

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 accreditation under AHA Lab ID 100364, NY ELAP Lab Code 10884, EPA Lab Code PA00162, CA ELAP Certificate 1970, PA DEP Lab ID 02-00396, VA DCLS Lab ID 00297, and LA DEQ Agency Interest 94775. 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.
Quality Control data is available upon request. Results have not been blank corrected unless otherwise noted. Samples were received in good condition unless otherwise noted.

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

B = Analyte detected in the associated Method Blank
S = Spike Recovery outside accepted limits
R = NPD (relative percent difference) outside accepted limits
D = RL (reporting limit verification) outside accepted limits

Philip Grindle
Philip Grindle
Laboratory Supervisor



TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 21078.021 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: February 23, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 503.248.0223

RECEIVER

Date Received: _____

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

Harmony Kirby
Name

Name

[Signature] 2/28/10
Authorized Signature Date

[Signature] 2/24/10
Authorized Signature Date

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No.
Rows: LB21078.021-1008, LB21078.021-1009, LB21078.021-1010, LB21078.021-1011

ANALYSIS REQUESTED:
LEAD: [X] Paint, [] Wipe, [] Soil/Misc., [] Air, [] TCLP

Please analyze the enclosed 4 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:

Rush - Same day

SPECIAL INSTRUCTIONS: CN

Laboratory Report

PBS Environmental
4412 SW Corbett
Portland, OR 97201

Report Number: 76903
Report Date: 2/25/10

Project Name: N. Clackamas Schor
Project Location: Concord Elementary
Project Number: 21078.021
Date Sampled:
Date received:

AOAC 974.02

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

Field ID	Lab ID	Quantitation mg/Kg(ppm)	Detection Limit mg/Kg(ppm)
1012	B5284	ND	86
1013	B5285	672	109
1014	B5286	3240	209
1015	B5287	1340	334
1016	B5288	1250	124

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

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.021-0001	Mastic	Entry; yellow mastic behind wainscot		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, orange-brown	No Asbestos Detected	
	Layer 2	compressed fibers, tan	No Asbestos Detected	
21078.021-0002	Mastic	Roof; northeast of access hatch, gray mastic between 3-tab and built-up roofing		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fibrous coating, gray	8% Chrysotile	
	Layer 2	rocky fibrous tar, black	No Asbestos Detected	
	Layer 3	fibrous tar, black	4% Chrysotile	
21078.021-0003	Built-up Roofing	Roof; near access hatch, at flashing line, between 3-tab and built-up roofing		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rocky fibrous tar, black	No Asbestos Detected	
	Layer 2	rocky fibrous tar, black	No Asbestos Detected	
	Layer 3	fibrous tar, black	3% Chrysotile	
	Layer 4	tar, black	No Asbestos Detected	
	Layer 5	fibrous tar backing, black	No Asbestos Detected	
21078.021-0004	Mastic	Roof; southeast corner, flashing mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	black tar	No Asbestos Detected	
21078.021-0005	Composition Shingles	Roof; southeast corner, 3-tab and felt		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rocky fibrous tar, black	No Asbestos Detected	
	Layer 2	fibrous tar backing, black	No Asbestos Detected	
	Layer 2	rocky fibrous tar, black	No Asbestos Detected	
21078.021-0006	Composition Shingles	Gym roof; east, 3-tab and felt		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rocky fibrous tar, black	No Asbestos Detected	
	Layer 2	fibrous tar backing, black	No Asbestos Detected	
21078.021-0007	Built-up Roofing	Gym roof; flashing line		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rocky fibrous tar, black	No Asbestos Detected	
	Layer 2	fibrous tar, black	3% Chrysotile	
	Layer 3	sticky fibrous tar, black	6% Chrysotile	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.021-0008	Mastic	Roof; at flashing line, gray		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fibrous coating, gray	5% Chrysotile
		Layer 2	fibrous tar, black	4% Chrysotile
21078.021-0009	Mastic	Roof; at flashing line, black		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	black fibrous tar	2% Chrysotile
21078.021-0010	Built-up Roofing	Roof; classroom wing, near south edge		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	paint, silver	No Asbestos Detected
		Layer 2	fibrous tar, black	No Asbestos Detected
		Layer 3	fibrous tar, black	No Asbestos Detected
21078.021-0011	Composition Shingles	Roof; classroom wing, over south edge		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	rocky fibrous tar, black	No Asbestos Detected
		Layer 2	rocky fibrous tar, black	No Asbestos Detected
		Layer 3	fibrous tar backing, black	No Asbestos Detected
21078.021-0012	Mastic	Room 12; under counter top		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	black fibrous tar backing	No Asbestos Detected
21078.021-0013	Pipe Insulation	Room 10; under pipe stub		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fibrous backing, tan	35% Chrysotile
		Layer 2	fibrous tar backing, black	No Asbestos Detected
21078.021-0014	Mastic	Room 13; behind back splash		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fibrous tar backing, black	No Asbestos Detected
		Layer 2	mastic, tan	No Asbestos Detected
21078.021-0015	Mastic	Lower level classroom; behind back splash		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	mastic, yellow	No Asbestos Detected
		Layer 2	fibrous tar backing w/ paint, black	No Asbestos Detected
21078.021-0016	Caulk	Classroom wing; lower window, old caulk at window stop		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	offwhite soft caulking material	2% Chrysotile

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.021-0017	Caulk	Classroom wing; lower window, old caulk at molding next to building		Lab Cor
		Layer: Layer 1	Description: tan soft caulking material	Analysis: 3% Chrysotile
21078.021-0018	Caulk	Classroom wing; lower window, old caulk at header		Lab Cor
		Layer: Layer 1	Description: tan soft caulking material	Analysis: 3% Chrysotile
21078.021-0019	Mastic	Office area; north wall, on plaster		Lab Cor
		Layer: Layer 1	Description: brown mastic w/ paint	Analysis: 4% Chrysotile
21078.021-0020	Mastic	Office; east wall, brown mastic under cork board		Lab Cor
		Layer: Layer 1	Description: coarse cement material, gray	Analysis: No Asbestos Detected
		Layer: Layer 2	Description: mastic, brown	Analysis: No Asbestos Detected
21078.021-0021	Joint Compound	Office corridor; behind wainscot		Lab Cor
		Layer: Layer 1	Description: white joint compound	Analysis: No Asbestos Detected
21078.021-0022	Joint Compound	Office corridor; behind wainscot		Lab Cor
		Layer: Layer 1	Description: white joint compound	Analysis: No Asbestos Detected
21078.021-0023	Wainscot/Mastic	Office hallway; tan vinyl with dark brown mastic		Lab Cor
		Layer: Layer 1	Description: vinyl tile, tan	Analysis: No Asbestos Detected
		Layer: Layer 2	Description: mastic, brown	Analysis: No Asbestos Detected
		Layer: Layer 3	Description: mastic, yellow	Analysis: No Asbestos Detected
		Layer: Layer 4	Description: fine cement material, white	Analysis: No Asbestos Detected
21078.021-0024	Leveling Compound	Basement cafeteria; on concrete floor		Lab Cor
		Layer: Layer 1	Description: tan loose powder	Analysis: No Asbestos Detected
21078.021-0025	Caulk	Boiler room door; sealant from door frame to wood		Lab Cor
		Layer: Layer 1	Description: light gray soft rubbery material	Analysis: No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
21078.021-0026	Caulk	Boiler room doo; sealant from structure to wood		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	brown rubbery material	No Asbestos Detected
21078.021-0027	Gypsum and Plaster	Boiler room; ceiling board		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	coarse compact powder w/ paint, offwhite	No Asbestos Detected
		Layer 2	compact fibrous powder w/ paper, offwhite	No Asbestos Detected
21078.021-0028	Gypsum and Plaster	Boiler room; ceiling board		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	coarse compact powder w/ paint, offwhite	No Asbestos Detected
		Layer 2	compact fibrous powder w/ paper, offwhite	No Asbestos Detected
21078.021-0029	Joint Compound/Mastic	Basement: nw classroom, old tack board area		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fine compact powder w/ paint, white	No Asbestos Detected
		Layer 2	mastic, light brown	No Asbestos Detected



Lab/Cor Portland, Inc.

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

BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Asbestos and Environmental Analysis

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 101151R01
Report Date: 06/22/2010

P.O. No: n/a

Job Number: 101151

Project Name:

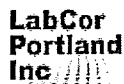
Project Number: 21078.021 Phase 0003

Project Notes:

Client Sample ID: 21078.021-0001		Sample ID: S1				Date Analyzed: 06/22/2010	
Client Sample Description:						Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:		
Layer 01							
mastic, orange-brown	90 %	-	-	-	NAD		
Layer 02							
coompressed fibers, tan	10 %	-	-	-	NAD		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	Trace	-	-	-	100 %	
Layer 02	-	100 %	-	-	-	0 %	

Client Sample ID: 21078.021-0002		Sample ID: S2				Date Analyzed: 06/22/2010	
Client Sample Description:						Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:		
Layer 01							
fibrous coating, gray	3 %	8 %	-	-	8 %		
Layer 02							
rocky fibrous tar, black	20 %	-	-	-	NAD		
Layer 03							
fibrous tar, black	77 %	4 %	-	-	4 %		
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	-	-	-	-	-	92 %	
Layer 02	10 %	-	-	-	-	90 %	
Layer 03	-	3 %	-	-	-	93 %	





Lab/Cor Portland, Inc.

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

BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Asbestos and Environmental Analysis

Job Number: 101151

Report Number: 101151R01

Report Date: 06/22/2010

<u>Client Sample ID:</u> 21078.021-0003		<u>Sample ID:</u> S3			<u>Date Analyzed:</u> 06/22/2010		<u>Percent Asbestos:</u>
<u>Client Sample Description:</u>		<u>Analyst:</u> Stephanie Golden					
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite			
Layer 01							
rocky fibrous tar, black	15%	-	-	-			NAD
Layer 02							
rocky fibrous tar, black	15%	-	-	-			NAD
Layer 03							
fibrous tar, black	45%	3%	-	-			3%
Layer 04							
tar, black	15%	-	-	-			NAD
Layer 05							
fibrous tar backing, black	10%	-	-	-			NAD
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	10%	-	-	-	-	-	90%
Layer 02	10%	-	-	-	-	-	90%
Layer 03	3%	-	-	-	-	-	94%
Layer 04	-	2%	-	-	-	-	98%
Layer 05	20%	-	-	-	-	-	80%

<u>Client Sample ID:</u> 21078.021-0004		<u>Sample ID:</u> S4			<u>Date Analyzed:</u> 06/22/2010		<u>Percent Asbestos:</u>
<u>Client Sample Description:</u>		<u>Analyst:</u> Stephanie Golden					
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
tar, black	100%	-	-	-			NAD
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	-	-	-	-	-	100%

<u>Client Sample ID:</u> 21078.021-0005		<u>Sample ID:</u> S5			<u>Date Analyzed:</u> 06/22/2010		<u>Percent Asbestos:</u>
<u>Client Sample Description:</u>		<u>Analyst:</u> Stephanie Golden					
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite			
Layer 01							
rocky fibrous tar, black	35%	-	-	-			NAD
Layer 02							
rocky fibrous tar, black	35%	-	-	-			NAD
Layer 02							
fibrous tar backing, black	30%	-	-	-			NAD
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
Layer 01	8%	-	-	-	-	-	92%
Layer 02	8%	-	-	-	-	-	92%
Layer 02	10%	45%	-	-	-	-	45%





Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Asbestos and Environmental Analysis

Job Number: 101151

Report Number: 101151R01

Report Date: 06/22/2010

Client Sample ID: 21078.021-0006		Sample ID: S6			Date Analyzed: 06/22/2010	Analyst: Stephanie Golden	Percent Asbestos:
Client Sample Description:		Layer Percent:	Chrysotile	Amosite	Crocidolite		
<u>Asbestos Mineral Fibers</u>							
Layer 01	rocky fibrous tar, black	60%	-	-	-		NAD
Layer 02	fibrous tar backing, black	40%	-	-	-		NAD
<u>Other Fibers</u>		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01		10%	-	-	-	-	90%
Layer 02		8%	45%	-	-	-	47%

Client Sample ID: 21078.021-0007		Sample ID: S7			Date Analyzed: 06/22/2010	Analyst: Stephanie Golden	Percent Asbestos:
Client Sample Description:		Layer Percent:	Chrysotile	Amosite	Crocidolite		
<u>Asbestos Mineral Fibers</u>							
Layer 01	rocky fibrous tar, black	20%	-	-	-		NAD
Layer 02	fibrous tar, black	60%	3%	-	-		3%
Layer 03	sticky fibrous tar, black	20%	6%	-	-		6%
<u>Other Fibers</u>		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01		10%	-	-	-	-	90%
Layer 02		2%	-	-	-	-	95%
Layer 03		3%	2%	-	-	-	89%

Client Sample ID: 21078.021-0008		Sample ID: S8			Date Analyzed: 06/22/2010	Analyst: Stephanie Golden	Percent Asbestos:
Client Sample Description:		Layer Percent:	Chrysotile	Amosite	Crocidolite		
<u>Asbestos Mineral Fibers</u>							
Layer 01	fibrous coating, gray	3%	5%	-	-		5%
Layer 02	fibrous tar, black	97%	4%	-	-		4%
<u>Other Fibers</u>		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01		-	-	-	-	-	95%
Layer 02		2%	-	-	-	-	94%

Client Sample ID: 21078.021-0009		Sample ID: S9			Date Analyzed: 06/22/2010	Analyst: Stephanie Golden	Percent Asbestos:
Client Sample Description:		Layer Percent:	Chrysotile	Amosite	Crocidolite		
<u>Asbestos Mineral Fibers</u>							
Homogeneous	fibrous tar, black	100%	2%	-	-		2%
<u>Other Fibers</u>		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
		-	-	-	-	-	98%





Lab/Cor Portland, Inc.

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

BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Asbestos and Environmental Analysis

Job Number: 101151

Report Number: 101151R01

Report Date: 06/22/2010

<u>Client Sample ID:</u> 21078.021-0010		<u>Sample ID:</u> S10			<u>Date Analyzed:</u> 06/22/2010		<u>Percent Asbestos:</u>
<u>Client Sample Description:</u>		<u>Analyst:</u> Stephanie Golden					
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite			
Layer 01							
paint, silver	2%	-	-	-			NAD
Layer 02							
fibrous tar, black	40%	-	-	-			NAD
Layer 03							
fibrous tar, black	58%	-	-	-			NAD
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	1%	-	-	-	-	99%
Layer 02	2%	15%	-	-	-	-	83%
Layer 03	6%	2%	-	-	-	-	92%

<u>Client Sample ID:</u> 21078.021-0011		<u>Sample ID:</u> S11			<u>Date Analyzed:</u> 06/22/2010		<u>Percent Asbestos:</u>
<u>Client Sample Description:</u>		<u>Analyst:</u> Stephanie Golden					
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite			
Layer 01							
rocky fibrous tar, black	45%	-	-	-			NAD
Layer 02							
rocky fibrous tar, black	35%	-	-	-			NAD
Layer 03							
fibrous tar backing, black	20%	-	-	-			NAD
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	10%	-	-	-	-	-	90%
Layer 02	10%	-	-	-	-	-	90%
Layer 03	-	65%	-	-	-	-	35%





Lab/Cor Portland, Inc.

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

BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

Job Number: 101151

Report Number: 101151R01

Report Date: 06/22/2010

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.

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:

x

Stephanie Golden
Analyst



101151

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0003

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 21, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Harmony Killory
Name

[Signature]
Authorized Signature Date 6/21/10 3:10pm

RECEIVER

Date Received: 6/21/10 3:15pm

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

STEPHANIE GOLDEN
Name

[Signature]
Authorized Signature Date 6/21/10

Sender's ID No.

Brief Description

Receiver's ID No.

- '078.021-0001
21078.021-0002
21078.021-0003
21078.021-0004
21078.021-0005
21078.021-0006
21078.021-0007
21078.021-0008
21078.021-0009
21078.021-0010
21078.021-0011

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No. containing 11 rows of sample IDs.



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Please analyze the enclosed 11 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:

SD

Asbestos and Environmental Analysis

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 101205R01
Report Date: 06/24/2010

P.O. No: n/a

Job Number: 101205
Project Name: Concord E.S.
Project Number: 21078.021 Phase 0003
Project Notes:

Client Sample ID: 21078.021-0012	Sample ID: S1	Date Analyzed: 06/24/2010	Percent Asbestos:
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	
Homogeneous			
fibrous tar backing, black	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
		Synthetic	Other
			Matrix
	60 %	-	40 %

Client Sample ID: 21078.021-0013	Sample ID: S2	Date Analyzed: 06/24/2010	Percent Asbestos:
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	
Layer 01			
fibrous backing, tan	65 %	35 %	-
			35 %
Layer 02			
fibrous tar backing, black	35 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
		Synthetic	Other
			Matrix
Layer 01	-	30 %	-
			35 %
Layer 02	-	60 %	-
			40 %

Client Sample ID: 21078.021-0014	Sample ID: S3	Date Analyzed: 06/24/2010	Percent Asbestos:
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	
Layer 01			
fibrous tar backing, black	97 %	-	-
			NAD
Layer 02			
mastic, tan	3 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
		Synthetic	Other
			Matrix
Layer 01	-	60 %	-
			40 %
Layer 02	-	Trace	-
			99 %

Client Sample ID: 21078.021-0015	Sample ID: S4	Date Analyzed: 06/24/2010	Percent Asbestos:
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	
Layer 01			
mastic, yellow	50 %	-	-
			NAD
Layer 02			
fibrous tar backing w/ paint, black	50 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
		Synthetic	Other
			Matrix
Layer 01	-	1 %	-
			99 %
Layer 02	-	60 %	-
			40 %

Job Number: 101205

Report Number: 101205R01

Report Date: 06/24/2010

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.

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:

x 

Stephanie Golden
Analyst



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0003

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 24, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Harmony Kirby
Name

[Signature] 6/24/10 11:10 am
Authorized Signature Date

RECEIVER

Date Received: 6/24/10 11:10 am

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

STEPHANIE GOUR
Name

[Signature] 6/24/10
Authorized Signature Date

Sender's ID No.	Brief Description	Receiver's ID No.
21078.021-0012	_____	_____
21078.021-0013	_____	_____
21078.021-0014	_____	_____
21078.021-0015	_____	_____

Please analyze the enclosed 4 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: Rush

SPECIAL INSTRUCTIONS: Call Steve D. + Jay D. w/ verbal results.
503-209-1503 503-969-5411
SD/D

Asbestos and Environmental Analysis

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 101223R02
Report Date: 06/25/2010

P.O. No: n/a

Job Number: 101223
Project Name:
Project Number: 21078.021 Phase 0003
Project Notes:

Client Sample ID: 21078.021-0016	Sample ID: S1	Date Analyzed: 06/25/2010	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous soft caulking material, offwhite	100% 2% - -		2%
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 98%

Client Sample ID: 21078.021-0017	Sample ID: S2	Date Analyzed: 06/25/2010	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous soft caulking material, tan	100% 3% - -		3%
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 97%

Client Sample ID: 21078.021-0018	Sample ID: S3	Date Analyzed: 06/25/2010	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous soft caulking material, tan	100% 3% - -		3%
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 97%

Job Number: 101223

Report Number: 101223R02

Report Date: 06/25/2010

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.
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:

x STEPHANIE GOLDEN

Stephanie Golden
Analyst



101223

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0003

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 25, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Harmony Kirby
Name

[Signature]
Authorized Signature Date 6/26/10 10:36 AM

RECEIVER

Date Received: 6/25/10 10:50 AM

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

STEPHANIE GUYDEN
Name

[Signature]
Authorized Signature Date 6/25/10

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No. Rows include IDs 21078.021-0016, 21078.021-0017, and 21078.021-0018.

Please analyze the enclosed 3 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: Rush

SPECIAL INSTRUCTIONS: call Steve. D. w/ verbals. (SD)



Lab/Cor Portland, Inc.

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

BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Asbestos and Environmental Analysis

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 101279R01
Report Date: 06/30/2010

P.O. No: n/a

Job Number: 101279

Project Name:

Project Number: 21078.021 Phase 0003

Project Notes:

Client Sample ID: 21078.021-0019	Sample ID: S1	Date Analyzed: 06/30/2010	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	
Homogeneous			Percent Asbestos:
mastic w/ paint, brown	100 %	4 %	-
			4 %
Other Fibers	Fibrous Glass	Mineral Cellulose	Wool
			Synthetic
			Other
	2 %		
			Matrix
			94 %

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.

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:

x

Stephanie Golden
Analyst





101279

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0003

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 29, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Harmony Kilby
Name

H. Kilby 6/29/10 3pm
Authorized Signature Date

RECEIVER

Date Received: 6/29/10 3:15pm

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

STEPHANIE GOLDEN
Name

[Signature] 6/29/10
Authorized Signature Date

Sender's ID No.

Brief Description

Receiver's ID No.

21078.021-0019

Please analyze the enclosed 1 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: Rush

SPECIAL INSTRUCTIONS: Call Steve D. w/ verbals.

SD



Lab/Cor Portland, Inc.

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

BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055
Fax: (503) 228-8282
http://www.labcorpdx.net

Asbestos and Environmental Analysis

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 101304R01

Report Date: 07/01/2010

P.O. No: n/a

Job Number: 101304

Project Name:

Project Number: 21078.021 Phase 0003

Project Notes:

Client Sample ID: 21078.021-0020

Sample ID: S1

Date Analyzed: 07/01/2010

Client Sample Description:

Analyst: Stephanie Golden

<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
coarse cement material, gray	50%	-	-	-			NAD
Layer 02							
mastic, brown	50%	-	-	-			NAD
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	1 %	-	-	-	-	99 %
Layer 02	-	2 %	-	-	-	-	98 %

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.
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:

x

Stephanie Golden
Analyst





101304

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0003

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 30, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

RECEIVER

Date Received: 6/30/10 3:15pm

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

H. Kilby
Name

STEPHANIE GOWEN
Name

[Signature]
Authorized Signature Date 6/30/10 3pm

[Signature]
Authorized Signature Date 6/30/10

Sender's ID No. Brief Description Receiver's ID No.
21078.021-0020

Please analyze the enclosed 1 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: Rush

SPECIAL INSTRUCTIONS: Call Jay Doane w/ verbals. (SD)

Asbestos and Environmental Analysis

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 101356R01
Report Date: 07/06/2010

Job Number: 101356

P.O. No: n/a

Project Name:

Project Number: 21078.021 Phase 0003

Project Notes:

Client Sample ID: 21078.021-0021	Sample ID: S1	Date Analyzed: 07/06/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous		
joint compound, white	100% - - -	NAD
Other Fibers	Fibrous Mineral Glass Cellulose Wool Synthetic Other	Matrix
	- Trace - - -	100 %

Client Sample ID: 21078.021-0022	Sample ID: S2	Date Analyzed: 07/06/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous		
joint compound, white	100% - - -	NAD
Other Fibers	Fibrous Mineral Glass Cellulose Wool Synthetic Other	Matrix
	- Trace - - -	100 %

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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. 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:

x 
Stephanie Golden
Analyst



101356

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0003

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 06, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Raegan Conroy
Name

RECEIVER

Date Received: 7/6/10 8:15 AM

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

STEPHANIE GOLDEN
Name

Stephanie Golden 7/6/10
Authorized Signature Date

Sender's ID No.

Brief Description

Receiver's ID No.

21078.021-0021

21078.021-0022

Please analyze the enclosed 2 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: Rush

SPECIAL INSTRUCTIONS:
8:15 am
Please call Steve
w/results 503-209-1503

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 101363R01
Report Date: 07/06/2010

Job Number: 101363

P.O. No: n/a

Project Name:

Project Number: 21078.021 Phase 0003

Project Notes:

Client Sample ID: 21078.021-0023

Sample ID: S1

Date Analyzed: 07/06/2010

Client Sample Description:

Analyst: Stephanie Golden

Asbestos Mineral Fibers

Layer	Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, tan	57%	-	-	-	NAD
Layer 02					
mastic, brown	2%	-	-	-	NAD
Layer 03					
mastic, yellow	1%	-	-	-	NAD
Layer 04					
fine cement material, white	40%	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	-	-
Layer 02	-	-	-	-	-
Layer 03	-	-	-	-	-
Layer 04	-	-	-	-	-
					Matrix
					100 %
					100 %
					100 %
					100 %

Client Sample ID: 21078.021-0024

Sample ID: S2

Date Analyzed: 07/06/2010

Client Sample Description:

Analyst: Stephanie Golden

Asbestos Mineral Fibers

Layer	Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose powder, tan	100%	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	1%	-	-	-
					Matrix
					99 %



Lab/Cor Portland, Inc.

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

BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055
Fax: (503) 228-8282
<http://www.labcorpdx.net>

Asbestos and Environmental Analysis

Job Number: 101363

Report Number: 101363R01

Report Date: 07/06/2010

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.

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:

x 

Stephanie Golden
Analyst



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0003

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 06, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

RECEIVER

Date Received: 7/6/10 1:35

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

Name: RC
Authorized Signature: [Signature]
Date: 7/6/10

Name: STEPHANIE GROSSON
Authorized Signature: [Signature]
Date: 7/6/10

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No.
21078.021-0023
21078.021-0024

Please analyze the enclosed 2 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: Rush

SPECIAL INSTRUCTIONS: 503-209-1503
Please call Steve D. w/results

Client: PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239

Report Number: 101423R01
Report Date: 07/12/2010

Job Number: 101423

P.O. No: n/a

Project Name:

Project Number: 21078.021 Phase 0003

Project Notes:

Client Sample ID: 21078.021-0025	Sample ID: S1	Date Analyzed: 07/12/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous		
soft rubbery material, light gray	100 % - - -	NAD
Other Fibers	Fibrous Mineral Glass Cellulose Wool Synthetic Other	Matrix
	- Trace - - - -	100 %

Client Sample ID: 21078.021-0026	Sample ID: S2	Date Analyzed: 07/12/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous		
rubbery material, brown	100 % - - -	NAD
Other Fibers	Fibrous Mineral Glass Cellulose 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.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.
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:

x 

Stephanie Golden
Analyst

101423



Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0003

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, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Harmony Kilroy
Name
H. Kilroy
Authorized Signature
Date: 7/12/10 10am

RECEIVER

Date Received: 7/12/10 10:10 AM

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

Stephanie
Name
Stephanie
Authorized Signature
Date: 7/12/10

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No.
21078.021-0025
21078.021-0026

Please analyze the enclosed 2 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: 4 Hour

SPECIAL INSTRUCTIONS: Call Steve D. w/ verbals.

Client: PBS Engineering + Environmental

Report Number: 101735R01

Report Date: 08/17/2010

P.O. No: n/a

Job Number: 101735

Project Name:

Project Number: 21087.021 Phase 0003

Project Notes:

Client Sample ID: 21087.021-0027	Sample ID: S1	Date Analyzed: 08/17/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01		
coarse compact powder w/ paint, offwhite	40% - - -	NAD
Layer 02		
compact fibrous powder w/ paper, offwhite	60% - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
Layer 01	- 2% - - -	98%
Layer 02	- 7% - - -	93%

Client Sample ID: 21087.021-028	Sample ID: S2	Date Analyzed: 08/17/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01		
coarse compact powder w/ paint, offwhite	35% - - -	NAD
Layer 02		
compact fibrous powder w/ paper, offwhite	65% - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
Layer 01	- 2% - - -	98%
Layer 02	- 6% - - -	94%

Client Sample ID: 21087.021-029	Sample ID: S3	Date Analyzed: 08/17/2010
Client Sample Description:		Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01		
fine compact powder w/ paint, white	55% - - -	NAD
Layer 02		
mastic, light brown	45% - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
Layer 01	- 1% - - -	99%
Layer 02	- - - - -	100%

Job Number: 101735

Report Number: 101735R01

Report Date: 08/17/2010

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM.

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos 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.
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:

x STEPHANIE GOLDEN

Stephanie Golden
Analyst



Engineering + Environmental

101735

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 21078.021 Phase 0003

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: August 17, 2010

PBS Engineering + Environmental
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Name: R.C.
Authorized Signature: [Signature]
Date: 8/17/10

RECEIVER

Date Received: 8/17/10 9:45 AM

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

Name: STEPHANIE GLOWEN
Authorized Signature: [Signature]
Date: 8/17/10

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No. Rows contain IDs 21078.021-0027, 21078.021-0028, and 21078.021-0029.

Please analyze the enclosed 3 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: Rush

SPECIAL INSTRUCTIONS: Rush! Rush!
Verbal Results to Steve Dilling 503-209-1503 SD
cell
503-417-7576 WK

TAB 4: CONTRACTOR PRE-CONTRACT SUBMITTALS



13600 N.E. 10th Avenue, Vancouver, WA 98685
Tel: 360-574-8400 Tel: 503-735-9603 Fax: 360-574-7607

ASBESTOS ABATEMENT SITE WORK PLAN CONCORD ELEMENTARY Milwaukie, Oregon

1.0 General

It is the intent of this work plan to provide the reviewer with sufficient information to gain approval to commence abatement operations, to provide and serve as a working document for Performance Abatement Services (PAS) project management during the course of work, and to eliminate accidents and injuries on the project. This plan is supplemental to PAS standard operating procedures and accident prevention plan. All the requirements of these, and other PAS written programs should be considered inclusive herein. If a conflict exists between this plan, the contract documents or PAS policies and procedures, the most stringent will apply.

2.0 Scope of Work

The scope of work on the project requires the abatement of the asbestos containing materials as identified in the specifications to facilitate renovation activities.

3.0 Abatement Methodology

3.1 OSHA Classifications

It is the intent of PAS to abate the materials identified in the specifications according to the OSHA work classification using the required engineering controls and workpractices mandated by OSHA under 29 CFR 1926.1101.

3.2 Engineering Control and Work Methods

3.2.1 Asbestos Flooring (Floor Tile/ AC Mastic)

Approximately 2300SF of non AC floor tile and AC mastic will be removed from the cafeteria area. Negative pressure enclosures consisting of 4' splash guards on the walls and critical barriers over vents, exterior doors and operable windows will be established and maintained. The floor tile will be removed by mechanical methods where feasible. All ACM will be removed wet and placed into mega boxes or fiber drums. Asbestos containing mastics will be abated by using non or low odor chemical mastic removers- Ecosolve or equivalent. Workers will manually remove the floor adhesive with said chemical strippers and floor buffers

3.2.2 Asbestos Containing Joint Compound

The gypsum board will be removed from the walls & ceilings where specified under a negative pressure containment using wet method for dust control. The Gyp board will be packaged and disposed of as construction debris. If asbestos containing glue dots exist then it will be treated as ACM waste.

3.2.3 Pipe insulation/ Hard fittings

Pipe insulation both horizontal & vertical runs will be abated using the glove bag methods in accordance with OSHA as well as PAS standard operating procedures.

3.2.4 Caulking around windows/Sink

Plastic sheeting will be placed under the windows and on the inside of the windows that are scheduled for removal. The caulking will be wetted prior to removal and then removed manually. HEPA equipped vacuums will be used clean up of any debris. Sink will be properly packaged and disposed of as ACM.

4.0 Chemical and Physical Hazards Associated with the Work

A joint review of the project site was conducted by PAS project management and PAS's Environmental, Safety and Health Department to identify project specific safety and health concerns. The following site specific hazards were identified:

4.1 Electrical Hazards

Prior to performing work in any abatement area or where work requires use of power or the handling of electrical components (i.e., standard electrical outlets, light fixtures) PAS will ensure that all electrical power has been isolated. This will be accomplished by using PAS Lock-out/Tag-out Procedure or by complete isolation (electrical disconnect).

All power used inside negative pressure enclosures shall be equipped with ground fault circuit interrupters (GFCI). A complete electrical disconnect shall be required prior to removing light bulbs or ballasts.

4.2 Fall Protection (not used)

4.3 Chemical Hazards

PAS does not anticipate non-routine chemical hazards or exposures on the project site. In the event that non-routine chemical hazards are discovered, PAS's environmental safety and health department will evaluate the hazards, provide

3.2.2 Asbestos Containing Joint Compound

The gypsum board will be removed from the walls & ceilings where specified under a negative pressure containment using wet method for dust control. The Gyp board will be packaged and disposed of as construction debris. If asbestos containing glue dots exist then it will be treated as ACM waste.

3.2.3 Pipe insulation/ Hard fittings

Pipe insulation both horizontal & vertical runs will be abated using the glove bag methods in accordance with OSHA as well as PAS standard operating procedures.

3.2.4 Caulking around windows/Sink

Plastic sheeting will be placed under the windows and on the inside of the windows that are scheduled for removal. The caulking will be wetted prior to removal and then removed manually. HEPA equipped vacuums will be used clean up of any debris. Sink will be properly packaged and disposed of as ACM.

4.0 Chemical and Physical Hazards Associated with the Work

A joint review of the project site was conducted by PAS project management and PAS's Environmental, Safety and Health Department to identify project specific safety and health concerns. The following site specific hazards were identified:

4.1 Electrical Hazards

Prior to performing work in any abatement area or where work requires use of power or the handling of electrical components (i.e., standard electrical outlets, light fixtures) PAS will ensure that all electrical power has been isolated. This will be accomplished by using PAS Lock-out/Tag-out Procedure or by complete isolation (electrical disconnect).

All power used inside negative pressure enclosures shall be equipped with ground fault circuit interrupters (GFCI). A complete electrical disconnect shall be required prior to removing light bulbs or ballasts.

4.2 Fall Protection (not used)

4.3 Chemical Hazards

PAS does not anticipate non-routine chemical hazards or exposures on the project site. In the event that non-routine chemical hazards are discovered, PAS's environmental safety and health department will evaluate the hazards, provide

direction with regard to PPE, workpractices and engineering controls as well as conduct employee training in accordance with the OSHA Hazard Communication Standard.

5.0 Site Housekeeping Procedures

5.1 Non-Asbestos Containing Debris

The site will be maintained as free as practicable of general construction debris, trash and refuse to eliminate safety and fire hazards. Where such materials cannot be readily removed from the site, the materials will be managed in a manner which eliminates it's potential for injury (i.e., segregation, containerization) or release into the surrounding environment.

5.2 Asbestos Containing Debris

Waste which contains, or is contaminated with asbestos fibers shall be cleaned and containerized as soon as practicable after its disturbance or when such materials become contaminated. Asbestos will not be allowed to accumulate on work surfaces to prevent unnecessary exposure to workers, other craftspersons or the environment.

6.0 Quality Assurance

6.1 Asbestos Fiber and Dust Control

Good work practices (housekeeping, wet methods, use of HEPA vacuums), hygiene practices (proper decontamination procedures) and engineering controls (negative pressure enclosures, mini-enclosures, glovebags) will be used as the primary method in which to prevent, control and where possible eliminate exposure to airborne asbestos fibers. In addition, frequent inspections by project competent persons, project management and PAS's industrial hygienist will further ensure quality control on the project.

6.2 Procedures for Area Air Quality Monitoring

PAS's competent persons will collect area samples on a daily basis. Such monitoring will include, but is not limited to sampling inside work areas, outside work areas, critical barriers, clean room and at the exhaust port of HEPA filtered negative pressure differential units. PAS will utilize an independent industrial hygiene laboratory to analyze all samples collected on the project. Samples will be collected in accordance with the OSHA Reference Method, NIOSH 7400.

6.3 Procedures for Personnel Exposure Monitoring

PAS's competent persons will collect personal samples on a daily basis to determine exposure levels and measure the effectiveness of workpractices and engineering controls. Representative personal samples will be collected on workers performing

those tasks likely to result in the most severe exposure. In addition, representative samples will be collected to provide data with respect to each abatement task performed on the project (i.e., removal of roofing, clean-up of soil contamination, glovebag operations, etc.) PAS will utilize an independent industrial hygiene laboratory to analyze all samples collected on the project. Samples will be collected in accordance with the OSHA Reference Method, NIOSH 7400.

7.0 Emergency Response Procedures for Unanticipated Releases

7.1 Breaches of Enclosures

In the event of a breach of an enclosure, all work shall immediately cease until the breach is repaired. The competent person shall inspect the repairs prior to the continuation of work. In cases, where the breach is severe (i.e., complete loss of NPE integrity), environmental samples shall be collected in the affected area to document the concentration of fugitive, airborne asbestos fibers. All such breaches shall be documented in the competent person's daily report.

7.2 Excessive Fiber Levels

In the event of excessive fiber levels, all workers in the affected shall stop work until a determination can be made by the competent person as to why excessive fiber levels are occurring. The competent person shall make his/her determination based on, but not limited to an evaluation of (1) workpractices (2) engineering controls (3) removal methodology, (4) the level of training and experience of the workers, (5) outside sources, (5) changes in the nature, type, and condition of the material. If airborne concentrations are above the maximum use concentration (MUC) for the selected respirator, respiratory protection must be upgraded until which time additional air samples are collected and analyzed to ensure that fiber concentrations have returned to acceptable levels. All excessive fiber levels shall be documented in the competent person's daily report.

7.3 Outside Spills

In the event of any outside spills, (1) all unauthorized personnel will be removed from the area, (2) the affected area will be immediately demarcated with danger tape and placarded with OSHA asbestos warning signs, (3) personnel will immediately clean the affected area using HEPA vacuums, wet methods or other approved methods, and area samples shall be collected to document the concentrations in the spill area.

7.4 Notification

Owners representative will be notified in the event that any of the above situations occur.

8.0 Procedures for Personnel and Equipment Cleanup and Decontamination

8.1 Personnel Decontamination Procedures (Class II Work)

8.1.1 Workers will remove all contaminated clothing (with the exception of respiratory protection) in the equipment room of the decontamination unit and dispose of contaminated clothing in disposal bags.

8.1.2 Workers will enter the shower chamber, remove respiratory protection after thoroughly cleansing it, then wash their entire body with soap and water.

8.1.3 Workers will exit the shower to the clean side of decontamination chamber and dry off with disposable towels and get re-dress in their street clothing.

8.2 Equipment Decontamination Procedures

8.2.1 While inside the work area, all gross visible debris will be cleaned from the equipment, tool or disposal container.

8.2.2 The item will be passed from the work area to the first of two chambers of the equipment decontamination unit (waste load out) where the item will be wet wiped, rinsed or HEPA vacuumed.

8.2.3 The semi-decontaminated item will then be passed into the second of two chambers of the equipment decontamination unit where it will be inspected for debris, wrapped in polyethylene, or placed in a secondary disposal container.

8.2.4 The item will then be passed through the airlock to the outside space where it will be retained and stored, stored on an interim basis awaiting disposal, or in the case of equipment moved to the next abatement area.

9.0 Waste Management Plan

9.1 Asbestos Waste Streams

Two waste streams are anticipated on the project. This will be both friable & non-friable asbestos containing waste material. Aside from wetting to suppress fiber release, waste will be bagged and the floor tile will be placed in drums. The TSI & tank insulation will be double bagged in 6 mil bags.

9.2. Storage of Asbestos Waste Materials

Asbestos waste materials (i.e., bags, drums) will be staged in the work area until the work is completed in the immediate area. Interim storage for disposal will consist of placing the waste containers in a secure, completely enclosed disposal box (i.e., 40 yd drop box) placarded with OSHA warning signs in accordance with the Oregon Department of Environmental Quality and Oregon OSHA.

9.3 Waste Minimization

PAS shall attempt to minimize the amount of waste material by segregating non-regulated materials from regulated materials, minimizing the volume of waste through processing, where possible (example, crushing fluorescent light tubes), and efficient packaging of waste materials.

9.4 Container Labeling

9.4.1 Asbestos Waste Containers

Asbestos waste containers shall bear the following labels:

9.4.1.1 OSHA Hazard Communication

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE
HAZARD

9.4.1.2 Department of Transportation

ASBESTOS, NA 2212 RQ Class 9 PG III

9.4.1.3 Oregon Department of Environmental Quality (NESHAP)

Generator Name
Generating Location
Asbestos Contractor
Certified Asbestos Supervisor

9.5 Waste Transportation and Disposal

10.5.1 Asbestos Waste Transporter

To Be Determined

10.5.2 Asbestos Waste Landfill

Hillsboro Landfill

10.0 Personal Protective Equipment

10.1 Respiratory Selection

10.1.1 Class II Abatement Work

Half-Face Air Purifying Respirator (HFAPR) equipped with HEPA (P100) filters; or Power Air Purifying Respirator (PAPR) equipped with HEPA (P100) filters. Use of combination Organic Vapor & HEPA when using spray adhesives or mastic

remover solvents in an enclosed area or when conditions result in levels exceed the permissible exposure limit.

10.2 Personal Protective Equipment

11.2.1 Asbestos Abatement

Body Covering:	Tyvex, Spun bound or similar full-body covering
Foot Protection:	Boots (rubber, steel shank)
Head Protection:	Hardhat(building interior only)
Eye protection:	Safety glasses, goggles or PAPR
Hearing Protection:	Ear plugs, earmuffs
Hand Protection:	Rubber, Neoprene, Leather, Canvas
Fall Protection:	Class III, Full-body Harness (If necessary)

11.0 Project team

Estimator /Project Manager	Ben Pullman	Cell -360-518-2699
Superintendent	Ryan Leffel	Cell -503-793-1970
General Foreman (On Site)	Clark Nelson	Cell -503-793-5400



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
4/20/2010


PRODUCER Lockton Companies, LLC-1 Kansas City 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.	
	INSURERS AFFORDING COVERAGE	NAIC #
INSURED 12283 PERFORMANCE ABATEMENT SERVICES, INC. 02-01-23 13600 NE 10TH AVENUE VANCOUVER WA 98685	INSURER A Steadfast Insurance Company (A XV)	26387
	INSURER B American Guarantee and Liab. Ins. Co. (A XV)	26247
	INSURER C Zurich American Insurance Company (A XV)	16535
	INSURER D	
	INSURER E	

COVERAGES PERAB01 V2 THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER AND THE CERTIFICATE HOLDER.

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS

INSR ADD'L LTR	INSRC	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
A		GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> POLLUTION/ASBESTOS <input checked="" type="checkbox"/> CONTRACTUAL/MOLD GEN'L AGGREGATE LIMIT APPLIES PER <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC	GPL 9383410-01	4/1/2010	4/1/2011	EACH OCCURRENCE	\$ 1,000,000
						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000
						MED EXP (Any one person)	\$ 5,000
						PERSONAL & ADV INJURY	\$ 1,000,000
						GENERAL AGGREGATE	\$ 2,000,000
						PRODUCTS - COMP/OP AGG	\$ 2,000,000
B		AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS	BAP 9436073-01	4/1/2010	4/1/2011	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
						BODILY INJURY (Per person)	\$ XXXXXXXX
						BODILY INJURY (Per accident)	\$ XXXXXXXX
						PROPERTY DAMAGE (Per accident)	\$ XXXXXXXX
		GARAGE LIABILITY <input type="checkbox"/> ANY AUTO	NOT APPLICABLE			AUTO ONLY - EA ACCIDENT	\$ XXXXXXXX
						OTHER THAN AUTO ONLY. EA ACC	\$ XXXXXXXX
						AGG	\$ XXXXXXXX
A		EXCESS / UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE <input checked="" type="checkbox"/> UMBRELLA FORM RETENTION \$	9383385-01	4/1/2010	4/1/2011	EACH OCCURRENCE	\$ 5,000,000
						AGGREGATE	\$ 5,000,000
							\$ XXXXXXXX
							\$ XXXXXXXX
							\$ XXXXXXXX
C		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under SPECIAL PROVISIONS below	9436079-01 INCLUDES USL&H INCLUDES STOPGAP	4/1/2010	4/1/2011	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER	
						E L EACH ACCIDENT	\$ 1,000,000
						E L DISEASE - EA EMPLOYEE	\$ 1,000,000
						E L DISEASE - POLICY LIMIT	\$ 1,000,000
		OTHER					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
 020123 5281 NEW URBAN/SOJOURNER; NORTH CLACKAMAS SCHOOL DISTRICT AND NEW URBAN/SOJOURNER SCHOOLS IS/ARE ADDITIONAL INSURED AS RESPECTS LIABILITY COVERAGE FOR THIS PROJECT. INSURANCE SHOWN APPLIES ONLY TO EXTENT OF WRITTEN CONTRACT.

CERTIFICATE HOLDER 10860283 NORTH CLACKAMAS SCHOOL DISTRICT 12451 SE FULLER ROAD MILWAUKIE OR 97222	CANCELLATION [M3871.1] SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL <u>30</u> DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES. AUTHORIZED REPRESENTATIVE 
--	--

The ACORD name and logo are registered marks of ACORD
 For questions regarding this certificate, contact the number listed in the "Producer" section above and specify the client code "PERAB01".

STF-ESP-101-C CW (05/08)

This endorsement, effective 12:01 AM, April 1, 2010

Forms a part of policy no.: GPL 9383410-01

Issued to: PERFORMANCE ABATEMENT SERVICES, INC.

By: STEADFAST INSURANCE COMPANY

ADDITIONAL INSURED - AUTOMATIC - OWNERS, LESSEES OR CONTRACTORS
Coverage Part One - Commercial General Liability
Coverage Part Two - Contractor's Pollution Liability

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the following:

Environmental Services Package Policy

COVERAGE PART ONE - COMMERCIAL GENERAL LIABILITY

COVERAGE PART TWO - CONTRACTOR'S POLLUTION LIABILITY

In consideration of the payment of premium and the Deductible by you and in reliance upon the statements in the Application made a part hereof, we agree with you, subject to all the terms, exclusions, and conditions of the policy and the terms and conditions of the endorsement, that with respect to the coverage parts indicated above the following changes shall apply:

1. Pursuant to Who is an Insured (Section I.) in the COMMON POLICY PROVISIONS paragraph 4., any person or organization whom you are required to add as an additional insured on this policy under a written contract or written agreement executed and effective prior to the performance of your "covered operations" which is the subject of such written contract or written agreement is added as an additional insured.

2. The insurance provided to the additional insured person or organization applies only to:

a. Under COVERAGE PART ONE - COMMERCIAL GENERAL LIABILITY
COVERAGE A - BODILY INJURY AND PROPERTY DAMAGE LIABILITY and
COVERAGE B - PERSONAL AND ADVERTISING INJURY LIABILITY, "claims"
for "bodily injury," "property damage" or "personal and advertising injury" resulting
directly from:

- (1) Your ongoing operations; or
- (2) "Your work" completed as included in the "products-completed
operations hazards"

b. Under COVERAGE PART TWO - CONTRACTOR'S POLLUTION LIABILITY,
"claims" arising out of a "pollution event" resulting directly from your:

- (1) "covered operations"; or
- (2) "Completed operations" of the "covered operations,"

Performed for the additional insured which is the subject of the written contract or written agreement and only if the "claim" is otherwise covered under the terms and conditions of this policy.

3. Regardless of the provisions in paragraphs 1. And 2. Above:

a.. We will not extend any insurance coverage to the additional insured person or organization:

- (1) That is not provided to you in this policy; or
- (2) That is broader coverage than you are required to provide to the additional insured person or organization in the written contract or written agreement; and

b. We will not provide Limits of Insurance to the additional insured person or organization that exceed the lower of:

- (1) The Limits of Insurance provided to you in this policy; or
- (2) The Limits of Insurance you are required to provide in the written contract or written agreement.

4. The insurance provided to the additional insured person or organization does not apply to "claims" as a result of any negligence, act, error or omission, or strict liability of the additional insured person or organization.

5. The insurance provided by this endorsement is primary insurance and we will not seek contribution from any other insurance available to any additional insured person or organization unless the other insurance is provided by a contractor other than you for the same operations, "covered operations" or "completed operations" of the "covered operations" and job location. Then we will share with that other insurance by method described in Other Insurance in Conditions (Section V.) of the COMMON COVERAGE PROVISIONS.

6. Both you and the additional insured person or organization agree to cooperate with each other and us with respect to all aspects of coverage provided under this policy. In the event that you and the additional insured person or organization are named as defendants in a "claim," and are both entitled to defense under this policy for such "claim," we shall provide common counsel to represent you and the additional insured person or organization in a joint defense. If you and the additional insured person or organization adopt positions materially adverse to each other with respect to the "claim," we shall provide the defense and make payments for "claim expenses," or any other associated costs of defense under this policy, only to you from the point of the adversity forward.

The rights and obligations above shall apply in any proceeding and in any forum in which you and the additional insured person or organization are a party to a "claim."

ALL OTHER TERMS AND CONDITIONS OF THE POLICY SHALL APPLY AND REMAIN UNCHANGED.

STF-ESP-101-C CW (05/08)



FULL SCALE ASBESTOS ABATEMENT CONTRACTOR LICENSE

Department of Environmental Quality
1550 N.W. Eastman Parkway, Suite 290
Gresham, OR 97030
Telephone: (503) 667-8414 ext. 55022

Issued in Accordance with the Provisions of ORS 468A.710

ISSUED TO:

PERFORMANCE ABATEMENT SERVICES INC
13600 NE 10TH AVE, VANCOUVER, WA
16400 COLLEGE BLVD, LENEXA, KS 66219

LICENSE NUMBER:

FSC511

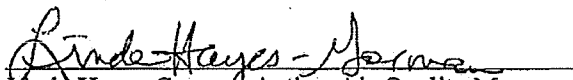
EXPIRATION DATE:

JANUARY 01, 2011

INFORMATION RELIED UPON:

Asbestos Abatement Contractor License Application submitted JANUARY 5, 2010

ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY


Linda Hayes Gorman Acting Air Quality Manager
Northwest Region/Gresham Office

JAN 06 2010

Date

The contractor named above is herewith authorized to conduct asbestos abatement in the State of Oregon subject to the terms and conditions of Oregon Administrative Rules (OAR) Chapter 340 Division 248, including the conditions listed below.

1. The contractor shall ensure that each worker performs asbestos abatement work in compliance with OAR 340-248-0010 through 340-248-0290 and other applicable state and federal asbestos abatement regulations.

STATE OF OREGON
CONSTRUCTION CONTRACTORS BOARD
LICENSE CERTIFICATE

LICENSE NUMBER: 65074

This document certifies that:

PERFORMANCE CONTRACTING INC
16400 COLLEGE BLVD
LENEXA KS 66219

is licensed in accordance with Oregon Law as a General Contractor/All Structures.

License Details:

EXPIRATION DATE: 04/16/2011

ENTITY TYPE: Corporation

INDEP. CONT. STATUS: NON-EXEMPT

BOND AMOUNT: \$15,000

MINIMUM INSURANCE AMOUNT: \$1,000,000

RMI: MICHAEL M MATTHEWS



Medical Surveillance Program

Performance Abatement Services, Inc. has a medical surveillance program for all employees and while doing so, adheres fully to these work practices specified in 1529/07700/1926.1101.

For employees otherwise required by 1529/0700/1926.1101 to wear a negative pressure respirator, PAS shall ensure that employees are physically able to perform the work and use the equipment. This determination shall be made under the supervision of a physician.

Medical examinations and consultations are available to each employee on the following schedules:

1. Prior to assignment of the employee to an area where negative pressure respirators are worn
2. When the employee is assigned to an area where exposure to asbestos may be at or above the permissible limit for 30 or more days per year, or engage in Class I, II, or III work for a combined total of 30 or more days per year, a medical examination must be given within 10 working days following the thirtieth day of exposure
3. And at least annually thereafter.
4. If the examining physician determines that any of the examinations should be provided more frequently than specified, PAS provides such examinations to affected employees at the frequencies specified by the physician.
5. Exception: No medical examination is required of any employee if adequate records show that the employee has been examined in accordance with this paragraph within the past 1-year period.





6. Performance Abatement Services, Inc. shall provide a medical examination at the termination of employment for any employee who has been exposed to airborne concentrations of asbestos at or above the permissible exposure limit and/or excursion limit. The medical examination shall be given within 30 calendar days before or after the date of termination of employment.
7. Examination by a physician. All medical examinations and procedures are performed by, or under the supervision of a licensed physician, and are provided at no cost to the employee, and at a reasonable time and place.
8. Persons other than such licensed physicians who administer the pulmonary function testing, complete a training course in spirometry sponsored by an appropriate academic or professional institution.
9. Medical examinations made available to employees include:
 - a. A medical and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems.
 - b. On initial examination, the standardized questionnaire contained in CFR 1926.1101 Appendix D, Part 1, and, on annual examination, the abbreviated standardized questionnaire contained in CFR 1926.1101, Appendix D, Part 2.
 - c. A physical examination directed to the pulmonary and gastrointestinal systems, including a chest roentgenogram to be administered in accordance with the following table, and pulmonary function tests of forced vital capacity (FVC) and forced expiratory volume at one second (FEV(1)). Interpretation and classification of chest roentgenogram shall be conducted in accordance with CFR 1926.1101.





PART 1 INITIAL MEDICAL QUESTIONNAIRE

- 1. NAME _____
- 2. SOCIAL SECURITY NUMBER _____
- 3. CLOCK NUMBER _____
- 4. PRESENT OCCUPATION _____
- 5. PLANT _____
- 6. ADDRESS _____
- 7. _____
(Zip Code)
- 8. TELEPHONE NUMBER _____
(Area Code)
- 9. INTERVIEWER _____
- 10. DATE _____
- 11. Date of Birth _____
- 12. Place of Birth _____
- 13. Sex: Male _____ Female _____
- 14. What is your marital status?
Single _____ Married _____ Widowed _____ Separated/ Divorced _____
- 15. Ethnic origin:
White _____ Black _____ Asian _____ Hispanic _____ Native American _____
Other _____
- 16. What is the highest grade completed in school? (For example, 12 years is completion of high school.) _____





17. OCCUPATIONAL HISTORY:

17A. Have you ever worked full time (30 hours per week or more) for six months or more? Yes _____ No _____

If Yes to 17A:

B. Have you ever worked for a year or more in any dusty job?

Yes _____ No _____ Does not apply _____

Specific job/industry _____

Total years worked _____

Was dust exposure?

Mild _____ Moderate _____ Severe _____

C. Have you ever been exposed to any hazardous substances in your work?

Yes _____ No _____

Specific job/industry _____

Total years worked _____

Was exposure?

Mild _____ Moderate _____ Severe _____

D. What has been your usual occupation or job - the one you have worked at the longest?

Job/occupation _____

Number of years employed in this occupation _____

Position/job title _____

Business, field or industry _____

(Record on lines the years in which you have worked in any of these industries, e.g. 1960-1969.)





Have you ever worked:

	Yes	No
E. In a mine?	_____	_____
F. In a quarry?	_____	_____
G. In a foundry?	_____	_____
H. In a pottery?	_____	_____
I. In a cotton, flax or hemp mill?	_____	_____
J. With asbestos?	_____	_____

PAST MEDICAL HISTORY

18A. Do you consider yourself to be in good health? Yes _____ No _____

IF NO, STATE REASON: _____

B. Do you have any defect of vision? Yes _____ No _____

IF YES, STATE NATURE OF DEFECT: _____

C. Do you have any hearing defect? Yes _____ No _____

IF YES, STATE NATURE OF DEFECT: _____

D. Are you suffering from or have you ever suffered from:

	Yes	No
a. Epilepsy (or fits, seizures, convulsions)?	_____	_____
b. Rheumatic fever?	_____	_____
c. Kidney disease?	_____	_____
d. Bladder disease?	_____	_____
e. Diabetes?	_____	_____
f. Jaundice?	_____	_____





CHEST COLDS AND CHEST ILLNESSES

19. If you get a cold, does it usually go to your chest? (Usually means more than half the time).

Yes _____ No _____ Don't get colds _____

20A. During the past three years, have you had any chest illnesses that have kept you off work, indoors at home, or in bed?

Yes _____ No _____

IF YES TO 20A:

B. Did you produce phlegm with any of these chest illnesses?

Yes _____ No _____ Does not apply _____

C. In the last three years, how many such illnesses with (increased) phlegm did you have which lasted a week or more?

Number of illnesses _____ No such illnesses _____

21. Did you have any lung trouble before the age of 16?

Yes _____ No _____

22. Have you ever had any of the following?

1A. Attacks of bronchitis? Yes _____ No _____

IF YES TO 1A:

B. Was it confirmed by a doctor?

Yes _____ No _____ Does not apply _____

C. At what age was your first attack?

Age in years _____ Does not apply _____

2A. Pneumonia (include bronchopneumonia)?

Yes _____ No _____

IF YES TO 2A:

B. Was it confirmed by a doctor? Yes _____ No _____





C. At what age did you first have it? Age in years _____ Does not apply _____

3A. Hayfever? Yes _____ No _____

IF YES TO 3A: B. Was it confirmed by a doctor? Yes _____ No _____

Does not Apply _____

C. At what age did it start? Age in Years _____ Does not apply _____

23A. Have you ever had chronic bronchitis?

Yes _____ No _____

IF YES TO 23A:

B. Do you still have it?

Yes _____ No _____ Does not apply _____

C. Was it confirmed by a doctor? Yes _____ No _____

D. At what age did it start?

Age in years _____ Does not apply _____

24A. Have you ever had emphysema? Yes _____ No _____

IF YES TO 24A:

B. Do you still have it?

Yes _____ No _____ Does not apply _____

C. Was it confirmed by a doctor?

Yes _____ No _____ Does not apply _____

D. At what age did it start?

Age in years _____ Does not apply _____

25A. Have you ever had asthma? Yes _____ No _____

IF YES TO 25A:

B. Do you still have it?

Yes _____ No _____ Does not apply _____





C. Was it confirmed by a doctor?

Yes _____ No _____ Does not apply _____

D. At what age did it start?

Age in years _____ Does not apply _____

E. If you no longer have it, at what age did it stop?

Age stopped _____ Does not apply _____

26. Have you ever had?

A. Any other chest illnesses? Yes _____ No _____

If YES, please specify _____

B. Any chest operations? Yes _____ No _____

If YES, please specify _____

C. Any chest injuries? Yes _____ No _____

If YES, please specify _____

27A. Has a doctor ever told you that you had heart trouble?

Yes _____ No _____

IF YES TO 27A:

B. Have you ever had treatment for heart trouble in the past ten years?

Yes _____ No _____ Does not apply _____

28A. Has a doctor ever told you that you had high blood pressure?

Yes _____ No _____

IF YES TO 28A:

B. Have you had any treatment for high blood pressure (hypertension) in the past ten years?

Yes _____ No _____ Does not apply _____

29. When did you last have your chest X-rayed?

Year: _____





30. Where did you last have your chest X-rayed (if known)?

What was the outcome? _____

FAMILY HISTORY

31. Were either of your natural parents ever told by a doctor that they had a chronic lung condition, such as:

	FATHER			MOTHER		
	Yes	No	Not Known	Yes	No	Not Known
A. Chronic Bronchitis?	___	___	___	___	___	___
B. Emphysema?	___	___	___	___	___	___
C. Asthma?	___	___	___	___	___	___
D. Lung Cancer?	___	___	___	___	___	___
E. Other chest conditions?	___	___	___	___	___	___
F. Is parent currently alive?	___	___	___	___	___	___
G. Please specify	___	Age if living		___	Age if living	
	___	Age at death		___	Age at death	
	___	Unknown		___	Unknown	

H. Please specify cause of death _____

COUGH

32A. Do you usually have a cough? (Count a cough with first smoke or on first going out of doors. Exclude clearing of throat.) If NO, skip to 31C.

Yes _____ No _____

B. Do you usually cough as much as 4 to 6 times a day, 4 or more days out of the week? Yes _____ No _____

C. Do you usually cough at all on getting up or first thing in the morning?





EPISODES OF COUGH AND PHLEGM

34A. Have you had periods or episodes of (increased*) cough and phlegm lasting for 3 weeks or more each year? (* For persons who usually have cough and/or phlegm.) Yes _____ No _____

If YES to 34A B. For how long have you had at least one such episode per year? Number of years _____ Does not apply _____

WHEEZING

35A. Does your chest ever sound wheezy or whistling:

	Yes	No
1. When you have a cold?	_____	_____
2. Occasionally apart from colds?	_____	_____
3. Most days or nights?	_____	_____

IF YES TO 1, 2, OR 3 IN 35A:

B. For how many years has this been present?

Number of years _____ Does not apply _____

36A. Have you ever had an attack of wheezing that has made you feel short of breath? Yes _____ No _____

IF YES TO 36A:

B. How old were you when you had your first such attack?

Age in years _____ Does not apply _____

C. Have you had two or more such episodes?

Yes _____ No _____ Does not apply _____

D. Have you ever required medicine or treatment for the(se) attack(s)?

Yes _____ No _____ Does not apply _____





Yes _____ No _____

D. Do you usually cough at all during the rest of the day or at night?

Yes _____ No _____

IF YES TO ANY OF ABOVE (32A,B, C, OR D), ANSWER THE FOLLOWING. IF NO TO ALL, CHECK "DOES NOT APPLY" AND SKIP TO 33A.

E. Do you usually cough like this on most days for 3 consecutive months or more during the year?

Yes _____ No _____ Does not apply _____

F. For how many years have you had the cough?

Number of years: _____

33A. Do you usually bring up phlegm from your chest? (Count phlegm with the first smoke or on first going out of doors. Exclude phlegm from the nose. Count swallowed phlegm.) If NO, skip to 32C. Yes _____ No _____

B. Do you usually bring up phlegm like this as much as twice a day, 4 or more days out of the week? Yes _____ No _____

C. Do you usually bring up phlegm at all on getting up or first thing in the morning? Yes _____ No _____

D. Do you usually bring up phlegm at all during the rest of the day or at night? Yes _____ No _____

IF YES TO ANY OF THE ABOVE (33A, B, C, OR D), ANSWER THE FOLLOWING. IF NO TO ALL, CHECK "DOES NOT APPLY" AND SKIP TO 34A.

E. Do you bring up phlegm like this on most days for 3 consecutive months or more during the year?

Yes _____ No _____ Does not apply _____

F. For how many years have you had trouble with phlegm?

Number of years _____ Does not apply _____





BREATHLESSNESS

37. If disabled from walking by any condition other than heart or lung disease, please describe and proceed to question 39A. Nature of condition(s):

38A. Are you troubled by shortness of breath when hurrying on the level or walking up a slight hill? Yes _____ No _____

IF YES TO 38A:

B. Do you have to walk slower than people of your age on the level because of breathlessness?

Yes _____ No _____ Does not apply _____

C. Do you ever have to stop for breath when walking at your own pace on the level?

Yes _____ No _____ Does not apply _____

D. Do you ever have to stop for breath after walking about 100 yards (or after a few minutes) on the level?

Yes _____ No _____ Does not apply _____

E. Are you too breathless to leave the house or breathless on dressing or climbing one flight of stairs?

Yes _____ No _____ Does not apply _____

TOBACCO SMOKING

39A. Have you ever smoked cigarettes? (No means less than 20 packs of cigarettes or 12 ounces of tobacco in a lifetime or less than 1 cigarette a day for 1 year). Yes _____ No _____

IF YES TO 39A:

B. Do you now smoke cigarettes (as of one month ago)?

Yes _____ No _____ Does not apply _____





C. How old were you when you first started regular cigarette smoking?

Age in years _____ Does not apply _____

D. If you have stopped smoking cigarettes completely, how old were you when you stopped?

Age stopped _____ Check here if still smoking _____

E. How many cigarettes do you smoke per day now?

Cigarettes per day _____ Does not apply _____

F. On the average of the entire time smoked, how many cigarettes did you smoke per day?

Cigarettes per day _____ Does not apply _____

G. Do or did you inhale the cigarette smoke?

Does not apply _____ Not at all _____ Slightly _____

Moderately _____ Deeply _____

40A. Have you ever smoked a pipe regularly? (Yes means more than 12 ounces of tobacco in a lifetime.) Yes _____ No _____

IF YES TO 40A:

FOR PERSONS WHO HAVE EVER SMOKED A PIPE:

B. 1. How old were you when you started to smoke a pipe regularly? Age _____

2. If you stopped smoking a pipe completely, how old were you when you stopped?

Age stopped _____ Check here if still smoking pipe _____ Does not apply _____

C. On the average over the entire time you smoked a pipe, how much pipe tobacco did you smoke per week?

_____ oz. per week (a standard pouch of tobacco contains 1 1/2 oz.)

_____ Does not apply





D. How much pipe tobacco are you smoking now?

Ounces per week _____ Not currently smoking a pipe _____

E. Do you or did you inhale the pipe smoke?

Never smoked _____ Not at all _____ Slightly _____

Moderately _____ Deeply _____

41A. Have you ever smoked cigars regularly? (Yes means more than one cigar a week for a year.) Yes _____ No _____

IF YES TO 41A:

FOR PERSONS WHO HAVE EVER SMOKED CIGARS:

B. 1. How old were you when you started smoking cigars regularly? Age _____

2. If you have stopped smoking cigars completely, how old were you when you stopped?

Age stopped _____ Check here if still smoking cigars _____

Does not apply _____

C. On the average over the entire time you smoked cigars, how many cigars did you smoke per week?

Cigars per week _____ Does not apply _____

D. How many cigars are you smoking per week now?

Cigars per week _____ Check here if not smoking cigars currently _____

E. Do or did you inhale the cigar smoke?

Never smoked _____ Not at all _____ Slightly _____

Moderately _____ Deeply _____

Signature _____ Date _____





PART 2 PERIODIC MEDICAL QUESTIONNAIRE

1. NAME _____

2. SOCIAL SECURITY NUMBER _____

3. CLOCK OR BADGE NUMBER _____

4. PRESENT OCCUPATION _____

5. PLANT _____

6. ADDRESS _____

8. _____

City, State

Zip Code

8. TELEPHONE NUMBER _____

(Area Code)

9. INTERVIEWER _____

10. DATE _____

11. What is your marital status?

Single _____ Married _____ Widowed _____ Separated/ Divorced _____

12. OCCUPATIONAL HISTORY

12A. In the past year did you work full time (30 Hours per week or more) for six months or more?

Yes _____ No _____

If Yes to 12A:

12B. In the past year, did you work in a dusty job?

Yes _____ No _____ Does not apply _____

12C. Was dust exposure

Mild _____ Moderate _____ Severe _____





12D. In the past year, were you exposed to gas or chemical fumes in your work?
Yes _____ No _____

12E. Was exposure:

Mild _____ Moderate _____ Severe _____

12F. In the past year, what was your:

1. Job, Occupation _____

2. Position/job title _____

13 RECENT MEDICAL HISTORY

13A. Do you consider yourself to be in good health?

Yes _____ No _____

IF NO, STATE REASON: _____

13B. In the past year have you developed:

	Yes	No
a. Epilepsy (or fits, seizures, convulsions)?	_____	_____
b. Rheumatic fever?	_____	_____
c. Kidney disease?	_____	_____
d. Bladder disease?	_____	_____
e. Diabetes?	_____	_____
f. Jaundice?	_____	_____

14. CHEST COLDS AND CHEST ILLNESSES

14A. If you get a cold, does it usually go to your chest? (Usually means more than half the time).

Yes _____ No _____ Don't get colds _____





15A. During the past year, have you had any chest illnesses that have kept you off work, indoors at home, or in bed?

Yes _____ No _____ Does not apply _____

IF YES TO 15A:

15B. Did you produce phlegm with any of these chest illnesses?

Yes _____ No _____ Does not apply _____

15C. In the past year, how many such illnesses with (increased) phlegm did you have which lasted a week or more?

Number of such illnesses _____

No such illnesses _____

16. RESPIRATORY SYSTEM

In the past year have you had:

	Yes or No	Further comment on Positive Answers
Asthma	_____	_____
Bronchitis	_____	_____
Hay Fever	_____	_____
Other Allergies	_____	_____
Pneumonia	_____	_____
Tuberculosis	_____	_____
Chest Surgery	_____	_____
Other Lung Problems	_____	_____
Heart Disease	_____	_____





Do you have:	Yes or No	Further comment on Positive Answers
Frequent Colds	_____	_____
Shortness of breath when walking or climbing one flight of stairs	_____	_____
Do you: Wheeze	_____	_____
Cough up phlegm		
Smoke cigarettes	Packs per day _____	How many years _____

Signature _____ Date _____





RECORD KEEPING PROGRAM

Objective Data For Exempted Operations.

Where Pas has relied on objective data that demonstrate that products made from or containing asbestos, tremolite, anthophyllite, or actinolite are not capable of releasing fibers of asbestos, tremolite, anthophyllite, or actinolite or a combination of these minerals, in concentrations at or above the permissible exposure level under the expected conditions of processing, use, or handling to exempt such operations from the initial monitoring requirements under paragraph CFR1926.1101 (F)(2), Performance Abatement Services, Inc. has established, and maintains an accurate record of objective data reasonably relied upon in support of the exemption.

1. The record shall include at least the following information:
 - a. The product qualifying for exemption;
 - b. The source of the objective data;
 - c. The testing protocol, results of testing, and/or analysis of the material for the release of asbestos, tremolite, anthophyllite, or actinolite;
 - d. A description of the operation exempted and how the data support the exemption;
 - e. Other data relevant to the operations, materials, processing, or employee exposures covered by the exemption.
2. Performance Abatement Services, Inc. shall maintain this record for the duration of Performance Abatement Services, Inc.'s reliance upon such objective data.





Exposure measurements.

Performance Abatement Services, Inc. keeps an accurate record of all measurements taken to monitor employees, and PAS keeps an accurate record of all measurements taken to monitor employee exposure to asbestos, tremolite, anthophyllite, or actinolite as prescribed in paragraph CFR 1926.1101(f).

Note: Performance Abatement Services, Inc. may utilize the services of competent organizations such as industry trade associations and employee associations to maintain the records required by 1529/07700/.1101.

This record shall include at least the following information:

1. The date of measurement;
2. The operation involving exposure to asbestos, tremolite, anthophyllite, or actinolite that is being monitored;
3. Sampling and analytical methods used and evidence of their accuracy;
4. Number, duration, and results of samples taken;
5. Name, social security number, and exposure of the employees whose exposures are represented.

Performance Abatement Services, Inc. maintains these records for at least thirty (30) years, in accordance with 29 CFR 1910.10.

Medical surveillance.

Performance Abatement Services, Inc. has established and maintains an accurate record for each employee subject to medical surveillance by paragraph (m) of CFR 1926.1101, in accordance with 29 CFR 1910.1001.

The record includes at least the following information:





- a. The name and social security number of the employee;
- b. A copy of the employee's medical examination results, including the medical history, questionnaire responses, results of any tests, and physician's recommendations;
- c. Physician's written opinions;
- d. Any employee medical complaints related to exposure to asbestos, tremolite, anthophyllite, or actinolite; and
- e. A copy of the information provided to the physician as required by paragraph (m) of CFR 1926.1101.

Performance Abatement Services, Inc. ensures that this record is maintained for the duration of employment plus thirty (30) years, in accordance with 29 CFR 1910.1001 by providing permanent secure storage of all employment records.

Training Records

Performance Abatement Services, Inc. maintains all employee training records for one (1) year beyond the last date of employment by that Performance Abatement Services, Inc..

Records Availability

Performance Abatement Services, Inc., upon written request, shall make all records required to be maintained by CFR 1926.1101(n)(7) available to the Director for examination and copying.

Performance Abatement Services, Inc. upon request, makes any exposure records required by paragraphs (f) and (n) of CFR 1926.1101 available for examination and copying to affected employees, former employees, designated





representatives, and the Fed: Assistant Secretary/CA: Chief of DOSHWA:
Director.

Transfer of records

Performance Abatement Services, Inc. complies with the requirements concerning transfer of records set forth in 29 CFR 1910.1001.

Whenever Performance Abatement Services, Inc. ceases to do business and there is no successor Performance Abatement Services, Inc. to receive and retain the records for the prescribed period, Performance Abatement Services, Inc. shall notify the director at least 90 days prior to disposal and, upon request, transmit them to the Director.



ECOSOLV
Chem Clear
No Odor Mastic Remover

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

IDENTITY: Chem Clear No Odor Mastic Remover SOLVENT BLEND
HFR RATING: Health 2, Fire 2, Reactivity 0

MANUFACTURER: EMERGENCY PHONE NUMBER
Ecosolv, Inc. Chemtrec (800) 424-9300
P.O. BOX 231106
Portland, Oregon 97281-1106

Date Prepared: INFORMATION:
September 1, 2000 (503)691-9703

SECTION II - COMPONENTS

Linear Olefinic Hydrocarbon Family 90% (CAS #112-41-4)
Nonionic Detergent 0-10% (CAS #9016-45-9)

SECTION II-B

ACUTE TOXICITY DATA

NO.	ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALATION LC50
P*	10.0 G/KG (RAT)	10.0 G/KG (RAT)	N/A

*RESULTS BASED ON ESSENTIALLY SIMILAR PRODUCT TESTING.

SECTION III

HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD(29 CFR 1910.1200)

EYE CONTACT

BASED ON ESSENTIALLY SIMILAR PRODUCT, PRODUCT IS MODERATELY IRRITATING TO THE EYES.

SKIN CONTACT

PRODUCT IS MODERATELY IRRITATING TO THE SKIN, PROLONGED OR REPEATED LIQUID CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS. PRODUCT IS NOT A SKIN SENSITIZER, BUT CAN BE SLIGHTLY TOXIC IF ABSORBED THROUGH SKIN OVER LONG PERIODS OF SKIN EXPOSURE.

INHALATION

THIS PRODUCT IS PRESUMED TO HAVE A LOW ORDER OF ACUTE INHALATION TOXICITY.

INGESTION

BASED ON SIMILAR PRODUCT TESTING. PRODUCT IS SLIGHTLY TOXIC, BUT INGESTION MAY RESULT IN VOMITING; ASPIRATION (BREATHING) OF VOMITUS INTO THE LUNGS MUST BE AVOIDED AS EVEN SMALL QUANTITIES MAY RESULT IN ASPIRATION PNEUMONITIS.

SIGNS & SYMPTOMS

MILD IRRITATION AS NOTED ABOVE. ASPIRATION PNEUMONITIS MAY BE EVIDENCED BY COUGHING. LABORED BREATHING AND CYANOSIS (BLUISH SKIN); IN SEVERE CASES DEATH MAY OCCUR.

AGGRAVATED MEDICAL CONDITIONS

PREEXISTING SKIN AND EYE DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

SECTION IV

OCCUPATIONAL EXPOSURE LIMITS

C.O.	OSHA		ACGIH		OTHER
	PEL/TWA	PEL/CEILING	TLV/TWA	TLV/STEL	200 ppm

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT

FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT

REMOVE CONTAMINATED CLOTHING/SHOES AND WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER FOR AT LEAST 15 MINUTES. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED.

INHALATION

REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

INGESTION

DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION.

REFERRAL TO PHYSICIAN

IF MORE THAN 2.0 ML PER KG HAS BEEN INGESTED AND VOMITING HAS NOT OCCURRED, EMESIS SHOULD BE INDUCED WITH IPRONIAZIDE. KEEP VICTIMS HEAD BELOW HIPS TO PREVENT ASPIRATION. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, SEIZURES OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE USING A CUFFED ENDOTRACHEAL TUBE SHOULD BE CONSIDERED.

SECTION VI

SUPPLEMENTAL HEALTH INFORMATION

NONE IDENTIFIED.

SECTION VII

PHYSICAL DATA

BOILING POINT: 409 DEG F (DEG F)	SPECIFIC GRAVITY: 0.772 (H2O=1)	VAPOR PRESSURE: 0.094 (MM HG)	20 DEG C
MELTING POINT: NOT AVAILABLE (DEG F)	SOLUBILITY: (IN WATER)	SLIGHT	VAPOR DENSITY: N/A (AIR=1)

EVAPORATION RATE (N-BUTYL ACETATE = 1): <0.03

APPEARANCE AND ODOR:

COLORLESS LIQUID. MILD HYDROCARBON ODOR.

SECTION VIII

FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD

>200 DEG F (EPA1010/ASTM D93)

FLAMMABLE LIMITS /% VOLUME IN AIR

..... LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA

USE WATER FOG, FOAM, DRY CHEMICAL OF CO2. DO NOT USE A DIRECT STREAM OF WATER. PRODUCTS WILL FLOAT AND CAN BE REIGNITED ON SURFACE WATER.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

CAUTION. COMBUSTIBLE. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

SECTION IX

REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID CONTACT WITH OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION X

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC.IV) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

PROTECTIVE CLOTHING

AVOID CONTACT WITH EYES. WEAR SAFETY GLASSES OR GOGGLES AS APPROPRIATE. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WEAR CHEMICAL RESISTANT GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT.

ADDITIONAL PROTECTIVE MEASURES

USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS.

SECTION XI

ENVIRONMENTAL PROTECTION

FILL OR LEAK PROCEDURES

CAUTION. COMBUSTIBLE. SPILLED MATERIAL IS SLIPPERY. *** LARGE SPILLS *** ELIMINATE POTENTIAL SOURCES OF IGNITION. WEAR APPROPRIATE RESPIRATOR AND OTHER PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND, OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS AND SEAL TIGHTLY FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTION AS ABOVE *** SMALL SPILLS *** TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL.

SECTION XII

SPECIAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS AND FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPORS ARE GONE.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

SECTION XIII

TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION:

COMBUSTIBLE LIQUID. III

THE DOT INFORMATION IN THIS SECTION IS BASED UPON AN EVALUATION OF THE PRODUCT AGAINST THE REQUIREMENTS OF 49 CFR 172 AND 173 AS REVISED BY HM-181

D.O.T. PROPER SHIPPING NAME:

COMBUSTIBLE LIQUID. N.O.S. (CONTAINS ALIPHATIC HYDROCARBONS)

OTHER REQUIREMENTS:

NOT REGULATED BY D.O.T. IF IN A CONTAINER OF 119 GALLON CAPACITY OR LESS.

SECTION XIV

OTHER REGULATORY CONTROLS

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

PROTECTION OF STRATOSPHERIC OZONE (PURSUANT TO SECTION 611 OF THE CLEAN AIR ACT AMENDMENTS OF 1990): PER 40 CFR PART 82. THIS PRODUCT DOES NOT CONTAIN NOR WAS IT DIRECTLY MANUFACTURED WITH ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES.

SECTION XV

STATE REGULATORY INFORMATION

BASED ON INFORMATION AVAILABLE TO ECOSOLV, THIS PRODUCT DOES NOT CONTAIN ANY CHEMICAL SUBSTANCE REGULATED BY A SPECIFIC STATE LIST IN THE QUANTITIES PRESENT.

SECTION XVI

OTHER INFORMATION

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM RAW MATERIAL MANUFACTURERS INFORMATION AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS BELIEVED TO ACCURATE, ECOSOLV, INC., MAKES NO REPRESENTATION AS TO ITS ACCURACY OR SUFFICIENCY. CONDITIONS OF USE ARE BEYOND THE CONTROL OF ECOSOLV, INC., AND THEREFORE USERS ARE RESPONSIBLE FOR THE VERIFICATION OF THIS DATA AND UNDER THEIR OWN OPERATING CONDITIONS IN DETERMINING WHETHER THIS PRODUCT IS SUITABLE FOR THEIR PURPOSES AND THEY ASSUME ALL RISKS OF THEIR PARTICULAR USE, HANDLING AND DISPOSAL OF THIS PRODUCT UNDER THAT USE, OR FROM THE PUBLICATION OR USE OF, OR RELIANCE ON INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY THE THE PRODUCT HEREIN DESIGNATED AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER ACCOUNT.

MANUFACTURED FOR: INLINE DISTRIBUTING CO.
 ADDRESS: 9380 SAN FERNANDO ROAD
 SUN VALLEY, CA 91352
 EMERGENCY PHONE NUMBER: 818-768-3333
 INFORMATION NUMBER:

H. M. I. S	
HEALTH	2
REACTIVITY	0
FLAMMABILITY	4
THESE RATINGS SHOULD BE USED ONLY AS PART OF A FULLY IMPLEMENTED HMIS PROGRAM	

MATERIAL SAFETY DATA SHEET

SECTION I

VOC 54.6%

PRODUCT CLASS: AEROSOL ADHESIVE

PRODUCT CODE NUMBER: POLYTACK III

DATE: 02/13/2002

HAZARDOUS MATERIAL DESCRIPTION: Consumer Commodity ORM-D

PRODUCT NAME: INLINE POLYTACK III 10 OZ. HAPS FREE *Least Harm* *55023*
VOC

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO	OSHA PEL	TWA TLV	STEL	SARA 313	WT % (OPTIONAL)
ACETONE	67-64-1	750	750	1000		15 - 25
PROPANE	74-98-6	1000	1000	ASPHYXIAN		20 - 30
HEPTANE	142-82-5	500	400	400		10 - 20
ISOBUTANE	75-28-5	N/A	800	N/A		5 - 15
ALIPHATIC HYDROCARBON	110-82-7	300	300		X	1 - 10

SECTION III - HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE

INHALATION: CAN CAUSE IRRITATION TO THE NOSE AND THROAT. HIGH CONCENTRATIONS MAY CAUSE HEADACHES, DIZZINESS, NAUSEA, AND CONFUSION.

EYE: MAY CAUSE EYE IRRITATION

SKIN: MAY CAUSE TRANSIENT SKIN IRRITATION

INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION

OTHER: REPORTS HAVE ASSOCIATED PROLONGED AND REPEATED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

SECTION IV - FIRST AID PROCEDURES

SWALLOWING: IF SWALLOWED DO NOT INDUCE VOMITING. CALL POISON CONTROL CENTER HOSPITAL EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP WARM AND QUIET. GET MEDICAL ATTENTION.

EYE: FLUSH WITH LARGE AMOUNTS OF WATER. LIFTING UPPER AND LOWER LIDS OCCASIONALLY. CONTINUE FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

INLINE POLYTACK III HAPS FREE

PAGE 2

SECTION V - PHYSICAL DATA

BOILING POINT	-40F TO 160F	SPECIFIC GRAVITY	0.6
VAPOR PRESSURE PSIG @ 70 F	70 APPROX	MELTING POINT	N.A.
VAPOR DENSITY	2.5	% SOLIDS	23.4%
APPEARANCE AND ODOR: CLEAR LIGHT AMBER SOLUTION			

SECTION VI - FIRE AND EXPLOSION DATA

FLASH POINT AND METHOD -40F TCC FLAMMABLE LIMITS: 1.8 LEL
12.0 UEL

UNUSUAL FIRE AND EXPLOSION HAZARDS: AEROSOL CANS MAY RUPTURE WHEN HEATED

EXTINGUISHING MEDIA: USE WATER FOG, DRY CHEMICAL, FOAM OR CARBON DIOXIDE

SPECIAL FIRE FIGHTING PROCEDURES: HEATING OF CONTENTS ABOVE 130F MAY CAUSE CANS TO BURST.

SECTION VII - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: STORING IN HIGH TEMPERATURES OR EXPOSING TO OPEN FLAMES

INCOMPATIBILITY (CONDITIONS TO AVOID): NONE

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: NONE

SECTION VIII - SPILL OR LEAK INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: ELIMINATE ALL SOURCES OF IGNITION. PERMIT ONLY PROPERLY PROTECTED WORKERS IN THE AREA WITH SKIN/EYE PROTECTION AND SELF CONTAINED BREATHING GEAR. ABSORB SMALL SPILLS WITH INERT ABSORBANT MATERIAL. CONTACT STATE, LOCAL, AND FEDERAL AGENCIES TO ENSURE COMPLIANCE WITH CURRENT REGULATIONS.

WASTE DISPOSAL METHOD: WASTE MUST BE DISPOSED OF ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS.

SECTION IX - PERSONAL PROTECTION INFORMATION

RESPIRATION PROTECTION: IF THE TLV'S LISTED IN SECTION II ARE EXCEEDED USE A PROPERLY FITTED NIOSH/MSHA APPROVED RESPIRATOR.

VENTILATION: LOCAL AND MECHANICAL VENTILATION ARE RECOMMENDED TO KEEP ANY HAZARDOUS INGREDIENTS LISTED IN SECTION II BELOW THE LOWEST EXPOSURE LIMIT.

HAND PROTECTION: RESISTANT PLASTIC OR RUBBER RECOMMENDED.

EYE PROTECTION: WEAR SAFETY CHEMICAL SPLASH GOGGLES.

OTHER PROTECTIVE EQUIPMENT: NOT LIKELY TO BE NEEDED.

SECTION X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE CANS IN A COOL, DRY AND WELL VENTILATED AREA AWAY FROM ALL IGNITION SOURCES. PROLONGED EXPOSURE OF CANS TO ELEVATED TEMPERATURES MAY CAUSE CANS TO RUPTURE OR BURST.

THE FOREGOING DATA HAS BEEN COMPILED FROM SOURCES WE BELIEVES TO BE ACCURATE. NO WARRANTY, EXPRESS OR IMPLIED, IS INTENDED. THIS INFORMATION IS OFFERED SOLELY FOR YOUR CONSIDERATION AND INTERPRETATION.

MATERIAL SAFETY DATA SHEET

REVISION DATE: 02-07-2000

SUPERSEDES: 01-02-2000

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY INFORMATION

Foster Products Corporation
H.B. Fuller Company Subsidiary
2900 Granada Lane
Oakdale, MN 55128
Phone: 651-236-3785

Medical Emergency Phone Number (24 Hours): 1-888-853-1758
Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

PRODUCT INFORMATION

PRODUCT IDENTIFIER: FD3222
PRODUCT NUMBER: FD3222
PRODUCT NAME: FOSTER 32-22
REGISTERD TRADE NAME: PROTEKTOR SEALANT, CLEAR
PRODUCT DESCRIPTION: Encapsulant

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for any additional exposure limit guidelines.

Chemical Name	CAS #	PERCENT	OSHA PEL
---------------	-------	---------	----------

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS RATING: HEALTH -- 0 FLAMMABILITY -- 0 REACTIVITY -- 0
See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY

EYE: No hazard in normal industrial use.

SKIN: No hazard in normal industrial use.

INHALATION: No hazard in normal industrial use.

INGESTION: Ingestion is not an anticipated route of exposure.

LONG-TERM (CHRONIC) HEALTH EFFECTS

MATERIAL SAFETY DATA SHEET

TARGET ORGAN(S): No organs known to be damaged from exposure to this product.

REGULATED CARCINOGEN STATUS:

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: No medical conditions affected by exposure.

SECTION 4: FIRST AID MEASURES

IF IN EYES: None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.

IF ON SKIN: Wash with soap and water.

IF VAPORS INHALED: This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure.

IF SWALLOWED: No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT:	Non flammable
AUTOIGNITION TEMPERATURE:	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
UPPER EXPLOSIVE LIMIT (% in air):	Not established
EXTINGUISHING MEDIA:	Use water spray, foam, dry chemical or carbon dioxide.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, Carbon monoxide

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: No adverse health effects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this MSDS.

CLEAN-UP: Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

SECTION 7: HANDLING AND STORAGE

Handling: No special handling instructions due to toxicity.

This product contains an ingredient that may release formaldehyde at heated cure temperatures.

Storage: Store in a cool, dry place.

MATERIAL SAFETY DATA SHEET

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: No special requirements under normal industrial use.

SKIN PROTECTION: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

GLOVES: Not normally required. Use nitrile gloves if conditions warrant.

RESPIRATORY PROTECTION: No respiratory protection required under normal conditions of use. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

VENTILATION: No exposure limits exist for the constituents of this product. No engineering controls are likely to be required to maintain operator comfort under normal conditions of use.

EXPOSURE LIMITS:

Chemical Name	ACGIH EXPOSURE LIMITS	AIHA WEEL
---------------	-----------------------	-----------

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: Colorless

ODOR: Mild Sweet

ODOR THRESHOLD: Not established

WEIGHT PER GALLON (lbs.): 8.45

SPECIFIC GRAVITY: 1.01

SOLIDS (% by weight): 10.0

pH: 5.1

BOILING POINT (deg. C): Not established

FREEZING/MELTING POINT (deg. C): Not established

VAPOR PRESSURE (mm Hg): Not established

VAPOR DENSITY: Not established

EVAPORATION RATE: Not established

OCTANOL/WATER COEFFICIENT: Not established

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CHEMICAL INCOMPATIBILITY: Not established

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

CHEMICAL NAME	LD50/LC50
---------------	-----------

TOXICOLOGY SUMMARY: No additional health information available.

SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available

MATERIAL SAFETY DATA SHEET

SECTION 13: DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

SECTION 14: TRANSPORTATION INFORMATION

Consult Bill of Lading for transportation information.

SECTION 15: REGULATORY INFORMATION

INVENTORY STATUS

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's Inventory requirements.

If you need more information about the inventory status of this product call 651-236-5858.

TSCA Section 12(b) - Export Notice Requirements

This product contains a chemical substance that is currently on the EPA's Section 12(b) Export List. Contact the company Global Regulatory Group at 651/236-5858 for the identity of the Section 12(b) chemical(s).

FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 72. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%
---------------	------	---

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.

STATE REPORTING

This MSDS is not prepared for distribution in California.

SECTION 16: ADDITIONAL INFORMATION

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to Foster Products Corporation from its suppliers, and because Foster Products

MATERIAL SAFETY DATA SHEET

Corporation has no control over the conditions of handling and use, Foster Products Corporation makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and Foster Products Corporation assumes no responsibility for use or reliance thereon. It is the responsibility of the user of Foster Products Corporation products to comply with all applicable federal, state and local laws and regulations.

Section Nine

RESPIRATOR PROGRAM

1. Where Respirator use is not required:
 - a. The Company may provide respirators at the request of employees or permit employees to use their own. If the Company determines that any voluntary respirator use is permissible, the Company must provide the user with the information contained in "Appendix D to 1910.134 (Non Mandatory) Information for Employees Using Respirators When Not Required Under The Standard." (See attached) A record of distribution of Appendix D must be maintained in each employee's personnel file.
 - b. If employees are using their own respirators or their respirator use is voluntary, the Company shall ensure that the employee is medically able to use the respirator and that the respirator is cleaned, stored, and maintained so that its use does not present a health hazard to the user.

Exception

Employers are not required to include in a written respiratory protection program those employees whose only use of respirators involves the voluntary use of filtering facepieces (dust masks).

2. Where Respirator use is required:
 - a. The Company shall select and provide an appropriate respirator based on the respiratory hazard(s) to which the worker is exposed and workplace and user factors that affect respirator performance. All respirators must be N.I.O.S.H. certified.

- b. The company shall identify and evaluate the respiratory hazard(s) in the workplace. The evaluation shall include:
 - 1. A reasonable estimate of employee exposures to respiratory hazards.
 - 2. Identification of the contaminant's chemical state and physical form.
- c. Where the Company cannot identify or reasonably estimate the employee exposure, the Company shall consider the atmosphere to be "immediately dangerous to life or health" (I.D.L.H.).
- d. The following respirators are required for employee use in (I.D.L.H.) atmospheres:
 - 1. A full facepiece pressure demand S.C.B.A. certified by N.I.O.S.H. for a minimum service life of thirty minutes, or,
 - 2. A combination full facepiece pressure demand supplied-air respirator (S.A.R.) with auxiliary self-contained air supply.

NOTE: All oxygen-deficient atmospheres shall be considered (I.D.L.H.).
- e. Respirators for atmospheres that are not (I.D.L.H.):
 - 1. The Company shall provide a respirator that is adequate to protect the health of the employee and ensure compliance with OSHA requirements.
 - a. The respirator selected shall be appropriate for the chemical state and physical form of the contaminant.
 - 1. For protection against gases and vapors, the Company shall provide:
 - a. An atmosphere-supplying respirator, or,
 - b. Provided that the respirator is equipped with an "end-of-service-life" indicator (E.S.L.I.)

1. If there is no E.S.L.I. appropriate for conditions in the workplace, the Company shall implement a change schedule for canisters and cartridges that is based on objective information. This schedule must be documented for each job. (See "Change Schedule For Canisters and Cartridges" Form.)
2. For protection against particulates, the Company shall provide:
 - a. An atmosphere-supplying respirator, or,
 - b. An air-purifying respirator equipped with a filter certified by N.I.O.S.H.
3. Medical Evaluation
 - a. Using a respirator may place a physiological burden on employees that varies with the type of respirator worn, the job conditions, and the medical status of the employee. Therefore, the Company must implement a medical evaluation program to determine the employee's ability to use a respirator.
 - b. The Company shall provide a medical evaluation to determine the employee's ability to use a respirator before the employee is fit tested or required to use a respirator in the workplace.
 1. The Company shall identify a physician or other licensed health care professional to perform a medical evaluation using the attached medical questionnaire.
 - c. The Company shall ensure that a follow-up medical examination is provided for an employee who gives a positive response to any question among questions 1 through 8 in Section 2, Part A of the questionnaire or

whose initial medical examination demonstrates the need for a follow-up medical examination.

- d. The medical questionnaire shall be administered confidentially during the employee's normal working hours. The Company shall provide the employee with an opportunity to discuss the questionnaire and examination results with the physician. (See attached questionnaire.)
- e. The following information must be provided to the physician before he/she makes a recommendation concerning an employee's ability to use a respirator: (See attached "Supplemental Information For The Physician.")
 1. The type and weight of respirator to be used.
 2. The duration and frequency of respirator use.
 3. The expected physical work.
 4. Additional protective clothing and equipment to be worn.
 5. Any temperature and/or humidity extremes.
 6. The Company must also provide the physician with a copy of this Respirator Program and the completed Respirator Medical Evaluation Questionnaire and a copy of the OSHA Standard.
- f. In determining the employee's ability to use a respirator, the Company shall:
 1. Obtain a written recommendation regarding the employee's ability to use a respirator from the physician. The recommendation shall provide the following: (See attached "Medical Determination" form that can be used for this purpose.)
 - a. Any limitations on respirator use including whether or not the employee is medically able to use the respirator.
 - b. The need, if any, for a follow-up medical evaluation.

- c. A statement that the physician has provided the employee with a copy of the physician's written recommendation.
- 4. The Company shall require that, before an employee is required to use a respirator (not a filtering facepiece) the employee must be fit tested with the same make, model, style, and size of respirator that will be used.
 - a. The Company shall ensure that employees using respirators pass an appropriate qualitative fit test or quantitative fit test.
 - b. The fit test shall be performed prior to the initial use of the respirator, whenever a different respirator facepiece is used, and at least annually thereafter. (See Fit Test Record for documentation purposes.)
 - c. The fit test shall be administered using an OSHA-accepted qualitative or quantitative protocol. (See attached Appendix A.)
 - d. A qualitative fit test may only be used to fit test negative pressure air-purifying respirators that must achieve a fit factor of 100 or less.
 - e. If the fit factor, as determined through an OSHA-accepted quantitative protocol is equal to or greater than 100 for half facepieces, or equal to or greater than 500 for full facepieces, the quantitative fit test has been passed.
 - f. Fit testing of atmosphere-supplying respirators and air-purifying respirators shall be accomplished by performing quantitative or qualitative fit testing in the negative pressure mode.
- 5. The employer must implement procedures for the proper use of respirators.
 - a. The company shall not permit respirators to be worn by employees who have:
 - 1. Facial hair that comes between the sealing surface of the facepiece and the face, or that interferes with valve function.

2. Any condition that interferes with face-to-facepiece seal or valve function.
3. If an employee wears corrective glasses, the Company shall ensure that the corrective glasses are worn in a manner that does not interfere with the seal of the facepiece to the face.
- b. The Company shall insure that employees leave the respirator use area:
 1. To wash their face and respirator facepiece as necessary.
 2. If they detect vapor or gas breakthrough, changes in breathing resistance, or leakage of the facepiece.
 3. To replace the respirator or the filter, cartridge, or canister elements.
6. Procedures for atmospheres that are "immediately dangerous to life or health" require the employer to ensure:
 - a. At least one employee is stationed outside the I.D.L.H. atmosphere.
 1. Visual, voice, or signal line communication is maintained between the employee(s) inside and outside the I.D.L.H. atmosphere.
 2. The employee(s) located outside the I.D.L.H. atmosphere are trained and equipped to provide effective emergency rescue.
 3. Employee(s) located outside the I.D.L.H. atmosphere shall be equipped with:
 - a. Pressure demand or other positive pressure S.C.B.A.'s.
 - b. Appropriate retrieval equipment.
7. The Company is required to provide for cleaning and disinfecting, storage, inspection, and repair of respirators.
 - a. The Company shall provide each respirator user with a respirator that is clean, sanitary, and in good working order.

1. The Company shall ensure that respirators are cleaned and disinfected using the procedures recommended by the respirator manufacturer as a minimum. Respirators shall be cleaned and disinfected at the following intervals:
 - a. Respirators issued for the exclusive use of an employee, shall be cleaned and disinfected as often as necessary to be maintained in a sanitary condition.
 - b. Respirators issued to more than one employee shall be cleaned and disinfected before being worn by different employees.
 - c. Respirators maintained for emergency use shall be cleaned and disinfected after each use.
 - d. Respirators used in fit testing and training shall be cleaned and disinfected after each use.
- b. The Company shall ensure that respirators are stored as follows:
 1. All respirators shall be stored to protect them from damage, contamination, dust, sunlight, extreme temperatures, excessive moisture and damaging chemicals.
 2. Emergency respirators shall be kept accessible to the work area and shall be stored in compartments or in covers clearly marked as containing emergency respirators.
- c. The Company shall ensure that respirators are inspected as follows:
 1. All respirators used in routine situations shall be inspected before each use and during cleaning.
 2. All respirators maintained for use in emergency situations shall be inspected at least monthly and before and after each use. (See Emergency Use Inspection Record.)

3. Respirator inspections shall include:
 - a. A check of respirator function, tightness of connections, and the condition of the various parts.
 - b. A check of the elastomeric parts for pliability and signs of deterioration.
4. Self-contained breathing apparatus shall be inspected monthly. Air and oxygen cylinders shall be fully charged and shall be recharged when the pressure falls to 90% of the manufacturer's recommended pressure level.
5. For respirators maintained for emergency use, the Company shall certify the respirator by documenting the date of the inspection, the name of the person who made the inspection, the findings, required remedial action, and the respirator serial number or other means of identifying the inspected respirator. This information shall be maintained until replaced following the subsequent inspection/certification.
- d. The Company shall ensure that respirators that fail an inspection or are otherwise found to be defective are removed from service, and are discarded or repaired or adjusted in accordance with the following procedures:
 1. Repairs or adjustments to respirators are to be made only by persons appropriately trained to perform such operations.
 2. Repairs shall be made according to the manufacturer's recommendations.

3. Reducing and admission valves, regulators, and alarms shall be adjusted or repaired only by the manufacturer or technician trained by the manufacturer.
8. The Company is required to provide employees using atmosphere-supplying respirators with breathing gases of high purity.
 - a. The company shall ensure that compressed air, compressed oxygen, liquid air, and liquid oxygen used for respiration accords with the following specifications:
 1. Compressed breathing air shall meet at least the requirements for Type 1 – Grade D breathing air.
 2. The Company shall insure that oxygen concentrations greater than 23.5% are used only in equipment designed for oxygen service or distribution.
 3. The Company shall ensure that cylinders are tested and maintained as prescribed in the shipping container specification regulations of the D.O.T..
 4. The Company shall ensure that compressors used to supply breathing air to respirators are constructed and situated as to:
 - a. Prevent entry of contaminated air into the air-supply system.
 - b. Minimize moisture content so that the dew point at one (1) atmosphere pressure is 10 degrees F below the ambient temperature.
 - c. Have suitable in-line air-purifying sorbent beds and filters to further ensure breathing air quality.

5. For all compressors that are not oil-lubricated, the Company shall ensure that carbon monoxide levels in the breathing air do not exceed 10ppm.
6. For oil-lubricated compressors, the Company shall use a high-temperature or carbon monoxide alarm, or both, to monitor carbon monoxide levels.
9. The Company is required to provide effective training to all employees who are required to use respirators. The training must be comprehensive, understandable, and recur annually, and more often if necessary. The Company is also required to provide the basic information on respirators in Appendix D to employees who wear respirators when not required to do so.
 - a. The Company shall ensure that each employee can demonstrate knowledge of at least the following: (See attached written examination.)
 1. Why the respirator is necessary and how proper fit, usage, or maintenance can compromise the protection effect of the respirator.
 2. What the limitations and capabilities of the respirator are.
 3. How to use a respirator effectively in emergency situations, including situations in which the respirator malfunctions.
 4. How to inspect, put on and remove, use, and check the seals of the respirator.
 5. What the procedures are for maintenance and storage of the respirator.
 6. How to recognize medical signs and symptoms that may limit or prevent the effective use of respirators.

7. Employee must receive at least a 70% score to pass the written examination. If the employee fails to pass the exam, he/she must be retrained and retested until a 70% score (or above) has been obtained.
 - b. The Company shall provide training prior to requiring the employee to use a respirator.
 - c. Retraining shall be administered annually, and when the following situations occur:
 1. Changes in the workplace or type of respirator render previous training obsolete.
 2. Inadequacies in the employee's knowledge or use of the respirator indicate that the employee has not retained the requisite understanding or skill.
10. The Company shall conduct evaluations of the workplace as necessary to ensure that the provisions of the current written program are being effectively implemented. (See attached Evaluation and Employee Assessment Form.)
11. The Company shall regularly consult employees required to use respirators to assess the employees' views on program effectiveness, to identify problems and develop appropriate corrective action. The factors to be assessed are:
 - a. Respirator fit.
 - b. Respirator selection.
 - c. Proper respirator use.
 - d. Proper respirator maintenance.
12. The Company is required to establish and retain written information regarding:
 - a. Medical evaluations.
 - b. Fit testing.

c. Respirator program.

13. Other documentation that will be maintained (not government required):

- a. Training test.
- b. Program evaluation and employee's assessment.
- c. Appendix D distribution.
- d. Cartridge change schedule.
- e. Other medical information as necessary.

14. Other mandatory sections of OSHA 1910.134, Respiratory Program (See attached copy of the regulation.):

- ◆ Appendix "A" to 1910.134: Fit Testing Procedures (Mandatory)
- ◆ Appendix "B" to 1910.134: User Seal Check Procedures (Mandatory) and Respirator Cleaning Procedures (Mandatory).
- ◆ Appendix "C" to 1910.134: OSHA Respirator Medical Evaluation Questionnaire (Mandatory).
- ◆ Appendix "D" to 1910.134: Information for Employees Using Respirators When Not Required.

(SAMPLE - To be typed on Branch letterhead and distributed to all employees on an annual basis and at orientation.)

Appendix D to 1910.134: Information for Employees Using Respirators When Not Required By OSHA Standards.

Respirators are an effective method of protection against designated hazards when properly selected and worn. Respirator use is encouraged, even when exposures are below the exposure limit, to provide an additional level of comfort and protection for workers. However, if a respirator is used improperly or not kept clean, the respirator itself can become a hazard to the worker. Sometimes, workers may wear respirators to avoid exposures to hazards, even if the amount of hazardous substance does not exceed the limits set of OSHA standards. If your employer provides respirators for your voluntary use, or if you provide your own respirator, you need to take certain precautions to be sure that the respirator itself does not present a hazard.

You should read the following:

1. Read and heed all instructions provided by the manufacturer on use, maintenance, cleaning and care, and warnings regarding the respirators limitations.
2. Choose respirators certified for use to protect against the contaminant of concern. N.I.O.S.H., The National Institute for Occupational Safety and Health of the U.S. Department of Health and Human Services, certifies respirators. A label or statement of certification should appear on the respirator or respirator packaging. It will tell you what the respirator is designed for and how much it will protect.
3. Do not wear your respirator into atmospheres containing contaminants for which your respirator is not designed to protect against. For example, a respirator designed to filter dust particles will not protect you against gases, vapors or very small solid particles of fumes or smoke.
4. Keep track of your respirator so that you do not mistakenly use someone else's respirator.

(Sample – To be copies on Branch Letterhead and completed by every employee required to wear a respirator. The employee will take this questionnaire to the Physician.)

Appendix C to 1910.134: OSHA Respirator Medical Questionnaire

To The Employee:

1. Can You Read (Circle One): Yes / No

The Company must allow you to answer this questionnaire during normal working hours, or at a time and place convenient to you. To maintain the confidentiality of this questionnaire, the Company must not review your answers to these questions. The Company will have you hand carry your completed questionnaire, along with other related documents to the physician who will review it as part of the process to determine if you are physically capable to wear a respirator and perform the required duties of the job.



13600 N.E. 10th Avenue, Vancouver, WA 98685

Tel: 360-574-8400 Tel: 503-735-9603 Fax: 360-574-7607

North Clackamas School District

**Riverside Elementary
Concord Elementary
New Urban/ Sojourner
Oak Grove Elementary
View Acres Elementary**

RE: Asbestos Certifications for Oregon workers & supervisors

Please be advised that all employees on asbestos abatement projects will have the proper certification (AHERA accredited worker or supervisor class) to perform the work at the specified project sites.

Since there will be numerous certified workers on these five schools and it's not clear at this time whom they will be; all certifications will be submitted with the close out documentation.

If you have any questions regarding this matter you may contact me at the number listed below. We look forward to working with PBS and North Clackamas School District on this project.

Sincerely,

PERFORMANCE ABATEMENT SERVICES

A handwritten signature in black ink, appearing to read "Ben Pullman".

**Ben Pullman
Estimator / Project Manager
360-574-8400**

TAB 5: CONTRACTOR CLOSEOUT SUBMITTALS

ASN 1 DEQ PROJECT NOTIFICATION FORM



For Removal or Encapsulation of Friable Asbestos-Containing Material

For DEQ use only	
Date Received	_____
Amount Received	_____
Check Number	_____
Project Number	_____

ATTENTION! This notification must be complete and received by DEQ at least 10 days before the start date of any friable asbestos abatement project and accompanied by the notification fee. (PLEASE TYPE OR PRINT CLEARLY)

PROJECT CATEGORY AND NOTIFICATION FEE

- EMERGENCY (Emergency notifications require a 50% fee increase)
- A. \$100 for each project with less than 40 linear or 80 square feet of asbestos-containing material or for each residential abatement project.
- B. \$200 for projects from 40 to 259 linear feet or 80 to 159 square feet of asbestos-containing material. **PAS 5250**
- C. \$400 for projects from 260 to 1299 linear feet or 160 to 799 square feet of asbestos-containing material.
- D. \$525 for projects from 1300 to 2599 linear feet or 800 to 1599 square feet of asbestos-containing material.
- E. \$900 for projects from 2600 to 4999 linear feet or 1600 to 3499 square feet of asbestos-containing material.
- F. \$1,050 for projects from 5000 to 9999 linear feet or 3500 to 5999 square feet of asbestos-containing material.
- G. \$1,700 for projects from 10,000 to 25,999 linear feet or 6000 to 15,999 square feet of asbestos-containing material.
- H. \$2,800 for projects from 26,000 to 259,999 linear feet or 16,000 to 159,999 square feet of asbestos-containing material.
- I. \$3,500 for projects 260,000 linear feet or more or 160,000 square feet or more of asbestos-containing material.

1. Is this a revision to a previous notification? Yes No If Yes, enter Revision # _____

2. Asbestos abatement project starting date: Jun 21, 2010 Completion date: Jul 25, 2010

3. Project site name: Concord Elementary school
 Address: 3811 SE Concord Road Milwaukie Clackamas 97267
(Street Address) (Apt. #, Floor #, Bldg #) (City) (County) (ZIP)

4. Property Owner: North Clackamas School District
 Address: 12450 SE Fuller Road Milwaukie, OR 97222
(City) (State) (ZIP)

5. Site Contact: Ryan Leffel Phone: 503-793-1970

6. Type of structure:
Commercial building two story

7. Present use of structure:
Elementary School

8. Was a survey performed? Yes: No:
 Who performed the survey: PBS Environmental

9. Will this be a complete demolition? Yes: No:
 If yes, give demolition start date: N/A

10. Type of asbestos-containing material and where it is located in facility:
Vinyl asbestos floor tile in cafeteria, pipe insulation in classrooms & hallway, concrete asbestos board exterior

11. Quantity of asbestos material to be removed or encapsulated:
 Linear feet: 360 Square feet: 2300

12. Abatement Contractor Name: PERFORMANCE ABATEMENT SERVICES
 Address: 13600 NE 10th Ave Vancouver, WA 98685
(City) (State) (ZIP)
 Phone: 360-574-8400
 DEQ license number: FSC 511

13. Describe method of removal or encapsulation:
Negative pressure containments, glove bag, wet method, HEPA vacuum, double bag, fiber drum

14. Days of week and hours of day to be worked:
7:00-4:30

15. Oregon Certified Supervisor on this project:
Gabriel Abac / Clark Reynolds / Charlie Halaupo / Bo Williams / Gary Brown
 Oregon Certification #: S12033 / S12128 / S11977 / S11898 / S11916 / 9

16. Asbestos disposal site: Hillsboro Landfill
 Address: 3205 DE Minter Bridge road Hillsboro, OR

17. Waste Hauler: Interstate Drop Box
 Phone: 360-887-8034

18. Name of owner, operator, or abatement contractor: PERFORMANCE ABATEMENT SERVICES

19. Signature: [Signature] Date: May 25, 2010 Phone: 360-574-8400

Sign this form and mail with the fee to the DEQ Business Office, 811 SW 6th, Portland, OR 97204. Make checks payable to "DEQ". Revisions to notifications may be faxed to the appropriate DEQ regional office in Gresham NWR (503) 674-5148, Bend ER (541) 388-8283, Medford WR (541) 776-6262, or Salem WR (503) 378-4196.

(Revised 7/08)

ASN 1 DEQ PROJECT NOTIFICATION FORM



For Removal or Encapsulation of Friable Asbestos-Containing Material

For DEQ use only

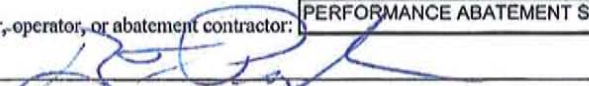
Date Received _____
 Amount Received _____
 Check Number _____
 Project Number _____

ATTENTION! This notification must be complete and received by DEQ at least 10 days before the start date of any friable asbestos abatement project and accompanied by the notification fee. (PLEASE TYPE OR PRINT CLEARLY)

PROJECT CATEGORY AND NOTIFICATION FEE

- EMERGENCY (Emergency notifications require a 50% fee increase)
- A. \$100 for each project with less than 40 linear or 80 square feet of asbestos-containing material or for each residential abatement project.
 B. \$200 for projects from 40 to 259 linear feet or 80 to 159 square feet of asbestos-containing material.
 C. \$400 for projects from 260 to 1299 linear feet or 160 to 799 square feet of asbestos-containing material.
 D. \$525 for projects from 1300 to 2599 linear feet or 800 to 1599 square feet of asbestos-containing material.
 E. \$900 for projects from 2600 to 4999 linear feet or 1600 to 3499 square feet of asbestos-containing material.
 F. \$1,050 for projects from 5000 to 9999 linear feet or 3500 to 5999 square feet of asbestos-containing material.
 G. \$1,700 for projects from 10,000 to 25,999 linear feet or 6000 to 15,999 square feet of asbestos-containing material.
 H. \$2,800 for projects from 26,000 to 259,999 linear feet or 16,000 to 159,999 square feet of asbestos-containing material.
 I. \$3,500 for projects 260,000 linear feet or more or 160,000 square feet or more of asbestos-containing material.

1. Is this a revision to a previous notification? Yes No If Yes, enter Revision #
2. Asbestos abatement project starting date: Completion date:
3. Project site name:
 Address:
(Street Address) (Apt #, Floor #, Bldg #) (City) (County) (ZIP)
4. Property Owner:
 Address:
(City) (State) (ZIP)
5. Site Contact: Phone:
6. Type of structure:
7. Present use of structure:
8. Was a survey performed? Yes: No:
 Who performed the survey?
9. Will this be a complete demolition? Yes: No:
 If yes, give demolition start date:
10. Type of asbestos-containing material and where it is located in facility:
11. Quantity of asbestos material to be removed or encapsulated:
 Linear feet: Square feet:
12. Abatement Contractor Name:
 Address:
(City) (State) (ZIP)
 Phone:
 DEQ license number:
13. Describe method of removal or encapsulation:
14. Days of week and hours of day to be worked:
15. Oregon Certified Supervisor on this project:

 Oregon Certification #:
16. Asbestos disposal site:
 Address:
17. Waste Hauler:
 Phone:
18. Name of owner, operator, or abatement contractor:
19. Signature:  Date: Phone:

Sign this form and mail with the fee to the DEQ Business Office, 811 SW 6th, Portland, OR 97204. Make checks payable to "DEQ". Revisions to notifications may be faxed to the appropriate DEQ regional office in Gresham NWR (503) 674-5148, Bend ER (541) 388-8283, Medford WR (541) 776-6262, or Salem WR (503) 378-4196.

ASN 1 DEQ PROJECT NOTIFICATION FORM



For Removal or Encapsulation of Friable Asbestos-Containing Material

For DEQ use only	
Date Received	_____
Amount Received	_____
Check Number	_____
Project Number	_____

ATTENTION! This notification must be complete and received by DEQ at least 10 days before the start date of any friable asbestos abatement project and accompanied by the notification fee. (PLEASE TYPE OR PRINT CLEARLY)

PROJECT CATEGORY AND NOTIFICATION FEE

- EMERGENCY (Emergency notifications require a 50% fee increase)
- A. \$100 for each project with less than 40 linear or 80 square feet of asbestos-containing material or for each residential abatement project.
- B. \$200 for projects from 40 to 259 linear feet or 80 to 159 square feet of asbestos-containing material.
- C. \$400 for projects from 260 to 1299 linear feet or 160 to 799 square feet of asbestos-containing material.
- D. \$525 for projects from 1300 to 2599 linear feet or 800 to 1599 square feet of asbestos-containing material.
- E. \$900 for projects from 2600 to 4999 linear feet or 1600 to 3499 square feet of asbestos-containing material.
- F. \$1,050 for projects from 5000 to 9999 linear feet or 3500 to 5999 square feet of asbestos-containing material.
- G. \$1,700 for projects from 10,000 to 25,999 linear feet or 6000 to 15,999 square feet of asbestos-containing material.
- H. \$2,800 for projects from 26,000 to 259,999 linear feet or 16,000 to 159,999 square feet of asbestos-containing material.
- I. \$3,500 for projects 260,000 linear feet or more or 160,000 square feet or more of asbestos-containing material.

ON HOLD

1. Is this a revision to a previous notification? Yes No If Yes, enter Revision # 2

2. Asbestos abatement project starting date: Jun 21, 2010 Completion date: Jul 25, 2010

3. Project site name: Concord Elementary school
 Address: 3811 SE Concord Road Milwaukie Clackamas 97267
(Street Address) (Apt #, Floor #, Bldg #) (City) (County) (ZIP)

4. Property Owner: North Clackamas School District
 Address: 12450 SE Fuller Road Milwaukie, OR 97222
(City) (State) (ZIP)

5. Site Contact: Ryan Leffel Phone: 503-793-1970

6. Type of structure:
Commercial building two story

7. Present use of structure:
Elementary School

8. Was a survey performed? Yes: No:
 Who performed the survey? PBS Environmental

9. Will this be a complete demolition? Yes: No:
 If yes, give demolition start date: N/A

10. Type of asbestos-containing material and where it is located in facility:
Vinyl asbestos floor tile in cafeteria, pipe insulation in classrooms & hallway, concrete asbestos board exterior

11. Quantity of asbestos material to be removed or encapsulated:
 Linear feet: 360 Square feet: 2300

12. Abatement Contractor Name: PERFORMANCE ABATEMENT SERVICES
 Address: 13600 NE 10th Ave Vancouver, WA 98685
(City) (State) (ZIP)
 Phone: 360-574-8400
 DEQ license number: FSC 511

13. Describe method of removal or encapsulation:
Negative pressure containments, glove bag, wet method, HEPA vacuum, double bag, fiber drum

14. Days of week and hours of day to be worked:
6:00- 2:30
Monday - Friday - Starting June 28th

15. Oregon Certified Supervisor on this project:
Gabriel Abac / Clark Reynolds/ Charlie Haluapo/ Bo Williams/ Gary Brown
 Oregon Certification #: S12033 / S12128/S11977/S11898/S118

16. Asbestos disposal site: Hillsboro Landfill
 Address: 3205 DE Minter Bridge road Hillsboro, OR

17. Waste Hauler: Interstate Drop Box
 Phone: 360-887-8034

18. Name of owner, operator, or abatement contractor: PERFORMANCE ABATEMENT SERVICES

19. Signature: _____ Date: Jun 25, 2010 Phone: 360-574-8400

Sign this form and mail with the fee to the DEQ Business Office, 811 SW 6th, Portland, OR 97204. Make checks payable to "DEQ". Revisions to notifications may be faxed to the appropriate DEQ regional office in Gresham NWR (503) 674-5148, Bend ER (541) 388-8283, Medford WR (541) 776-6262, or Salem WR (503) 378-4196.

6280

ASN 4

ASBESTOS WASTE SHIPMENT REPORT FORM



PLEASE PRINT OR TYPE! If you have questions, contact your local DEQ Regional Office in Gresham at (503) 667-8414 x 55018, Salem at (503) 378-5086, Medford at (541) 776-6010 ext. 235, or Bend at (541) 388-6146 ext. 226, Pendleton (541) 278-4626, OR call (800) 452-4011 for the location of your local regional DEQ office.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Concord Elementary School
5811 SE Concord | Milwaukie OR | Clackamas | 97267
Street City/State County Zip

Contact person: Ryan Laffel Phone: 1360 574 8400

2. Operator's name and address: PERFORMANCE ABATEMENT SERVICES Phone: 360.574.8400
13600 NE 10 TH AVENUE | VANCOUVER, WA | CLARK | 98,685
Street City/State County Zip

3. Waste disposal site: Hillshade Landfill Phone: 503 640 9427
2205 SE Minor Bridge Road | Hillsboro OR | Washington | 97123
Street City/State County Zip

4. Describe asbestos materials: Asb caulking, windows, transit panels

5. Containers: Number: 31 / 65 Type: double bagged w/ methods

6. Total quantity (cubic yards): 100 4 wrap bagged double

7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

Name: Clark Reynolds Company: PERFORMANCE ABATEMENT
 Signature: [Signature] Date: 7/12/10

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
 Agent: Tony Campbell Company: IOB
 Address: PO Box 901, B10645, ECP Phone: 360-887-8031
 Signature: [Signature] Date: 7-13-10

9. Transporter #2: (Acknowledgment of receipt of materials)
 Agent: _____ Company: _____
 Address: _____ Phone: _____
 Signature: _____ Date: _____

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Waste Management 3205 SE Minor Bridge Rd Hillsboro OR 97123
 Name and Title: Justin Fletcher Date: 7-13-10
 Signature: [Signature] Phone: 503 640-9427

11. DISCREPANCY SPACE: (Add attachments as needed)

ASN 4

ASBESTOS WASTE SHIPMENT REPORT FORM

5280



PLEASE PRINT OR TYPE! If you have questions, contact your local DEQ Regional Office in Gresham at (503) 667-8414 x 55018, Salem at (503) 378-5086, Medford at (541) 776-6010 ext. 235, or Bend at (541) 388-6146 ext. 226, Pendleton (541) 278-4626, OR call (800) 452-4011 for the location of your local regional DEQ office.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Concord Elementary School
3611 SE Concord Road, Milwaukie OR, Clackamas, 97267

Contact person: Ryan Lottel, Phone: 503 793 1970

2. Operator's name and address: PERFORMANCE ABATEMENT SERVICES, 13600 NE 10 TH AVENUE, VANCOUVER, WA, CLARK, 98,685

3. Waste disposal site: Hillsboro Landfill, 3205 SE Munster Bridge Road, Hillsboro OR, Washington, 97121

4. Describe asbestos materials: sheet rock joint compound / mastic + file

5. Containers: Number: 229 / 14, Type: 46 gal bag wet method bag/barrel

6. Total quantity (cubic yards): 40

7. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form. Name: Clark Reynolds, Company: PERFORMANCE ABATEMENT, Signature: [Signature], Date: 6/29/10

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials) Agent: Tony Goss, Company: IDS, Address: PO Box 901, Hillsboro, OR, Phone: 503-887-9034, Signature: [Signature], Date: 6-29-10

9. Transporter #2: (Acknowledgment of receipt of materials) Agent: [Blank], Company: [Blank], Address: [Blank], Phone: [Blank], Signature: [Blank], Date: [Blank]

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: HILLSBORO LANDFILL, Name and Title: (503) 640-9427, Date: [Blank], Signature: BRAD BLUE - OPS, Phone: [Blank]

11. DISCREPANCY SPACE: (Add attachments as needed) JUN 29 2010, [Signature: Brad Blue]



Asbestos
Asbestos, Demolition, Lead, Mold

Project Daily Log

Branch: 02-01-23

Project Name: Concord Elem.

Date: 6/21/10

Building/Floor/Area: 1st/2nd

Job#: 5282

Questions:

- | | |
|--|-------------|
| Has each employee signed the Job Site Orientation Checklist? | Yes/No |
| Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted? | <u>Y</u> |
| Are approved abatement techniques being used? | <u>Y</u> |
| Are dust control procedures being complied with? | <u>Y</u> |
| Is the abatement/work area isolated and are the appropriate warning signs posted? | <u>Y</u> |
| Have work area barriers been checked at the beginning and end of each shift? | <u>Y</u> |
| Are personnel exposure levels being monitored (by PAS and/or others)? | <u>W/IT</u> |
| Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)? | <u>Y</u> |

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	Clark Reynolds	12128	8		
2	Gary Brown	11869	8		
3	Virginia Redman	16214	8		
4	Scott Martin	16097	8		
5	Fernando Arangate	11493	8		
6	Dan Cross	16094	8		
7	Andrea Cappello	15980	8		
8					
9					
10					
11					
12					
13					
14					
15					



Project Name: Concord Bldg Job #: _____ Date: _____

Description of Work:

Meet crew and G.C. (Jason Skynard), walk
 job and take care of jobsite orientation.
 Mobilize in supplies and equipment.
 Start building containment in cafeteria. Left
 Gary in charge while running to Sejour-
 New Urban and View Acres.
 Met with PBS (Steve D and Jay).
 Crew nearly completed by lunch with
 containment in cafeteria. Start on containment in
 main office.
 Ordered cones and make run to shop
 for additional supplies and equipment. Shut down
 by 3:30 pm.

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.	
Sign:	Sign:
Sign: Virginia Redman	Sign:
Sign: Fernando Amargante	Sign:
Sign: Aueler Cappell	Sign:
Sign:	Sign:
Sign: Dan Cross	Sign:
Sign:	Sign:
Sign: Jay B...	Sign:

Prepared by: C. Reynolds Supervisor Cert.#: 12128



Asbestos Project Daily Log
Asbestos, Demolition, Lead, Mold

Branch: 02-01-23 Project Name: Concord Date: 6/24/10
 Building/Floor/Area: Lwr Job#: 5280

- Questions:** Yes/No
- Has each employee signed the Job Site Orientation Checklist? Y
 - Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted? Y
 - Are approved abatement techniques being used? Y
 - Are dust control procedures being complied with? Y
 - Is the abatement/work area isolated and are the appropriate warning signs posted? Y
 - Have work area barriers been checked at the beginning and end of each shift? Y
 - Are personnel exposure levels being monitored (by PAS and/or others)? Y
 - Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)? Y

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	Clash Reynolds	12128	8		
2	Gary Brown	11869	8		
3	Don Cross	16094	8		
4	Amelia Coppello	15980	8		
5	Scott Martin	16097	8		
6	Virginia Redman	16218	8		
7	Fernando Arango	16443	8		
8					
9					
10					
11					
12					
13					
14					
15					



Project Name: Concord Glen Job #: _____ Date: _____

DESCRIPTION OF WORK:

Crew continues prep on office space.
 Set up Pinal items in cafeteria.
 Gary takes part of crew down to cafeteria and starts non ACh file removal.
 Meet up by lunch.
 Gary left in charge while checking on Oak Grove and Riverside schools.
 By 1pm start on mastic removal work for rest of shift on mastic.
 Will complete by early am next shift.

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.
 Hoy no he tenido ninguna violación de seguridad, herida o accidente, y soy elegible por el Programa Incentivo de Seguridad (Safety Incentive Program).

Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign: Virginia Redman	Sign:
Sign:	Sign:
Sign: Fernando Arangate	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert.#: nrh



Asbestos Project Daily Log
Asbestos, Demolition, Lead, Mold

Branch: 02-01-23 Project Name: Lower Upper Concord Date: 6/23/10
 Building/Floor/Area: Lower / Upper Job#: 6/23/10

Questions: Yes/No

Has each employee signed the Job Site Orientation Checklist? Y

Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted? Y

Are approved abatement techniques being used? Y

Are dust control procedures being complied with? Y

Is the abatement/work area isolated and are the appropriate warning signs posted? Y

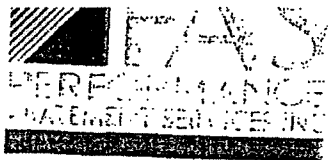
Have work area barriers been checked at the beginning and end of each shift? Y

Are personnel exposure levels being monitored (by PAS and/or others)? Y

Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)? Y

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	Clark Reynolds	12128	8		
2	Don Cross	16094	8		
3	Virginia Redman	16218	8		
4	Scott Martin	16097	8		
5	Fernando Arango	16493	8		
6	Arnell Smith	15980	8		
7					
8					
9					
10					
11					
12					
13					
14					
15					



Project Name: _____ Job #: _____ Date: _____

DESCRIPTION OF WORK:

Put Fernando upstairs to continue prep. on office space.

Myself and remainder of crew on mastic work after quick early morning meeting with Gary at View Acres.

Finish mastic work shortly after lunch with majority of crew leaving one to take care of some final cleaning.

Crew buttons up containment and check with PBS (Jay). Start demo of lid. 3/4 down by end of shift. Secure debris and bag. Clean up by 3:30. Will finish bagging and clean up next shift.

Added lid needed for containment. Will go up before any more demo takes place.

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.
 Hoy no he tenido ninguna violación de seguridad, herida o accidente, y soy elegible por el Programa Incentivo de Seguridad (Safety Incentive Program).

Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert. #: _____



Asbestos
Asbestos, Demolition, Lead, Mold

Project Daily Log

Branch: 02-01-23

Project Name: Concord Glen

Date: 6/24/10

Building/Floor/Area: Low Super

Job#: 5782

Questions:

- | | |
|--|----------|
| Has each employee signed the Job Site Orientation Checklist? | Yes/No |
| Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted? | <u>Y</u> |
| Are approved abatement techniques being used? | <u>Y</u> |
| Are dust control procedures being complied with? | <u>Y</u> |
| Is the abatement/work area isolated and are the appropriate warning signs posted? | <u>Y</u> |
| Have work area barriers been checked at the beginning and end of each shift? | <u>Y</u> |
| Are personnel exposure levels being monitored (by PAS and/or others)? | <u>Y</u> |
| Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)? | <u>Y</u> |

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	Clark Reynolds	12128	8		
2	Fernando Arangate	16493	8		
3	Don Cross	16094	8		
4	Virginia Redman	16214	8		
5	Andrea Capipello	45980	8		
6	Scott Martin	16097	8		
7					
8					
9					
10					
11					
12					
13					
14					
15					



Project Name: Canaan Blen Job #: _____ Date: _____

Description of Work:

Crew puts up extra lid after nit pick of lid. Continues on clean up of remainder of debris.

Arrange for dumpster to be delivered - arrived by end of shift.

Try, in lower classrooms, and took one bank (6) windows out. Clean up den debris.

Crew finishes final demo and bulk of double bay by end of shift, will load out at the start of next shift.

Crew at end of day starts load out of debris from cafeteria containment. 90% out by end of shift.

Scissor lift from Sunbelt on site by end of shift

Extra clean up activities done on lower floor from plumbers

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.

Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert #: 12128



Project Name: Canaan Blon Job #: _____ Date: _____

Description of Work:

Crew puts up extra lid after nit pick of lid. Continues on clean up of remainder of debris.

Arrange for dumpster to be delivered - arrived by end of shift.

Try, in lower classrooms, and took one bank (6) windows out. Clean up dem debris.

Crew finishes final demo and bulk of double bay by end of shift, will load out at the start of next shift.

Crew at end of day starts load out of debris from cafeteria containment, 90% out by end of shift.

Scissor lift from Sunbelt on site by end of shift

Extra clean up activities done on lower floor from plumbers

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.

Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert.#: 12128

Branch: 02-01-23

Project Name: Concord ES

Date: 6/25/10

Building/Floor/Area: Upper Office / Lwr / windows

Job#: 105280

Questions:

- | | |
|--|--------|
| Has each employee signed the Job Site Orientation Checklist? | Yes/No |
| Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted? | Y |
| Are approved abatement techniques being used? | Y |
| Are dust control procedures being complied with? | Y |
| Is the abatement/work area isolated and are the appropriate warning signs posted? | Y |
| Have work area barriers been checked at the beginning and end of each shift? | Y |
| Are personnel exposure levels being monitored (by PAS and/or others)? | Y |
| Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)? | Y |

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	Clark Reynolds	12128	8		
2	Don Cooper	16094	5.5		
3	Andrea Cupido	15980	8		
4	Scott Martin	16097	8		
5	Fernando Gonzalez	16493	8		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

Project Name: _____ Job #: _____ Date: _____

DESCRIPTION OF WORK:

Load out ACM bags from office to dumpster. Final clean containment. Spray down and huff vac. Call PBS for visual. Jay gives go ahead and lock down. This activity took most of the shift.

Take various windows out from around school, at OC's request, for measurement purposes. PBS ready for running clearance.

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.
 Hoy no he tenido ninguna violación de seguridad, herida o accidente, y soy elegible por el Programa Incentivo de Seguridad (Safety Incentive Program).

Sign: <i>[Signature]</i>	Sign:
Sign: <i>[Signature]</i>	Sign:
Sign: <i>[Signature]</i>	Sign:
Sign: <i>[Signature]</i>	Sign:
Sign: <i>[Signature]</i>	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert.#: 12128



Asbestos Project Daily Log
Asbestos, Demolition, Lead, Mold

Branch: 02-01-23 Project Name: Control Etc Date: 6/28/10

Building/Floor/Area: Ins / Windows Job#: 50282

Questions:

Has each employee signed the Job Site Orientation Checklist?	Yes/No
Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted?	<u>Y</u>
Are approved abatement techniques being used?	<u>Y</u>
Are dust control procedures being complied with?	<u>Y</u>
Is the abatement/work area isolated and are the appropriate warning signs posted?	<u>Y</u>
Have work area barriers been checked at the beginning and end of each shift?	<u>Y</u>
Are personnel exposure levels being monitored (by PAS and/or others)?	<u>Y</u>
Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)?	<u>Y</u>

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	Scott Martin	16097	8		
2	Don Crossy	16094	8		
3	Armerio Cappello	15980	8		
4	Clark Reynolds	12128	8		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



Project Name: Concord Blom. Job #: _____ Date: 6/28/10

Description of Work:

Minor work needed after tear down of cafeteria.
 Set crew up to prep classrooms and exterior for window removal.
 Removed 3 full banks of windows from courtyard area (south). Crew scrapes and cleans areas after work.
 Will move to north side next shift to complete windows before site contractor needs access to area.

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.

Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert.#: 12129



Asbestos Project Daily Log
Asbestos, Demolition, Lead, Mold

Branch: 02-01-23 Project Name: Concord Bldg Date: 6/24/10
 Building/Floor/Area: Upper / Lwr / Windows Job#: _____

Questions:	Yes/No
Has each employee signed the Job Site Orientation Checklist?	y
Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted?	y
Are approved abatement techniques being used?	y
Are dust control procedures being complied with?	y
Is the abatement/work area isolated and are the appropriate warning signs posted?	y
Have work area barriers been checked at the beginning and end of each shift?	y
Are personnel exposure levels being monitored (by PAS and/or others)?	y
Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)?	y

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	Scott Martin	16097	8		
2	Don Cross	16094	8		
3	Andrea Capetto	15980	8		
4	Clark Reynolds	1228	8		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

1-875



Project Name: C. Reynolds Job #: _____ Date: _____

Description of Work:

Prep and go on 4 more banks of windows. 3 completed by end of shift.
 Clearance on office come in late in the shift.
 Take down signs but will tear down containment first thing next shift.
 Arrange for delivery of boom lift for late this week or early next week.
 Call for dump and return on asbestos dumpster will transfer to view tubes.
 Will also get additional supplies and equipment for other North Clackamas schools and to start glove bag activities (both scope and extra).

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.

Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert.#: 12124



Asbestos
Asbestos, Demolition, Lead, Mold

Project Daily Log

Branch: 02-01-23

Project Name: Concord Elementary

Date: 6/30/10

Building/Floor/Area: _____

Job#: _____

Questions:

Yes/No

- Has each employee signed the Job-Site Orientation Checklist? _____
- Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted? _____
- Are approved abatement techniques being used? _____
- Are dust control procedures being complied with? _____
- Is the abatement/work area isolated and are the appropriate warning signs posted? _____
- Have work area barriers been checked at the beginning and end of each shift? _____
- Are personnel exposure levels being monitored (by PAS and/or others)? _____
- Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)? _____

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	Clark Reynolds	12128	8		
2	Scott Martial	16097	8		
3	Jan Cross	16097 16097			
4	Andrea Cippello	15980	8		
5	Fernando Aranzate	16493	6		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



Project Name: Concord Elementary Job #: _____ Date: _____

DESCRIPTION OF WORK:

Crew preps for windows.
 PBS and Sky seal have extra in office
 and pipe wrap.
 Start on windows - only get 2 bays
 100% finished. Third one out but not cleaned
 up.
 Start glove bagging in end rooms of east
 wing. Finish 2 rooms by end of shift.
 PBS in specs.
 Wall board removed in office - need
 to scrape mastic (PBS determined was ACM)
 clean up, hope vac, and turn back over to
 Sky seal.
 All areas picked up by end of shift.

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.
 Hoy no he tenido ninguna violación de seguridad, herida o accidente, y soy elegible por el
 Programa Incentivo de Seguridad (Safety Incentive Program).

Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert.#: 1424



Asbestos
Asbestos, Demolition, Lead, Mold

Project Daily Log

Branch: 02-01-23 Project Name: Concord Elementary Date: 7/1/10
 Building/Floor/Area: Lower Urinalans Job#: 5012

Questions:	Yes/No
Has each employee signed the Job Site Orientation Checklist?	<u>N</u>
Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted?	<u>Y</u>
Are approved abatement techniques being used?	<u>Y</u>
Are dust control procedures being complied with?	<u>Y</u>
Is the abatement/work area isolated and are the appropriate warning signs posted?	<u>Y</u>
Have work area barriers been checked at the beginning and end of each shift?	<u>Y</u>
Are personnel exposure levels being monitored (by PAS and/or others)?	<u>Y</u>
Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)?	<u>Y</u>

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	<u>Clah Reynolds</u>	<u>12128</u>	<u>8</u>		
2	<u>Scott Martin</u>	<u>16097</u>	<u>8</u>		
3	<u>John Cass</u>	<u>16094</u>	<u>8</u>		
4	<u>Andrea Coppello</u>	<u>15980</u>	<u>8</u>		
5	<u>Fernando Arangate</u>	<u>16493</u>	<u>6</u>		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



Project Name: Concord Elem Job #: _____ Date: _____

DESCRIPTION OF WORK:

Prep for winter removal.
 Continue glove boxing (including extra work areas) lanastuns
 Window removal on north side mostly complete
 Will finish site next shift
 Arrange to borrow GC's scram lift -
 Call off sunbelt until next week.

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.
 Hoy no he tenido ninguna violación de seguridad, herida o accidente, y soy elegible por el Programa Incentivo de Seguridad (Safety Incentive Program).

Sign: <u>[Signature]</u>	Sign:
Sign: <u>[Signature]</u>	Sign:
Sign: <u>[Signature]</u>	Sign:
Sign: <u>[Signature]</u>	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert. #: 112128



Asbestos
Asbestos, Demolition, Lead, Mold

Project Daily Log

Branch: 02-01-23

Project Name: Concord Elem

Date: 7/2/10

Building/Floor/Area: Lower / windows

Job#: _____

Questions:

	Yes/No
Has each employee signed the Job Site Orientation Checklist?	<u>Y</u>
Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted?	<u>Y</u>
Are approved abatement techniques being used?	<u>Y</u>
Are dust control procedures being complied with?	<u>Y</u>
Is the abatement/work area isolated and are the appropriate warning signs posted?	<u>Y</u>
Have work area barriers been checked at the beginning and end of each shift?	<u>Y</u>
Are personnel exposure levels being monitored (by PAS and/or others)?	<u>Y</u>
Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)?	<u>Y</u>

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	Clark Reynolds	512128	8		
2	Don Cross	16094 16094	8		
3	Scott Martin	16097	8		
4	Andrea Cappello	15980	8		
5	Fernando Arangate	16443	8		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



Project Name: Concord Elem. Job #: _____ Date: _____

DESCRIPTION OF WORK:

Prep for window removal of north west wing.

One on glove bagging in lower classrooms.

Last main bank on north west side completed. Banks at the end of the library also completed right at the end of shift.

Secure area and clean up. Secure jobsites and trailers for extended weekend.

Arrange with crew to start at 6am from here on out.

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program. Hoy no he tenido ninguna violación de seguridad, herida o accidente, y soy elegible por el Programa Incentivo de Seguridad (Safety Incentive Program).

Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert #: 02128



Asbestos Project Daily Log
Asbestos, Demolition, Lead, Mold

Branch: 02-01-23 Project Name: Concord Elem Date: 7/8/10

Building/Floor/Area: Windows Low Job#: 08

Questions:

	Yes/No
Has each employee signed the Job Site Orientation Checklist?	<u>Y</u>
Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted?	<u>Y</u>
Are approved abatement techniques being used?	<u>Y</u>
Are dust control procedures being complied with?	<u>Y</u>
Is the abatement/work area isolated and are the appropriate warning signs posted?	<u>Y</u>
Have work area barriers been checked at the beginning and end of each shift?	<u>Y</u>
Are personnel exposure levels being monitored (by PAS and/or others)?	<u>Y</u>
Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)?	<u>Y</u>

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	Charles Reynolds	512124	8		
2	Don Chase	16094	8		
3	Scott Martin	16097	8		
4	Virginia Redman	16218	8		
5	Fernando Aranzate	16443	8		
6	Andrea Cappello	15780	7		
7					
8					
9					
10					
11					
12					
13					
14					
15					



Project Name: Concord Elementary Job #: _____ Date: _____

DESCRIPTION OF WORK:

Set up for courtyard windows
 Furnish on last of the rooms
 for glove bagging.
 Finish 2 more banks of
 windows, including clean up.
 Glove bagging completed by end
 of shift.
 Prep for gutter start on windows
 for next shift.

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.
 Hoy no he tenido ninguna violación de seguridad, herida o accidente, y soy elegible por el
 Programa Incentivo de Seguridad (Safety Incentive Program).

Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert.#: 12128



Asbestos
Asbestos, Demolition, Lead, Mold

Project Daily Log

Branch: 02-01-23

Project Name: Concord Elementary

Date: 7/7/10

Building/Floor/Area: Windows

Job#: _____

Questions:

Yes/No

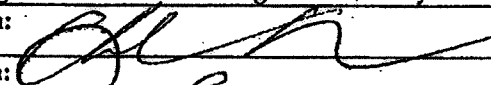


- Has each employee signed the Job Site Orientation Checklist? _____
- Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted? _____
- Are approved abatement techniques being used? _____
- Are dust control procedures being complied with? _____
- Is the abatement/work area isolated and are the appropriate warning signs posted? _____
- Have work area barriers been checked at the beginning and end of each shift? _____
- Are personnel exposure levels being monitored (by PAS and/or others)? _____
- Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)? _____

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	Chuck Reynolds	512124			
2	Don Case	16094			
3	Scott Martin	16097			
4	Virginia Redman	16218			
5	Andrea Cappello	15980			
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



Project Name: Concord Job #: ED Date: 7/7/10

DESCRIPTION OF WORK:	
<p>Set up for best of windows in courtyard Jason (Steward) would like to have all the sym windows removed. Will hold onto 2-boom and take them out next shift, or Friday. One window (2 opening) will have to get pulled out and scraped using 2 boom (grain sloped to much).</p> <p>All windows on wing completed. Start prep for south upper windows.</p>	
<p>I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program. Hoy no he tenido ninguna violación de seguridad, herida o accidente, y soy elegible por el Programa Incentivo de Seguridad (Safety Incentive Program).</p>	
Sign: 	Sign:
Sign: 	Sign:
Sign: 	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert.#: 12124



Asbestos Project Daily Log
Asbestos, Demolition, Lead, Mold

Branch: 02-01-23 Project Name: Concord Bldg Date: 7/8/10
 Building/Floor/Area: South Windows (Upper) Job#: 98

Questions:

	Yes/No
Has each employee signed the Job Site Orientation Checklist?	<u>Y</u>
Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted?	<u>Y</u>
Are approved abatement techniques being used?	<u>Y</u>
Are dust control procedures being complied with?	<u>Y</u>
Is the abatement/work area isolated and are the appropriate warning signs posted?	<u>Y</u>
Have work area barriers been checked at the beginning and end of each shift?	<u>Y</u>
Are personnel exposure levels being monitored (by PAS and/or others)?	<u>Y</u>
Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)?	<u>Y</u>

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	<u>Charlie Reynolds</u>	<u>512128</u>	<u>8</u>		
2	<u>Dean Case</u>	<u>16094</u>	<u>8</u>		
3	<u>Scott Martin</u>	<u>16097</u>	<u>8</u>		
4	<u>Virginia Redman</u>	<u>16218</u>	<u>8</u>		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



Project Name: Concord Farm Job #: _____ Date: 7/8/10

DESCRIPTION OF WORK:

Prep and remove south upper windows.
 Area swept and cleaned. Vac inside
 and pull up trav sheets.
 With remainder of shift start prep
 for sym window removal.

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.
 Hoy no he tenido ninguna violación de seguridad, herida o accidente, y soy elegible por el Programa Incentivo de Seguridad (Safety Incentive Program).

Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert. #: 12128



Asbestos
Asbestos, Demolition, Lead, Mold

Project Daily Log

Branch: 02-01-23

Project Name: Concord Plaza

Date: 7/14/10

Building/Floor/Area: gym windows

Job#: 5082

Questions:

	Yes/No
Has each employee signed the Job Site Orientation Checklist?	<u>Y</u>
Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted?	<u>Y</u>
Are approved abatement techniques being used?	<u>Y</u>
Are dust control procedures being complied with?	<u>Y</u>
Is the abatement/work area isolated and are the appropriate warning signs posted?	<u>Y</u>
Have work area barriers been checked at the beginning and end of each shift?	<u>Y</u>
Are personnel exposure levels being monitored (by PAS and/or others)?	<u>Y</u>
Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)?	<u>Y</u>

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	<i>Clark Reynolds</i>	512128	8		
2	<i>Don Case</i>	16094	8		
3	<i>Scott Martin</i>	16097	8		
4	<i>Virginia Redman</i>	16218	8		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					



Project Name: Concord Job #: _____ Date: 7/9/10

DESCRIPTION OF WORK:

Start and finish work on gym windows. Full prep inside and out. Windows out shortly after lunch. Crew set to wrapping all and having ready for disposal next shift. Crew clears out school and loads up cones. Not all windows wrapped, will come back on Monday to load out last of ACM debris and start demobilizing supplies and equipment. Call off all lift equipment.

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program. Hoy no he tenido ninguna violación de seguridad, herida o accidente, y soy elegible por el Programa Incentivo de Seguridad (Safety Incentive Program).

Sign:	Sign:
Sign:	Sign:
Sign:	Sign:
Sign: <u>Vignice Redman</u>	Sign:
Sign:	Sign:
Sign:	Sign:
Sign:	Sign:

Prepared by: C. Reynolds Supervisor Cert.#: 12128

Branch: 02-01-23

Project Name: Concord

Date: 7/12/10

Building/Floor/Area: Entire School

Job#: 582

Questions:

- Has each employee signed the Job Site Orientation Checklist? Y
- Has each employee received documented training and instruction on proper work practices and procedures for the type of work being conducted? Y
- Are approved abatement techniques being used? Y
- Are dust control procedures being complied with? Y
- Is the abatement/work area isolated and are the appropriate warning signs posted? Y
- Have work area barriers been checked at the beginning and end of each shift? Y
- Are personnel exposure levels being monitored (by PAS and/or others)? Y
- Is the proper Personal Protective Equipment being used (including hard hats, safety glasses, gloves, work boots, and back supports)? Y

Today's Crew:

#	NAME	CERT. #	1X	1.5X	2X
1	Clark Reynolds	12128	8		
2	Scott Martin	16087	8		
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

Project Name: _____ Job #: _____ Date: _____

DESCRIPTION OF WORK:

Package up last at windows. D. spot
 of at Riverside.
 Pull remaining equipment and supplies out
 of school and into connex.
 Walk school with Jason. OK'd
 Leave connex and supplies for last
 of work in other North Chelmsford schools

I have not had a safety violation, injury or accident today and am eligible for the Safety Incentive Program.
 Hoy no he tenido ninguna violación de seguridad, herida o accidente, y soy elegible por el
 Programa Incentivo de Seguridad (Safety Incentive Program).

Sign:

Sign:

Sign:

Sign:

Sign:

Sign:

Sign:

Sign:

Sign:

Sign:

Sign:

Sign:

Sign:

Sign:

Sign:

Sign:

Prepared by: C. Reynolds

Supervisor Cert.#: _____

From:

To: 13605747607

07/27/2010 10:16

#021 P.001/001

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Certified Supervisor for Asbestos Abatement Projects



Clark Reynolds

CERTIFICATION NUMBER	EXPIRES DATE
s12128	14May11
ISSUANCE DATE	RENEWAL DATE
14May10	14May10

WORKER RESPONSIBLE AND EMPLOYER NO:
Asbestos Abatement Project
Washburn Property, Inc.
100 E. Parkway
Portland, Oregon 97206
503.223.7777

The person depicted in this certificate has completed the required training for asbestos certification and is certified by the Department of Environmental Quality under OAR Chapter 346, Division 242 and under TSCA Title 2.

Concentra Medical Centers

12518 NE Airport Way #110 PORTLAND, OR 97230
Phone: (503) 256-2892 Fax: (503) 256-0717

RESPIRATORY FIT TEST ASSESSMENT RECORD

Service Date: 11/19/2009
Employee Name: Reynolds, Clark D.
Employee SSN: XXX-XX-0009
Employer: Performance Abatement Services
Department: _____

Respirator Type: North half - nose
Respirator Model: 7700 + 30L
Cartridge Type: P100
Anticipated Usage: 3200 Minutes/day
6 Hours/day
5 Days/week

Qualitative Fit Test (QLFT) Protocol used:

- Isoamyl Acetate (Respirator must be equipped with an organic vapor filter)
- Saccharin Solution (Must use DeVilbiss Model 40 Inhalation Medication Nebulizer or equivalent)
- Bitrex (Denatonium Benzoate) Aerosol

Quantitative Fit Test (QNFT) Protocol used:

- _____ Test Chamber: Circle one of the following:

- Corn Oil
- Polyethylene glycol 400 (PEG 400)
- di-2-ethyl hexyl sebacate (DEHS)
- Sodium Chloride
- Condensation Nuclear Counter: ambient aerosol

- Yes No Subject donned respirator at least 5 minutes prior to assessment
- Yes No Subject conducted user seal check
- Yes No Apparel interfering with a satisfactory fit must be removed or altered
- Yes No Subject given a description of the fit test and his/her responsibilities prior to assessment

Yes No Subject wore applicable safety equipment during fit test

Assessment of Comfort (C: Comfortable, NC: Not Comfortable)

- C NC Position of the mask on the nose
- C NC Room for eye protection
- C NC Room to talk
- C NC Position of mask on face and cheeks

Adequacy of the fit (A: Adequate, NA: Not Adequate)

- A NA Chin properly placed
- A NA Adequate strap tension, not overly tight
- A NA Fit across nose bridge
- A NA Proper size to span length from nose to chin
- A NA Tendency of respirator to slip
- A NA Subject observed self in mirror to evaluate fit and position

Physician's Comments:

Exercise (each exercise shall be conducted for one minute, except for grimace which shall be conducted for 15 seconds)

Breathing

- Normal Pass Fail
- Deep Pass Fail
- Head Pass Fail
- Turn Left Pass Fail
- Turn Right Pass Fail
- Side: Left Pass Fail
- Side: Right Pass Fail
- Move Up Pass Fail
- Move Down Pass Fail

Talking

- Name Pass Fail
- SSN# Pass Fail
- Read Pass Fail
- Rainbow Passage: observed by tester Pass Fail

Facial Expressions

- Grimace Pass Fail
- Smile Pass Fail
- Frown Pass Fail

Body Movement

- Bend at waist Pass Fail
- Jog in place Pass Fail

Subject rates comfort of respirator: 1 2 3 4 5 6 7 8 9 10
Least ----- Most

Yes No Subject made no attempt(s) to adjust respirator during assessment

Assessment (CHECK ALL THAT APPLY)

Test discontinued due to:

- Hair growth; beard, mustache, sideburns which cross respirator sealing surface
 - Difficulty breathing; or
 - Comfort or Fit of respirator was unacceptable to employee.
- Recommendation(s) _____

- Passed Fit Test
- Failed Fit Test
- Applicant presents for fit testing only. Respiratory clearance not presented.

Shaleshri S. Devi
Technician

[Handwritten signatures]

This record is to be maintained by the employer in accordance with 29 CFR 1910.134 Paragraph (m) (2)(I)(A) - (E).
Re-testing must occur ANNUALLY as long as the employee is required to wear a respirator.

Patient: Reynolds, Clark D.
SSN: XXX-XX-0009
DOB: 08/16/1973
Gender: M
Marital Status: M
Address: 17148 SE Market St
PORTLAND, OR 97233
Home Phone: (503) 793-5400
Work Phone: (360) 574-8400 Ext.:

Job Title: _____
Employer: Performance Abatement Service
Address: 13600 NE 10th Ave
Vancouver, WA 986852677
Job Contact: Ryan Leffel
Role: Primary Contact
Phone: (360) 574-8400 Ext.:
Fax: (360) 574-7607
Race: ASIAN BLACK HISPANIC INDIAN WHITE OTHER

The above individual was seen on 11/19/2009 in accordance with: 29 CFR 1926.1101.
40 CFR 763.121.

The following was performed:

- Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- Review of information from previous medical examinations if available.
- A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.
- A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos; and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____


Provider Signature

11-19-2009
Date

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Certified Supervisor for Asbestos Abatement Projects



NAME
Gary Brown

CERTIFICATE NO s 11869	EXPIRATION DATE 21Aug10
TRAINING COURSE DATES 21Aug09	EXAMINATION DATE 21Aug09

TRAINING ADDRESS AND TELEPHONE NO
Asbestos Training Project
Workplace Resources, Inc.
1608 S.E. Pershing
Portland, OR 97202-2340
(503) 233-7707

The person assigned this certificate has completed the required training for asbestos certification and is certified by the Department of Environmental Quality under OAR Chapter 340, Division 248 and under T6CA Title II.

Concentra Medical Centers
3449 N Anchor St Ste 300A, PORTLAND, OR 97217
Phone: (503) 283-0013 Fax: (503) 283-0785
Medical Surveillance - Asbestos

Service Date: 03/31/2010

Patient: Brown, Gary L.
SSN: XXX-XX-4002
DOB: 09/10/1957
Gender: M
Marital Status: M
Address: 34509 N Honeyman Rd
SCAPPOOSE, OR 97056
Home Phone: (503) 543-3766
Work Phone: (360) 574-8466 Ext.:

Job Title: _____
Employer: Performance Abatement Service
Address: 13600 NE 10th Ave
Vancouver, WA 986852677
Job Contact: Ryan Leffel
Role: Primary Contact
Phone: (360) 574-8400 Ext.:
Fax: (360) 574-7607
Race: ASIAN BLACK HISPANIC INDIAN WHITE OTHER

The above individual was seen on 03/31/2010 in accordance with: 29 CFR 1926.1101,
40 CFR 763.121.

The following was performed:

- Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- Review of the employer's description of this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- Review of information from previous medical examinations if available.
- A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1) in accordance with NIOSH and ATS standards.
- A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

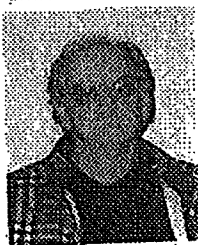
Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos; and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____

R. De
Provider Signature

3/31/10
Date

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Certified Worker for Asbestos Abatement Projects



NAME Ernest J. Wisecup
CERTIFICATE NO. F 16308
ISSUANCE DATE 2Apr10
EXPIRES DATE 17Apr11
RENEWAL DATE 2Apr10

WORKER'S REGISTERED ORGANIZATION
Asbestos Training Project
Workforce Solutions, Inc.
1604 S.E. Parkside
Portland, OR 97202-2540
503-232-7927

The person assigned this certificate has completed the required training for asbestos certification and is eligible by the Department of Environmental Quality under OAR Chapter 340, Division 248 and under TSCA Title II.



PeaceHealth

Workplace Wellness Services

1405 Delaware St., Longview, WA 98632
(360) 414-2332

Employee Name: Wisecup, Earnest J.

DOB: 6/19/53

SSN: _____

RESPIRATOR REQUIREMENTS

Company: Performance Contracting Group Job Classification: _____

Type of respirator(s) this individual/job required (check all that apply):

- Half-mask Full face Helmet Hood Escape TB Mask
- Non-powered cartridge or canister Powered air-purifying cartridge respirator (PAPR)
- Disposable filtering face-piece Self-contained breathing apparatus (SCBA) - demand or pressure
- Other: _____

Exposure Risks

- Dust Asbestos Benzene Lead Hazardous waste Particulate TB
- Smoke Irritant fumes Temperature extremes Confined spaces
- Other: _____

Workload: Varies Heavy Medium Light

Frequency of use: > 20 hours/week > 1 hour/day > 1 hour/month Evacuation/escape only
 Emergency Response Team

Company Representative Signature: on file

RESPIRATOR CLEARANCE

Recommendations based on: Questionnaire only Questionnaire and physical exam

Respirator Clearance

Under the conditions described in the above information provided by the employer, this individual:

- Is medically cleared for use of the respirator(s) without limitations
- Is medically cleared for use of the respirator(s) with the following limitations: _____
- Is not medically cleared for use of a respirator

Workload Limitations: Unrestricted Heavy Medium Light

Follow-Up Medical Evaluations

This individual will will not (circle one) require additional follow-up medical evaluation(s). The recommended follow-up evaluations, if necessary are as follows:

- Personal Medical Condition _____
- Medical surveillance program required if exposure risks to _____ are at or above the action levels as defined by OSHA regulation.

Employee Notification: I certify that the above named individual for whom this respirator clearance form is provided has received a copy of this recommendation. _____ (initial)

This recommendation is valid for 2 years, or sooner due to change of job or change in state of health.

Printed name Shelly Norman RN

Signature Shelly Norman RN Date 6/1/10

In accordance with WAC 296-62 Part E/29 CFR 1910.134, I certify that _____ is qualified for:	
<input type="checkbox"/> Half-Mask	<input type="checkbox"/> Full Face Piece Mask
<input type="checkbox"/> Escape	<input type="checkbox"/> Non-Powered Cartridge Canister
<input type="checkbox"/> Disposable Filtering Face Piece (for N-95)	<input type="checkbox"/> PAPR (OV-3)
<input type="checkbox"/> SCBA	<input type="checkbox"/> Demand <input type="checkbox"/> Pressure
Respirator Clearance	
<input type="checkbox"/> Is medically cleared without limitations	
<input type="checkbox"/> Is medically cleared with limitations:	_____
Workload Limitations	
<input type="checkbox"/> Unrestricted	<input type="checkbox"/> Other: _____
This respirator qualification expires: _____	
Signature _____	Date: _____

05/11/2010

LAST NAME WISECUP
FIRST NAME EARNEST

FIT TEST REPORT

ID NUMBER 6073
LAST NAME WISECUP CUSTOM1
FIRST NAME EARNEST CUSTOM2
COMPANY PERFORMANCE ABATEMEN CUSTOM3
LOCATION CUSTOM4
NOTE

TEST DATE 05/11/2010 PORTACOUNT S/N 80247793
TEST TIME 18:59 N95-COMPANION N
DUE DATE 05/11/2011

RESPIRATOR NORTH 76008A FULL FACE | PROTOCOL OSHA 29CFR1910.134
MANUFACTURER NORTH PASS LEVEL 500
MODEL 76008A
MASK STYLE FULL FACE APPROVAL
MASK SIZE M/L EFFICIENCY <99% N

<u>EXERCISE</u>	<u>DURATION (sec)</u>	<u>FIT FACTOR</u>	<u>PASS</u>
NORMAL BREATHING	60	2980	Y
DEEP BREATHING	60	1350	Y
HEAD SIDE TO SIDE	60	2190	Y
HEAD UP AND DOWN	60	1370	Y
TALKING	60	2740	Y
GRIMACE	15	Excl.	
BENDING OVER	60	3480	Y
NORMAL BREATHING	60	10900	Y

OVERALL FIT FACTOR 2327 Y

FITTEST OPERATOR

Jeff Adkinson
JEFF ADKINSON

DATE 5/11/10

NAME

Earnest Wisecup
EARNEST WISECUP

DATE 5/11/10

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Certified Worker for Asbestos Abatement Projects



David A. Castro
15937
4 Aug 10
31 Jun 09
31 Jun 09

Asbestos Training Fund
Workshop, Inc.
100 N.E. Irving
Portland, OR 97232-4244
The Board's approval is required to purchase the
required training for asbestos abatement and is provided
by the Department of Environmental Quality under OAR
Chapter 240, Division 943 and under TSCA Title 2.



RESPIRATOR FIT TESTING FORM

Employee Name: DAVID CASTRO S.S. No. 2824
Respirator Manufacturer: NORTH Model: 7700
Approval Number: Size: M
Test conductor: RYAN C. LEFFEL Test Date: 11.20.09

Circle the type of test protocol

SACCHARINE BANANA OIL PROTOCOL: IRRITANT SMOKE

Complete all the following items in the test protocol.

- 1. Put on and adjust respirator, wear for at least 10-minutes before starting the test. Be certain that the respirator is comfortable.
2. Perform positive and negative user seal checks. Place the correct cartridges on the respirator for the test medium. Use the challenge media around the respirator. Do not use a chamber for irritant smoke.
3. Challenge procedure each activity must be done for 1-minute, except the grimace, 15 seconds.
a. Breathe normally for 1-minute.
b. Breathe deeply for 1-minute.
c. Turn head from side to side for 1-minute.
d. Nod head up and down for 1-minute.
e. Read the "Rainbow passage" or talk for 1-minute:
"When the sunlight strikes raindrops in the air they act like a prism and form a rainbow. The rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch, with its path high above, and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach, his friends say he is looking for the pot of gold at the end of the rainbow."
f. Grimace for 15 Seconds.
g. Bend over as in touching your toes, or if not possible Jog in place, for 1-minute
h. Breathe normally for 1-minute.
4. If banana oil is smelled or the saccharine is tasted, the respirator test is failed. A different respirator must be selected, and test retaken, until the challenge media is not smelled or tasted. If banana oil is smelled or saccharine is tasted, the respirator test is failed.

PASSED [checked] FAILED

Remarks:

Test conductor initial [signature] Expiration Date: 11.20.2010

Patient: Castro, David A.
 SSN: XXX-XX-2824
 DOB: 09/09/1987
 Gender: M
 Marital Status: M
 Address: 4607 Adobe St SE
SALEM, OR 97317
 Home Phone: (971) 240-9130
 Work Phone: _____ Ext.: _____

Job Title: _____
 Employer: Performance Abatement Service
 Address: 13600 NE 10th Ave
Vancouver, WA 986852677
 Job Contact: Ryan Leffel
 Role: Primary Contact
 Phone: (360) 574-8400 Ext.: _____
 Fax: (360) 574-7607
 Race: ASIAN BLACK HISPANIC INDIAN WHITE OTHER

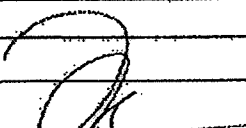
The above individual was seen on 11/19/2009 in accordance with: _____ 29 CFR 1926.1101.
 _____ 40 CFR 763.121.

The following was performed:

- Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- Review of the employer's description of this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- Review of information from previous medical examinations if available.
- A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems;
- A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.
- A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____

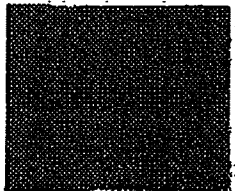


 NANCY SHERMAN DO
 Provider Signature

11/19/09

 Date

Page 3



OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Certified Superfund Site Assessment Projects

Bo WILLIAMS	
PROJECT NO.	PROJECT DATE
11898	25Sept10
25Sept09	25Sept09

MEDICAL EXAMINER'S CERTIFICATE

Examiner: Bo WILLIAMS, DO

Examination Date: 12/11/08

Examination Location: 505-256-7992

Examination Site: 12116/2010

Examination Site Address: 12116/2010

Examination Site City: 12116/2010

Examination Site State: OR

Examination Site Zip: 97104

Examination Site County: 12116/2010

Examination Site District: 12116/2010

Examination Site Precinct: 12116/2010

Examination Site Census: 12116/2010

Examination Site Population: 12116/2010

Examination Site Income: 12116/2010

Examination Site Education: 12116/2010

Examination Site Employment: 12116/2010

Examination Site Health: 12116/2010

Examination Site Mental Health: 12116/2010

Examination Site Substance Use: 12116/2010

Examination Site Other: 12116/2010

Examination Site Signature: 12116/2010

Examination Site Date: 12116/2010

Examination Site Time: 12116/2010

Examination Site Weather: 12116/2010

Examination Site Other: 12116/2010

Examination Site Signature: 12116/2010

Examination Site Date: 12116/2010

Examination Site Time: 12116/2010

Examination Site Weather: 12116/2010

Examination Site Other: 12116/2010

DRIVERS COPY

Concentra Medical Centers

12518 NE Airport Way #110 PORTLAND, OR 97230
Phone: (503) 256-2092 Fax: (503) 256-0717

RESPIRATORY FIT TEST ASSESSMENT RECORD

Service Date: 02/19/2010
Employee Name: Williams, Bo
Employee SSN: XXX-XX-3378
Employer: Performance Abatement Services
Department: _____

Respirator Type: North
Respirator Model: 7700 - 302
Cartridge Type: North
Anticipated Usage: _____ Minutes/day
_____ Hours/day
Size: Large 3 Days/week

Qualitative Fit Test (QLFT) Protocol used:

- Isoamyl Acetate (Respirator must be equipped with an organic vapor filter)
- Saccharin Solution (Must use DeVilbiss Model 40 Inhalation Medication Nebulizer or equivalent)
- Bitrex (Denatonium Benzoate) Aerosol

Quantitative Fit Test (QNFT) Protocol used:

- Test Chamber: Circle one of the following:

- Corn Oil
- Polyethylene glycol 400 (PEG 400)
- di-2-ethyl hexyl sebacate (DEHS)
- Sodium Chloride
- Condensation Nuclei Counter: ambient aerosol

- Yes No Subject donned respirator at least 5 minutes prior to assessment
- Yes No Subject conducted user seal check
- Yes No Apparel interfering with a satisfactory fit must be removed or altered.
- Yes No Subject given a description of the fit test and his/her responsibilities prior to assessment.
- Yes No Subject wore applicable safety equipment during fit test.

Assessment of Comfort (C: Comfortable, NC: Not Comfortable)

- C NC Position of the mask on the nose
- C NC Room for eye protection
- C NC Room to talk
- C NC Position of mask on face and cheeks

Adequacy of the fit (A: Adequate, NA: Not Adequate)

- A NA Chin properly placed
- A NA Adequate strap tension, not overly tight
- A NA Fit across nose bridge
- A NA Proper size to span length from nose to chin
- A NA Tendency of respirator to slip
- A NA Subject observed self in mirror to evaluate fit and position.

Physician's Comments

Exercise (each exercise shall be conducted for one minute, except for grimace which shall be conducted for 15 seconds)

Breathing

- Normal Pass Fail
- Deep Pass Fail
- Head Pass Fail
- Turn Left Pass Fail
- Turn Right Pass Fail
- Side: Left Pass Fail
- Side: Right Pass Fail
- Move Up Pass Fail
- Move Down Pass Fail

Talking

- Name Pass Fail
- SSN# Pass Fail
- Read Pass Fail
- Rainbow Passage observed by tester Pass Fail

Facial Expressions

- Grimace Pass Fail
- Smile Pass Fail
- Frown Pass Fail

Body Movement

- Bend at waist Pass Fail
- Jog in place Pass Fail

Subject rates comfort of respirator: 1 2 3 4 5 6 7 8 9 10
Least ----- Most

Yes No Subject made no attempt(s) to adjust respirator during assessment.

Assessment (CHECK ✓ ALL THAT APPLY)

Test discontinued due to:

- Hair growth; beard, mustache; sideburns which cross respirator sealing surface,
 - Difficulty breathing, or
 - Comfort or Fit of respirator was unacceptable to employee.
- Recommendation(s) _____

- Passed Fit Test
- Failed Fit Test
- Applicant presents for fit testing only. Respiratory clearance not presented.

Keiko Masdeu
Technician

This record is to be maintained by the employer in accordance with 29 CFR 1910.134 Paragraph (m) (2)(i)(A)-(E).
Re-testing must occur ANNUALLY as long as the employee is required to wear a respirator.

Concentra Medical Centers
 12516 NE Airport Way #110 PORTLAND, OR 97230
 Phone: (503) 268-2992 Fax: (503) 268-0717
Medical Surveillance - Asbestos

Service Date: 02/19/2010

Patient: Williams, Bo
 SSN: XXX-XX-3378
 DOB: 08/08/1951
 Gender: M
 Marital Status: M
 Address: 14916 S Brookfield Dr
OREGON CITY, OR 97045
 Home Phone: (503) 723-0665
 Work Phone: (360) 574-8400 Ext.:

Job Title: _____
 Employer: Performance Abatement Service
 Address: 13600 NE 10th Ave
Vancouver, WA 986852677
 Job Contact: Ryan Leffel
 Role: Primary Contact
 Phone: (360) 574-8400 Ext.:
 Fax: (360) 574-7607

Race: ASIAN BLACK HISPANIC INDIAN WHITE OTHER

The above individual was seen on 02/19/2010 in accordance with: 29 CFR 1926.1101.
40 CFR 763.121.

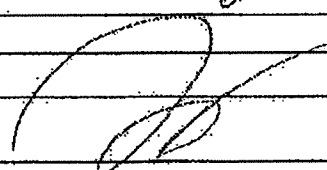
The following was performed:

- Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- Review of information from previous medical examinations if available.
- A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV₁) in accordance with NIOSH and ATS standards.
- A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(i)(C).
- NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any):

yes OKR begins annually next



 Provider Signature

2/19/10

 Date

Certificate of Completion

Scott R. Martin

Has completed the Oregon Worker Asbestos Course, Portland, OR, has passed the exam and satisfied all the AHERA, ASHARA, and TSCA/Title II requirements on December 8-11, 2009.

Asbestos Training Project
Workplace Resources, Inc.
1908 SE Pershing St, Portland, OR 97202
(503) 233-7707


Edwin E. Edinger, Manager

Expire Date: December 11, 2010


Certification No.: F16097

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Certified Worker for Asbestos Abatement Projects

Scott R. Martin	
F16097	11Dec10
8-11Dec09	11Dec09

Asbestos Training Project
Workplace Resources, Inc.
1908 SE Pershing
Portland, OR 97202-2244
(503) 233-7707

The person assigned this certificate has completed the required training for asbestos certification and is certified by the Department of Environmental Quality under OAR Chapter 340, Division 248 and under TSCA Title II



Concentra Medical Centers

12518 NE Airport Way #110 PORTLAND, OR 97230
Phone: (503) 256-2992 Fax: (503) 256-0717

RESPIRATORY FIT TEST ASSESSMENT RECORD

Service Date: 12/14/2009
Employee Name: Martin, Scott R.
Employee SSN: XXX-XX-2889
Employer: Performance Abatement Services
Department:

Respirator Type: Half Mask
Respirator Model:
Cartridge Type:
Anticipated Usage: 600 Minutes/day, 10 Hours/day, 4 Days/week

Qualitative Fit Test (QLFT) Protocol used:
[] Isoamyl Acetate (Respirator must be equipped with an organic vapor filter)
[] Saccharin Solution (Must use DeVilbiss Model 40 Inhalation Medication Nebulizer or equivalent)

[X] Bifrex (Denatonium Benzoate) Aerosol

Quantitative Fit Test (QNFT) Protocol used:

[] Test Chamber: Circle one of the following:

- Corn Oil
Polyethylene glycol 400 (PEG 400)
di-2-ethyl hexyl sebacate (DEHS)
Sodium Chloride

Condensation Nuclei Counter: ambient aerosol

- Yes No Subject donned respirator at least 5 minutes prior to assessment
Yes No Subject conducted user seal check
Yes No Apparel interfering with a satisfactory fit must be removed or altered.
Yes No Subject given a description of the fit test and his/her responsibilities prior to assessment.
Yes No Subject wore applicable safety equipment during fit test

Assessment of Comfort (C: Comfortable, NC: Not Comfortable)

- C NC Position of the mask on the nose
C NC Room for eye protection
C NC Room to talk
C NC Position of mask on face and cheeks
A Adequacy of the fit (A: Adequate, NA: Not Adequate)
A NA Chin properly placed
A NA Adequate strap tension, not overly tight
A NA Fit across nose bridge
A NA Proper size to span length from nose to chin
A NA Tendency of respirator to slip
A NA Subject observed self in mirror to evaluate fit and position.

Physician's Comments

Blank lines for physician's comments.

Exercise (each exercise shall be conducted for one minute except for grimace which shall be conducted for 15 seconds)

Table with columns for Exercise, Result (Pass/Fail), and Status. Exercises include Breathing (Normal, Deep, Head, Turn Left, Turn Right, Side: Left, Side: Right, Move Up, Move Down), Talking (Name, SSN#, Read, Rainbow Passage), Facial Expressions (Grimace, Smile, Frown), and Body Movement (Bend at waist, Jog in place). All results are 'Pass'.

Subject rates comfort of respirator: 1 2 3 4 5 6 7 8 9 10
Least ----- Most

Yes No Subject made no attempt(s) to adjust respirator during assessment.

Assessment (CHECK ALL THAT APPLY)

Test discontinued due to:

- [] Hair growth; beard, mustache, sideburns which cross respirator sealing surface;
[] Difficulty breathing, or
[] Comfort or fit of respirator was unacceptable to employee.
Recommendation(s)

[X] Passed Fit Test.

[] Failed Fit Test

[] Applicant present for fit testing only. Respiratory clearance not presented.

Signature of Technician

Technician

This record is to be maintained by the employer in accordance with 29 CFR 1910.134 Paragraph (m)(2)(i)(A) - (E).
Re-testing must occur ANNUALLY as long as the employee is required to wear a respirator.

Concentra Medical Centers
12516 NE Airport Way #110 PORTLAND, OR 97230
Phone: (503) 256-2852 Fax: (503) 256-0717
Medical Surveillance - Asbestos

Service Date: 12/14/2009

Patient: Martin, Scott R.
SSN: XXX-XX-2889
DOB: 08/18/1976
Gender: M
Marital Status: M
Address: PO Box 112
YACOLT, WA 98675
Home Phone: (360) 686-0984
Work Phone: (360) 852-6035 Ext.:

Job Title: _____
Employer: Performance Abatement Service
Address: 13600 NE 10th Ave
Vancouver, WA 986852677
Job Contact: Ryan Leffel
Role: Primary Contact
Phone: (360) 574-8400 Ext.:
Fax: (360) 574-7607
Race: ASIAN BLACK HISPANIC INDIAN WHITE OTHER

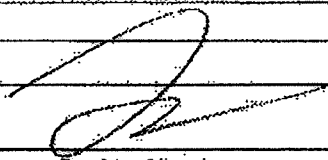
The above individual was seen on 12/14/2009 in accordance with: 29 CFR 1926.1101.
40 CFR 763.121.

The following was performed:

- Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- Review of information from previous medical examinations if available.
- A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV1) in accordance with NIOSH and ATS standards.
- A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____



Provider Signature
12/14/09

Date

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Certified Worker for Asbestos Abatement Projects



NAME
Fernando A. Arangate

IDENTIFICATION
F 16493

TRAINING START DATE
19Jun10

EXPIRES DATE
30Jun11

RENEWAL DATE
19Jun10

TRAINER/AGENCY/INSTITUTION TO:
**Asbestos Training Project
Wachholz Resources, Inc.
1806 S.E. Forthling
Portland, OR 97202-2340
(503) 233-7707**

This person has been trained by the Oregon Department of Environmental Quality and is certified by the Department of Environmental Quality under OAR Chapter 340, Division 240 and under TSCA Title II

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Certified Worker for Asbestos Abatement Projects:



Fernando A. Arangute

15772 30Jun10

6Jun09 6Jun09

Asbestos Abatement Project
Workplace Assessment, Inc.
1000 N.E. Portland
Portland, OR 97232-1000
(503) 253-1100

The Oregon Department of Environmental Quality (DEQ) certifies that the worker named above is qualified to perform asbestos abatement work in accordance with the requirements of the Oregon Asbestos Abatement Act (ORS 335.005-010) and the Oregon Asbestos Abatement Regulations (OAR 335.005-010).

Concentra Medical Centers

12518 NE Airport Way #110 PORTLAND, OR 97230
Phone: (503) 256-2892 Fax: (503) 258-0717

RESPIRATORY FIT TEST ASSESSMENT RECORD

Service Date: 06/02/2010
Employee Name: Arangate Garcia, Fernando
Employee SSN: XXX-XX-8730
Employer: Performance Abatement Services
Department:

Respirator Type: No-11
Respirator Model: 7700-300
Cartridge Type: DOP 27A9
Anticipated Usage: Medium
Minutes/day: 7
Hours/day: 5
Days/week: 5

Qualitative Fit Test (QLFT) Protocol used:

- ISOAMYL ACETATE (Respirator must be equipped with an organic vapor filter)
SACCHARIN SOLUTION (Must use DeVilbiss Model 40 Inhalation Medication Nebulizer or equivalent)
BITREX (Denatonium Benzoate) Aerosol

Quantitative Fit Test (QNFT) Protocol used:

Test Chamber: Circle one of the following:

- Corn Oil
Polyethylene glycol 400 (PEG 400)
di-2-ethyl hexyl sebacate (DEHS)
Sodium Chloride

Condensation Nuclei Counter: ambient aerosol

- Yes No Subject donned respirator at least 5 minutes prior to assessment
Yes No Subject conducted user seal check
Yes No Apparel interfering with a satisfactory fit must be removed or altered.
Yes No Subject given a description of the fit test and his/her responsibilities prior to assessment.
Yes No Subject wore applicable safety equipment during fit test

Assessment of Comfort (C: Comfortable, NC: Not Comfortable)

- NC Position of the mask on the nose
NC Room for eye protection
NC Room to talk
NC Position of mask on face and cheeks

Adequacy of the fit (A: Adequate, NA: Not Adequate)

- NA Chin properly placed
NA Adequate strap tension, not overly tight
NA Fit across nose bridge
NA Proper size to span length from nose to chin
NA Tendency of respirator to slip
NA Subject observed self in mirror to evaluate fit and position.

Physician's Comments

Blank lines for physician's comments.

Exercise (each exercise shall be conducted for one minute except for grimace which shall be conducted for 15 seconds)

Breathing

- Normal Pass Fail
Deep Pass Fail
Head Pass Fail
Turn Left Pass Fail
Turn Right Pass Fail
Side: Left Pass Fail
Side: Right Pass Fail
Move Up Pass Fail
Move Down Pass Fail

Talking

- Name Pass Fail
SSN# Pass Fail
Read Pass Fail
Rainbow Passage observed by tester Pass Fail

Facial Expressions

- Grimace Pass Fail
Smile Pass Fail
Frown Pass Fail

Body Movement

- Bend at waist Pass Fail
Jog in place Pass Fail

Subject rates comfort of respirator: 1 2 3 4 5 6 7 8 9 10
Least ----- Most

Yes No Subject made no attempt(s) to adjust respirator during assessment.

Assessment (CHECK ALL THAT APPLY)

Test discontinued due to:

- Hair growth; beard, mustache, sideburns which cross respirator sealing surface.
Difficulty breathing, or
Comfort or Fit of respirator was unacceptable to employee.

Recommendation(s)

Passed Fit Test

Failed Fit Test

Applicant presents for fit testing only. Respiratory clearance not presented.

Signature of Technician

This record is to be maintained by the employer in accordance with 29 CFR 1910.134 Paragraph (m) (2)(I)(A) - (E).
Re-testing must occur ANNUALLY as long as the employee is required to wear a respirator.

Concentra Medical Centers
12518 NE Airport Way #110 PORTLAND, OR 97230
Phone: (503) 258-2992 Fax: (503) 258-0717
Medical Surveillance - Asbestos

Service Date: 06/02/2010

Patient: Arangute Garcia, Fernando
SSN: XXX-XX-8730
DOB: 04/30/1973
Gender: M
Marital Status: M
Address: 4488 SW 201st Ave
BEAVERTON, OR 97007
Home Phone: (503) 880-7987
Work Phone: _____ Ext.: _____

Job Title: _____
Employer: Performance Abatement Service
Address: 13600 NE 10th Ave
Vancouver, WA 986852677
Job Contact: Ryan Leffel
Role: Primary Contact
Phone: (360) 574-8400 Ext.: _____
Fax: (360) 574-7607
Race: ASIAN BLACK HISPANIC INDIAN WHITE OTHER

The above individual was seen on 06/02/2010 in accordance with: 29 CFR 1926.1101.
40 CFR 763.121.

The following was performed:

- Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- Review of information from previous medical examinations if available.
- A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.
- A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____

John Redden, MD
Provider Signature

6/2/10
Date

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Certified Worker for Asbestos Abatement Projects



NAME
Virginia Redman

CERTIFICATE NO. F16218	EXPIRATION DATE 4/6/2011
TRAINING COURSE DATES 4/6/2010	RENEWAL DATE 4/6/2010

TRAINING ADDRESS AND TELEPHONE NO.
**OSILETT (541) 745-5513
6011 NE Marcus Harris Ave.
Corvallis, OR 97330**

The person assigned this certificate has completed the required training for asbestos certification and is certified by the Department of Environmental Quality under OAR Chapter 940, Division 240 and under TSCA Title II.

Patient: Redman, Virginia C.
 SSN: XXX-XX-3475
 DOB: 05/10/1955
 Gender: F
 Marital Status: S
 Address: 7902 SE 92nd Ave
PORTLAND, OR 97266
 Home Phone: (503) 505-9373
 Work Phone: _____ Ext.: _____

Job Title: _____
 Employer: Performance Abatement Service
 Address: 13600 NE 10th Ave
Vancouver, WA 986852677
 Job Contact: Ryan Löffel
 Role: Primary Contact
 Phone: (360) 574-8400 Ext.: _____
 Fax: (360) 574-7607
 Race: ASIAN BLACK HISPANIC INDIAN WHITE OTHER

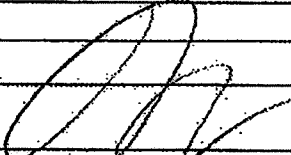
The above individual was seen on 06/14/2010 in accordance with: 29 CFR 1926.1101.
40 CFR 763.121.

The following was performed:


- Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- Review of the employer's description of this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- Review of information from previous medical examinations if available.
- A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV1) in accordance with NIOSH and ATS standards.
- A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____



 Provider Signature



 Date

Concentra Medical Centers
 12518 NE Airport Way #110 PORTLAND, OR 97230
 Phone: (503) 258-2992 Fax: (503) 258-0717

EMPLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

EMPLOYER TO COMPLETE THE FOLLOWING :

Employee Name: Redman, Virginia C.

Employer: Performance Contracting Group

Address:

7802 SE 92nd Ave

PORTLAND

OR

97266

Employee SSN: XXX-XX-3475

Check Type of Respirator(s) To Be Used (Check ALL that apply)

- Air-purifying (non-powered) Air-purifying (powered)
 Atmosphere supplying Respirator
 Combination air-line and SCBA
 Continuous-Flow Respirator
 Supplied-Air Respirator
 Open Circuit SCBA Closed Circuit SCBA
 Dust Mask 1/2 Face With Canisters Full-Face With Canisters

Make: _____ Model: _____ Cartridge: _____

Special Work Conditions (Check ALL That Apply When Wearing Respirator)

- High Places Enclosed Places Protective Clothing
 Temperature Extremes Mostly Cold Mostly Hot
 Other: _____

Questionnaire will be: HAND CARRIED MAILED OTHER

Extent of Usage (Check ALL that apply)

- On a daily basis _____ Total Hours
 Occasionally - but not more than twice a week _____ Total Hours
 Rarely - or for Emergency situations only _____ Total Hours

Expected Physical Effort Required (Check ALL that apply)

- Light Moderate Heavy

Exposure to Hazardous Materials (Check ALL that apply)

- Arsenic Benzene
 Coke Oven Cotton Seed / Dust
 Cadmium Formaldehyde
 Methylene Chloride Lead
 Textiles Chromium

Other(s): _____

EVALUATION AUTHORIZATION BY: _____

Signature of Employer Representative

DO NOT WRITE BELOW THIS LINE

DO NOT WRITE BELOW THIS LINE

DO NOT WRITE BELOW THIS LINE

PLHCP¹ WRITTEN STATEMENT for RESPIRATORS (EMPLOYER)

PHYSICIAN WILL COMPLETE THE FOLLOWING

This report may contain confidential medical information and is intended for the designated employer contact only. The Americans with Disabilities Act (ADA) imposes very strict limitations on the use of information obtained during physical examination of qualified individuals with disabilities. All information must be collected and maintained on separate forms, in separate files, and must be treated as a confidential medical record, with the following exceptions:

- Supervisors and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations;
- First aid and safety personnel may be informed, when appropriate, if the disability might require emergency treatment.

Based upon my findings, I have determined that this individual **ALL that apply)**

Employee must schedule a medical examination with Concentra Medical Centers prior to respirator approval and usage.

- Class I - No Restrictions on Respirator Use
 Class II - Some Specific Use Restrictions To be used for Emergency Response or Escape Only Other: _____
 Class III - Respirator Use is NOT PERMITTED

Further Testing / Evaluation is Required. ²

Fit Test Required Fit Test Performed Satisfactorily

Fit Test Performed Unsatisfactorily Fit Test NOT Performed at: Concentra Medical Centers

Special prescription eyewear needed to accommodate respirator Special prescription eyewear needed to accommodate respirator

Facial hair needs to be shaved to assure tight seal on certain face masks.

¹Physician or other Licensed Healthcare Professional

²Employee must seek further medical evaluation by a private physician who must submit a report to Concentra Medical Centers of his/her findings to

(Check ALL that apply)

- The above individual **HAS** been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
 The above individual **HAS NOT** been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees would be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
 In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Physician's Signature _____

Physician's Name (Printed) NANCY BORMAN DO

Physician's License Number (Optional in Most States) 19779 OR

Date of Exam 6/14/10

Expires On 6/14/11

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Certified Worker for Asbestos Abatement Projects



NAME
Don R. Cross

CERTIFICATE NO F 16094	EXPIRATION DATE 11Dec10
TRAINING COURSE DATES 8-11Dec09	EXAMINATION DATE 11Dec09

TRAINER, ADDRESS AND TELEPHONE NO
Asbestos Training Project
Workplace Resources, Inc.
1806 S.E. Furberg
Portland, OR 97202-2840
503-255-7207

The person assigned this certificate has completed the required training for asbestos certification and is certified by the Department of Environmental Quality under OAR Chapter 340, Division 248 and under TSCA Title II

Concentra Medical Centers

12518 NE Airport Way #110 PORTLAND, OR 97230
Phone: (503) 256-2992 Fax: (503) 256-0717

RESPIRATORY FIT TEST ASSESSMENT RECORD

Service Date: 12/14/2009
Employee Name: Cross, Donald R.
Employee SSN: XXX:XX-9111
Employer: Performance Abatement Services
Department:

Respirator Type: Half mask
Respirator Model: Mox
Cartridge Type: 3M
Anticipated Usage: 600 Minutes/day
10 Hours/day
5 Days/week

Qualitative Fit Test (QLFT) Protocol used:

- Isomyl Acetate (Respirator must be equipped with an organic vapor filter)
Saccharin Solution (Must use Devilbiss Model 40 Inhalation Medication Nebulizer or equivalent)
X Bitrex (Denatonium Benzoate) Aerosol.

Quantitative Fit Test (QNFT) Protocol used:

Test Chamber: Circle one of the following:

- Corn Oil
Polyethylene glycol 400 (PEG 400)
di-2-ethyl hexyl sebacate (DEHS)
Sodium Chloride

Condensation Nuclei Counter: ambient aerosol

- Yes No Subject donned respirator at least 5 minutes prior to assessment
Yes No Subject conducted user seal check
Yes No Apparel interfering with a satisfactory fit must be removed or altered.
Yes No Subject given a description of the fit test and his/her responsibilities prior to assessment.
Yes No Subject wore applicable safety equipment during fit test.

Assessment of Comfort (C: Comfortable, NC: Not Comfortable)

- C NC Position of the mask on the nose
C NC Room for eye protection
C NC Room to talk
C NC Position of mask on face and cheeks
A Adequacy of the fit (A: Adequate, NA: Not Adequate)
A NA Chin properly placed
A NA Adequate strap tension, not overly tight.
A NA Fit across nose bridge
A NA Proper size to span length from nose to chin
A NA Tendency of respirator to slip
A NA Subject observed self in mirror to evaluate fit and position.

Physician's Comments

Exercise (each exercise shall be conducted for one minute, except for grimace which shall be conducted for 15 seconds)

Breathing

- Normal Pass Fail
Deep Pass Fail
Head Pass Fail
Turn Left Pass Fail
Turn Right Pass Fail
Side: Left Pass Fail
Side: Right Pass Fail
Move Up Pass Fail
Move Down Pass Fail

Talking

- Name Pass Fail
SSN# Pass Fail
Read Pass Fail
Rainbow Passage observed by tester Pass Fail

Facial Expressions

- Grimace Pass Fail
Smile Pass Fail
Frown Pass Fail

Body Movement

- Bend at waist Pass Fail
Jog in place Pass Fail

Subject rates comfort of respirator: 1 2 3 4 5 6 7 8 9 10
Least Most

Yes: No Subject made no attempt(s) to adjust respirator during assessment

Assessment (CHECK ALL THAT APPLY)

Test discontinued due to:

- Hair growth, beard, mustache, sideburns which cross respirator sealing surface.
Difficulty breathing, or
Comfort or Fit of respirator was unacceptable to employee.
Recommendation(s)

X Passed Fit Test

Failed Fit Test

Applicant present for fit testing only. Respiratory clearance not presented.

Technician

This record is to be maintained by the employer in accordance with 29 CFR 1910.134 Paragraph (m) (2)(i)(A) - (E).
Re-testing must occur ANNUALLY as long as the employee is required to wear a respirator.

Patient: Cross, Donald R.
SSN: XXX-XX-9111
DOB: 02/15/1971
Gender: M
Marital Status: S
Address: 14812 NE 86th Ave
BRUSH PRAIRIE, WA 98606
Home Phone: (360) 521-2633
Work Phone: _____ Ext.: _____

Job Title: _____
Employer: Performance Abatement Service
Address: 13600 NE 10th Ave
Vancouver, WA 986852677
Job Contact: Ryan Leffel
Role: Primary Contact
Phone: (360) 574-8400 Ext.: _____
Fax: (360) 574-7607
Race: ASIAN BLACK HISPANIC INDIAN WHITE OTHER

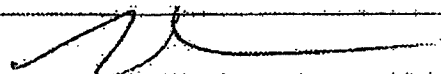
The above individual was seen on 12/14/2009 in accordance with: 29 CFR 1926.1101.
40 CFR 763.121.

The following was performed:

- Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- Review of information from previous medical examinations if available.
- A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.
- A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101.(M)(2)(ii)(C).
- NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____


Provider Signature KEVIN WALTERS, MD

12/15/09
Date

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Certified Worker for Asbestos Abatement Projects

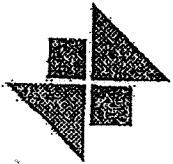


NAME
ANDREA CAPPELLO

CERTIFICATE NO. F 15980	EXPIRATION DATE 5/21/11
TRAINING COURSE DATES 5/17 - 5/21/10	EXAMINATION DATE 5/21/10

TRAINING ADDRESS AND TELEPHONE NO.
**OSILETT (541) 745-5513
6011 NE Marcus Harris Ave.
Corvallis, OR 97330**

The person assigned this certificate has completed the required training for asbestos certification and is certified by the Department of Environmental Quality under OAR Chapter 340, Division 246 and under TSGA Title II



**CONCENTRA
MEDICAL CENTERS**

RESPIRATOR FIT TEST RECORD

A. EMPLOYEE: Andrea Cappello Date: 06-10-10

Employee Job Title/Description: Asbestos Removal

B. Project Name: PERFORMANCE ABATEMENT

Project No. _____

C. Respirator Selected: HAVE MASK Medium
 Manufacturer - NORTH Model: 7720-30M
 NIOSH approval Number: D100

D. Conditions - which could affect Respirator Fit; (Circle any that apply)

<input checked="" type="checkbox"/> Clean Shaven	<input type="checkbox"/> Facial Scar	<input type="checkbox"/> Dentures Absent
<input type="checkbox"/> 1-2 Day Beard Growth	<input type="checkbox"/> Glasses	<input type="checkbox"/> None of these
<input type="checkbox"/> 2+ Day Beard Growth	<input type="checkbox"/> Moustache	
Comments/Other: _____		

E. Fit Testing:

Qualitative: <input checked="" type="checkbox"/> Bitrex	<input type="checkbox"/> Irritant Smoke	<input type="checkbox"/> Saccharine
Quantitative: <input type="checkbox"/> Pass	<input type="checkbox"/> Pass	<input type="checkbox"/> Pass
<input type="checkbox"/> Fail	<input type="checkbox"/> Fail	<input type="checkbox"/> Fail

Fit Factor: _____

Comments: _____

F. Employee Acknowledgement of Test Results:

Employee Signature: Andrea Cappello Date: 06-10-10

Test Conducted By: Nathan Lee Date: 06-10-10

DISCLAIMER: This respirator fit test(s) training was performed on and by the persons listed. The results indicate the performance of the listed respiratory protective device under controlled conditions, as tested on the employee named. Fit testing, as performed, measures the ability of the respiratory protective device to provide protection to the individual tested. The manufacturer or test conductor express or imply no guarantee that this or any identical respiratory protective device will provide adequate protection under conditions other than were present when this test was performed. Improper use, maintenance, or application of this or any other respiratory protective device will reduce or eliminate protection.

Initials of person tested: AL

Concentra Medical Centers
3449 N Andover St, Ste 300A, PORTLAND, OR 97217
Phone: (503) 283-9913 Fax: (503) 283-6765
Medical Surveillance - Asbestos

Service Date: 06/10/2010

Patient: Cappello, Andrea J. Job Title: _____
SSN: XXX-XX-1160 Employer: Performance Abatement Service
DOB: 04/28/1981 Address: 13600 NE 10th Ave
Gender: F _____
Marital Status: S _____
Address: 3665 NE Merges Dr _____
PORTLAND, OR 97212 _____
Home Phone: (503) 729-1851 _____
Work Phone: _____ Ext.: _____
Job Contact: Ryan Leffel _____
Role: Primary Contact _____
Phone: (360) 574-8400 Ext.: _____
Fax: (360) 574-7607 _____
Race: ASIAN BLACK HISPANIC INDIAN WHITE OTHER:

The above individual was seen on 06/10/2010 in accordance with: _____ 29 CFR 1926.1101.
_____ 40 CFR 763.121.

The following was performed:

- Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- Review of information from previous medical examinations if available.
- A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.
- A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure, including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): None

Provider Signature

6/10/10
Date

TAB 6: ASBESTOS ABATEMENT PLANS AND SPECIFICATION

Toward A New

Excellence

North Clackamas Schools

NORTH CLACKAMAS SCHOOL DISTRICT #12

6566 SE LAKE ROAD, STE. F
MILWAUKIE, OREGON 97222

PURCHASING DEPARTMENT
(503) 353-6036

Bid Specifications
ASBESTOS ABATEMENT OF SIX SCHOOLS

Bid # 990-10-2800

DUE
Wednesday, April 14, 2010
2:00 PM, PACIFIC TIME

PURCHASING DEPARTMENT
6566 SE Lake Road, Ste. F
Milwaukie, OR 97222
503-353-6036

MANDATORY PRE-BID MEETING/WALKTHROUGH
Wednesday, March 31, 2010
***9:00 AM, PACIFIC TIME**
Facilities Department
12451 SE Fuller Road
Milwaukie, OR 97222

NOTE: All proposals are to be filed in accordance with Rules, Regulations, Statute, Ordinances, and Specifications as outlined in the attached material and as applicable by the Federal, State and Local Governments. Vendors/Contractors are advised to familiarize themselves with applicable ORS, OAR, AG Model Public Contract Rules, and UCC as applicable in Oregon. All are applicable and may not be spelled out in detail in this document.

NOTE

N.C.S.D. will guarantee that we will post, by FIRST CLASS U.S. MAIL, Official Addenda to all known Plan/Specification holders of record at the PURCHASING DEPARTMENT.

N.C.S.D. will guarantee that no Addenda will be issued less than THREE WORKING DAYS prior to Bid Opening. It shall be the SOLE RESPONSIBILITY OF THE Bidder/Contractor/Vendor to be certain that he or she has received all such Addenda.

Results will not be provided by telephone. Those wishing copies of recaps are requested to submit a POSTAGE PAID, 9 X 12, SELF-ADDRESSED ENVELOPE WITH ADEQUATE POSTAGE.

Recaps will normally not be available for at least THREE WORKING DAYS after the Bid Opening, and in case of bids involving large numbers of items such as supply bids, normally not available for EIGHT to TEN WORKING DAYS OR MORE.

ANNOUNCEMENT OF CALL FOR BIDS

ASBESTOS ABATEMENT OF SIX SCHOOLS BID# 990-10-2800

NORTH CLACKAMAS SCHOOL DISTRICT NO. 12, MILWAUKIE, OREGON

Sealed bids will be received at the Purchasing Department of North Clackamas School District #12, 6566 SE Lake Road, Ste. F, Milwaukie, Oregon until 2:00 PM Pacific Time, Wednesday, April 14, 2010, for ASBESTOS ABATEMENT OF SIX SCHOOLS as described in the specifications on file in the Purchasing Department. Susan L. Jeremiah, Purchasing Specialist 2, is the designated District official for receipt of bids. All interested persons are entitled to attend the bid opening to be held at 6566 SE Lake Road, Milwaukie, Oregon on April 14, 2010 at 2:00 PM Pacific Time.

The work consists of procurement of all permits and removal of all asbestos-containing materials at five school locations in North Clackamas School District in Clackamas County, Oregon in accordance with the description of the project outlined on the drawings and each bid package, agreement form with revisions, general conditions with revisions, supplementary conditions, abatement and air monitoring Specifications and applicable federal, state, and local EPA, OSHA, DEQ, and AHERA regulations.

Plans and specifications may be obtained by contacting Su Jeremiah, Purchasing Specialist 2, Ph: 503-353-6036. FAX: 503-513-4010. E-mail: jeremiah@nclack.k12.or.us, in the Purchasing Department of North Clackamas School District located at 6566 SE Lake Road, Ste. F, Milwaukie, Oregon 97222, upon deposit of such uniform amount as the District may require.

A mandatory pre-bid conference and tour of all six schools will begin at 9:00 AM Pacific Time, Wednesday, March 31, 2010 at North Clackamas School District Facilities Department located at 12451 SE Fuller Road, Milwaukie, Oregon. Maps and times for the mandatory walkthrough of each school site will be handed out at this meeting. Immediately following this mandatory meeting, the Alder Creek Middle School Site (**Bid Pkg. #1**) will be walked and questions taken. The meeting/tour will be adjourned for lunch and will recommence at 12:15 PM at Concord Elementary and continue on to Riverside Elementary (**Bid Pkg. #2**) where the sites will be walked and questions taken. The meeting/tour will then continue on to the New Urban High School/Sojourner Elementary complex (**Bid Pkg. #3**) where the sites will be walked and questions taken. The meeting/tour will then be moved to Oak Grove and View Acres Elementary Schools where the sites will be walked and questions taken. **Please check in at the main entrance of each school site.** Bids for this project will be considered from only those contractors **promptly** attending this conference and the appropriate tour for each bid package. All others will be returned unopened. Pre-bid meeting decisions will be distributed in an addendum.

Attention is called to the provisions of the Oregon Statutes, Chapter 279. The bidder shall agree to abide by the requirements of ORS 279C.800 – 279C.870. The bid must indicate if bidder is a resident bidder as defined in ORS 279C.375 and if the contractor and subcontractors are licensed under ORS 701.005 – 701.055.

The School District reserves the right to reject any bid not in compliance with all prescribed public procedures and requirements or all bids and to waive informalities in this bid.

Formal contractor pre-qualification is not required.

Su Jeremiah
Purchasing Specialist 2
(503) 353-6036

Publish: Daily Journal of Commerce
Monday, March 22, 2010

BID DOCUMENT AND GENERAL SPECIFICATIONS

ASBESTOS ABATEMENT OF SIX SCHOOLS

BID NUMBER: 990-10-2800

1. ANNOUNCEMENT OF CALL FOR BID

Sealed bids will be received at the Purchasing Department of North Clackamas School District #12, 6566 SE Lake Road, Ste. F, Milwaukie, Oregon until 2:00 PM Pacific Time, Wednesday, April 14, 2010, for ASBESTOS ABATEMENT OF SIX SCHOOLS as described in the specifications on file in the Purchasing Department. Susan L. Jeremiah, Purchasing Specialist 2, is the designated District official for receipt of bids. All interested persons are entitled to attend the bid opening to be held at the address above immediately following the bid close.

The work consists of procurement of all permits and removal of all asbestos-containing materials at six school locations in North Clackamas School District in Clackamas County, Oregon in accordance with the description of the project outlined on the drawings and each bid package, agreement form with revisions, general conditions with revisions, supplementary conditions, abatement and air monitoring Specifications and applicable federal, state, and local EPA, OSHA, DEQ, and AHERA regulations.

A mandatory pre-bid conference and tour of all six schools will begin at 9:00 AM Pacific Time, Wednesday, March 31, 2010 at North Clackamas School District Facilities Department located at 12451 SE Fuller Road, Milwaukie, Oregon. Maps and times for the mandatory walkthrough of each school site will be handed out at this meeting. Immediately following this mandatory meeting, the Alder Creek Middle School Site (**Bid Pkg. #1**) will be walked and questions taken. The meeting/tour will be adjourned for lunch and will recommence at 12:15 PM at Concord Elementary and continue on to Riverside Elementary (**Bid Pkg. #2**) where the sites will be walked and questions taken. The meeting/tour will then continue on to the New Urban High School/Sojourner Elementary complex (**Bid Pkg. #3**) where the sites will be walked and questions taken. The meeting/tour will then be moved to Oak Grove and View Acres Elementary Schools where the sites will be walked and questions taken. **Please check in at the main entrance of each school site.** Bids for this project will be considered from only those contractors **promptly** attending this conference and the appropriate tour for each bid package. All others will be returned unopened. Pre-bid meeting decisions will be distributed in an addendum.

The Bid Announcement was published in The Daily Journal of Commerce on Monday, March 22, 2010.

2. PROCUREMENT OF PLANS & SPECIFICATIONS

Plans and specifications may be obtained by contacting Su Jeremiah, Purchasing Specialist 2, Ph: 503-353-6036. FAX: 503-513-4010. E-mail: jeremiah@nclack.k12.or.us, in the Purchasing Department of North Clackamas School District located at 6566 SE Lake Road, Ste. F, Milwaukie, Oregon 97222, upon deposit of such uniform amount as the District may require.

3. INQUIRIES

All inquiries regarding technical specifications in this bid should be directed to Steve Dilling, Environmental Consultant, PBS Engineering. Ph: 503-248-1939 Fax: 503-248-0223 E-mail: steve_dilling@pbsenv.com, JOANNA EVENSON, Project Manager, Ph: 503-353-7079 FAX: 503-353-6065. E-mail: jeverson@ijhenri.com.

All inquiries related to procedure or the actual bid documents should be directed to Su Jeremiah, Purchasing Specialist 2, Ph: 503-353-6036. FAX: 503-513-4010. E-mail: jeremiah@nclack.k12.or.us.

4. PREQUALIFICATION OF BIDDERS

North Clackamas School District requires each Contractor to provide a completed BIDDERS RESPONSIBILITY FORM to assist in our evaluation to determine the "Lowest Responsible Bidder" as required by ORS 279C.375. See: Item 15, BIDDER RESPONSIBILITY FORM for detailed submittal information. Those who are in doubt as to their qualifications are encouraged to contact the Director of Business Operations informally to determine if they are qualified. Formal pre-qualification is not required.

5. BID SCHEDULE

The following schedule is provided to disclose anticipated timelines for this project. This is given for general information. The District reserves the right to adjust any dates listed below in accordance with legal requirements and Bid specifications in the best interests of the District.

AD	3/22/10
PRE-BID	3/31/10
LAST ADDENDA	4/09/10
BID OPEN	4/14/10
INTENT TO AWARD	4/22/10 APPX
BOARD AWARD	5/06/10
NOTICE OF AWARD	5/10/10 APPX
NOTICE TO PROCEED	5/21/09 APPX
PROJECT START	6/21/09 APPX (See ITEM 28, Instruction to Bidders)
PROJECT COMPLETION	Various (See ITEM 28, Instruction to Bidders)

6. ADDENDA

The District will issue any approved interpretation or correction as an Addendum. No clarification, whether made orally or in writing, is effective unless made by written Addendum. Addenda shall be numbered consecutively and shall be published to all persons/planholders who attended the pre-bid meeting. Bidders shall ascertain prior to submitting their bid that they have received all Addenda issued and shall acknowledge their receipt in their bid submission.

7. INTERPRETATION OF SPECIFICATIONS

No officer or employee of North Clackamas School District #12 has any authority to place any interpretation, either verbal or written, upon the foregoing or annexed specifications.

Any attempt by bidder or representative to bribe, in any manner, anyone employed by North Clackamas School District #12 could cause bidder to be debarred from any further contracts or sales to North Clackamas School District #12.

8. REQUESTS FOR CLARIFICATION/CHANGE/PROTEST TO BIDDING DOCUMENTS

(A) **Clarification.** Two (2) days prior to the deadline for submitting a written request for change or protest, a Bidder may request that the District clarify any provision of the Bidding Documents. A Bidder shall submit such requests to North Clackamas School District Purchasing Department, Attn. Su Jeremiah, Purchasing Specialist 2, 6566 SE Lake Road, Ste. F, Milwaukie, Oregon 97222, Fax: (503)513-4010. The District's clarification to a Bidder, whether orally or in writing, does not change the Bidding Documents and is not binding on the District unless the District amends the Bidding Documents by Addendum as provided in Item 6, ADDENDA above.

(B) **Request for Change.**

(1) **Delivery.** A Bidder may request in writing a change to the Bidding Documents. A Bidder must deliver the written request for change to the District not less than 10 Days prior to Closing. A Bidder shall submit such requests to North Clackamas School District Purchasing Department, Attn. Su Jeremiah, Purchasing Specialist 2, 6566 SE Lake Road, Ste. F, Milwaukie, Oregon 97222, Fax:(503) 513-4010 Ph: (503) 353-6036.

(2) **Content of Request for Change.**

(a) A Bidder's written request for change shall include a statement of the requested change(s) to the Bidding Documents, together with the reason for the requested change.

(b) A Bidder shall mark its request for change as follows:
(i) "Bidding Documents Request for Change"; and
(ii) Bidding Documents.

(C) **Protest.**

(1) **Delivery.** A Bidder may protest Specifications or other terms and conditions in the Bidding Documents. A Bidder must deliver a written protest on those matters to the District not less than 10 Days prior to Closing. A Bidder shall submit such written protest to North Clackamas School District Purchasing Department, Attn. Su Jeremiah, Purchasing Specialist 2, 6566 SE Lake Road, Ste. F, Milwaukie, Oregon 97222, Fax:(503) 513-4010 Ph: (503) 353-6036.

(2) **Content of Protest.**

(a) A Bidder's written protest shall include:

- (i) A detailed statement of the legal and factual grounds for the protest;
- (ii) A description of the resulting prejudice to the Bidder; and
- (iii) A statement of the desired changes to the Contract terms and conditions, including any Specifications.

(b) A Bidder shall mark its protest as follows:

- (i) "Bidding Documents Protest"; and
- (ii) Bidding Documents number

(D) **District Response.** The District is not required to consider a Bidder's request for change or protest if it has not received the written request or protest in form required above by the deadline established for submitting such request or protest. The District shall provide notice to the requestor if it entirely rejects a request or protest. If the District agrees with the Person's request or protest, in whole or in part, the District shall either issue an Addendum reflecting its determination or cancel the solicitation. All issues with regard to clarifications, changes, or protest to the Bidding Documents must be raised pursuant to this section. Issues that could have been raised pursuant to a request for clarification, change, or protest, but were not, shall not be grounds for protest of an award. All requests received prior to said time will be reviewed and acknowledged.

(E) **Extension of Closing.** If the District receives a written request for change or protest from a Bidder in accordance with this rule, the District may extend Closing if the District determines an extension is necessary to consider the request or protest and issue an Addendum, if any, to the Bidding Documents.

9. COLLUSION

A bidder submitting a proposal hereby certifies that no officer, agent or employee of the District has a pecuniary interest in this proposal; that the proposal is made in good faith without fraud, collusion or connection of any kind with any other bidder and that the bidder is competing solely in its own behalf without connection with, obligation to any undisclosed person or firm. No employee or elected official of the District may own more than 5% of a business that is submitting a bid on any awards with the District unless it is fully disclosed in the bid documents.

10. ACCEPTANCE OF CONDITIONS

Each bidder, by the submission of a bid, assents to each and every term and condition set forth anywhere in these specifications and agrees to be bound thereby.

11. SUBMISSION AND OPENING OF BIDS

Each bidder is invited to bid upon any one of the items described under the general specifications or upon any number of items described or upon all the items described. Each line item will be considered a separate bid unless otherwise indicated.

IMPORTANT NOTICE: Oregon State statutes require that North Clackamas School District #12 go through a prescribed bid/quote/proposal process. A Bid is allowed under O.A.R. for certain goods or services. This Bid allows bidders the opportunity to submit to the District the bid or bids that they feel will best serve the interests of the District. The District takes the bid/quote/proposal process seriously, and it is its intent to solicit bids/quotes/proposals that are accurate and that each bidder intends to honor. Bidders are expected to submit bids/quotes/proposals that are accurate, complete and contain all terms and conditions that they feel are necessary. If after submitting a bid/quote/proposal, the bidder finds changes are necessary, the bidder may change or withdraw their bid ANY TIME UP TO the time of the bid/quote/proposal closing time.

However, after the closing time, the bid/quote/proposal *MAY NOT* be changed or altered in any way. If accepted, a bid/quote/proposal is considered a binding contract and non-cancelable that the bidder will be expected to honor. If for any reason the bidder does not perform, the District can be expected to take whatever action it believes appropriate, including but not limited to, the removal of that bidder name from future bid lists.

(A) **Submittal Deadline:** Sealed bids must be received at the address below by 2:00 PM Pacific Time, Wednesday, April 14, 2010. Su Jeremiah, Purchasing Specialist 2, is the designated District official for receipt of bids. All bids must be received by the Purchasing Department of North Clackamas School District No. 12 at the address below (B) no later than the date and time specified. Late bids will be rejected. The District WILL NOT be responsible for bids delivered to any location other than the Purchasing Department. If bids are mailed or delivered to a location other than the Purchasing Department, but are not received by the Purchasing Department by the time and date of bid closing noted above, they will be rejected. ***Facsimile or other electronic transmissions will not be accepted.***

(B) **Form of Submittal.** All bids shall be sealed in an opaque envelope or package and addressed as follows:

NORTH CLACKAMAS SCHOOL DISTRICT #12
Attention: Su Jeremiah, Purchasing Department
6566 SE Lake Road, Ste. F
Milwaukie, Oregon 97222

In addition, the name and address of the bidder and the title of the bid should be IDENTICAL in wording to that appearing on the cover of these specifications and MUST appear on the outside of said envelope. (i.e.: **BID #990-10-2800 ASBESTOS ABATEMENT OF SIX SCHOOLS**). Use the attached label to affix to the outside of the envelope is recommended.

Bids which are incomplete or conditioned, or which contain any erasures, alterations, addition of items not called for in the itemized bid, or that contains irregularities or any kind, or which are not in conformity with the law may be rejected.

(C) **Signatures Required:** The bid sheet of these specifications shall be signed with ink or indelible pencil, as follows:

1. In the case of an individual bidder, by such individual bidder.
2. In the case of a partnership, the name of the partnership must appear on such bid and it shall be signed in the name of such partnership by at least one partner. In addition to such signature, the names of all partners shall be stated in such bid.
3. In the case of a corporation, the president or other managing officer shall subscribe the corporate name, and there shall be set forth under the signature of such officer the name of the office he holds or the capacity in which he acts for such corporation.

(D) **Confidential Information** The District is subject to the Oregon Public Records Law (ORS 192.410 to 192.505), which requires the District to disclose all records generated or received in the transaction of District business, except as expressly exempted in ORS 192.501, 192.502, or other applicable law. Examples of exemptions that could be relevant include trade secrets (ORS 192.501) and information submitted in confidence (ORS 192.502). The District will not disclose records submitted by a bidder that are exempt from disclosure under the Public Records Law, subject to the following procedures and limitations:

A bidder must mark all pages containing records exempt from disclosure as "confidential" and segregated in the following manner:

1. It shall be clearly marked in bulk and on each page of the confidential document.
2. It shall be kept separate from the other BID/RFP documents in a separate envelope or package.
3. Where this specification conflicts with other formatting and response instruction specifications, this specification shall prevail.
4. Where such conflict (in 3. above) occurs, the Proposer is instructed to respond with the following: "Refer to confidential information enclosed."
5. This statement (in 4. above) shall be inserted in the place where the requested information was to have been placed.

Bidders who desire that additional information be treated as confidential must mark those pages as "confidential"; cite a specific statutory basis for the exemption, and the reasons why the public interest would be served by the confidentiality.

The entire bid cannot be marked confidential, nor shall any pricing be marked confidential. Should a bid be submitted in this manner, no portion of it can be held as confidential unless that portion is segregated in the above manner and meets the above criteria?

Notwithstanding the above procedures, the District reserves the right to disclose information that the District determines, in its sole discretion, is not exempt from disclosure under the Public Records Law or that the District is directed to disclose by the District Attorney or a court of competent jurisdiction as the result of a public records inspection request.

- (E) **Acknowledgment of Receipt of Addenda.** A bidder shall provide written acknowledgment of receipt of all issued addenda with its bid.
- (F) **Bid Opening.** All interested persons are entitled to attend the bid opening to be held at 6566 SE Lake Road, Ste. F, Milwaukie, Oregon at 2:00 PM Pacific Time, Wednesday, April 14, 2010. Except as provided in subsection (D), above, the bids will be available for public inspection after opening.

12. DURATION OF BID PROPOSALS

1. No bidder may withdraw his bid after the hour set for the opening thereof or before award of the Contract, unless said award is delayed for a period exceeding Thirty (30) -DAYS.
2. An award of the contract to any bidder shall not constitute a rejection of any other bid.

13. BID GUARANTEE

Attach bid security to all proposals in the form of a surety bond, cashier's check, or certified check of the bidder in the amount equal to TEN PERCENT (10%) of the total bid amount made payable to North Clackamas School District #12 as a guarantee that the bidder will, if awarded the Contract, execute same and furnish specified Performance Bond and Payment Bond. (See: CONTRACT, PERFORMANCE AND PAYMENT BONDS, Item 14 below).

14. CONTRACT, PERFORMANCE AND PAYMENT SURETY BONDS

- (1) Within TEN (10) CONSECUTIVE CALENDAR DAYS after receipt of "Notice of Bid Award", the bidder to whom the Contract is awarded, shall execute a formal, written contract and shall furnish a Corporate Performance Surety Bond and a Corporate Payment Surety Bond in form and with surety satisfaction to the District in an amount equal to the full contract sum for the faithful performance and payment of said contract and all provisions thereof; provided, that the formation of said contract shall not be complete and the District shall not be liable thereon until said formal written contract has been executed both by the successful bidder and by the District and said Performance Bond and Payment Bond, properly executed, have been delivered to and accepted by the District.

The form of contract, which the successful bidder will be required to execute, is on file at the Purchasing Department of the District for inspection by bidders.

If it is determined to be in the best interests of the District to split the award of this bid and if said split results in the award of a project to a contractor for less than \$10,000.00, said Performance Bond and Payment Bond may be waived at the discretion of the District. (AG-MPC Rule 137-049-0460(3))

- (2) The Certified Check or Bid Bond of the bidder with whom the contract is entered into will be returned when said contract has been properly executed by the bidder and said Performance Bond and Payment Bond, properly executed, has been delivered to and accepted by the District. The Certified Check or Bid Bond of each bidder, who was not awarded the contract, will be returned immediately thereafter.
- (3) Any bidder or bidders to whom the contract is awarded and who shall default in executing said formal written contract or in furnishing a satisfactory Performance Bond and/or Payment Bond within the time and in the manner required by these specifications shall be liable to the District and forfeit the bid security that accompanied his bid. The bid security shall be taken and considered as liquidated damages and not as a penalty for failure of the bidder to execute the contract and bond, pursuant to ORS 279C.385.

15. INSURANCE - PROOF OF COVERAGE

Work shall not commence until all insurance requirements have been met and certificates thereof have been filed with the Purchasing Department. (See: GENERAL CONDITIONS, Item 6)

16. BIDDER RESPONSIBILITY FORM

North Clackamas School District requires each Contractor to provide a completed BIDDERS RESPONSIBILITY FORM to assist in our evaluation to determine the "Lowest Responsible Bidder" as required by ORS 279C.375.

The two apparent low Bidders shall complete and submit within 16 working hours of bid close, the Bidder Responsibility Form (See Sample Forms section, sample copy and submittal copy in Submittal Packet) signed by the Bidder that states the qualifications of the firm for accomplishing the specified work on this project.

The Bidder Responsibility Form addresses the following standards of responsibility:

1. Evidence of previous similar projects of similar scope undertaken by the bidder and completed for local government agencies within the last three (3) years. Previous project information should include examples of scope of work similar to the North Clackamas School District project, the name of the project, the bidder's role on the project (general contractor or subcontractor), the date completed, the project engineer or architect, and the name of the public agency (include the public agency's address, phone number and contact person). To be considered for acceptance as prime contractor for this project, a bidder must demonstrate a minimum of three consecutive years experience as a general contractor in successfully executing work of the types specified. A bidder may list additional years of experience in other types of work and as a subcontractor, but these years of experience must be in addition to the minimum number of years required as a general contractor on work similar to this project and must be listed after the minimum specified experience as a general contractor.
2. Evidence of a satisfactory record of performance during the last three (3) years;
3. Evidence of sufficient financial, material, equipment, facility and expertise, necessary to meet all contractual responsibilities;
4. Evidence that the key subcontractors, installers and supervisory personnel proposed for this contract are qualified for the type of work specified;
5. Evidence of a satisfactory record of integrity. A bidder may be determined to lack integrity if the District determines the bidder demonstrates a lack of business ethics such as violation of state environmental laws or false certifications made to an agency.

The District may find a bidder non-responsive based on the lack of integrity of any entity having influence or control over the bidder (such as a key employee of the bidder that has the authority to significantly influence the bidder's performance of the Contract or a parent company, predecessor or successor entity). Copies of any letters of recommendation or appreciation from other public agencies of previous improvement projects successfully completed by the bidder would be accepted but are not required.

17. REQUIRED CERTIFICATIONS/LICENSES.

(A) **Nondiscrimination.** Each Bidder must certify that the Bidder has not and will not discriminate against a subcontractor in the awarding of a subcontract because the subcontractor is a minority, women, or emerging small business enterprise certified under ORS 200.055.

(B) **Resident Bidder.** Each Bidder must identify whether the Bidder is a resident Bidder, as defined in ORS 279A.110 (4), ORS 279C.375.

(C) **Construction Contractors/Landscape Contractors Board.** The District will not receive or consider bids unless the Bidder is licensed with the Construction Contractors Board or the State Landscape Contractors Board, as applicable. Only "General Contractor - All Structures" or "Specialty Contractor - All Structures" classifications are allowed on District public works projects.

(D) **Public Works Bond.** The contractor and every subcontractor must have a Public Works Bond pursuant to ORS 279C.936 filed with the Construction Contractors Board before starting work on the Project, unless exempt under ORS 279C.836(7) or(8).

18. PREVAILING WAGES

(A) **Prevailing Wages Apply:** ORS 279C.800 through ORS 279C.870 applies to this Project. Workers shall be paid not less than the specified minimum hourly rate of wage in accordance with ORS 279C.830. The prevailing wage rates are set forth in the State of Oregon Bureau of Labor and Industries ("BOLI") publication entitled *Prevailing Wage Rates for Public Works Projects in Oregon*, January 1, 2010 and any subsequent amendments is incorporated by reference herein. THE LATEST VERSION IS PUBLISHED ON BOLI WEBSITE www.boli.state.or.us.

(B) **Payment of Prevailing Wages.** No bid will be received or considered by the District unless the bid contains a statement by the bidder that "Contractor agrees to be bound by and will comply with the provisions of ORS 279C.840 or 40 U.S.C. 27a." See (A) above of these instructions for prevailing wage requirements,

19. EQUAL EMPLOYMENT COMPLIANCE REQUIREMENT

By submitting this bid, the bidder certifies conformance to the applicable Federal Acts, Executive Orders and Oregon Statutes and Regulations concerning Affirmative Action toward equal employment opportunities. All information and reports that are required by the Federal or Oregon Governments having responsibilities for the enforcement of such laws shall be supplied to the District upon request, for purposes of investigation to ascertain compliance with such acts, regulations and orders.

20. LIST OF SUBCONTRACTORS

Within two (2) working hours of the date and time of the deadline when bids/proposals are due (closing), the bidders are to submit on the document provided, a list of all first-tier subcontractors, including address, sub-contract dollar value amount and type of labor or material proposed to be used on this project. This applies to subcontractors whose contract value is equal or greater than 5% of the total bid or \$15,000, whichever is larger or \$350,000 regardless of the percentage of the total bid. Within TEN (10) CALENDAR DAYS after receipt of Notice of Award, the successful low bidder will submit on a copy of a document provided, a list of all additional subcontractors and more complete information on the first-tier subcontractors, including Builders' Board registration number, proof of a filed Public Works Bond and insurance information, proposed to be used on this project. Prior to the signing of the Contract, the District will notify the bidder in writing if the Owner has substantial objection to any person or organization on such list and may, at the bidder's option, withdraw the proposal. If the bidder submits an acceptable substitute with an increase in the bid price occasioned by such substitution, the Owner may accept the increased bid price or may disqualify the bidder. **No additional subcontractor may be added to this list after the submission without the written approval of the District.**

It shall be the responsibility of the General Contractor to assure that all subcontractors are duly registered and have filed a Public Works Bond with the Oregon State Builder's Board and carry adequate liability and Oregon Worker's Compensation, as required.

21. CRIMINAL BACKGROUND CHECK, DRUG TESTING, TOBACCO AND ALCOHOL POLICIES

The District is committed to maintaining a drug-free workplace and strictly complies with the Drug Free Work Place Act of 1988 and the Drug-Free Schools and Communities Act amendments of 1989. No alcohol, drugs, firearms or weapons are allowed on any District property. In accordance with District policy, smoking and the use of all tobacco products are prohibited on all District property.

In order to comply with ORS 279C.505 (2) and to enable the District to determine that a bidder will comply with the District's above noted policies, bidders shall submit a complete copy of their Employee Criminal Background Check, Drug/Alcohol Testing Programs with their proposals. Describe the Criminal Background Check performed of employees who will work at school sites with students. Please define the criteria for qualification/disqualification of employment of an employee with the above policies.

22. OREGON PRODUCTS / SPECIFIED MATERIALS

It is distinctly understood that in the selection of equipment and supplies listed herein, preference shall be given to articles manufactured or produced within the State of Oregon, price and quality being equal and time required for delivery being satisfactory to the Board of Directors.

The use of brand names in specifying materials is for purposes of description and fixing quality only. Refer to GENERAL REQUIREMENTS, Page 3, Section 0160-01, for procedures on approval of substitutions.

23. DATA SECURITY

The vendor needs to provide a Statement of Data Security. This statement will document procedures and protocols used by the vendor to secure and safeguard confidential District information. Vendor will also certify the information provided from the District will not be released or shared in any manner without the written permission of the District. Vendor will also specify the information lifecycle including how and when confidential District information will be destroyed or archived following use. Statement of Data Security must be approved by the District.

24. HOLD HARMLESS

The Contractor shall hold harmless, indemnify, and defend the District, its officers, agents, and employees for all claims, suits or actions of any nature arising out of any act, error, or omission of the Contractor, its officers, subcontractor, agents or employees whether actual or alleged, and resulting in bodily injury, property damage, or personal injury, during or resulting from the work described under this contract except liability arising out of the sole negligence of the District.

25. ANTITRUST CLAIMS

The vendor hereby assigns to the North Clackamas School District fully, finally, and in their entirety, any and all federal and/or state antitrust claims that the vendor now has or may hereafter acquire as a result of or in connection with any and all goods and services in the contract. Further, the vendor shall cause similar wording in favor of the District to be made a part of any and all contracts entered into with subcontractors or suppliers as a result of the primary contract. Claims shall include price-fixing, monopolization, and any other violation of state or federal antitrust law.

26. TRANSFER OR ASSIGNMENT

Neither this contract nor any interest therein shall be transferred to any other party or parties, and in case of such transfer, the District may refuse to carry out this contract, either with the transferor or the transferee. All rights of action for any breach of this contract by a successful bidder are reserved to the District. No officer of said District, nor any person employed in its service, is, or shall be, permitted any share or part of this contract or any benefit, which may arise from this point on. The successful bidder further agrees to make payment promptly as due, to all persons supplying labor or material for the implementation of the work provided for herein. The successful bidder shall not permit any lien or claim to be filed or prosecuted against the District for or on account of any labor or material furnished aforesaid.

27. VARIATIONS IN QUANTITIES:

The quantities and location of asbestos-containing materials (ACM) indicated on the drawings and the extent of work included in this section is only best estimates that are limited by the physical constraints imposed by occupancy of the buildings. Accordingly, minor variations of plus or minus 10 percent of the estimated quantities of ACM within the limits of containment for each abatement stage are considered as having no impact on contract price and time of this contract. Locations of ACM different than indicated on drawings, but within the limits of containment, are considered as having no impact on contract price and time of this contract. Where additional asbestos abatement work is required beyond the above variations, the contract price and time will be adjusted under provisions of the applicable contract. Additional or reduced abatement work beyond the variations stated will be a basis for adjustment of the contract price.

28. PROJECT SCHEDULE:

(1) Bid Pkg. #1

Alder Creek Middle School Start Work: June 21, 2010
Completion: Visual inspections and TEM clearances by July 7, 2010
Working Hours: 7:00 a.m. to 4:30 p.m.

(2) Bid Pkg. #2

Riverside Elementary Start Work: June 21, 2010
Completion: Visual inspections and TEM clearances for base bid and alternate work by June 30, 2010
Working Hours: 7:00 a.m. to 4:30 p.m.

Concord Elementary Start Work: June 21, 2010
Completion: Visual inspections and TEM clearances for the Cafeteria and Office work by June 30, 2010. Base bid window removal to start July 8, 2010 and completed July 15, 2010. Bid Alternate #1 Classroom window removal to start July 16, 2010 and completed by July 23, 2010. Bid Alternate #2 Gym window removal to start July 24, 2010 and completed by July 25, 2010.
Working Hours: 7:00 a.m. to 4:30 p.m.

(3) Bid Pkg. #3

New Urban/Sojourner Start Work: June 21, 2010
Completion: Visual inspections and TEM clearances for all above ground abatement by July 1, 2010. Visual inspections and TEM clearances for the tunnel abatement by July 9, 2010
Working Hours: 7:00 a.m. to 4:30 p.m.

Oak Grove Elementary Start Work: June 21, 2010
Completion: Visual inspections and TEM clearances for the Cafeteria by June 30, 2010. The start of Window and glazing putty removal is to be determined (TBD) the estimated start date is July 26, 2010 and work to be completed in conjunction with new windows installation. The bidding contractor is to assume 4 working days or sooner to complete the work.
Working Hours: 7:00 a.m. to 4:30 p.m.

View Acres Elementary Start Work: June 21, 2010
Completion: Visual inspections and TEM clearances by July 5, 2010
Working Hours: 7:00 a.m. to 4:30 p.m.

29. RESERVATIONS

The Board of Directors of North Clackamas School District #12 herein expressly reserves the following rights:

- (1) To reject any or all bids as permitted by Oregon Statute or Administrative Rule.
- (2) To consider the competency and responsibility of bidders and of their proposed sub-contractors in making the award.
- (3) To award a contract for any one of the items described under the general specifications or upon any number of the items described therein or upon all of the items described therein, as we determine is in the best interest of the District.

- (4) In the event that two or more bids shall be for the same amount for the same item, to award the contract for such item by drawing lots between such bidders or to divide the quantity of such items equally between all such bidders.
- (5) In the event any bidder or bidders to whom the contract is awarded shall default in executing said formal contract or in furnishing a satisfactory Performance and/or Payment Bond within the time and in the manner hereinafter specified, to re-award the contract to another bidder or bidders, as provided by statute.
- (6) In the event only one bid is received, the Director of Business Operations may, at his election, return the bid unopened.
- (7) To require a signed statement from the bidder, on the product bid, to furnish any materials herein requested that does fully meet all of the specifications published in this document and the attached bid quantity listing for that material, substance or product.

END OF INSTRUCTION TO BIDDERS

SAMPLE FORMS & DOCUMENTS

**NORTH CLACKAMAS SCHOOL DISTRICT NO. 12
ASBESTOS ABATEMENT OF SIX SCHOOLS
Bid #990-09-2800**

Provide lump sum prices for the work as indicated below and specified. Submittal of this proposal form shall serve as representation that the presenter has read and understands the terms of the project including drawings, bid package the governing regulations, and site conditions under which the work will be executed and that the presenter has visited the site. All bids shall be in accordance with this bid package, North Clackamas School District contract and general conditions, abatement and air-monitoring specifications and applicable federal, state, and local EPA, OSHA, DEQ, and AHERA regulations.

BID PKG 1. Alder Creek middle School Total Base Bid \$ _____ DOLLARS

BID PKG 2. Total Base Bid \$ _____ DOLLARS

Breakout:

A. Riverside Elementary School \$ _____ DOLLARS

B. Concord Elementary School \$ _____ DOLLARS

BID PKG 3. Total Base Bid \$ _____ DOLLARS.

Breakout:

A. New Urban HS / Sojourner Elementary Schools \$ _____ DOLLARS

B. Oak Grove Elementary School \$ _____ DOLLARS

C. View Acres Elementary School \$ _____ DOLLARS

ALTERNATES: Per the Contract Documents associated with this project:

BID PKG #2

Alternate #1 Riverside Elementary School (additional window removal) \$ _____ DOLLARS

Alternate #1 Concord Elementary School (additional classroom window removal) \$ _____ DOLLARS

Alternate #2 Concord Elementary School (additional gym window removal) \$ _____ DOLLARS

BIDDER NAME: _____

ASBESTOS ABATEMENT OF FIVE SCHOOLS

UNIT PRICES: Per the Contract Documents associated with this project:

Provide the unit prices for each item listed below. Unit prices will be used to calculate added or deducted costs from the contract sum or cost of change orders for Owner-requested un-specified additional work during the duration of the project. Change orders shall be calculated by multiplying unit price by approximate quantity indicated. Specific material unit prices shall include labor, material and markup. Unit price shall reflect all types of working conditions, establishment of a contained negative pressure regulated area, removal methods and environments such as ladder work, tunnels and difficult areas to reach.

Unit Price 1: Cost per square foot to remove wallboard with asbestos-containing joint compound in a pre-established contained regulated area. Dollars \$ _____ /SF

Unit Price 2: Cost per square foot to remove wallboard with asbestos-containing joint compound between 1 and 100 square feet. Dollars \$ _____ /SF

Unit Price 3: Cost per square foot to establish a regulated area and remove wallboard with asbestos-containing joint compound between 101 and 1000 square feet. Dollars \$ _____ /SF

Unit Price 4: Cost per penetration to remove wallboard with asbestos-containing joint compound in multiple locations using a direct HEPA vacuum at the point of penetration, drop cloth and wet methods for small penetrations (<15 square inches) needed by the general contractor. Dollars \$ _____ /EA

Unit Price 5: Cost per square foot for removal of asbestos-containing floor tile with asbestos-containing mastic on concrete substrate. Dollars \$ _____ /SF

Unit Price 6: Cost per square foot for removal of asbestos-containing floor tile with asbestos-containing mastic on wood substrate. Dollars \$ _____ /SF

Unit Price 7: Cost per square foot for removal of asbestos-containing floor tile with asbestos-containing mastic on concrete substrate with carpet. Dollars \$ _____ /SF

Unit Price 8: Cost per square foot for removal of asbestos-containing floor tile with asbestos-containing mastic on wood substrate under plywood and carpet. Dollars \$ _____ /SF

Unit Price 9: Cost per glove bag to remove a single or multiple asbestos-containing mudded hard fittings or up to 3 linear feet of pipe insulation. Dollars \$ _____ /GB

Unit Price 10: Cost per linear foot to remove asbestos-containing pipe insulation between 2 and 8 inches in diameter. Dollars \$ _____ /LF

BIDDER NAME: _____

- Unit Price 11:** Cost per linear foot to wrap and cut pipe with asbestos-containing insulation between 2 and 8 inches in diameter. Dollars \$ _____ /LF
- Unit Price 12:** Cost per each to remove sinks asbestos-containing undercoating. Dollars \$ _____ /EA
- Unit Price 13:** Cost per square foot to remove non-asbestos chalk or tack boards with asbestos-containing mastic and scrape the remaining mastic off the wall. Dollars \$ _____ /EA
- Unit Price 14:** Cost per hour for an asbestos abatement supervisor to perform additional work, as requested, during the course of this project. Dollars \$ _____ /HR
- Unit Price 15:** Cost per hour for an asbestos abatement worker to perform additional work as requested during the course of this project. Dollars \$ _____ /HR
- Unit Price 16:** Cost per mobilization to return to the site for additional asbestos abatement. Dollars \$ _____ /MOB
- Unit Price 17:** Cost per linear foot to remove asbestos-containing window putty or caulk. Dollars \$ _____ /LF
- Unit Price 18:** Cost per square foot for removal multiple layered flooring with mixed non-asbestos and asbestos-containing floor tile with mastic sandwiched between up to two layers of wood substrate and fasteners Dollars \$ _____ /SF
- Unit Price 19:** Cost per square foot to remove asbestos-containing wall plaster between 1 and 100 square feet. Dollars \$ _____ /SF

BIDDER NAME: _____

TO: NORTH CLACKAMAS SCHOOL DISTRICT 12 _____/_____/_____

The undersigned Contractor agrees to furnish, in strict compliance with the attached specifications, all labor, materials, equipment, apparatus appliances, tools, transportation and other facilities and services necessary to perform such part of the work described therein as may be awarded to the undersigned Contractor, and to perform said work in strict compliance therewith, for the amounts set forth in the proposal sheets attached hereto.

Herewith attached is a (Check proper box.) Certified Check for \$ _____
 Cashier's Check
 Bidder's Bond

BIDDER'S EMPLOYER'S FEDERAL IDENTIFICATION NUMBER: _____

Are you as a Contractor, or any of your Sub-Contractors, currently in violation of ORS 279.350? Do you or any of your sub-contractors have monetary interest in any firm that is currently in violation, or does anyone currently in violation have monetary interest in your organization that would make you ineligible to receive Public Works Contracts? ___Yes
 ___No

EQUAL EMPLOYMENT COMPLIANCE REQUIREMENT: By submitting this proposal, the undersigned certifies conformance to the applicable Federal Acts, Executive Orders, and Oregon Statutes and Regulations concerning Affirmative Action toward equal employment opportunities. All information and reports required by the Federal or Oregon State Governments, having responsibility for the enforcement of such laws, shall be supplied to the District upon request for purposes of investigation to ascertain compliance with such acts, regulations, and orders.

ADDENDA: Receipt is hereby acknowledged of Addenda _____, through _____.

Date ___/___/___ X _____

Builders Board Number _____ Expiration Date _____

Insurance - equal to or greater than required.

Liability & Property Damage _____ Yes _____ No Company _____

Vehicle Liability _____ Yes _____ No Company _____

Workers' Compensation _____ Yes _____ No Company _____

Are you domiciled in the State of Oregon? ___ Yes _____ No

Are you registered to do business in the State of Oregon? _____ Yes _____ No

If you are not headquartered in Oregon, do you or your firm receive, or are you or your firm eligible for, any preference in the award of contracts with your state or with government bodies in your state? ___Yes ___No

If so, site the law or regulation (legal citation preferred): _____

Percent of Preference _____% State Preference Received _____

Do you have an employee drug testing program in place? ___ Yes _____ No

Documentation of a testing program or proof of no employees must be submitted to Purchasing by the two apparent low bidders within 16 working hours after bid opening.

Providing incorrect information may be grounds for bid rejection or contract cancellation.

SIGNATURE FOR INDIVIDUAL (signed by individual)

Address _____ X _____
City, State _____
(Print or Type Name)
Zip _____ Telephone _____ Company _____

SIGNATURE FOR PARTNERSHIP (signature of one Partner required)

Names of Partners: (please print) _____ Name of Partnership: _____

Address _____
City, State _____
Zip _____ Telephone _____
X _____
(Print or Type Name)

SIGNATURE OF CORPORATION (signatures as indicated)

Name of Corporation: _____
Address: _____
City, State & Zip: _____
Telephone Number: _____
Signed by: X _____
Print or Type Name: _____
Official Capacity (Title): _____
Attest: (Secretary of Corp.) X _____

(SEAL)

INSTRUCTIONS FOR FIRST-TIER SUBCONTRACTOR DISCLOSURE

Bidders are required to disclose information about certain first-tier subcontractors that will be furnishing labor or materials when the contract value for a Public Improvement is greater than \$100,000 (ORS 279C.370). Specifically, when the contract amount of a first-tier subcontractor is greater than or equal to: (1) 5% of the project bid, but at least \$15,000, or (2) \$350,000 regardless of the percentage, you must disclose the following information about that subcontract within two (2) hours of bid closing:

- a) The subcontractor's name
- b) The subcontractor's category of work
- c) The subcontract dollar value

If you will not be using any subcontractors that are subject to the above disclosure requirements, you are required to indicate "NONE" on the accompanying form. **This must be submitted separately from your bid. Use of the attached label is recommended.**

THE DISTRICT MUST REJECT A BID IF THE BIDDER FAILS TO SUBMIT THE DISCLOSURE FORM WITH THIS INFORMATION BY THE STATED DEADLINE (OAR 137.049.0360).

To determine disclosure requirements, the District recommends that you disclose subcontract information for any subcontractor as follows:

- 1) Determine the lowest possible contract price. That price will be the base bid amount less all alternate deductive bid amounts (exclusive of any options that can only be exercised after contract award).
- 2) Provide the required disclosure information for any first-tier subcontractor whose potential contract services (i.e., subcontractor's base bid amount plus all alternate additive bid amounts, exclusive of any options that can only be exercised after contract award) are greater than or equal to: (1) 5% of that lowest contract price, but at least \$15,000, or (2) \$350,000 regardless of the percentage. Total all possible work for each subcontractor in making this determination (e.g., if a subcontractor will provide \$15,000 worth of services on the base bid and \$40,000 on an additive alternate, then the potential amount of subcontractor's services is \$55,000. Assuming that \$55,000 exceeds 5% of the lowest contract price, provide the disclosure for both the \$15,000 services and the \$40,000 services).

THIS FORM IS DUE BY 4:00 P.M., Wednesday, April 14, 2010 FOR ASBESTOS ABATEMENT OF SIX SCHOOLS, Bid #990-10-2800.

NORTH CLACKAMAS SCHOOL DISTRICT NO. 12

PROJECT: ASBESTOS ABATEMENT OF SIX SCHOOLS
BID #: 990-10-2800

PROPOSED LIST OF SUB-CONTRACTORS: This listing is required for ALL general construction projects and for any project of \$100,000 or more. Copy as needed. This form must be received within two working hours of bid submittal and again as specified in the Instructions to Bidders.

	FIRST-TIER SUBCONTRACTOR	CATEGORY OF WORK	DOLLAR VALUE
1)			
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			
11)			
12)			
13)			
14)			
15)			
16)			
17)			
18)			
19)			
20)			

CONTRACTOR NAME _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we _____,
as principal(s) of _____, a corporation duly organized
under the laws of the State of _____, having its principal place of business at
_____, in the City of _____, and the State of
_____, and authorized to do business in the State of Oregon, as surety, are held
and firmly bound unto the NORTH CLACKAMAS SCHOOL DISTRICT NO. 12, Milwaukie, Oregon, in the
full and penal sum of: (\$ _____)

_____ DOLLARS,
for the payment of which, well and truly made, we bind ourselves, our heirs, executors, administrators,
successors and assigns, jointly and severally, firmly by these presents. The condition of this bond is such
that, whereas the principal herein is herewith submitting his or its proposal for _____,
said bid and proposal, by reference thereto, being made a part hereof.

NOW, THEREFORE, if the said proposal and bid submitted by the said principal be accepted, and the
contract be awarded to said principal, and if the said principal shall enter into and execute the said contract
and shall furnish bond as required by NORTH CLACKAMAS SCHOOL DISTRICT NO. 12, Milwaukie,
Oregon, within the time fixed by said Owner, then this obligation shall be void; otherwise, to remain in full
force and effect.

Signed and sealed this _____ day of _____ 200_____

Company/Corporation

Principal Signature

(SEAL)

Surety

COUNTERSIGNED:

By;

Residing Agent

Attorney-in-Fact

BIDDER RESPONSIBILITY FORM

North Clackamas School District requires each Contractor to provide a completed BIDDERS RESPONSIBILITY FORM to assist in our evaluation to determine the "Lowest Responsible Bidder" as required by ORS 279C.375.

The two apparent low Bidders shall complete and submit within **16 working hours** of bid close, the Bidder Responsibility Form found in Related Forms (sample copy) and submittal copy in Submittal Packet, signed by the Bidder that states the qualifications of the firm for accomplishing the specified work for this North Clackamas School District Project.

The Bidder Responsibility Form addresses the following standards of responsibility:

1. Evidence of previous similar projects of similar scope undertaken by the bidder and completed for local government agencies within the last three (3) years. Previous project information should include examples of scope of work similar to the North Clackamas School project, the name of the project, the bidder's role on the project (general contractor or subcontractor), the date completed, the project engineer or architect, and the name of the public agency (include the public agency's address, phone number and contact person). To be considered for acceptance as prime contractor for this project, a bidder must demonstrate a minimum of three consecutive years' experience as a general contractor in successfully executing work of the types specified. A bidder may list additional years of experience in other types of work and as a subcontractor, but these years of experience must be in addition to the minimum number of years required as a general contractor on work similar to this project and must be listed after the minimum specified experience as a general contractor.
2. Evidence of a satisfactory record of performance during the last three (3) years.
3. Evidence of sufficient financial, material, equipment, facility and expertise, necessary to meet all contractual responsibilities.
4. Evidence that the key subcontractors, installers and supervisory personnel proposed for this contract are qualified for the type of work specified.
5. Evidence of a satisfactory record of integrity. A bidder may be determined to lack integrity if the District determines the bidder demonstrates a lack of business ethics such as violation of state environmental laws or false certifications made to an agency. The District may find a bidder non-responsive based on the lack of integrity of any entity having influence or control over the bidder (such as a key employee of the bidder that has the authority to significantly influence the bidder's performance of the Contract or a parent company, predecessor or successor entity). Copies of any letters of recommendation or appreciation from other public agencies of previous improvement projects successfully completed by the bidder would be accepted but are not required.

BIDDER RESPONSIBILITY FORM

Project Name: _____

All information shall be typed or printed legibly

Note: Information provided in this form is part of the inquiry concerning bidder responsibility, and this form must be submitted as specified in the Instruction to Bidders, Item 16.

Part A

Submitted by: _____
Signature Date

Name (print): _____

Name of Firm: _____

Address: _____

Phone: _____ Fax: _____

E-mail: _____

1. How many years has your organization done business as a General Contractor under the present business name? _____
How many years under different name(s)? _____
List different names, if any, and dates of operation:

2. How many years has your organization been in business under its present business name?

How many years under different name(s)? _____
List different names, if any, and dates of operation:

Part B – Complete the appropriate Portion Below:

1. Bidder is an INDIVIDUAL:
Name of individual _____
(First Name, Middle Initial, Last Name)
Doing Business as _____

2. Bidder is a CORPORATION:

Name of Corporation as registered with the state of Oregon: _____

Date of Incorporation: _____ State of Incorporation: _____

Name of President _____

Name of Secretary _____

Name of Treasurer _____

Name of Manager _____

3. Bidder is a LIMITED PARTNERSHIP:

Name of Limited Partnership
as registered with the state of Oregon: _____

Name of persons or parties composing the Limited Partnership (Indicate whether an individual or corporation):

4. Bidder is a GENERAL PARTNERSHIP:

Name of General Partnership
As registered with the state of Oregon: _____

Name of persons or parties composing the General Partnership (Indicate whether an individual or corporation):

5. Bidder is a JOINT VENTURE:

Name of Joint Venture
As registered with the state of Oregon: _____

Name of persons or parties composing the Joint Venture (Indicate whether an individual or corporation):

Part C

1. What percent of the work do you normally perform with your own forces? _____

List Trades directly employed by you:

_____	_____	_____
_____	_____	_____
_____	_____	_____

2. List the Construction Equipment you own or lease long-term:

_____	_____	_____
_____	_____	_____
_____	_____	_____

3. Have you ever failed to complete any work awarded to you? _____

Answer yes or no

If so, indicate when, where, and why. _____

4a. Have you ever defaulted on a contract? _____ If so, indicate when, where and why.

Answer yes or no

4b. What result: Lawsuit?, Judgment?, Arbitration?, Settled?, Other? (Circle the one that most applies)

If other, explain: _____

4c. Are there currently any unpaid judgments against the business or any of its principals? _____
yes or no

If so, describe: _____

5. Has any Officer or Partner of your organization ever been an Officer or Partner of another Organization that failed to complete a construction contract? _____
Answer yes or no. If so, describe circumstances below:

6. List major construction projects your organization currently has under contract as the general contractor:

Project name: _____
Owner / Contact Name & Phone #: _____
Architect/Engineer: _____
Contract Amount / Contract Date: _____
% Complete / Schedule Complete: _____

Project name: _____
Owner / Contact Name & Phone #: _____
Architect/Engineer: _____
Contract Amount / Contract Date: _____
% Complete / Schedule Complete: _____

Project name: _____
Owner / Contact Name & Phone #: _____
Architect/Engineer: _____
Contract Amount / Contract Date: _____
% Complete / Schedule Complete: _____

Add additional sheets listing projects as required.

7. List major projects, similar to the one being bid, that your organization completed in the past (_____) years as the general contractor

Project name: _____
Owner / Contact Name & Phone #: _____
Architect/Engineer: _____
Contract Amount / Date Awarded: _____
% completed with own forces: _____

Project name: _____
Owner / Contact Name & Phone #: _____
Architect/Engineer: _____
Contract Amount / Date Awarded: _____
% completed with own forces: _____

Project name: _____
Owner / Contact Name & Phone #: _____
Architect/Engineer: _____
Contract Amount / Date Awarded: _____
% completed with own forces: _____

Add additional sheets listing projects as required.

8. List the construction experience of the principal individuals in your Organization; which ones will be assigned to this project (including the percentage of their time to be assigned to this project):

Individual's Name: _____

Construction experience - years: _____

Present position & years with organization: _____

Percentage of individual's time to be assigned to project: _____

Individual's Name: _____

Construction experience - years: _____

Present position & years with organization: _____

Percentage of individual's time to be assigned to project: _____

Individual's Name: _____

Construction experience - years: _____

Present position & years with organization: _____

Percentage of individual's time to be assigned to project: _____

- 8a. Have any of the principal individuals in your Organization been convicted under state or federal statutes of embezzlement, theft, forgery, bribery, falsification or destruction of records, or receiving stolen property? _____ . If so, describe circumstances below:
Answer yes or no

- 8b. Have any of the principal individuals in your Organization been the subject to a civil judgment for fraud? _____ . If so, describe circumstances below:
Answer yes or no

9. Bank References:

10. Trade References:

11. List names of Bonding and Insurance Companies, name and address of agents, and maximum bonding capacity.

What portion remains on this Bonding Capacity at the time of submittal of the Bid?

12. The bidder agrees to furnish, upon request by the District, within five-days after the Bid Opening, a current Statement of Financial Conditions, including Contractor's latest regular dated financial statement or balance sheet which must contain the following items:

- Current assets: (cash, joint venture accounts, accounts receivable, notes receivable, accrued interest on notes, deposits, and materials and prepaid expenses), net fixed assets and other assets.
- Current liabilities: (Accounts payable, notes payable, accrued interest on notes, provisions for income taxes, advances received from owners, accrued salaries accrued payroll taxes), other liabilities, and capital (capital stock, authorized and outstanding shares per values, earned surplus).

Date of statement or balance sheet: _____

Name of firm preparing statement: _____

By: _____

Bidder's Initials: _____



**NORTH CLACKAMAS SCHOOL DISTRICT
PERFORMANCE CONTRACT**

**ASBESTOS ABATEMENT OF SIX SCHOOLS
Bid #990-10-2800 /Project # 2800-990-01-10**

This AGREEMENT, made this ___ day of _____ at Milwaukie, Oregon by and between North Clackamas School District No. 12, hereinafter called the "Owner", and _____ - hereinafter called the "Contractor."

WITNESSETH THAT:

In consideration of the mutual covenants and conditions hereinafter set forth, the Owner and Contractor hereby agree as follows:

1. Statement of work: The contractor shall furnish and pay the cost, including all applicable taxes and fees, of all necessary materials not furnished by the Owner and shall furnish and pay for all superintendence, labor, tools, equipment and transportation and perform all work required for the construction of all work listed and itemized under the proposed schedule and the specification and requirement divisions attached hereto. All prevailing wage rates shall be paid as required under ORS 279C.840
2. The Contractor certifies that he/she will follow all specifications, including those applicable to prevailing wage rates, and should there be litigation involved in this contract, shall hold the Owner harmless.
3. The Owner shall pay the Contractor for the performance of the Contract in accordance with the description of work as stated in the specifications the total sum of _____ DOLLARS (\$XXXXXXXX), which is the total bid sum of the Combined Bid.
4. The Contractor shall commence the work covered by this Contract following a pre-construction meeting scheduled by Mr. XXXXXXXX, Project Manager and The Notice to Proceed and shall complete the same as shown for individual projects in the specifications. The Notice to Proceed and shall complete the same as shown for individual projects in the specifications.
5. The terms and conditions of the Bid documents, Addendum and Schedules with agreed exceptions and clarifications shall prevail.
6. The Bid documents, the Addendum and Schedules, with agreed exceptions and clarifications attached are incorporated in this contract.

IN WITNESS WHEREOF, The Owner executes this contract and the Contractor does sign and seal the same as of the day and year in this contract first above written.

Director of Business Operations,
North Clackamas School District No. 12

Contractor

Title

PERFORMANCE BOND (PAYMENT BOND-SIMILAR FORMAT)

KNOW ALL MEN BY THESE PRESENTS:

THAT, _____,
a corporation duly organized and existing under and by virtue of the laws of the State of _____ as principal, and _____,
a corporation organized and existing under and by virtue of the laws of the State of _____,
and duly authorized to transact a surety business in the State of Oregon, as surety are jointly and severally bound unto NORTH CLACKAMAS SCHOOL DISTRICT NO. 12, Milwaukie, Oregon, in the penal sum of (\$ _____) _____ DOLLARS for the payment of which we jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns firmly by these presents.

WHEREAS, the said principal herein has made and entered into a certain contract with NORTH CLACKAMAS SCHOOL DISTRICT NO. 12, Milwaukie, Oregon, a copy of which contract is hereto annexed and made a part hereof and under which contract the principal agrees to furnish certain materials and to perform certain work consisting of _____.

NOW, THEREFORE, if the principal herein shall faithfully and truly observe and comply with the forms of the contract and shall well and truly perform all matters and things by him undertaken to be performed under said contract upon the terms proposed therein and shall promptly make payments to all persons supplying labor or material for any prosecution of the work provided for in such contract and shall not permit any lien or claim to be filed or prosecution against NORTH CLACKAMAS SCHOOL DISTRICT NO. 12, Milwaukie, Oregon, or account of any labor or material furnished and shall promptly pay all contributions or amounts due the State Unemployment Compensation Trust Fund incurred in the performance of said contract, and shall promptly, as due, make payments to any person, co-partnership, association or corporation furnishing medical, surgical, and hospital care or other needed care and attention incidental to sickness

or injury to the employees of such principal, pursuant to the laws of the State and any contract entered into pursuant thereto or collected or deducted from the wages of said employees pursuant to any law, contract or agreement for the purpose of providing or paying for such services, and shall do all things required of said principal by the laws of the State, then this obligation is to be void: otherwise, to remain in full force and effect.

This bond is given and received under the authority of the State of Oregon, the provisions of which are hereby incorporated into this bond and made a part thereof.

IN WITNESS WHEREOF, the said principal and the said surety have caused these presents to be executed by their respective duly authorized legal representatives and their corporate seals to be hereunto affixed on this _____ day of _____, 200_____.

(SEAL)

PRINCIPAL _____

By: _____

Attest: _____

(SEAL)

SURETY _____

By: _____

Countersigned:

By: _____

BOLI INFO AND FORMS

**INELIGIBLE CONTRACTORS – JANUARY 1, 2010
STATUTORY PUBLIC WORKS BOND
WH-38 CERTIFIED PAYROLL FORM**

BOLI WAGE RATES EFFECTIVE: January 1, 2010

AND ANY SUBSEQUENT ADDENDA

ARE APPLICABLE THIS BID

In accordance with ORS 279C.830, the minimum hourly rates of wage as determined by the Commissioner of the Bureau of Labor, are by reference hereby made a part of the Specifications.

**LIST OF CONTRACTORS INELIGIBLE
TO RECEIVE PUBLIC WORKS CONTRACTS
PUBLICATION DATE: January 1, 2010**

To: All Oregon Contracting Agencies

Pursuant to ORS 279C.860, contractors on this list are ineligible to receive public works contracts subject to the Prevailing Wage Rate Law. These contractors and subcontractors, as well as any firm, corporation, partnership or association in which the contractor or subcontractor has a financial interest are ineligible to receive public works contracts until removed from this list.

If you have questions regarding the list or for the most current information regarding persons ineligible to receive prevailing wage contracts, please contact the Prevailing Wage Rate Coordinator in (Portland) at (971) 673-0839.

	<u>CONTRACTOR NAME</u>	<u>DATE PLACED</u>	<u>REMOVAL DATE</u>
1.	ACMS Cabinets, Inc. 1510 SW Friendly Court. McMinnville, OR 97128	August 12, 2008	August 11, 2011
2.	Donald G. Annotti 5094 36 th Avenue SE Salem, OR 97317 PO Box 12606 Salem, OR 97309	July 13, 2009	July 12, 2010
3.	Daniel J. Bateman dba Builders Hardware Service PO Box 1677 Albany, OR 97321	January 11, 2008	January 10, 2011
4.	Christy C. Beaver dba Beaver Flagging 2239 Dakota Street Eugene, OR 97404	November 25, 2009	November 24, 2019
5.	Christy C. Beaver 2570 River Road Eugene, OR 97404	November 25, 2009	November 24, 2019
6.	Sam Boulis and Janet Boulis 15460 Brianne Court Lake Oswego, OR 97035	January 22, 2009	January 21, 2012
7.	Cameron Creations Steven Cameron Nancy Cameron PO Box 2 Lowell, OR 97452	May 25, 2000	Not to be Removed
8.	Collins and Collins Construction Co. dba Collins and Collins Construction 2957 SW Peridot Avenue PO Box 420 Redmond, OR 97756	May 27, 2009	May 26, 2012

**LIST OF CONTRACTORS INELIGIBLE
TO RECEIVE PUBLIC WORKS CONTRACTS
PUBLICATION DATE: January 1, 2010**

	<u>CONTRACTOR NAME</u>	<u>DATE PLACED</u>	<u>REMOVAL DATE</u>
9.	Corp, Inc. 5094 36 th Avenue SE Salem, OR 97317 PO Box 12606 Salem, OR 97309	July 13, 2009	July 12, 2010
10.	Clifford J. Fullman PO Box 67248 Portland, OR 97268	January 12, 2007	January 11, 2010
11.	Howard E. Johnson & Sons Construction Co. PO Box 1142 Warrenton, OR 97146-1142	August 26, 2009	August 25, 2012
12.	JBH Installations, Inc. 40209 Donomore Court Temecula, CA 92591	January 11, 2008	January 10, 2011
13.	KTM, Inc. 28532 Crow Road Eugene, OR 97402	March 3, 2008	March 2, 2011
14.	David Larson PO Box 1142 Warrenton, OR 97146-1142	August 26, 2009	August 25, 2012
15.	Larson Construction Co., Inc. PO Box 2797 Gearhart, OR 97138-2797	August 26, 2009	August 25, 2012
16.	James Ray Lincoln aka Jimmy Ray Lincoln dba and fdba James Lincoln Drywall 730 Russel Drive Hammond, OR 97121	October 2, 2007	October 1, 2010
17.	Jennifer A. Lupton fdba JAL Contracting PO Box 7529 Bend, OR 97708-7529 21085 Lost Valley Court Bend, OR 97702-2801	November 25, 2009	November 24, 2012
18.	Jennifer A. Lupton PO Box 7529 Bend, OR 97708-7529 21085 Lost Valley Court Bend, OR 97702-2801	November 25, 2009	November 24, 2012
19.	Robert Dean Moore 439 SW 30 th Court Troutdale, OR 97060	May 27, 2009	May 26, 2012

**LIST OF CONTRACTORS INELIGIBLE
TO RECEIVE PUBLIC WORKS CONTRACTS
PUBLICATION DATE: January 1, 2010**

	<u>CONTRACTOR NAME</u>	<u>DATE PLACED</u>	<u>REMOVAL DATE</u>
20.	Omega West Painting, Inc. PO Box 6683 Portland, OR 97228	January 22, 2009	January 21, 2012
21.	Rob's Custom Interiors, Inc. 439 SW 30 th Court Troutdale, OR 97060	May 27, 2009	May 26, 2012
22.	Anthony Taylor 1510 SW Friendly Court. McMinnville, OR 97128	August 12, 2008	August 11, 2011
23.	Pamela Testerman 28532 Crow Road. Eugene, OR 97402	March 3, 2008	March 2, 2011
24.	Bradley L. Thomas 465 NE 181 st , #503 Portland, OR 97230	May 27, 2009	May 26, 2012
25.	Westside Painting, Inc. PO Box 6986 Portland, OR 97228	July 1, 2009	June 30, 2012

**BRAD AVAKIAN, COMMISSIONER
OREGON BUREAU OF LABOR AND INDUSTRIES**



STATE OF OREGON

STATUTORY PUBLIC WORKS BOND

Surety bond #: _____ CCB # (if applicable): _____

We, _____, as principal, and _____, a corporation qualified and authorized to do business in the State of Oregon, as surety, are held and firmly bound unto the State of Oregon for the use and benefit of the Oregon Bureau of Labor and Industries (BOLI) in the sum of thirty thousand dollars (\$30,000) lawful money of the United States of America to be paid as provided in ORS chapter 279C, as amended by Oregon Laws 2005, chapter 360, for which payment well and truly to be made, we bind ourselves, our heirs, personal representatives, successors and assigns, jointly and severally, firmly by this agreement.

WHEREAS, the above-named principal wishes to be eligible to work on public works project(s) subject to the provisions of ORS chapter 279C, as amended by Oregon Laws 2005, chapter 360, and is, therefore, required to obtain and file a statutory public works bond in the penal sum of \$30,000 with good and sufficient surety as required pursuant to the provisions of section 2, chapter 360, Oregon Laws 2005, conditioned as herein set forth.

NOW, THEREFORE, the conditions of the foregoing obligations are that if said principal with regard to all work done by the principal as a contractor or subcontractor on public works project(s), shall pay all claims ordered by BOLI against the principal to workers performing labor upon public works projects for unpaid wages determined to be due, in accordance with ORS chapter 279C, as amended by Oregon Laws 2005, chapter 360, and OAR Chapter 839, then this obligation shall be void; otherwise to remain in full force and effect.

This bond is for the exclusive purpose of payment of wage claims ordered by BOLI to workers performing labor upon public works projects in accordance with ORS chapter 279C, as amended by Oregon Laws 2005, chapter 360.

This bond shall be one continuing obligation, and the liability of the surety for the aggregate of any and all claims which may arise hereunder shall in no event exceed the amount of the penalty of this bond.

This bond shall become effective on the date it is executed by both the principal and surety and shall continuously remain in effect until depleted by claims paid under ORS chapter 279C, as amended by Oregon Laws 2005, chapter 360, unless the surety sooner cancels the bond. This bond may be cancelled by the surety and the surety be relieved of further liability for work performed on contracts entered after cancellation by giving 30 days' written notice to the principal, the Construction Contractors Board, and BOLI. Cancellation shall not limit the responsibility of the surety for the payment of claims ordered by BOLI relating to work performed during the work period of a contract entered into before cancellation of this bond.

IN WITNESS WHEREOF, the principal and surety execute this agreement. The surety fully authorizes its representatives in the State of Oregon to enter into this obligation.

SIGNED, SEALED AND DATED this _____ day of _____, 20 _____

Surety by:

Principal by:

Company Name (Seal)

Name

Signature

Signature

Title (e.g. Attorney-in-Fact)

Title

**SEND BOND TO: Construction Contractors Board
PO Box 14140
Salem, OR 97309-5052
Telephone: (503) 378-4621**

Address

City State Zip

CERTIFIED STATEMENT

Date: _____

I, _____ (NAME OF SIGNATORY PARTY) _____ (TITLE)
do hereby state:

(1) That I pay or supervise the payment of the persons employed by:

_____ (CONTRACTOR, SUBCONTRACTOR OR SURETY)
on the _____ (BUILDING OR WORK) _____, that during the payroll period
commencing on the _____ day of _____ (MONTH) _____ (YEAR) and ending the _____ day
of _____ (MONTH) _____ (YEAR) all persons employed on said project have been paid the
full weekly wages earned, that no rebates have been or will be made either directly or
indirectly to or on behalf of said _____ (CONTRACTOR, SUBCONTRACTOR OR SURETY)
from the full weekly wages earned by any person, and that no deductions have been
made either directly or indirectly from the full wages earned by any person, other than
permissible deductions as specified in ORS 652.610, and as defined in Regulations, Part
3 (29 CFR Subtitle A), issued by the Secretary of Labor under the Copeland Act, as
amended (48 Stat. 948, 63 Stat. 108, 72 Stat. 967; 76 Stat. 357; 40 U.S.C. 276c), and
described below:

(2) That any payrolls otherwise under this contract required to be submitted for the above
period are correct and complete; that the wage rates for workers contained therein are
not less than the applicable wage rates contained in any wage determination
incorporated into the contract; that the classifications set forth therein for each worker
conform with work performed.

(3) That any apprentices employed in the above period are duly registered in a bona fide
apprenticeship program registered with a state apprenticeship agency recognized by the
Bureau of Apprenticeship and Training, United States Department of Labor, or if no such
recognized agency exists in a state, are registered with the Bureau of Apprenticeship
and Training, United States Department of Labor.

I HAVE READ THIS CERTIFIED STATEMENT, KNOW THE CONTENTS THEREOF
AND IT IS TRUE TO MY KNOWLEDGE:

(NAME AND TITLE)

(SIGNATURE AND DATE)

In addition to completing sections (1) - (3), if your project is subject to the federal
Davis-Bacon Act requirements, complete the following section as well:

(4) That:

(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS OR PROGRAMS

- In addition to the basic hourly wage rates paid to each laborer or mechanic listed in the above referenced payroll, payments of fringe benefits as listed in the contract have been or will be made to appropriate programs for the benefit of such employees, except as noted in Section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH

- Each laborer or mechanic listed in the above referenced payroll has been paid, as indicated on the payroll, an amount not less than the sum of the applicable basic hourly wage rate plus the amount of the required fringe benefits as listed in the contract, except as noted in Section 4(c) below.

(c) EXCEPTIONS:

EXCEPTION (CRAFT)	EXPLANATION

REMARKS:

NAME AND TITLE

SIGNATURE

THE WILLFUL FALSIFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION. SEE SECTION 1001 OF TITLE 18 AND SECTION 231 OF TITLE 31 OF THE UNITED STATES CODE.

FILE THIS FORM WITH THE PUBLIC AGENCY ASSOCIATED WITH THE PROJECT
NOTE TO CONTRACTORS: YOU MUST ATTACH COPIES OF THIS FORM TO EACH OF YOUR PAYROLL SUBMISSIONS ON THIS PROJECT.
INSTRUCTIONS AND ADDITIONAL FORMS ARE AVAILABLE ON OUR WEBSITE: WWW.OREGON.GOV/BOLI.



BUREAU OF LABOR AND INDUSTRIES, PREVAILING WAGE RATE UNIT

**INSTRUCTIONS FOR COMPLETING THE PREVAILING WAGE RATE
PAYROLL/CERTIFIED STATEMENT FORM (WH-38)**

The Payroll/Certified Statement form (WH-38) may be used by contractors for reporting their payroll as required by ORS 279C.845 on public works projects subject to the Prevailing Wage Rate (PWR) Law. Although this form has not been officially approved by the U.S. Department of Labor (US DOL), it is designed to meet the requirements of the federal Davis-Bacon Act. For projects associated with the U.S. Department of Housing and Urban Development (HUD), contact the public agency (owner) associated with the project for assistance with payroll reporting.

Contractors are not required to use the WH-38 form in reporting their payroll; however, the contractor must provide all of the information contained in the form, including the certified statement on page two. The certified statement must be signed by the contractor, certifying the accuracy of the information reported on the payroll, including representations pertaining to the provision of fringe benefits to employees by third parties, and must be submitted with each weekly payroll report. Detailed instructions concerning the preparation of the form follow:

Complete the top third of the form. Be sure to enter the date the contract was first advertised for bid. If you are not sure of this date, contact the public agency (owner) associated with the project. The "Payroll No." is a US DOL requirement and represents the week number for the reporting period.

Column 1 – NAME AND ADDRESS: The employee's full name must be shown on each payroll submitted. The employee's address must also be shown on the first payroll submitted. The address need not be shown on subsequent payrolls submitted unless the address changes. The US DOL requires an employee identification number for each individual employee, on each payroll submitted. This number may be, but does not have to be, the last four digits of the employee's social security number.

Column 2 – CLASSIFICATION: For assistance in determining the correct classification, use the Bureau of Labor and Industries' publication "Definitions of Covered Occupations for Public Works Contracts in Oregon." On the WH-38, list the classification that is most descriptive of the work actually performed by the employee. Give the group number for those classifications that include such information. Indicate which workers are apprentices, if any, and give their current percentage, classification, and group number when applicable. If an employee works in more than one classification, use the highest rate for all hours worked, or use separate line entries to show hours worked and hourly rates for each classification.

Column 3 – DAY AND DATE: Enter the day of the week (M, T, W, Th, F, S, and Sn) in the top row of boxes, and the corresponding date below.

HOURS WORKED EACH DAY: Enter the total number of straight time hours worked in the row marked "ST." Generally, hours worked over 8 in a day or work performed on Saturdays, Sundays, and legal holidays should be entered as overtime ("OT") hours worked. Contractors who have adopted and followed a written work schedule of four consecutive ten-hour days (Monday through Thursday or Tuesday through Friday) may enter hours worked over 10 in a day as overtime hours. For more information on overtime requirements, see the Contractor Responsibilities section of the Bureau of Labor and Industries' publication "Prevailing Wage Rate Laws" handbook.

Column 4 – TOTAL HOURS: Enter separately the total number of straight time and overtime hours worked by the employee (in each classification, if applicable) on the PWR project during the week. The total number of straight time hours worked should be entered in the lower box ("ST"); the total number of overtime hours worked should be entered in the top box ("OT").

Column 5 – HOURLY BASE RATE: Enter the hourly base rate (plus zone pay, if any) and the hourly overtime rate (plus zone pay, if any) paid to the employee in the appropriate straight time and overtime boxes. (Payment of not less than one and one half times the base rate of pay, including zone pay but not

including fringe benefits, is required to be paid for overtime hours pursuant to ORS 279C.540). Generally, use the appropriate prevailing wage rates in effect at the time the contract was first advertised for bid by the public agency. If this date is not known, or if the project was not advertised for bid, contact the public agency (owner) associated with the project for assistance with applicable rates.

Column 6 – HOURLY FRINGE BENEFIT AMOUNT PAID AS WAGES TO THE EMPLOYEE: Enter hourly fringe benefit amounts paid directly to the employee as wages. (For overtime hours worked, it is not necessary to pay time and one half for the fringe benefit portion of the prevailing wage rate.)

Column 7 – GROSS AMOUNT EARNED: Enter the gross amount earned for work on the PWR project during the week. If part of the employee's wages for the pay period were earned on projects other than the project described on the WH-38, or if the employee is paid less often than on a weekly basis, enter in column 7 first the gross amount earned on the PWR project for the week, then the total gross amount earned for the pay period. For example: \$567.84 / \$1,267.27.

Column 8 – ITEMIZED DEDUCTIONS, FICA, FED, STATE, ETC.: Enter deductions withheld from wages for the pay period. All deductions must be in accordance with the provisions of ORS 652.610 (and as defined in Regulations, Part 3 (29 CFR Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 948, 63 Stat. 108, 72 Stat. Stat. 967, 76 Stat. 357; 40 U.S.C 276c) on projects subject to Davis-Bacon Act). For projects subject to the Davis-Bacon Act, itemize the deductions.

Column 9 – NET WAGES PAID: Enter the total amount of net wages actually paid to the employee for the pay period. This figure can be calculated by subtracting the total deductions reported in Column 8 from the gross amount of wages for the pay period reported in the bottom portion of Column 7.

Column 10 – HOURLY FRINGE BENEFITS PAID TO BENEFITS PARTY, PLAN, FUND OR PROGRAM: Enter the hourly amount of fringe benefits paid to each individually approved party, plan, fund, or program, for each employee. List these amounts separately on the lines provided. Any contractor who is making payments to approved parties, plans, funds or programs in amounts less than the required hourly fringe benefit is obligated to pay the difference directly to the employee as wages in lieu of fringe benefits, and to show that amount in Column 6 of this form. For information on how to calculate hourly fringe benefit credits, see Appendix A in the Bureau of Labor and Industries' publication "Prevailing Wage Rate Laws" handbook.

Column 11 – NAME OF BENEFIT PARTY, PLAN, FUND OR PROGRAM: Enter the name of the party, plan, fund, or program that corresponds to the amount paid as an hourly fringe benefit in Column 10.

CALCULATION CHECK

In order to determine whether the wages and fringe benefits paid are sufficient to meet prevailing wage rate requirements, the following check may be performed:

1. For each classification listed in column 2, compute the sum of:
 - a) the hourly base rate of pay shown in Column 5,
 - b) the hourly fringe benefit amount paid as wages to employee shown in Column 6, and
 - c) the hourly fringe benefits paid to benefit party, plan, fund or program shown in Column 10.
2. This sum must equal or exceed the total of the hourly base rate (including zone pay) and the hourly fringe benefit rate for that classification as listed in the appropriate issue of the Bureau of Labor and Industries publications Prevailing Wage Rates for Public Works Contracts in Oregon, or in the Prevailing Wage Rates for Public Works Contracts Subject to BOTH the State PWR and Federal Davis-Bacon Act, if applicable.

IF YOU HAVE QUESTIONS REGARDING COMPLETION OF THIS FORM, CONTACT THE PREVAILING WAGE RATE UNIT OF THE BUREAU OF LABOR AND INDUSTRIES AT (971) 673-0838.

NOTE: PAYROLL/CERTIFIED STATEMENTS ARE ONLY REQUIRED TO BE SUBMITTED TO THE PUBLIC AGENCY ASSOCIATED WITH THE PROJECT.

**CERTIFIED PAYROLL AND OTHER FORMS ARE AVAILABLE ON OUR WEBSITE:
WWW.OREGON.GOV/BOLI**

1. DEFINITIONS

As used in the Contract Documents, unless the context requires otherwise:

- A. "Bond" means a performance bond and/or a payment bond in form and with corporate surety satisfactory to the District in an amount equal to the full contract sum, conditioned upon the faithful performance of the Contract and all provisions thereof.
- B. "Contract" or "Contract Documents" include the Agreement, the Instructions to Bidder, the Proposal Forms, the Bid Forms, First Tier Subcontractor Forms, Bidders Responsibility Form, Performance and Payment Bonds, the Sample Contract, the Prevailing Wage Rates, the General Conditions of the Contract, the General Requirements of the Contract, the Detailed Specifications (Division 1), the plans/drawings, the Addenda, if any, incorporated in the documents before their execution, and all agreements of work, whether by change order or otherwise, modifying or supplementing any of the documents.
- C. "Contractor" means the person or persons with whom a contract is entered into by the District for the performance of the work.
- D. "Directed", "required", "permitted", "selected", "ordered", "designated", "prescribed", or words of like import, mean the direction, requirement, permission, selection, order, designation, or prescription of the Board of Directors of North Clackamas School District #12, Milwaukie, Oregon.
- E. "Director of Business Operations" means Timothy L. Witcher II or his duly appointed designee and/or successor.
- F. "District", "School District", or "Owner" means North Clackamas School District #12, Milwaukie, Oregon.
- G. "Engineer" means an engineer employed by the District for the design and/or supervision of the work.
- H. "Assistant Superintendent for Operations" means Ron Stewart or his duly appointed designee and/or successor.
- I. "Chief Financial Officer" means Jim Langstraat or his duly appointed designee and/or successor.
- J. "Person" means either a natural or an artificial person which includes individuals, partnerships, corporations, and other associations.
- K. "Prevailing Rate of Wage" means the rate of hourly wage and overtime paid in the City of Milwaukie, County of Clackamas, to the majority of workmen in the same trade or occupation as published semi-annually by the Oregon State Bureau of Labor, except as follows:
 - (1) If there is not a majority in the same trade or occupation paid at the same rate, the average rate of hourly wage and overtime paid in the City of Milwaukie, County of Clackamas, to workmen in the same trade or occupation shall be considered to be the prevailing rate.
 - (2) When the Contractor or any subcontractor is a party to a statewide agreement in effect with any labor organization as to the Contractor or such subcontractor, the rate of wages as established in the agreement shall be considered to be the prevailing rate in the City of Milwaukie, County of Clackamas.
 - (3) When Federal funding is involved, the provisions of ORS.350 and the Davis-Bacon Act as supplemented by Department of Labor regulations will be applicable. Weekly payroll reports will be required as per Davis-Bacon Act and current prevailing wage rates as determined by the Federal Department of Labor for Oregon will be applicable.

- L. "Specification" means the directions, requirements, explanations, terms and provisions pertaining to the various features of the work, the manner and method of bidding for the work, the manner and method of performance of the work, and the manner and method of payment, all as they appear in the Contract Documents.
- M. "Subcontractor" means a contractor to whom the contractor has subcontracted a portion of the work, and includes materials suppliers who furnish fabricated items or materials to be incorporated into the work which are not of standard design but rather are fabricated or otherwise specially processed to a particular design required for the performance of some portion of the work. The subcontract may be directly with the contractor or with another subcontractor.

2. OREGON PRODUCTS

- A. In all public contracts, the public contracting agency shall prefer goods or services that have been manufactured or produced in this State if price, fitness, availability and quality are otherwise equal pursuant to ORS 279A.120.
- B. Paragraph A above does not apply in any case where the provisions of that paragraph interfere or conflict with any federal statute or resolution.

3. CONTRACTUAL RELATIONS WITH MATERIAL SUPPLIERS AND LABOR

- A. The Contractor shall:
 - (1) Make payment promptly, as due, to all persons supplying to the Contractor labor, services, material, supplies or provisions for the prosecution of the work provided for in the current contract. If a contractor or first-tier subcontractor fails, neglects or refuses to make payment to a person furnishing labor or materials in connection with this contract within 30 days after receipt of payment from the District or the contractor, the contractor or first-tier subcontractor shall owe the person the amount due plus interest charges commencing at the end of the 10-day period that payment is due and ending upon final payment, see ORS 279C.580 for exceptions. The rate of interest charged to the contractor or first tier subcontractor shall equal three times the discount rate on 90-day commercial paper in effect at the Federal Reserve Bank in the Federal Reserve district that include Oregon on the date that is 30 days after the date when payment was received from the District or from the contractor, not to exceed 30%. If the contractor or subcontractor fails, neglects or refused to make payment to a person who furnished labor or materials in connection with this contract, the person may file a complaint with the Construction Contractors Board, unless ORS 279C.580 applies. See ORS 279C.515.
 - (2) Pay all contributions or amounts due the State Industrial Accident Fund from the Contractor or subcontractor incurred in the performance of the contract.
 - (3) Not permit any lien or claim to be filed or prosecuted against the District on account of any labor or material furnished.
 - (4) Pay to the State Tax Commission all sums withheld from employees pursuant to ORS 316.167.
 - (5) Demonstrate that an employee drug testing program is in place per ORS 279C.505 (2).
- B. The Contractor shall promptly, as due, make payment to any person, co-partnership, association or corporation, furnishing medical, surgical and hospital care or other needed care and attention, incident to sickness or injury, to the employees of the Contractor, of all sums which the Contractor agrees to pay for such services and all moneys and sums which the Contractor collected or deducted from the wages of his employees pursuant to any law, contract or agreement for the purpose of providing or paying for such service.

- C. Minimum hourly rates of wage (not applicable to workmen or other persons regularly employed on monthly or per diem salary.)
- (1) The hourly rate of wage to be paid to workmen upon the work shall not be less than the prevailing rate of wage for an hour's work in the same trade or occupation in the locality where such labor is performed.
 - (2) The minimum hourly rate of wage, not less than the prevailing rate of wage, which may be paid to workmen in each trade or occupation employed in the performance of the contract, either by the Contractor or subcontractor or other person doing or contracting to do the whole or any part of the work contemplated by the contract shall be as specified in the Minimum Hourly Rates of Wage currently on file with the State of Oregon Bureau of Labor. Such workmen shall be paid not less than such specified minimum hourly rate of wage.
 - (3) If at any time during the performance of the work the minimum hourly rate of wage specified on said scale of Minimum Hourly Rates of Wage is below the prevailing rate of wage in the City of Milwaukie, said prevailing rate of wage shall be paid for all labor performed during such time as the same exceeds said specified minimum hourly rate of wage. If any dispute arises as to what is the prevailing rate of wage for the same trade or occupation in the City of Milwaukie and if that dispute cannot be settled by the parties involved, the dispute shall be referred to the Commissioner of the Bureau of Labor, who shall then determine the prevailing rate of wage for the same trade or occupation in the City of Milwaukie.
- D. No person, except foremen, watchmen, and timekeepers paid on monthly rate, shall be employed for or be required or permitted to labor for more than 10 hours in any one day or 40 hours in any one week, except in cases of necessity, emergency, or where the public policy absolutely requires it, in which event the laborer so employed for excessive hours shall receive at least time and a half pay for all overtime in excess of 40 hours a week, and for work performed on Saturday and on any legal holiday specified in ORS 187.010, except Veterans Day. However, when specifically agreed to under a written labor-management negotiated labor agreement, a laborer may be paid at least time and a half pay for work performed on Veterans Day or on any legal holiday specified in ORS 187.020.
- E. The Contractor shall:
- (1) Cause a circular clearly printed with black face pica type and containing a copy of ORS 279C.545 to be posted in a prominent place alongside the door of the timekeeper's office or in a similar place which is readily available and freely visible to any and all men employed on the work.
 - (2) Maintain such circular continuously posted from the inception to the completion of the contract.
- F. The Contractor, and every subcontractor or other person doing work or contracting to do the whole or any part of the work contemplated by the Contract, shall comply with all conditions and requirements of:
- (1) Every law, regulation, order and decree promulgated by governmental authority and in effect at any time during the performance of the work to the extent applicable to the employment, discharge, wages, hours, working conditions, or other terms or conditions of employment of labor employed in connection with the work or to employment and payment practices with respect thereto.
 - (2) Every agreement between any labor organization and the Contractor or subcontractor or other person doing or contracting to do the whole or any part of the work, as the case may be, in effect at any time during the performance of the work to the extent applicable to the employment, discharge, wages, hours, working conditions, or other terms or conditions of employment of labor employed in connection with the work, or to employment and payment practices with respect thereto.

- (3) Contractors personnel are to abide by all rules and regulations of the Owner, especially those relating to conduct, smoking, consumption of alcoholic beverages and safety.

4. PAYMENT OF CLAIMS BY DISTRICT

- A. If the Contractor fails, neglects or refuses to make prompt payment of any claim for labor, services, material, supplies or provisions furnished to the Contractor or a subcontractor by any person in connection with the Contract as such claim becomes due, the proper officer or officers representing the District may pay such claim to the person furnishing the labor, services, material, supplies or provisions, and charge the amount of the payment against the funds due or to become due the Contractor by reason of the Contract.
- B. The payment of any claim in the manner herein authorized shall not relieve the Contractor or the Contractor's surety from liability with respect to any unpaid claims.

5. PROTECTION TO PERSONS AND PROPERTY

- A. During the execution of the work the Contractor shall provide and maintain all guards, railings, lights, warnings, and other protective devices which are required by law or which are reasonably necessary for the protection of persons and property from injury or damage.
- B. The Contractor shall protect and indemnify the District from every claim or demand which may be made by reason of:
- (1) Any injury to person or property sustained by the Contractor or by any subcontractor or other person employed directly or indirectly by the Contractor upon or in connection with the work, however caused.
 - (2) Any injury to person or property sustained by any person caused by an act, neglect, default or omission of the Contractor or any subcontractor or other person employed directly or indirectly by the Contractor upon or in connection with the work.
- C. The Contractor, at the Contractor's own expense and risk, shall defend any and all actions, suits, or other legal proceeding that may be brought or instituted against the District on any such claim or demand and pay or satisfy any order, judgment or decree that may be rendered against the District in any such action, suit or legal proceeding.
- D. The Contractor shall assume full control of the site of the Contractor's operations and, until the completion of the work and its acceptance by the District, shall be responsible for the premises and for the work and shall bear the risk of loss for all damage thereto, however caused, except loss covered by fire insurance carried by the District.
- E. The Contractor shall exercise every possible care and precaution to protect the structure, its contents and site from damage from the weather or other causes, and shall bear the risk of loss for all damage thereto related however remotely to the Contractor's operations except loss covered by fire insurance carried by the District.
- F. Contractor shall designate a responsible member of his organization at the site whose duty shall be the prevention of accidents. This person shall be Contractor's superintendent unless otherwise designated in writing by Contractor to Owner.
- G. In emergencies affecting the safety or protection of persons or the Work or property at the site or adjacent thereto, Contractor, without special instruction or authorization from Project Manager or Owner, is obligated to act to prevent threatened damage, injury or loss. Contractor shall give the Project Manager prompt written notice of any significant changes in the Work or deviations from the contract Documents caused thereby.

6. INSURANCE

- A. At all times during the performance of the work the Contractor, at the Contractor's expense and risk, shall carry liability insurance including completed operations, covering all operations of the Contractor and subcontractors in connection with the work, including motor- vehicle operation, in form and in a company or companies approved by the District and with limits of coverage not less than those hereinafter set forth, and no work shall be performed until a certificate evidencing such insurance has been delivered to and approved by the District. Said insurance shall be non-cancelable except upon THIRTY (30) DAYS advance written notice to the District and shall name the District as an additional insured and as a loss payee as its interest may appear. The policy limits for damages for bodily injury, including death, and for property damage shall be not less than the following:

ALL INSURANCE TO BE "ASBESTOS SPECIFIC"

- (1) **\$1,000,000** aggregate limit per occurrence for Bodily Injuries, including damages for care and loss of services, arising out of bodily injury or death.
 - (2) **\$1,000,000** aggregate limit per occurrence for damages as a result of Personal Injury to include false arrest, false imprisonment, wrongful entry, wrongful eviction, wrong detention or malicious prosecution, libel or slander, assault and battery committed for the purpose of preventing or eliminating danger to person or property, and allegations of sexual or physical abuse.
 - (3) **\$500,000** aggregate limit for Property Damage, including damages for loss of use, arising out of injury to or destruction of property in any one occurrence. Said coverage shall cover motor vehicles operation as well as all operations of the contractor and sub-contractors in connection with any work on our premises.
- B. Said Contractor shall also deliver to the District a certificate evidencing sufficient Oregon Workers' Compensation coverage, as required by law, protecting the District from any claims arising, as a result of work performed on our behalf, by Contractor's or Sub-Contractor's employees.
- C. The District hereby agrees to carry fire insurance covering the work for the protection of the Contractor and subcontractors subject to a \$50,000 retention, which shall be the sole and primary responsibility of the Contractor and subcontractors of the work.

The Contractor will provide primary coverage and/or assume responsibility as primary self-insured against loss of all tools, materials, and equipment, whether owned, leased, or rented, stored on or off the premises, used in performance of this construction project. The Contractor and subcontractors shall arrange their insurance so that the District will not be charged with any part of the cost of any insurance which duplicates fire insurance provided by the District as aforesaid.

7. SCHEDULE OF VALUES - GENERAL CONSTRUCTION CONTRACTS OF \$50,000 OR MORE

After the contract has been awarded, and before the first application for payment is presented, the Contractor shall submit to the District a schedule of values as to the various parts of the work, including quantities and amounts, aggregating the total sum of the contract. No application for payment prior to the completion and acceptance of the entire work will be considered until such schedule of values has been presented to and approved by the Engineer, Assistant Superintendent for Operations and the Chief Financial Officer.

8. METHOD OF PAYMENT

- A. For general construction contracts of **\$50,000 or more** applications for payment shall be made in writing on forms furnished by the District and must be approved by the Engineer, Assistant Superintendent for Operations and the Chief Financial Officer. For general construction contracts **below \$50,000**, a contractor's invoice in triplicate will be sufficient.
- B. All materials furnished and work performed must be accepted by the Engineer or the Assistant Superintendent for Operations before applications for payment will be approved.

- C. Before applications for payment will be approved on projects over \$50,000.00, the original certified payroll information must be submitted to the Purchasing Department of North Clackamas School District as follows:
- (1) Once within 15 days of the date the Contractor first began working on the project.
 - (2) Once before the final inspection of the project by the District.
 - (3) In addition, for projects exceeding 30 days, wage certificates are to be prepared weekly and submitted by the fifth business day of each month.
 - (4) If the Davis-Bacon Act is applicable, weekly payroll submissions will be required on proper Federal forms.

The payroll information must be kept by the contractor and/or subcontractor for a minimum of three years. Said filing shall be on a standard form as prescribed by the State Labor Commissioner and shall certify the hourly rate of wage paid each classification of workmen employed by such Contractor or subcontractor upon the work and further certifying that no workmen employed by such Contractor or subcontractor upon the work has been paid less than the prevailing rate of wage or less than the minimum hourly rate of wage specified in the Contract which statement and certificate shall be verified by the oath of the Contractor or the Contractor's surety that the affiant has read such statement and certificate and knows the contents thereof and that the same is true to his knowledge. Said form will be provided by the District. ORS 279C.800 – 279C.870

- D. A civil penalty of up to \$5,000 for any violation of the Prevailing Wage Rate Law, or Oregon Administrative Rules there under, is authorized by Oregon Law. Proof of payment shall be submitted to the District with the request for the first progress payment. This requirement is not relevant when the Davis-Bacon Act is applicable.
- E. For those general construction contracts that are **\$50,000 or more** the Contractor shall also file with each application for payment a detailed statement setting forth the various items which represent the total amount of the work completed to the date as of which application for payment is made. No application for payment will be considered unless accompanied with such statement.
- F. Progress payments will be made upon proper application based upon work satisfactorily installed and material accepted and stored on the site up to the TWENTY- FIFTH (25th) DAY of each month, less such amounts as may have been paid previously, less such other amounts as may be deductible or as may be owing and due to the District for any cause, and less FIVE (5%) PERCENT of the total contract price as indicated on the approved Certificate for Payment form in accordance with ORS 279C.570.
- G. Payment of the balance of the total amount earned by the Contractor in accordance with the terms of the Contract will be made upon proper application THIRTY (30) DAYS after completion of the work and its acceptance by the District, less such amounts, if any, as may be deductible or as may be owing to the District for any cause as outlined in ORS 279C.575.
- H. Meetings of the Board of Directors normally occur on the first and third Thursdays of each month. Applications for payment to receive attention at any meeting of the Board of Directors in any month must be delivered to the Assistant Superintendent for Operations not later than the EIGHTH (8th) DAY preceding the meeting. Payments which are approved will be included in our next bi-monthly payment schedule.

- I. If in the Engineer's or Assistant Superintendent for Operations opinion, the work covered by any application for payment is incomplete or defective, the Engineer or Assistant Superintendent for Operations may withhold approval of such application for payment or reduce the amount thereof until the work covered thereby is completed or corrected to the Engineer's or Assistant Superintendent for Operation's satisfaction.

9. EFFECT OF ACCEPTANCE OF PAYMENT UPON FINAL CERTIFICATE

Acceptance of payment by the Contractor on final certificate shall constitute a waiver of all claims against the District under or arising out of the Contract.

10. NONASSIGNABILITY

Neither the Contract nor any interest of the Contractor therein can be transferred to any other person or persons without the written consent of the District, and any such attempted transfer shall be utterly void and may be treated by the District as a willful failure or refusal on the part of the Contractor to perform the Contract according to its terms and conditions.

11. SUBCONTRACTING

- A. All subcontracting shall be subject to the approval of the District. A First-Tier Subcontractor list must be submitted within two (2) working hours of bid closing. (See: INSTRUCTION TO BIDDERS, Item 20.) No list of subcontractors approved by the District may be changed or departed from except as consented to by the District in writing. Prior to District approval of any subcontractor change all pertinent information must be submitted to the Purchasing Department, including Builders Board License Number, insurance, and etc. Whenever the District consents to the substitution of one subcontractor for another, if any reduction in cost to the Contractor results there from the amount thereof shall be passed on to the District as a reduction in the amount to be paid to the Contractor for the performance of the work.
- B. The Contractor shall be wholly responsible for the performance of all subcontractors and for their acts and omissions, and those of persons either directly or indirectly employed by them, to the same extent as for the acts and omissions of persons directly employed by the Contractor, and the fact that subcontractors are subject to the approval of the District shall not affect the Contractor's responsibility in this regard.
- C. The Contractor shall bind every subcontractor to all terms and conditions anywhere contained in the contract documents as far as applicable to the work of such subcontractor so that the subcontractor assumes toward the Contractor and toward the work all the obligations and responsibilities that the Contractor assumes toward the District as to the performance of the subcontractor's portion of the work.
- D. Nothing contained in the contract documents shall be construed to create any contract between the District and any subcontractor.

12. TERMINATION FOR DEFAULT OF CONTRACTOR OR SUBCONTRACTOR

- A. Time and the strict and literal performance on the part of the Contractor of every term and condition of the contract and of the work as specified in the contract documents are of the essence. Upon the willful failure or refusal on the part of the Contractor (including willful failure or refusal of any subcontractor not immediately corrected by the Contractor) to perform any such term or condition, the District at its election, without prejudice to any other right or remedy, may perform the same or cause the same to be performed by others, and the cost thereof shall be reimbursed forthwith by the Contractor, or may charge the amount thereof against any funds due or to become due the Contractor by reason of the contract and/or may terminate the right of the Contractor to perform further work and take over the work and such of the Contractor's materials, tools, apparatus, appliances and equipment as are reasonably necessary for use upon or in connection with the unfinished portion of the work, to be held and used by it or by another contractor or other contractors to whom it may award the balance of the work without the payment of any rental for the use thereof and without interference by the Contractor or by any person claiming by, through or under the Contractor, until the work has been fully completed and has been accepted by the District.

- B. If, before completion of the work, the Contractor dies or becomes mentally or physically incapacitated to carry out the work or if a petition is filed by or against the Contractor under the National Bankruptcy Act, as amended, to adjudicate the Contractor as bankrupt or for relief under any of the debtor-relief provisions of the Act, and an order of adjudication or other order approving such petition is entered, or if the Contractor makes a general assignment for the benefit of creditors, or if a receiver is appointed on account of the Contractor's insolvency, then, simultaneously with the happening of any of said events, the right of the Contractor to perform further work shall terminate automatically without notice and without further act of the parties or order of any court, and the possession of the work and of the premises and of such of the Contractor's materials, tools, apparatus, appliances and equipment as are reasonably necessary for use upon or in connection with the unfinished portion of the work shall pass to the District, to be held and used by it or by another contractor or other contractors to whom it may award the balance of the work without the payment of any rental for the use thereof and without interference by the Contractor or by any person claiming by, through or under the Contractor, until the work has been fully completed and has been accepted by the District.
- C. In the event the Contractor's right to perform further work is terminated as aforesaid, the Contractor shall not be entitled to receive any further payment until the work has been completed and has been accepted by the District. If at that time the aggregate of the District's expenses pertaining to the completion of the work including a fair apportionment of its general administrative expenses plus a reasonable allowance of compensation for management service, is less than the unpaid balance of what would have been earned by the Contractor under the terms of the contract, the District shall pay the amount of the excess to the Contractor as soon as the District determines the amount thereof; and, if more, the Contractor shall pay to the District the amount of the deficiency as soon as the District determines the amount thereof.

13. ROYALTIES AND PATENTS

The Contractor shall pay all royalties and other charges for the use of any patented article, device, method, process or invention in the performance of the work. The Contractor shall fully indemnify the District and hold it harmless from any and all loss, damage, cost and expense in connection with any alleged infringement or patent rights in the performance of the work. The Contractor shall defend all claims, actions, suits or other legal proceeding with reference thereto and satisfy the requirements of any adverse judgment, decree or order resulting there from.

14. RELATED WORK BY OWNER AND/OR OTHERS

- A. The Owner may undertake remodeling and maintenance work in various buildings under separate contract. The Asbestos Abatement Contractor shall coordinate with the General Contractor and the Owner to schedule work to accommodate Owner's separate contracts.
- B. The Owner has retained **PBS Engineering & Environmental Consultants** to take and analyze air samples before, during and after the work, observe the work of the Contractor and monitor the Contractor's compliance with the Specification requirements.

15. AUDIT OF BOOKS AND RECORDS

The District, through its representatives, shall have access at all reasonable time to the books and records of the Contractor and subcontractors so far as they relate to the contract and the performance of the work.

16. ORDERS FOR ADDITIONS, DEDUCTIONS, OR CHANGES

- A. The District at all times shall have the right to order additions to, and/or deductions from and/or changes in the work. Each such order shall be issued in writing over the signature of the Chief Financial Officer and shall be strictly observed and complied with by the Contractor and all subcontractors involved.
- B. The Contractor and each subcontractor involved shall maintain separate accounts as to all work performed under each order issued by the District involving additions to and/or changes in the work, and preserve all records and documents pertaining thereto until an adjustment of the contract sum is agreed upon in writing between the Contractor and the District, or otherwise is determined.

- C. Subject to the provisions of Paragraph D below, the contract sum shall be increased or decreased with respect to each order for addition to and/or deductions from and/or changes in the work by such amount as may be agreed to in writing by the Contractor and by the District, or, in the absence of such agreement, by the amount by which the Contractor's necessary and reasonable costs of performing the contract are increased or decreased as a direct result of such order.
- D. The Contractor shall not make any claim for extra compensation, and no extra compensation will be paid to the Contractor unless:
- (1) The particular work for which extra compensation is claimed is ordered in writing (see paragraph A above) by the District as an addition to or change in the work; and
 - (2) No later than FORTY-EIGHT (48) HOURS after receipt of said order, and prior to incurring any expense there under, the Contractor delivers to the Assistant Superintendent for Operations written notice that extra compensation will be claimed by reason thereof, or the payment of extra compensation with respect thereto is agreed to by the District in writing; and
 - (3) The Contractor's necessary and reasonable costs of performing the contract are increased by executing the work in the manner required by said order; and
 - (4) The requirements of paragraph B above are complied with.

17. DEPARTURES FROM TERM OF CONTRACT

No direction or approval given by the District or any representative of the District which deviates in any respect from the drawings, specifications or other contract documents shall be valid or recognized unless and until the same is reduced to writing and issued in the form of a written order over the signature of the Chief Financial Officer, it is understood that any deviation that results in no additional cost may be approved by the Chief Financial Officer, so as to become a contract document as herein before defined. An approval endorsed upon a shop drawing shall not constitute a written order within the meaning hereof or become one of the contract documents.

18. STOP-WORK ORDERS - CONTRACTOR'S RIGHT TO TERMINATE CONTRACT

- A. The District at all times shall have the right to stop the whole or any part of the work. Each such order shall be issued in writing over the signature of the Assistant Superintendent for Operations or the Chief Financial Officer and shall be strictly observed and complied with by the Contractor and all subcontractors involved.
- B. If at any time the entire work remaining to be performed is stopped by order of any court or by the District, through no fault of the Contractor or of any person for whom the Contractor is responsible, and if such stop-work order remains in effect for a period of ONE HUNDRED TWENTY (120) DAYS, then at any time thereafter while such stop-work order is in effect the Contractor by written notice to the District may terminate the Contract.

19. DELAYS AND EXTENSION OF TIME

If at any time during the performance of the work the Contractor or any subcontractor employed by the Contractor be delayed by any act of omission or order of the District or the Engineer (including omission or delay in furnishing instructions necessary for the prosecution of the work) or by any separate contractor employed by unavoidable casualty, act of God or the public enemy, civil commotion, labor dispute, unusual delay in transportation, or other cause beyond the Contractor's reasonable control, then in either of such events, the Contractor's time for completion of the work shall be extended to the extent, if any, reasonably required by reason of such delay; provided, that no delay from any cause will be recognized for any period of time prior to receipt of written notice by the District will be required by reason thereof and, in the case of delay occasioned by some omission by the District of the Engineer, for any period of time prior to the FIFTEENTH (15th) DAY after receipt by the District of written demand for what is omitted.

20. SPECIFICATIONS AND DRAWINGS

- A. The District shall provide without charge all copies of specifications and drawings, except shop drawings, required to execute the work, up to a maximum of ten sets.
- B. Neither the Contractor nor any subcontractor or other person having access to the specifications and drawings shall make any unauthorized use thereof either during or after completion of the work.

21. BUILDING CODES AND REGULATIONS

The Contractor shall comply with all applicable regulations and requirements of governmental bodies with regulatory jurisdiction over the work. Where Code requirements exceed the requirements of the Specifications and Drawings, the installation in conflict shall be made to comply with the Code requirements and at no additional cost to the Owner.

22. EXEMPTION FROM EXCISE TAXES

When requested by the Contractor or a subcontractor, and to the extent applicable, the District will comply with such regulations as the Secretary of the Treasury or his delegate shall prescribe to obtain exemption from the application of federal excise tax.

23. MATERIALS AND WORKMANSHIP

- A. Unless otherwise specified, all materials and equipment shall be new and in production at time of bidding, and both materials and workmanship shall be of best quality of the type involved. Unless otherwise specified, manufacturer's directions for all manufactured articles shall be followed meticulously.
- B. No one shall be employed in connection with the work that is unskilled in the work he is given to do. Should the Assistant Superintendent for Operations or the Chief Financial Officer deem anyone on the work incompetent or unfit for his duties, the Contractor or subcontractor employing him upon notification thereof shall dismiss him immediately and shall not again employ him on any work for the District.
- C. The Contractor agrees to complete all work in full accordance with accepted industry standards. Services performed, product application and equipment installed shall be in full compliance with the manufacturer's instructions.

24. SAMPLES AND TESTS

- A. The Contractor shall furnish without charge samples as directed by the Assistant Superintendent for Operations, whether or not a sample of the particular item is specifically called for in the specifications, and shall not incorporate any item into the work after receipt of request from the Assistant Superintendent for Operations for a sample until a sample is approved in writing by either the Assistant Superintendent for Operations or the Chief Financial Officer.
- B. The District shall have the right, through engineers, physicists or chemists selected by it, to make such test of concrete and other materials, appliances and equipment delivered to the job site or incorporated into the work as the Assistant Superintendent for Operations may deem appropriate. All such tests and analysis shall be paid for by the District, except when the item tested fails to comply with the specifications or otherwise proves to be defective, in which event the entire costs of testing the same shall be borne by the Contractor or subcontractor involved and may be deducted from the contract sum.

25. SUBSTITUTIONS

The Contractor shall not use materials, appliances or equipment which shall deviate from those specified, without the Assistant Superintendent for Operations' written approval.

26. SIGNS, ADVERTISEMENTS, ETC.

The Assistant Superintendent for Operations' instructions relative to signs, advertisements, etc., at the job site shall be strictly observed and complied with by the Contractor and all subcontractors involved.

27. OPERATIONS AND STORAGE OF MATERIALS

The Contractor shall confine all operations and the storage of materials at the job site to the limits indicated by law and permits and as further directed by the Assistant Superintendent for Operations. Neither the Contractor nor any subcontractor nor any servant of the Contractor or of any subcontractor shall make any use of an existing District structure or any facility therein unless specifically authorized by the Assistant Superintendent for Operations.

All materials/equipment must be delivered in original containers as packaged by the manufacturer, with the label intact. Empty containers must be stored at a designated area, and must remain on premises until satisfactory completion of all work or permission is received from Owner to dispose of packaging.

28. NON-INTERFERENCE WITH SCHOOLS

If the work is to be performed during scheduled school activities, the entire work shall be executed in such manner as will not interfere with the continued free and comfortable use of the structure, walks and grounds for school purposes.

29. INTERRUPTION OF SERVICE

If the work is to be performed during scheduled school activities there shall be no interruption of electric, gas, water, steam or other service without prior notice to the District, and then only at a definite time and for a definite duration approved by the Assistant Superintendent for Operations or his representative.

30. SUPERVISION

The Contractor at all times during the execution of the work shall have a competent superintendent or foreman on the job who shall be accessible at all times and have full authority to receive and execute orders or directions from the District.

31. INSPECTIONS

A. The District's representatives shall be allowed access to all parts of the work at all times wherever it is in preparation or progress and shall be furnished every reasonable facility for ascertaining whether or not the work as performed is in accordance with the requirements and intent of the Contract Documents.

B. If any work is covered up without the approval of the Engineer or Assistant Superintendent for Operations, it shall be uncovered for examination, and after examination the Contractor shall perform all rework involved in correcting defective work and/or in restoring the same to the condition called for by the Contract Documents. In such case, the cost of uncovering the work and of all rework involved shall be borne by the Contractor.

C. The District shall have the right at any and all times to re-examine any part or parts of the work previously passed upon inspection. If at any time the District desires to re-examine a part of the work previously passed upon inspection and thereafter covered up, the District may order the same to be uncovered for re-examination. Such order shall be issued in writing over the signature of an authorized representative of the District, and shall be strictly observed and complied with by the Contractor and all subcontractors involved.

After re-examination, the Contractor shall perform all rework involved in correcting defective work and/or in restoring the same to the condition called for by the Contract Documents. If the work thus exposed and re-examined complies in all respects with the requirements of the Contract Documents, the order to uncover the same shall be deemed to be an order for an addition to or change in the work subject to the provisions of Paragraph 16 of this section, General Conditions. If such work does not comply in all respects with the requirements of the Contract Documents, the cost of uncovering the same and of all rework involved shall be borne by the Contractor.

D. Within TEN (10) days after notice of completion, the District shall inspect the work and deliver to the Contractor a written statement of defects, if any, to be corrected prior to acceptance of the work. The Contractor shall correct such defects immediately.

32. REMOVAL OF EQUIPMENT, ETC.

The Contractor and subcontractor shall clear the site and surrounding areas of their equipment, apparatus, appliances, tools, unused material, etc., as rapidly as such items cease to be needed for the production of the work.

33. SEPARATE CONTRACTS

The District shall have the right to let separate contracts for other work to be performed at or adjacent to the site of the Contractor's operations, in which event the Contractor shall cooperate in all reasonable ways to facilitate the operations of other contractors and shall avoid unnecessary interference therewith. Also, the District reserves the right to perform work with its own crews at or adjacent to the site of the Contractor's operations and receive full cooperation.

34. INTENT OF CONTRACT

The Contract Documents shall be considered as a whole, and whatever is specified in any one of the documents shall have the same effect as if specified in all. Minor details of both labor and material that are necessary to complete each branch of the work shall be provided by the Contractor whether or not specifically mentioned in the specifications or on the drawings. Unless otherwise specified in the Contract Documents, it is the intent and meaning of the Contract that the Contractor shall take the site in the condition existing at the time of bidding for the work and provide and pay for all labor, materials, equipment, apparatus, appliances, tools, transportation, and other facilities and services necessary to complete the work to the fullest extent inferable from the Contract Documents. It shall be conclusively presumed that all conditions to be encountered in executing the work were known to and accepted by the Contractor at the time of bidding for the accepted work, except conditions concealed and not discoverable from information reasonably available to the Contractor.

35. INCONSISTENCIES

Inconsistencies, if any, shall be resolved as follows:

- A. The specifications and drawings control over Code requirements where the requirements of the former exceed the latter.
- B. The specifications control over the drawings.
- C. The Detailed Specifications control over the General Conditions of the Contract and the Special Conditions of the Contract.
- D. The Special Conditions of the Contract control over the General Conditions of the Contract.
- E. Between different drawings depicting the same work, that which is drawn to the largest scale shall control.
- F. Schedules appearing in the specifications or on the drawings control over notes on the drawings.

36. TIME LIMIT/LIQUIDATED DAMAGES

The Contractor shall commence the work covered by this contract after receiving the Notice To Proceed and shall complete the same as shown in the INSTRUCTIONS TO BIDDERS, Item 2. Contractor agrees if he has not completed the work by the required date, liquidated damages at the rate of \$500.00 per calendar day shall be assessed to the Contractor by the Owner until the work has been satisfactorily completed and accepted by the Owner. These time limits prevail unless superseded by the Proposal Form.

It is the intent of this bid proposal that the Contractor shall base the bid on a schedule of work that does not require the payment of overtime wages to complete the project within the time limit stated in the above paragraph.

37. FINAL WORK

Contractor shall return to job within FIFTEEN (15) DAYS, but not less than FIVE (5) DAYS, after final inspection, for the purpose of checking the installations for proper operations. Final payment shall not be paid until same has been completed to the satisfaction of the School District. Notify the District's inspector of the work upon completion.

**38. SEQUENCE OF WORK - WORK PROGRESSION OR SCHEDULE
GENERAL CONSTRUCTION CONTRACTS OVER \$50,000**

The Contractor, immediately after being awarded the Contract, shall prepare and submit for approval an estimated progress schedule for the work. The progress schedule shall be related to the entire project to the extent required by the Contract Documents. This schedule shall indicate the dates for the starting and completion of the various stages of the construction and shall be revised as required by the conditions of the work, subject to the District's approval.

**39. DRAWINGS AND SPECIFICATIONS AT THE SITE
GENERAL CONSTRUCTION CONTRACTS OVER \$50,000**

The Contractor shall maintain at the site two copies of all Drawings, Specifications, Addenda, approved Shop Drawings, Change Orders, and other Modifications, in good order and marked to record all changes made during construction. One shall be principally used by the Asbestos Abatement Contractor and the other shall be available to the District and the Industrial Hygienist Technician. Both copies shall be available to the Owner's Project Representative and authorized visitors. The Drawings, marked to record all changes made during construction, shall be delivered to the Owner upon completion of the work.

40. LONG DISTANCE PHONE CALLS

The Contractor shall submit a toll-free telephone number or authorization for the District to call collect with respect to the contract awarded if Contractor is located outside the local calling area for North Clackamas School District #12.

41. FEDERAL, STATE, AND LOCAL STATUTES OR REGULATIONS

All structures, contract work, materials and/or equipment shall conform to applicable requirements of Federal, State or Local Statutes or Regulations. This includes, but is not limited to OSHA, fire regulations, noise abatement requirements, and DEQ requirements. All electrical equipment shall bear a UL or other approved label, and all rules pertaining to hazardous material shall be adhered to.

42. M.S.D.S. HAZARDARDOUS MATERIALS COMMUNICATION

Contractor shall comply with all applicable federal and local regulations regarding hazardous materials handling, storage and disposal procedures. Any products used by contractor that are brought on to the site for construction purposes must be labeled in conformance with Federal and OSHA requirements, and with OAR Chapter 437, Division 155. M.S.D.S. (Material Safety Data Sheet) MUST be supplied on products, as used. Hazardous Materials shall be accompanied with appropriate Material Safety Data Sheet (MSDS) information. MSDS's shall be submitted to the Owner in accordance with the specifications. Contractor shall bear all costs associated with handling or clean-up of spills, releases, or environmental concern created from hazardous materials brought, stored, or used on-site. The Contractor is encouraged to minimize hazardous waste materials requiring special disposal. No dumping of hazardous materials in storm drainage or sanitary sewers is permitted without proper permits.

43. ANTITRUST CLAIMS

The vendor hereby assigns to the North Clackamas School District fully, finally, and in their entirety, any and all federal and or state antitrust claims which the vendor now has or may hereafter acquire as a result of or in connection with any and all goods and services in the contract. Further, the vendor shall cause similar wording in favor of the District to be made a part of any and all contracts entered into with subcontractors or suppliers as a result of the primary contract. Claims shall include price-fixing, monopolization, and any other violation of state or federal antitrust law.

44. BUILDERS BOARD

Every contractor/sub-contractor engaged in any construction activity involving improvements to real estate must be registered with the Oregon State Construction Contractors Board. Only "General Contractor - All Structures" or "Specialty Contractor - All Structures" classifications are allowed on District public works.

END OF GENERAL CONDITIONS

0101-01 WORK UNDER THIS CONTRACT

The work under this contract consists of asbestos abatement and related procedures identified by the owner. Contractor shall furnish as part of this contract all insurance required by the Owner and all materials, labor, tools and equipment required to complete the work according to the plans and specifications.

- a. Removal of all asbestos containing materials in accordance with the description of the project outlined on the drawings and these specifications and all Federal, State and Local EPA, OSHA, DEQ and AHERA regulations
- b. The Contract Sum shall not be affected by changes due to increases in equipment, transportation, labor or material costs, disposal costs and fees, or other similar events.

0102-01 VISIT THE SITE

- a. Make on-site visit and become familiar with the existing conditions and installation affecting the work. No additional allowance shall be granted because of lack of knowledge of such conditions. Verify all measurements at the facility. For visitation appointment, contact the Project Manager (24) twenty-four hours prior to desired visitation.
- b. Obvious omissions or differences from drawings or specifications, shall be called to the Owner's attention at least TEN (10) DAYS prior to the bid date. Failure to do so shall be construed as the willingness of the Contractor to supply all necessary material and labor required for the proper completion of the work in a manner approved by the Owner.
- c. The original mechanical/electrical drawings drawn for the site are available for reviewing at the Facilities Operations Capital Projects Department.

0103-01 GUARANTEE AND WARRANTY

- a. A date of substantial completion will be established by mutual consent and agreed to, in writing. Said date thus establishes the beginning of all warranty dates and other requirements.
- b. Prior to final payment, the Contractor shall furnish a written and signed guarantee and warranty for a minimum period of ONE (1) YEAR from date of formal acceptance on all labor, material, components and assemblies. If additional time is extended from any source on any labor, material, component or assembly or as prescribed by law or elsewhere in the bid documents, said extension shall also be provided to the District. If any of the work is found to be defective, the Contractor shall promptly correct, repair or replace without additional expense to the Owner, defective materials, supplies, tools or equipment as a result of defective workmanship or materials. The contractor shall do such repairs or replacement within 48 hours of notification.

0104-01 PERMITS & FEES

- a. After execution of the contract and at least ten (10) days prior to starting any work, the Contractor shall obtain and pay for any and all permits, fees, and licenses required by local, county or state authorities and necessary to execute and complete the work of each project. Contractor shall notify the following agency prior to beginning work.

Oregon Department of Environmental Quality (DEQ)
N.W. Regional Office
P.O. Box 1760
Portland, Oregon 97207
503.229.5263 or 503.229.5085

0105-01 WORK LAYOUT AND COORDINATION

- a. Field Measurements: Verify existing conditions, and new work measurements at the job site prior to beginning the work.

0106-01 CUTTING AND PATCHING

- a. Do cutting of building or attached construction necessary for the completion of work. Patch cuts to match existing construction. Refinish surfaces to match adjacent finish. Where patch is major, refinish entire surface where damage occurs "border to border".

0107-01 PROTECTION

- a. Protect existing surfaces, equipment and materials against damage or loss.
- b. Protect areas immediately adjacent to where work is under contract. Be responsible for damage that may be caused by such work to adjacent areas, equipment or structures.

0140-01 GENERAL CLEANING AND CUSTODIAL SERVICES

- a. Housekeeping requirements and recommendations of Oregon Safety Code "Basic Industrial Safety", shall be followed.
- b. Housekeeping standards of the Associated General Contractors of America's "Manual of Accident Prevention" shall be followed.
- c. Remove debris as work progresses on a daily basis. Maintain the premises in a neat and clean condition. Clean up shall include all areas soiled as a result of the work. Contractor shall pay for required waste containers. Contractor may not use Owner's containers except as approved by the Assistant Superintendent for Operations.

0140-02 CLEANING WORK FOR COMPLETION - CONTRACT AREA SHALL BE CLEANED PRIOR TO FINAL INSPECTION

- a. HEPA vacuum all interior surfaces except glass. Vacuum duct interiors from grille or register to first obstruction in duct. Vacuum utility trenches and mechanical lofts.
- b. Clean heating and cooling ducts, blowers, fixtures, equipment, piping and grilles. Replace disposable air filters.
- c. Wash interior and exterior glass and mirrors.
- d. Wash hardware, plumbing fixtures, plastic laminate surfaces and painted woodwork, remove labels.
- e. Remove stains, paint, spots, marks, tarnish, and foreign matter to the surface on which it occurs; normal scuff marks made by footwear on VA tile shall not be required to be removed.
- f. Hose down exterior slabs and paving soiled as a result of the work.

0150-01 REQUIRED DOCUMENTS-PROJECT CLOSEOUT

- a. Without relieving Contractor from stipulated requirements noted elsewhere in Contract Documents, Contractor shall deliver to Owner below listed required documents accompanied by a signed letter of transmittal.
- b. Guarantees to be executed in writing and in favor of the Owner.
- c. Verify additional requirements for type and quantity of required documents with other portions of Contract Documents.

- d. List of required documents below: Also see Division H, Specifications, 02 82 13 Asbestos Abatement, Section 1.04 Submittals and Notices.
1. Job-site Daily Log
 2. Copies of Certificates for all personnel who worked on the job.
 3. Copies of HEPA filtered equipment maintenance logs.
 4. Copies of signed disposal documents.
 5. Manufacturer's catalog sheets, brochures, diagrams, schedules and performance charts on manufactured products.

0150-02 ADDITIONAL DOCUMENTS

- a. Other guarantees and documents which may be required or which are normally offered by equipment and furnishings manufacturers shall be furnished to the Owner.
- b. Refer to General Conditions, Item 39 of these specifications.

0150-03 DOCUMENT SUBMITTAL PROCEDURES

- a. All required documents are to be in the office of the Owner before final payment is issued.
- b. Provide three sets of all documents.
- c. Form for submittal shall be this:
1. Bind all documents, except record drawings and specifications, in a new loose leaf binder. Deliver record drawings in closed drawing storage tubes.
 2. Index each binder by providing index page indicating every classification of items and each item within classification. Provide tab at each classification.
 3. Provide transparent protective covers for all guarantees, bonds and certificates.

0160-01 SUBSTITUTIONS (OR EQUAL)

The use of brand names in specifying materials is for purposes of description and fixing quality only.

The materials, products, and equipment described in the Bidding Documents established a standard of required function, dimension, appearance, and quality to be met by any proposed substitution. No substitution will be considered unless written request for approval has been submitted by the bidder and has been received by the Assistant Superintendent for Operations no later than 3:00 P.M., TEN (10) CALENDAR DAYS prior to date of bid opening. Each such request shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitute including drawings, cuts, performance and test data, and any other information necessary for an evaluation. All information will be provided at bidders' sole expense.

A statement setting forth any changes in other materials, equipment, or work that incorporation of the substitute would require shall be included. The burden of proof of the merit of the proposed substitute is upon the proposer. Use of the C.S.I. format is recommended.

Approval will be by written Addenda.

The Assistant Superintendent for Operations' decision of approval or disapproval of a proposed substitution shall be final.

0160-02 ALTERNATIVE PROPOSALS

Contractors, subcontractors, or material suppliers may submit alternative proposals in whole or in part, for use of substitute materials, processes, and installations which are proposed to satisfy the scope of these Specifications and Drawings and were not pre-approved under the process in Section 0160-01, Substitutions. Verify form of submittal with The Assistant Superintendent for Operations before submitting and carefully define the exact limits of the proposal. Alternative Proposals shall be submitted in a sealed envelope identified as follows:

NORTH CLACKAMAS SCHOOL DISTRICT NO. 12
Attention: Su Jeremiah, Purchasing Department
6566 SE Lake Road, Milwaukie, Oregon 97222
ALTERNATIVE PROPOSAL FOR
(Bid Number, Name of Item and Material)

Alternative proposals are to be submitted in the same manner and following the same procedure as a bid. See INSTRUCTIONS TO BIDDERS, Item 11.

Alternative proposals will be opened and examined at the bid opening after the opening of the regular bid proposals. At District's option, and with the prime Contractors' approval if applicable, the Alternative proposal may be accepted if the owner, in its sole discretion, determines the Alternative proposal to be responsive to the Invitation to Bid as within the scope and intent of the Specifications and Drawings. Inclusion into a general contract will be by change order, including proper price adjustments. If the alternative is the primary contract, a change order does not apply.

END OF GENERAL REQUIREMENTS

DIVISION H – SPECIFICATIONS

ASBESTOS ABATEMENT OF SIX SCHOOLS

Prepared By:



Engineering +
Environmental

4412 SW Corbett Avenue
Portland, Oregon 97239

Environmental Consultant: Steve Dilling, Project Manager
Phone: 503.248.1939 Direct: 503.417.7576 Fax: 503.248.0223
Cell: 503.209.1503 E-mail: steve_dilling@pbsenv.com

BID PACKAGE #1

Alder Creek Middle School

BID PACKAGE #2

Riverside Elementary
Concord Elementary

BID PACKAGE #3

New Urban / Sojourner
Oak Grove Elementary
View Acres Elementary

Section 02 82 13 Asbestos Abatement.....1-23

- 1.01 Scope
- 1.02 Definitions
- 1.03 Documents Incorporated by Reference
- 1.04 Submittals and Notices
- 1.05 Building Protection
- 1.06 Personnel Protection
- 1.07 Safety
- 1.08 Liability
- 1.09 Delivery
- 1.10 Storage
- 1.11 Protection
- 1.12 Subcontractors
- 2.01 Materials
- 2.02 Tools and Equipment
- 3.01 Full Isolation Work Area Preparation
- 3.02 Non-isolated Work Area Preparation
- 3.03 Removal of Asbestos containing Materials in Full Isolation Work Areas
- 3.04 Removal of Asbestos containing Materials in Non-Isolated Work Areas
- 3.05 Cleanup in Full Isolation Work Areas
- 3.06 Cleanup in Non-isolated Work Areas
- 3.07 Disposal

Section 02 82 13.11 Asbestos Air Monitoring Requirements.....1-4

- 1.01 Air Monitoring by Contractor
- 1.02 Air Monitoring by Owner
- 1.03 Quality Assurance

DRAWINGS

- C1 Cover
- HM1.0 View Acres Elementary School Abatement Plan
- HM2.0 Alder Creek Middle School Abatement Plan
- HM3.0 Riverside Elementary School Abatement Plan
- HM4.0 Concord Elementary School Abatement Plan
- HM5.0 New Urban H.S / Sojourner Elementary School Abatement Plan
- HM6.0 Oak Grove Elementary School Abatement Plan

SECTION 02 82 00 ASBESTOS REMEDIATION
02 82 13 - ASBESTOS ABATEMENT

PART 1 - GENERAL

1.01 SCOPE

- A. This section covers the removal, patching, encapsulation, or enclosure of materials that contain or are suspected to contain asbestos.
- B. Contractor shall provide all labor, materials, equipment, services, and insurance required to complete asbestos abatement procedures as indicated in these Specifications.

1.02 DEFINITIONS

- A. Abatement: Procedures to control fiber release from asbestos-containing building materials. Includes encapsulation, enclosure, removal, repair and related activities.
 - B. Aggressive Sampling: A method of air sampling that assures that the asbestos fibers remain airborne during the sampling time. All surfaces inside the work area will be agitated by the liberal use of compressed air. Fans will then be placed so as to keep all suspended fibers airborne, and run throughout the sampling period.
 - C. AHERA: Asbestos Hazard Emergency Response Act, 40 CFR Part 763.
 - D. Air Lock: A system for permitting ingress or egress without permitting air movement between a contaminated area and an uncontaminated area, typically consisting of two curtained doorways at least 3 feet apart.
 - E. Air Monitoring: The process of measuring the asbestos fiber content of a specific volume of air in a stated period of time.
 - F. Amended Water: Water containing a surfactant additive.
 - G. Asbestos-containing Material (ACM): Any material containing more than one percent asbestos as defined under NESHAPS CFR 40, Part 61, OAR Chapter 340, Division 248, OR-OSHA 437, 1926.1101, and OSHA 29 CFR Part 1926.1101.
 - H. Authorized Visitor: The Owner or designated representative, or a representative of any regulatory or other agency having jurisdiction over the project, and having required training, medical, fit test, etc.
 - I. Certified Industrial Hygienist (CIH): An industrial hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene.
 - J. Class I Asbestos Work: Activities involving the removal of TSI and surfacing ACM and PACM.
 - K. Class II Asbestos Work: Activities involving the removal of ACM, which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and mastics.
 - L. Clean Room: An uncontaminated area or room that is part of the worker decontamination enclosure system, with provisions for storage of workers' street clothes and clean protective equipment.
-

- M. Critical Barrier: Solid barrier constructed from minimum of 2 inch by 4 inch studs, 16 inch o.c.; half-inch plywood or drywall sealed airtight and covered on both sides (where applicable) with two layers of 6-mil plastic.
 - N. Curtained Doorway: A device to allow ingress or egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing three overlapping sheets of plastic over an existing or temporarily framed doorway, securing each along the top of the doorway in a pleated fashion and securing one vertical side of each sheet on alternating sides of consecutive sheets. Two curtained doorways spaced a minimum of 3-feet apart to form an air lock.
 - O. Disposal: Procedures necessary to transport and deposit the asbestos-contaminated material in an approved waste disposal site in compliance with EPA and other applicable regulations.
 - P. Enclosure: Procedures necessary to completely seal all asbestos-containing material behind airtight, impermeable, permanent barriers, including PVC jackets.
 - Q. Encapsulant (Sealant): A liquid material which can be applied to asbestos-containing material and which controls the possible release of asbestos fibers from the material either by creating a membrane over the surface (bridging encapsulant), or by penetrating into the material and binding its components together (penetrating encapsulant).
 - R. Other Environmental Consultant: Environmental consultant specializing in asbestos abatement--PBS Engineering + Environmental, 4412 SW Corbett Avenue, Portland, Oregon, 97239, 503.248.1939--or any subcontractor designated by PBS.
 - S. Equipment Room: A contaminated area or room, which is part of the worker decontamination enclosure system, with provisions for storage of contaminated clothing and equipment.
 - T. Fitting: With regard to pipe insulation, a fitting is any elbow, offset, reducer, tee, etc.
 - U. Fixed Object: Fixtures which are attached to the building or are too heavy or bulky to remove from the work area.
 - V. Glove Bag: A manufactured device consisting of a transparent plastic bag with inward projecting sleeves, an internal tool pouch, provisions for fastening and sealing at the top and sides, and a receptacle in the bottom to hold asbestos waste. The glove bag is installed so as to surround the material to be removed and contain all fibers released during the process. Glove bags are used to remove insulation from small sections of pipe and fittings.
 - W. HEPA Filter: a High Efficiency Particulate Air (absolute) filter capable of trapping and retaining 99.97 percent of asbestos fibers greater than 0.3 microns in length.
 - X. HEPA Vacuum Equipment: High Efficiency Particulate Air (absolute) filtered vacuuming equipment with a filter system capable of collecting and retaining asbestos fibers. Filters of 99.97 percent efficiency for retaining fibers of 0.3 microns in length or larger shall be installed for filtering discharge air.
 - Y. Independent Testing Laboratory: A laboratory financially independent from and hired by the Owner or Contractor, which is either AIHA-accredited for asbestos with demonstrated proficiency via the AIHA PAT program, or has analysts proficient in the AIHA AAR program for air sample analysis.
 - Z. Industrial Hygienist: An employee of the Independent Testing Laboratory who is experienced and trained in asbestos sampling and analysis as specified.
-

- AA. Isolated Work Area: A totally contained area of the facility where abatement activities are performed.
 - BB. Movable Object: Furnishings which are not attached to the building structure and can be removed from the work area.
 - CC. Negative-air Glove Bag: A manufactured device consisting of a transparent plastic bag with inward projecting sleeves, an internal tool pouch, provisions for fastening and sealing it at the top and sides, and a receptacle in the bottom to hold asbestos waste. The glove bag is installed so as to surround the material to be removed and contain all fibers released through the process, with provisions for allowing continuous airflow through the bag while maintaining negative pressure inside.
 - DD. Owner: Representatives designated by the Owner, or designated employees of the Owner.
 - EE. PACM: "Presumed asbestos-containing materials".
 - FF. Pressure Differential Fan System: An air-purifying fan system located within or outside the isolated work area, which draws air out of the work area through a HEPA filter, thus keeping the static air pressure in the work area lower than in adjacent areas, and preventing escape of contaminated air from work area to adjacent areas.
 - GG. Public Area: Any area outside the isolated work area. When work area isolation measures are removed, the work area becomes a public area.
 - HH. Removal: All operations where ACM and/or PACM is taken out or stripped from structures or substrates, and includes demolition activities.
 - II. Shower Room: A room between the clean room and the equipment room in the worker decontamination enclosure system, which is equipped with hot and cold running water controllable at the faucet and soap and shampoo, and which is suitably arranged for complete showering during decontamination. The shower room must be separated from the clean room and equipment room by air locks.
 - JJ. Special Fitting: With regard to pipe insulation, a special fitting is any valve, union, strainer, thermometer, flange, etc.
 - KK. Surfactant: A chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation or area.
 - LL. Tack Coat: A coat of penetrating encapsulant applied to all surfaces from which asbestos-containing materials have been removed.
 - MM. Thermal System Insulation (TSI): ACM applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain.
 - NN. Vacuum Loader Removal: Wetting and pneumatic conveying of loose material through a vacuum hose to a sealed collection tank specially equipped to prevent escape of fibers.
 - OO. Wet Cleaning: The process of eliminating asbestos from building surfaces and objects by using cloths, mops or other cleaning tools, which have been dampened with water.
 - PP. Worker Decontamination Enclosure System: A showering facility for workers, typically consisting of a clean room, a shower room, and an equipment room. Each of these rooms is separated from the others by air locks. The equipment room is separated from the work area by a curtained doorway. The clean room is separated from the public area by a curtained doorway.
-

- QQ. Worksite Entry Logbook: A logbook kept in the clean room which must be signed by everyone entering or leaving the work area. All pages of the logbook must be the same as the sample page bound into these Specifications.

1.03 DOCUMENTS INCORPORATED BY REFERENCE

- A. The current issue of each document shall govern. Where conflict among requirements or with these Specifications exists, the most stringent requirements shall apply.
1. U.S. Environmental Protection Agency National Emissions Standards for Hazardous Air Pollutants (NESHAPS). (Code of Federal Regulations Title 40, Part 61, Subparts A and B.)
 2. U.S. Environmental Protection Agency Office of Toxic Substances Guidance Document, "Guidance for Controlling Friable Asbestos-Containing Materials in Buildings." EPA Report Number 560/5-85-024 ("Purple Book").
 3. U.S. Department of Labor Occupational Safety and Health Administration (OSHA):
 - a. Title 29 Code of Federal Regulations Section 1910.1001--General Industry Standard For Asbestos.
 - b. Title 29 Code of Federal Regulations Section 1910.134--General Industry Standard For Respiratory Protection.
 - c. Title 29 Code of Federal Regulations Section 1910 *et al.*--Occupational Exposure to Asbestos; Final Rule.
 - d. Title 29 Code of Federal Regulations 1926.1101--Construction Standard for Asbestos.
 - e. Title 29 Code of Federal Regulations Section 1910.2--Access to Employee Exposure and Medical Records.
 - f. Title 29 Code of Federal Regulations Section 1910.1200--Hazard Communication.
 4. National Institute for Occupational Safety and Health (NIOSH), 30 CFR, Part II, Respirators.
 5. American National Standards Institute (ANSI) NY; ANSI Standard Z 88.2-1980 "American National Standards Practice for Respiratory Protection", latest edition.
 6. Oregon Administrative Rules Chapter 340, Division 248, Department of Environmental Quality; Chapter 340, Division 33, Licensing and Certification Requirements.
 7. Oregon Administrative Rules Chapter 437, Divisions 2 and 3.
 8. Oregon Revised Statutes (ORS), Chapters 279, Certified Asbestos Contractors and Prevailing Wage; 656, Workers Compensation; and 701, Construction Contractors Board Registration.
 9. Uniform Building Code (U.B.C.), latest edition, regulations as applicable.
-

10. All related electrical work shall be performed in accordance with the National Electrical Code.
11. All local ordinances, regulations, or rules pertaining to asbestos, including its storage, transportation, and disposal.

1.04 SUBMITTALS AND NOTICES

- A. Contractors shall submit three bound, indexed copies of each submittal package as indicated below.
 - B. Contractors shall submit to the Environmental Consultant the following information prior to beginning work on the project.
 1. **CONTRACTOR'S LICENSE.** Submit proof that the Asbestos Abatement Contractor is currently and for the duration of the project licensed in the state of Oregon to perform asbestos abatement, per ORS Chapter 701, and OAR Chapter 340, Division 248.
 2. **ASBESTOS SUPERVISOR.** Submit the name and resume of experience of the assigned on-site foreman. At a minimum, the foreman shall have successfully completed the DEQ Asbestos Supervisor course as approved by the state of Oregon. Other criteria such as references and similar projects will also be reviewed. At the Owner's request, the Contractor shall arrange an oral interview with the assigned on-site foreman. The Owner and the Environmental Consultant reserve the right to reject the foreman from the work at any time during the project. The Contractor shall then assign another on-site foreman for Owner and Environmental Consultant approval as described above. The foreman shall speak English fluently.
 3. **INSURANCE CERTIFICATE.** Submit a copy of the certificate of asbestos-specific liability insurance policy, as specified.
 4. **WORKER CERTIFICATION.** Submit written proof indicating that all employees impacting asbestos-containing materials are Oregon State-certified asbestos workers. Proof shall include a signature from the Contractor's Principal indicating that all employees assigned to this project have completed such a program, and photocopies of certificates.
 5. **RESPIRATOR PROGRAM.** Submit written proof indicating respirator program is in compliance with all parts of OSHA Asbestos Regulations CFR Title 29, Part 1910.134 and 1926.1101, OR-OSHA Chapter 437, 1910.134 and 1926.1101.
 6. **MEDICAL PROGRAM.** Submit written proof medical exam program is in compliance with OSHA Asbestos Regulations CFR Title 29, Section 1926.1101 and OR-OSHA Chapter 437, 1926.1101.
 7. **EMERGENCY PLANS.** Submit a written emergency control and cleanup plan to be followed by the Contractor in the event of an accidental breach in containment, power failure, and accidental disturbance of ACMs in non-isolated areas.
 8. **NOTIFICATION.** Submit copy of written notification to the Department of Environmental Quality (DEQ), of the proposed asbestos work.
-

9. DISPOSAL PLAN. Submit written proof that all required permits and arrangements for transport and disposal of asbestos-containing or contaminated materials, supplies, and the like at a site approved by EPA and other responsible agencies have been obtained.
 10. WORK PLAN. Submit a written "work plan" satisfactory to the Owner describing the schedule for asbestos abatement, decontamination procedures, and plans for construction and location of decontamination enclosure systems, pressure differential exhaust fans, etc. in compliance with these Specifications and applicable regulations, including calculations for determining required number of negative-air filtration units. The plan shall schedule the systematic flow of work throughout the facility per Specifications on a day-by-day basis, outlining room-by-room, or area-by-area procedures and planned alternative control measures. The Contractor shall keep close coordination of his work with the Owner. Include a list of subcontractors and their designated work responsibilities.
 11. AIR MONITORING. Submit information pertaining to the proposed air monitoring program for this project if appropriate. This information shall include the name(s) of the certified industrial hygienist appointed, the name of the on-site industrial hygiene technician working under his supervision, types of equipment, and sampling schedule, sampling procedures, calibration recordkeeping, and testing laboratory proposed.
 12. PRODUCT INFORMATION. Submit complete product information for any materials and products for which the Contractor requests approval for use on this job (other than those specified).
 13. EMERGENCY PHONE NUMBER. Submit a local phone number at which the Contractor or on-site foreman can be reached on a 24-hour basis during the course of the work.
- C. Contractor shall not begin work until submittals are reviewed and accepted by Owner and the Environmental Consultant. Allow a five day review period.
- D. During the work the Contractor shall submit to the Owner on a periodic basis as agreed to by the Owner, Environmental Consultant, and Contractor:
1. Waste shipment and disposal documentation
 2. Air monitoring data
 3. Notification updates
- E. Contractor shall submit to the Environmental Consultant in writing all information required above regarding any new asbestos workers hired by or subcontracted to the Contractor before these new asbestos abatement workers begin work.
- F. Prior to removal of decontamination systems and isolation barriers, the Contractor shall obtain specific written permission from the Environmental Consultant.
- G. CLOSEOUT SUBMITTALS - Prior to making final application for payment the Contractor shall:
1. Complete all work under this contract.
-

2. Submit to the Environmental Consultant all required submittals including all Waste Shipment Records completely filled out and signed.
 3. Submit to the Owner all payroll reports for work on this contract and other information as described elsewhere in the Specifications, if appropriate under the contract.
 4. Submit to the Environmental Consultant "as-abated" drawings along with a signed affidavit stating that all asbestos-containing materials have been removed as indicated on the drawings.
- H. See other sections of these Specifications and EPA, OSHA and other standards referenced therein, for further information and requirements not included above.

1.05 BUILDING PROTECTION

A. Building Security and Protection

1. The Contractor shall post adequate warning signs at all potential entrances to work areas as required by EPA and OSHA.
2. Any damage to existing building, services, and/or equipment shall be remedied by the Contractor at his expense.
3. Contractor shall clean external surfaces of contaminated containers and equipment thoroughly by wet sponging and HEPA vacuum.
4. Contractor shall maintain access and use of existing fire lanes.

1.06 PERSONNEL PERSONAL PROTECTION

A. Training

1. Prior to commencement of work, Contractor shall ensure all workers have been trained as specified.
2. The Contractor shall provide and post, in the clean room(s) and the equipment room(s), the decontamination, respirator, and work procedures to be followed by the workers.
3. For demolition of non-asbestos containing walls and ceilings in areas containing friable asbestos materials, the Contractor has the option to train qualified demolition workers. Such training shall be the sole responsibility of the Contractor and shall consist of a minimum of eight hours, unless applicable regulatory agencies accept a lesser amount of classroom time. Topics shall include background of asbestos, health effects, personnel protection, use of worker decontamination and other topics. Training shall be acceptable to OR-OSHA, Department of Environmental Quality and other applicable agencies.

B. Personnel Personal Protective Equipment for Asbestos Removal

1. Work clothes shall consist of disposable full-body coveralls and head and foot covers ("Tyvek" or approved), boots, or sneakers. Eye, hearing, fall protection, and hard hats should be available as appropriate.
-

2. At a minimum, respiratory protection shall be approved by NIOSH/MSHA (National Institute for Occupational Safety and Health/Mine Safety and Health Administration), United States Department of Labor, and United States Department of Health, Education and Welfare, Centers for Disease Control, and be as listed below. Respiratory protection shall provide workers with a maximum calculated fiber level inside the mask of 0.01 f/cc.
 - a. Glove Bag or Modified Glove Bag: Full-face mask, powered air-purifying respirator with disposable HEPA filter cartridges (magenta/purple color code). Protection factor: 100.
 - b. Demolition of walls and ceilings that may impact friable asbestos-containing material: Half-face mask, negative-pressure respirator with disposable HEPA filter cartridges (magenta/purple color code). Protection factor: 10.
 - c. Pre-abatement work in close proximity to friable asbestos-containing materials: Half-face mask, negative-pressure respirator with disposable HEPA filter cartridges (magenta/purple color code). Protection factor: 10.
 - d. Abatement in Isolated Areas: Full-face mask, powered air-purifying respirator with disposable HEPA filter cartridges (magenta/purple color code). Protection factor: 100.
 - e. HEPA vacuuming and wet cleaning of surfaces: Half-face mask, negative-pressure respirator with disposable HEPA filter cartridges (magenta/purple color code). Protection factor: 10.
 - f. Vinyl asbestos floor tile removal: Half-face mask, negative-pressure respirator with disposable HEPA filter cartridges (magenta/purple color code). Protection factor: 10.
 - g. Handling of double-bagged asbestos-contaminated waste: Half-face mask, negative-pressure respirator with disposable HEPA filter cartridges (magenta/purple color code). Protection factor: 10.
3. Additional respiratory protection shall be as required by CFR 29 1910.134 and 1926.1101, OR-OSHA Chapter 437, 1910.134 and 1926.1101.
4. As part of the Contractor's Respiratory Protection Program, all workers shall be provided with a selection of brands and sizes of respirators to choose from. At a minimum, all workers shall be qualitatively fit-tested at the time of respirator selection per OR-OSHA Worker's Compensation Department Rule 22-069 (4)(e)(5)(i), and semiannually thereafter.
5. Contractor shall supply replacement filter cartridges, as required. Cartridges that have become wet or clogged shall be replaced immediately.

C. Worker Decontamination Enclosure System

1. The Contractor shall construct a personnel decontamination facility immediately outside of the isolated work area consisting of three chambers and two air locks as follows:
-

- a. The equipment room shall consist of an air lock to the shower room, and a curtained doorway to the work area.
 - b. The shower room shall have two air locks, one to the equipment room and one to the clean room. All showers shall have hot and cold water controllable at the taps and shall be installed in this room. The Contractor shall supply and maintain soap, shampoo and towels at all times in the shower area. Shower wastewater shall be filtered to remove all fibers larger than 5 microns or as required by local regulations, before disposal in the municipal sewer system, or shall be collected and disposed of as asbestos-contaminated material. Obtain any permits as required by local municipalities as to water discharge and comply with all regulations. Water filters shall be disposed of as asbestos-contaminated material.
 - c. The clean room shall consist of an air lock to the shower room and a curtained doorway to the adjacent building area. The clean room shall contain a first-aid kit, storage for workers' and visitors' clothing and shoes, a place to sit down, and the Worksite Entry Logbook. Work, respirator and decontamination procedures, regulations and Prevailing Wage Rates shall be conspicuously posted. There shall be a supply of clean protective clothing, respirators and cartridges in the clean room at all times.
2. Contractor shall not begin asbestos abatement work unless this system is functional, in good repair, and has been found acceptable for specification compliance by the Environmental Consultant.
- D. Personnel Protection Procedures in Isolated Work Areas
1. Each worker shall, upon entering the jobsite: remove street clothes in the clean change room, put on and fit-test his respirator, put on clean protective clothing and sign in on the Worksite Entry Logbook before entering the equipment room or the work area.
 2. Workers shall, each time they leave the work area: remove gross contamination from clothing before leaving the work area; proceed to the equipment room and remove and dispose of disposable work clothes; remove and store shoes, boots and other equipment except respirators; still wearing the respirator proceed to the showers; clean the outside of the respirator with soap and water while showering; remove the respirator; thoroughly shampoo and wash themselves; remove filters, dispose of filters in the container provided for the purpose; and wash and rinse the inside of the respirator.
 3. Following showering and drying off, each worker shall proceed directly to the clean change room and dress in clean clothes at the end of each day's work, or before eating, smoking, or drinking. Before reentering the work area from the clean change room, each worker shall put on his respirator with clean filters, dress in clean protective clothing, and sign in on the Worksite Entry Logbook.
 4. Contaminated work footwear and other equipment shall be stored in the equipment room when not in use in the work area. Upon completion of asbestos abatement, dispose of footwear as contaminated waste or clean thoroughly inside and out using soap and water before removing from work area.
-

5. Workers shall not eat, drink or chew gum at the worksite except in the established clean room. Smoking or using other tobacco products is prohibited.
6. Workers shall be fully protected with respirators and protective clothing immediately prior to the first disturbance of asbestos-containing or contaminated material and until final cleanup is completed.

E. Access to Isolated Work Area by Others

1. Except for emergency personnel, the Contractor shall limit access to the work area to authorized visitors.
2. The Contractor shall provide protective clothing, respirators and equipment for all authorized visitors, as specified above.
3. All authorized visitors shall be subject to the personnel personal protection provisions specified above, and shall sign in and out on the Worksite Entry Logbook.

F. Personnel Protection During Work in Non-isolated Work Areas

1. Work clothes per 1.06 B.
2. Respiratory protection per 1.06 B.
3. Worker protection procedures will differ from 1.06 D, in that two layers of coveralls shall be worn after removal of street clothes. Worker decontamination through a Worker Decontamination Enclosure is required. The first layer of coveralls must be removed when exiting the glove bag work area. The worker shall immediately proceed to the Worker Decontamination Unit. The remaining requirements of 1.06 D still apply.
4. Contractor to submit to the Environmental Consultant for approval, an emergency control and cleanup plan to be followed in the event of asbestos contamination during glove bag use. Contractor shall ensure all workers are thoroughly familiar with approved plan.
5. Contractor shall promptly remove all bags as they are used to the bag-holding and decontamination enclosure system.

G. Emergency Precautions

1. The Contractor shall establish emergency and fire exits from the work area. Contractor shall ensure these exits are well marked and remain unobstructed.
2. The Contractor shall be prepared to administer first aid to injured personnel after decontamination. Seriously injured personnel shall be treated immediately or evacuated without delay for decontamination.
3. Contractor shall notify the local fire department of the asbestos abatement project prior to beginning work area preparation.

1.07 SAFETY

With regard to the work of this contract, the safety of the Contractor's employees, the Owner's employees, and the public is the sole responsibility of the Contractor.

1.08 LIABILITY

The Contractor is an independent contractor and not an employee of the Owner or of the Environmental Consultant. The Owner and Environmental Consultant shall have no liability to the Contractor or any third persons for Contractor's failure to faithfully perform and follow the provisions of these Specifications and the requirements of the governing agencies. Notwithstanding the failure of the Owner or the Environmental Consultant to discover a violation by the Contractor of any of the provisions of these Specifications, or to require the Contractor to fully perform and follow any of them, such failure shall not constitute a waiver of any of the requirements of these Specifications which shall remain fully binding upon the Contractor.

1.09 DELIVERY

Contractor shall deliver all materials to the worksite in the original packages, containers or bundles bearing the name of the manufacturer and the brand name.

1.10 STORAGE

Contractor shall store all materials subject to damage off the ground, away from wet or damp surfaces, away from heat sources, and under cover sufficient to prevent damage, contamination or fire.

1.11 PROTECTION

Damaged or deteriorating materials shall not be used and shall be removed from the premises by the Contractor. Materials that become contaminated with asbestos shall be disposed of in accordance with the applicable regulations by the Contractor.

1.12 SUBCONTRACTORS

Any Subcontractors employed by the Contractor shall be bound to all the work and safety standards specified elsewhere in this Specification. Subcontractor's personnel shall be fully trained and supervised by the Contractor during performance of this work.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Plastic Sheet: Plastic sheet shall be flame-retardant polyethylene material sized in lengths and widths to minimize the frequency of joints. The minimum thickness shall be 6-mil.
 - B. Plastic Bags: Plastic bags shall be 6-mil polyethylene printed with warning labels per OSHA and EPA regulations.
 - C. Tape: Tape shall be capable of sealing joints of adjacent sheets of plastic and for attachment of plastic sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under dry and wet conditions, including use of amended water. Minimum of 2-inch wide tape must be used.
 - D. Disposal Containers: Disposal containers shall be suitable to receive and retain any asbestos-containing or contaminated materials until disposal at an approved site. The containers shall be labeled in accordance with OSHA and EPA regulations. Containers must be both air- and watertight, and have hard top, bottom and sides.
-

- E. Warning Labels and Signs: Warning labels and signs shall be posted as required by OR-OSHA, ODOT and DEQ regulations.
- F. Amended Water: Clean potable water containing a surfactant additive. The surfactant additive shall be 50 percent polyoxyethylene ether and 50 percent polyethylene ester, or equivalent, and shall be mixed with water at a concentration of one ounce surfactant to 5 gallons of water, or as recommended by the manufacturer in the case of an equivalent.
- G. Encapsulants (Sealants): Encapsulants shall be of the bridging or penetrating variety and shall be listed as "satisfactory" by the EPA. Encapsulants shall provide a suitable substrate bonding agent for application of new material where appropriate. Penetrating Encapsulant: No. 207 Special Sealer #33775-27A as manufactured by Makus-Cinnatus, Inc.; "Asbestop 30B-2" as manufactured by Asbesco Corp.; "Cable Coating 22-P" as manufactured by American Coatings Corp., or approved. Bridging Encapsulant: Decadex Firecheck, manufacturer's standard color "Magnolia", as manufactured by Pentagon Plastics, Inc.; "Cable Coating 2-B", manufacturer's standard color gray, as manufactured by American Coatings Corp.; or approved.
- H. Rewettable Lagging Cloth: 12-ounce glass fabric lagging cloth saturated with dried lagging adhesive. "Dip-Lag" as manufactured by Claremont Co. or approved.
- I. Enclosure: Protective plastic jacketing systems, framed gypsum board enclosures, suspended ceilings or other materials as specified elsewhere.
- J. Other Materials: Provide all other materials such as lumber, nails and hardware, which may be required to construct and dismantle the decontamination area and the barriers that isolate the work area, and as required to complete the work as specified.

2.02 TOOLS AND EQUIPMENT

- A. Water Sprayer: The water sprayer shall be an airless or other low-pressure sprayer for amended water application.
 - B. Air-Purifying Equipment: Air-purifying equipment shall consist of High-Efficiency Particulate Air (HEPA) filtration systems. No air movement system or air equipment shall discharge asbestos fibers outside the work area. Each unit shall be capable of variable volume from a minimum of 500 CFM to at least 1700 CFM under load and shall have at least two stages of pre-filtration ahead of the HEPA final filter. Each unit shall be equipped with an elapsed time indicator (hour meter), static pressure gauge with low flow alarm, be overload protected, and each unit shall be equipped with heat and smoke sensors which will visually and audibly warn workers and shut unit fan down within 30 seconds. The units shall be: Micro-Trap Portable Air Filtration System manufactured by Asbestos Control Technology, Inc., "HOG 2000" Negative-air Protection System manufactured by Control Resource Systems, or approved.
 - C. Pressure Differential Monitoring Equipment: A combination sensing, alarm and recording device shall be in operation at all times during use of the HEPA air-purifying equipment. The unit shall be a "Neg-A-Master," manufactured by Control Resource Systems, Inc., or an approved.
 - D. Water-Purifying Equipment: Capable of removing all fibers longer than 5 microns or as required by local regulations from water used in abatement work and decontamination showers. Control Resource Systems, Inc. "AQUA-HOG" or approved.
-

- E. Airless Sprayer: An airless sprayer, suitable for application of penetrating encapsulant material, shall be used.
- F. Vacuum Equipment: all vacuum equipment utilized in the work area shall be High-Efficiency Particulate Air (HEPA) equipment, and suitable for wet/dry usage.
- G. Scaffolding: Scaffolding, as required to accomplish the specified work, shall meet all applicable safety regulations. All special scaffolding shall have drawings and calculations stamped and signed by a civil or structural engineer registered in the state of Oregon.
- H. Transportation Equipment: Transportation equipment, as required, shall be suitable for loading, temporary storage, transit, and unloading of contaminated waste without exposure to persons or property. Equipment shall have a hard top, bottom and sides. If equipment is rented, notify rental agency in advance, in writing, of intended use of equipment.
- I. Electrical: Electrical tools, equipment and lighting shall meet all applicable codes and regulations. Ground fault protection as required by OSHA, shall be in effect at all times. Contractor shall take all additional precautions and measures necessary to insure a safe working environment during wet removal.
- J. Glove Bags: Bags shall be clean poly bags, seamless at the bottom, with preprinted asbestos warning labels, 6-mil PVC with attached TYVEK arms and latex gloves. Bags shall be Profo' Bag manufactured by Asbestos Control Technology, Inc., or Asbest'O'Saf/SAC by Control Resource Systems, Inc., or approved.
- K. Remote Filter Housing: Stainless steel housing with pre-filters and HEPA filter sealed to cabinet flanges by Century Equipment "Advance Guard II" or approved equal.
- L. Other Tools and Equipment: Provide other suitable tools for the removal, enclosure, encapsulation, patching, and disposal activities including but not limited to: hand-held scrapers, wire brushes, sponges, and rounded-edge shovels.

PART 3 - EXECUTION

3.01 FULL ISOLATION WORK AREA PREPARATION

- A. Contractor shall perform the following isolation procedures in the order in which they are presented. Any alternative control measures considered for Class I work shall be performed in accordance with 29 CFR 1926.1101.
 - 1. Coordinate all electrical, safety and other service connections, requirements and equipment with the Owner. Use a journeyman electrician at a minimum. It is the Contractor's responsibility to verify operation of systems that will be shut off during abatement. If any system is found to be defective or not operating satisfactorily, the Contractor shall notify the Owner or Environmental Consultant in writing prior to shutoff.
 - 2. Install critical barriers as follows. Seal off all openings, including but not limited to doorways, windows, and other penetrations of the work area, with solid critical barriers, except openings left for HEPA air-purification system, which shall be properly HEPA- filtered. Where doors exist, sealing may be done by closing door, sealing with tape on both sides, then covering both sides with two layers of plastic sheeting.
-

3. Pre-clean movable objects, such as furniture and equipment to be removed (and carpeting), within the proposed work areas using HEPA-filtered vacuum equipment and/or wet cleaning methods as appropriate, and remove such objects from work areas to a temporary location, or consolidate such objects away from removal work and enclose with critical barriers.
 4. Pre-clean fixed objects within the proposed work areas, using HEPA-filtered vacuum equipment and/or wet cleaning methods as appropriate, and enclose with critical barriers. Equipment which must continue operating shall be enclosed and ventilated to avoid damage.
 5. Set up the worker decontamination enclosure system (decon). Once this system is installed and abatement commences, it shall be utilized in the specified manner for the ingress and egress of all personnel and equipment, except in emergency situations. All personnel shall sign the Worksite Entry Logbook each time they pass in or out of the decontamination enclosure.
 6. Install HEPA air-purifying equipment pressure differential fan system so as to ensure lower static pressure in the isolated work area than in surrounding areas, a flow of air through all parts of the isolated work area towards the air-purifying equipment, and minimum air contamination levels at abatement worker breathing zones. Discharge from air-purifying equipment shall be ducted outside the building. Use one or more units of capacity as recommended by the manufacturer for the volume of the isolated work area, but in no case shall airflow be less than six air changes every 60 minutes with a minimum pressure differential of 0.02 inch wg between the work area and the decon clean room.
 7. Cover floor and wall surfaces with plastic sheeting sealed with tape. Cover floors first so that plastic extends at least 12 inch up on walls, then cover walls with plastic sheeting to overlap floor plastic by a minimum of 24 inch, thus overlapping the horizontal floor material by a minimum of 12 inch. Install additional layer of plastic sheeting on floor and walls in similar manner. Contractor may use mechanical fastening techniques, such as tack strips, as necessary to secure wall plastic sheeting. Contractor shall repair any damage resulting from mechanical fasteners.
 8. Maintain emergency and fire exits from the work areas, or establish alternative exits satisfactory to the local building or fire department officials. Ensure that all exits remain unobstructed and well marked.
 9. Adequate portable fire extinguishing equipment shall be maintained within work area as defined by OSHA and/or local fire department officials.
- B. No asbestos abatement work shall occur unless the work area isolation has been found acceptable for Specification compliance by the Environmental Consultant.
- C. Isolated work area enclosure system maintenance. The Contractor shall be responsible for daily documentation of the following:
1. Prior to the first use and at the beginning of each shift during abatement work, containments shall be given a complete visual inspection by the Contractor's shift foreman and industrial hygienist. This shall include inspection of the HEPA air-purification system and associated filters. A smoke tube test by the shift foreman shall then be made of the worker decontamination enclosure system and other critical areas to verify that the isolated area is under negative air pressure. Work shall not begin until all defects have been repaired.
-

2. Periodic inspections shall be made as required during each shift to assure continued proper functioning of the containment and HEPA system.

3.02 NON-ISOLATED WORK AREA PREPARATION

- A. Contractor shall perform the following procedures in the order in which they are presented and describe procedures for glove bag work and other work in non-isolated work areas. Any alternative control measures considered for Class II work shall be performed in accordance with 29 CFR 1926.1101.
 1. Shut down HVAC systems. Coordinate with building users and the Owner prior to shutdown.
 2. Restrict access to work area and post warning signs. Do not perform glove bag work or any abatement work in an occupied area.
 3. Completely preclean entire work area using HEPA vacuum equipment or wet cleaning methods.
 4. Set up the worker decontamination enclosure system. Once this system is installed and abatement commences, it shall be utilized in the specified manner for the ingress and egress of all personnel, except in emergency situations. All personnel shall sign the Worksite Entry Logbook each time they pass in or out of the decontamination enclosure.
 5. At the direction of the Environmental Consultant, install HEPA exhaust fan in work area. Duct fan intake to immediate area of work in such a manner that any fibers released will be drawn away from the worker and into intake duct.
 6. Cover floor and other surfaces below work area with 6-mil plastic sheeting. Seal openings and install curtained doorways and air locks as directed by the Environmental Consultant.
 7. Have emergency cleanup equipment and supplies, including HEPA vacuum, amended water, disposal bags, mop, buckets, towels and sponges, on hand prior to start of abatement work.
- B. No asbestos abatement work shall occur unless the work area has been found acceptable for Specification compliance by the Environmental Consultant or industrial hygiene technician.

3.03 REMOVAL OF ASBESTOS-CONTAINING MATERIALS IN FULL ISOLATION WORK AREAS

- A. Contractor shall isolate work area as specified.
 - B. Contractor shall remove all asbestos-containing pipe insulation, surfacing material and other asbestos-containing materials as defined in the project-specific scope of work.
 1. Contractor shall spray the asbestos material with amended water. A fine spray of this solution shall be applied to prevent fiber disturbance preceding the removal of the asbestos material. The asbestos shall be sufficiently saturated to prevent emission of airborne fibers in excess of specified fiber levels.
-

2. Contractor shall remove asbestos material while damp and pack in sealable plastic bags (6-mil minimum thickness). Move bags to bag load out facility or equipment room in the worker decontamination system. Wash outside surface and place inside a second plastic bag (6-mil minimum thickness) bearing DEQ warning label and name of waste generator and location from which waste was generated.
 3. After completion of stripping work, Contractor shall clean all surfaces from which asbestos has been removed by brushing and/or wet sponging or cleaning by an equivalent method to remove all visible material. During this work the surfaces being cleaned shall be kept wet. Avoid using wire brushes if possible.
 4. Contractor shall collect all water used in the removal and cleaning process and dispose of as contaminated waste or filter to remove all fibers more than five microns in length before disposal in the municipal sewer system, or as required by local regulations. Water filters shall be disposed of as asbestos-contaminated material.
- C. Removal of non-friable materials such as floor tiles shall be accomplished by such manner as to minimize breakage and to maintain non-friability. Do not drop, throw, saw or scrape non-friable materials during removal, handling or disposal. The use of spud bars to remove floor tiles is an acceptable practice.
- D. Contractor shall maintain a safe and uncluttered work area, worker decontamination system, and bag load out facility on a daily basis.

3.04 REMOVAL OF ASBESTOS-CONTAINING MATERIALS IN NON-ISOLATED AREAS

- A. Contractor shall apply spray coat of amended water to material to be removed. Keep material damp during entire removal process.
- B. Glove bag work shall be as follows. All removal using the glove bag method shall be performed strictly according to regulations, manufacturer's printed instructions, and as demonstrated by the manufacturer's representative or as further specified in this section. Workers are not to smoke or wear hand or wrist jewelry while using glove bags.
1. Contractor shall coordinate the shutoff of all sources of heat to objects to be worked on. Do no work on objects above 150 degrees Fahrenheit.
 2. Contractor shall install port for hose of HEPA vacuum to create reduced pressure inside glove bag. Installing of fresh air intake and/or bridging to prevent collapse of bag are acceptable. Reduced pressure shall be maintained throughout entire abatement procedure.
 3. During the removal phase, Contractor shall utilize amended water to reduce potential for airborne fibers.
 4. After completion of insulation removal and cleaning, but prior to removal of glove bag, Contractor shall apply a single "tack" coat of penetrating encapsulant to surface of pipe and any remaining non-asbestos insulation, within the glove bag.
 5. After the pipe has been sealed, but prior to removal of glove bag, Contractor shall thoroughly wash the upper chamber of the glove bag and seal the contents of the bag in the lower chamber.
-

6. Contractor shall seal flap if used and, utilizing a HEPA vacuum, remove all contaminated air in the upper chamber.
 7. Follow procedures set forth in Section 02 82 13.11 in case of a spill or if air analysis indicates a fiber count in excess of limits.
 8. Contractor shall promptly double-bag the glove bag after removal is complete, place into a sealed container and remove to the bag holding enclosure.
- C. Wrap and Cut Method shall be as follows: At intervals determined by the Contractor, glove bag-remove 2 to 3 feet of asbestos-containing pipe insulation as specified. Seal remaining pipe, with asbestos-containing pipe insulation intact, in two separate layers of 6-mil plastic sheeting. Cut pipe wrap sections at ends, taking care to not damage adjacent wrapped or unwrapped insulated sections. Label double-wrapped pipe as specified for disposal. Obtain approval of landfill prior to utilizing this method. Dispose as contaminated waste in accordance with Specifications and approved landfill requirements.
- D. Removal of cement asbestos board and similar material shall be as follows: Material shall be removed one sheet or piece at a time. Material shall be kept continuously wet. Cut or remove fasteners one at a time while running HEPA vacuum at the point where work is being done so as to collect all dislodged particles and fibers.
1. When all fasteners have been removed, carefully remove entire sheet or piece and wrap in 6-mil plastic sheeting while still wet. Do not drop, throw, break, saw or scrape cement asbestos board during removal, handling or disposal.
 2. Label, transport, and dispose of wrapped sheets as specified in the Disposal section.
 3. Clean entire substrate with HEPA vacuum or wet cleaning methods and leave ready for application of replacement material.

3.05 CLEANUP IN FULL ISOLATION WORK AREAS

- A. At the conclusion of removal in the isolated work area, conduct cleanup in the sequence described below. Windows, doors, HVAC vents, etc. shall remain sealed and HEPA-filtered pressure differential fan systems shall remain in service.
1. REMOVE MATERIAL AND EQUIPMENT. Contractor shall remove visible accumulations of material and debris (including filters removed from HVAC equipment and HEPA air-purification equipment). Contractor shall include all sealed containers and equipment used in the work area in the cleanup and remove them from work area, after decontamination of outer surfaces.
 2. FIRST CLEAN. Contractor shall clean all surfaces in the work area and any other contaminated areas with water and/or with HEPA-filtered vacuum equipment.
 3. WAIT 24 HOURS. After the first cleaning of the work area, wait 24 hours to allow for settlement of dust. During this settling period, no entry to the work area shall be allowed.
 4. SECOND CLEAN. Wet-clean or clean with HEPA-filtered vacuum equipment all surfaces in the work area. After completion of the second cleaning operation, perform a complete visual inspection of the work area to ensure that the work area is free of visible debris.
-

5. FINAL VISUAL INSPECTION. Prior to application of post- removal encapsulant, contact the Environmental Consultant for a visual observation of the work area. The work area shall be free of visible debris. Observation by the Consultant does not alleviate the Contractor of responsibility to provide work in compliance with Specifications. Contractor shall contact Environmental Consultant at least 24-hours prior to desired inspection time.
6. REMOVE PLASTIC SHEETING. After visual observation by the Consultant, Contractor shall apply a coat of approved encapsulant to all surfaces in the work area where asbestos has been removed and to disposable plastic sheeting as a post-removal encapsulant. Encapsulant application shall follow all applicable manufacturers' recommendations and shall provide a compatible bonding agent for application of new material.
7. FINAL CLEAN. After the encapsulation is complete, the Contractor shall remove all noncritical plastic and clean all floors, walls, fixtures and other surfaces within the work area with only critical barriers in place using wet methods or HEPA-filtered vacuum equipment. Plastic sheeting over carpets may remain in place.
8. CONTACT ENVIRONMENTAL CONSULTANT. Contact the Environmental Consultant for a visual observation of the work area. The work area shall be free of visible debris. Observation by the Consultant does not alleviate the Contractor of responsibility to provide work in compliance with Specifications. Contractor shall contact Environmental Consultant at least 24-hours prior to desired inspection time. Consultant shall conduct final air monitoring as specified after work area has been allowed sufficient time to dry.
9. CARPETS AND TEARDOWN. When the final observation by the Environmental Consultant and air sampling test results are satisfactory, steam-clean and HEPA-vacuum carpet left in place during abatement. Contractor shall then remove the decontamination systems and remaining barriers.
10. DISPOSAL. Contractor shall properly dispose of all waste materials. All polyethylene material, tape, cleaning material, and contaminated clothing shall be double-bagged, sealed and labeled as described above for asbestos waste material.

3.06 CLEANUP IN NON-ISOLATED WORK AREAS

- A. FIRST CLEAN. Contractor shall remove visible accumulations of asbestos material and debris. Clean all surfaces within the affected work area. Cleaning shall be with amended water and/or HEPA-filtered vacuum equipment. In a large open area, the affected work area shall include the immediate work area and an area that encompasses at least 6 feet in all directions or as defined by the Environmental Consultant. In small work areas, the affected work area shall include the entire room.
 - B. AFFECTED AREA. The affected work area may be further defined in the scope of work by the Environmental Consultant. During the work, high fiber levels as indicated by air monitoring results may increase the area to be cleaned. The increase in affected area due to high fiber levels or other indications of fiber dispersal will be defined by the Owner and Environmental Consultant, and the Contractor shall bear all costs of additional cleaning.
 - C. FINAL VISUAL INSPECTION. After completion of the cleaning operation, the Environmental Consultant shall perform a visual observation of the affected work area to ensure that the affected work area is free of visible dust and debris. Observation by the Consultant does not alleviate the Contractor of responsibility to provide work in compliance with Specifications.
-

Contractor shall contact Environmental Consultant at least 24-hours prior to desired inspection time.

- D. **ENCAPSULANT.** After visual observation by the Environmental Consultant, Contractor shall spray-apply encapsulant to the material substrate, all temporary plastic sheeting and other temporary protective materials using an airless sprayer.
- E. **CLEARANCE SAMPLING.** Post-abatement air sampling shall be at the discretion of the Environmental Consultant and will be determined by the ongoing sample results.
- F. **TEARDOWN.** When the final observation by the Environmental Consultant and air sampling test results (if required) are satisfactory, the temporary plastic sheeting and other temporary protective materials shall be removed by the Contractor.
- G. **DISPOSAL.** Contractor shall properly dispose of all waste materials, all polyethylene material, tape, cleaning material, and contaminated clothing shall be double-bagged, sealed and labeled as described for asbestos waste material.

3.07 DISPOSAL

- A. Contractor shall affix warning labels having waterproof print and permanent adhesive, to the lid and sides of all containers. Warning labels shall be conspicuous and legible, and contain the following words:

**DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD
AVOID BREATHING AIRBORNE ASBESTOS FIBERS**

- B. The Contractor shall determine current waste handling, transportation, and disposal regulations for the work site and for each waste disposal landfill. The Contractor must comply with these regulations and all U.S. Department of Transportation, DEQ and EPA requirements. Double-bagged material in containers shall be delivered to the pre-designated disposal site for burial. Labels and all necessary signs shall be in accordance with DEQ and OSHA standards.
- C. Contractor shall remove decontaminated containers from site as soon as possible. Notify disposal site in advance of delivery of material to assure immediate burial of containers.
- D. If the bags are broken or damaged, or the container is contaminated, the Contractor shall clean and decontaminate the entire container for reuse.
- E. Contractor shall submit three copies of written proof of disposal at approved disposal site to the Environmental Consultant prior to completion of the abatement work specified in this Section. Use copies of the DEQ Waste Shipment Record ASN-4, completely filled out and signed, and accompanied by tickets and/or receipts from disposal site.

END OF SECTION

SECTION 02 82 00 ASBESTOS REMEDIATION

02 82 13.11 - AIR MONITORING REQUIREMENTS

PART 1 - GENERAL

1.01 AIR MONITORING BY CONTRACTOR

- A. An Independent Testing Laboratory shall be retained by the Contractor. All air-monitoring analysis shall be performed by an industrial hygienist. The hygienist must be experienced and trained in asbestos sampling and analysis. At a minimum, documentation of prior asbestos sampling and analysis experience, plus satisfactory completion of the NIOSH 582 course or equivalent formal asbestos education, will be required. The laboratory must meet the requirements specified in Section 02 82 13. Air sample collection may be performed by an industrial hygienist or the Contractor's foreman at the Contractor's option.
 - B. Documentation shall be kept for each filter sample procured as to worker sampled, work area location, date and time taken, volume of air drawn through filter, pump identification number and calibration. Documentation shall indicate in what areas tests were taken and shall clearly indicate the specified maximum allowable fiber levels for each area tested. Report all data on copies of "Asbestos Air Sampling Data Form" bound in these Specifications or similar form. Fill in all information on every form. Submit chain-of-custody records along with all samples.
 - C. The samples shall be collected on 25 mm filters and analyzed within 12 hours using the membrane filter method at 400-500x magnification with phase contrast illumination - NIOSH Analytical Method No. 7400 - for laboratory and field analysis. The analyst shall sign and submit permanent records of all samples analyzed directly to the Environmental Consultant. The Independent Testing Laboratory shall seal the unused portion of all filters in airtight containers so that individual samples can be reanalyzed at a later date, if necessary. The containers shall be clearly labeled with Project Name and Sample Number and shall become property of the Owner at work completion at the Owner's request.
 - D. The Contractor's testing laboratory shall submit sample analysis results to the Environmental Consultant verbally within 18 hours from the time of collection and written within two weeks including chain-of-custody and equipment calibration records.
 - E. Contractor's Sampling During Abatement:
 - 1. Air monitoring shall be performed to provide samples during the period of asbestos abatement in each work area. Begin sampling when asbestos removal commences. Samples are to be taken where Class I or II work is being conducted during each 8-hour work shift until abatement is complete in that work area or until a negative exposure assessment is established per 29 CFR 1926.1101.
 - 2. The Contractor shall determine which worker(s) in each work area is probably experiencing the most severe exposure. This is the "Most Contaminated Worker(s)". Eight-hour TWA and 30-minute excursion samples shall be collected on this worker(s). This worker shall wear a personal sampling pump and the sample shall be drawn from the breathing zone of this worker. All other samples are area samples.
 - 3. The number of air samples collected shall be determined by the Contractor, and may be altered during the project based on work activity and results.
-

- 4. The maximum allowable fiber levels shall be as determined by the Environmental Consultant based on the respiratory protection being utilized.
- F. Contractor shall notify the Department of Environmental Quality of air monitoring clearance results as supplied by Environmental Consultant. Notification shall be within 30 days after monitoring procedures were performed in accordance to OAR 340-32-465.

1.02 AIR MONITORING BY OWNER

- A. The Owner will retain an experienced Industrial Hygienist/Environmental Consultant to collect and analyze asbestos air samples. Documentation of sample results will be forwarded to the Contractor as appropriate to regulatory requirements.
- B. Samples analyzed by phase contrast microscopy will use NIOSH Analytical Method No. 7400. Samples analyzed by transmission electron microscopy will use the AHERA methodology, 40 CFR Part 763, or Yamate Level Two.
- C. Owner's Air Sampling During and After Abatement:
 - 1. Air Sampling Table is to be used as a guide. The Owner's Industrial Hygienist/Environmental Consultant may modify criteria. Modifications to the Maximum Allowable Fiber Count shall be made in writing by the Owner.

Type of Sample	Average Samples per 8-Hour Work Shift	Sample Volume (Liters [L])	Approximate Flow Rate (LPM)	Maximum Allowable Fiber Count (f/cc)
HEPA Fan Exhaust	0 or selected units	400-2000	2 to 10	0.01 f/cc
Outside of Work Area	0-5	400-2000	2 to 10	0.01 f/cc or <pre-abatement
Clearance PCM	5/work area	800-3000	2 to 10	0.01 f/cc
Clearance TEM	5/work area	1200-1800	2 to 10	<70 s/mm ² average

- 2. Air sampling for post-abatement work in isolated work areas will use the aggressive sampling method. Use of aggressive sampling in other areas shall be as directed by the Environmental Consultant. Aggressive sampling shall be conducted to assure that fibers remain airborne during sample collection.
- 3. Samples analyzed by phase contrast microscopy will use NIOSH Analytical Method No. 7400. Samples analyzed by Transmission electron microscopy for project over 160 square feet or 260 linear feet of an asbestos-containing material will use either the AHERA methodology, 40 CFR Part 763, or Yamate Level Two.
- 4. The Owner reserves the right to monitor Contractor's performance via air samples on abatement workers and in the work area in addition to the Contractor's air monitoring.

1.03 QUALITY ASSURANCE

- A. If, at any time during the work, analysis of an air sample taken by the Contractor, Owner, or

Owner's Representative, indicates a fiber count in excess of the allowable maximums specified, the industrial hygienist who analyzed the air sample shall immediately notify:

1. The Contractor's Foreman
2. The Environmental Consultant:
PBS Engineering + Environmental
(or as designated) 503.248.1939
3. Owner's Asbestos Project Manager
4. Other workers, employees, occupants, etc. in affected area(s).

B. Immediately upon being notified of fiber count exceeding the specified maximum allowable levels, the Contractor shall perform the following steps in the order presented, at no additional cost to the Owner:

1. Stop abatement work.
2. Identify source of high fiber counts.
3. Immediately correct any containment breaches, pressure differential changes, or other potential cause, and other concerns with the Environmental Consultant, and the Owner if the Owner is available. The Environmental Consultant will determine the affected area and affected adjacent areas considered to be contaminated. The Environmental Consultant will determine the actions to be taken by the Contractor at no additional cost to the Owner.
 - a. Clean the affected area and the affected adjacent areas. Cleaning shall use wet methods and HEPA vacuuming.
 - b. Resample air until fiber counts are determined to be below one half of the specified maximum levels.
 - c. Secure and repair containment barriers, repair or add equipment.
 - d. Modify work procedures, and make other changes determined to be the possible cause of high fiber counts.
4. Complete every part of the "Fiber Count Above Control Limit Data Form" bound into these Specifications.
5. Carefully resume work under close air monitoring.
6. The Contractor shall be responsible for costs of any testing, cleanup, repair, down time loss, etc. that is a result of the Contractor's negligence, poor maintenance of isolated areas or improper procedures.

PART 2 - PRODUCTS

Not applicable.

PART 3 - EXECUTION

Not applicable.

SECTION 02 82 00 ASBESTOS REMEDIATION

02 82 13.11 - AIR MONITORING REQUIREMENTS

PART 1 - GENERAL

1.01 AIR MONITORING BY CONTRACTOR

- A. An Independent Testing Laboratory shall be retained by the Contractor. All air-monitoring analysis shall be performed by an industrial hygienist. The hygienist must be experienced and trained in asbestos sampling and analysis. At a minimum, documentation of prior asbestos sampling and analysis experience, plus satisfactory completion of the NIOSH 582 course or equivalent formal asbestos education, will be required. The laboratory must meet the requirements specified in Section 02 82 13. Air sample collection may be performed by an industrial hygienist or the Contractor's foreman at the Contractor's option.
 - B. Documentation shall be kept for each filter sample procured as to worker sampled, work area location, date and time taken, volume of air drawn through filter, pump identification number and calibration. Documentation shall indicate in what areas tests were taken and shall clearly indicate the specified maximum allowable fiber levels for each area tested. Report all data on copies of "Asbestos Air Sampling Data Form" bound in these Specifications or similar form. Fill in all information on every form. Submit chain-of-custody records along with all samples.
 - C. The samples shall be collected on 25 mm filters and analyzed within 12 hours using the membrane filter method at 400-500x magnification with phase contrast illumination - NIOSH Analytical Method No. 7400 - for laboratory and field analysis. The analyst shall sign and submit permanent records of all samples analyzed directly to the Environmental Consultant. The Independent Testing Laboratory shall seal the unused portion of all filters in airtight containers so that individual samples can be reanalyzed at a later date, if necessary. The containers shall be clearly labeled with Project Name and Sample Number and shall become property of the Owner at work completion at the Owner's request.
 - D. The Contractor's testing laboratory shall submit sample analysis results to the Environmental Consultant verbally within 18 hours from the time of collection and written within two weeks including chain-of-custody and equipment calibration records.
 - E. Contractor's Sampling During Abatement:
 - 1. Air monitoring shall be performed to provide samples during the period of asbestos abatement in each work area. Begin sampling when asbestos removal commences. Samples are to be taken where Class I or II work is being conducted during each 8-hour work shift until abatement is complete in that work area or until a negative exposure assessment is established per 29 CFR 1926.1101.
 - 2. The Contractor shall determine which worker(s) in each work area is probably experiencing the most severe exposure. This is the "Most Contaminated Worker(s)". Eight-hour TWA and 30-minute excursion samples shall be collected on this worker(s). This worker shall wear a personal sampling pump and the sample shall be drawn from the breathing zone of this worker. All other samples are area samples.
 - 3. The number of air samples collected shall be determined by the Contractor, and may be altered during the project based on work activity and results.
-

4. The maximum allowable fiber levels shall be as determined by the Environmental Consultant based on the respiratory protection being utilized.
- F. Contractor shall notify the Department of Environmental Quality of air monitoring clearance results as supplied by Environmental Consultant. Notification shall be within 30 days after monitoring procedures were performed in accordance to OAR 340-32-465.

1.02 AIR MONITORING BY OWNER

- A. The Owner will retain an experienced Industrial Hygienist/Environmental Consultant to collect and analyze asbestos air samples. Documentation of sample results will be forwarded to the Contractor as appropriate to regulatory requirements.
- B. Samples analyzed by phase contrast microscopy will use NIOSH Analytical Method No. 7400. Samples analyzed by transmission electron microscopy will use the AHERA methodology, 40 CFR Part 763, or Yamate Level Two.
- C. Owner's Air Sampling During and After Abatement:
1. Air Sampling Table is to be used as a guide. The Owner's Industrial Hygienist/Environmental Consultant may modify criteria. Modifications to the Maximum Allowable Fiber Count shall be made in writing by the Owner.

Type of Sample	Average Samples per 8-Hour Work Shift	Sample Volume (Liters [L])	Approximate Flow Rate (LPM)	Maximum Allowable Fiber Count (f/cc)
HEPA Fan Exhaust	0 or selected units	400-2000	2 to 10	0.01 f/cc
Outside of Work Area	0-5	400-2000	2 to 10	0.01 f/cc or <pre-abatement
Clearance PCM	5/work area	800-3000	2 to 10	0.01 f/cc
Clearance TEM	5/work area	1200-1800	2 to 10	<70 s/mm ² average

2. Air sampling for post-abatement work in isolated work areas will use the aggressive sampling method. Use of aggressive sampling in other areas shall be as directed by the Environmental Consultant. Aggressive sampling shall be conducted to assure that fibers remain airborne during sample collection.
3. Samples analyzed by phase contrast microscopy will use NIOSH Analytical Method No. 7400. Samples analyzed by Transmission electron microscopy for project over 160 square feet or 260 linear feet of an asbestos-containing material will use either the AHERA methodology, 40 CFR Part 763, or Yamate Level Two.
4. The Owner reserves the right to monitor Contractor's performance via air samples on abatement workers and in the work area in addition to the Contractor's air monitoring.

1.03 QUALITY ASSURANCE

- A. If, at any time during the work, analysis of an air sample taken by the Contractor, Owner, or

Owner's Representative, indicates a fiber count in excess of the allowable maximums specified, the industrial hygienist who analyzed the air sample shall immediately notify:

1. The Contractor's Foreman
2. The Environmental Consultant:
PBS Engineering + Environmental
(or as designated) 503.248.1939
3. Owner's Asbestos Project Manager
4. Other workers, employees, occupants, etc. in affected area(s).

B. Immediately upon being notified of fiber count exceeding the specified maximum allowable levels, the Contractor shall perform the following steps in the order presented, at no additional cost to the Owner:

1. Stop abatement work.
2. Identify source of high fiber counts.
3. Immediately correct any containment breaches, pressure differential changes, or other potential cause, and other concerns with the Environmental Consultant, and the Owner if the Owner is available. The Environmental Consultant will determine the affected area and affected adjacent areas considered to be contaminated. The Environmental Consultant will determine the actions to be taken by the Contractor at no additional cost to the Owner.
 - a. Clean the affected area and the affected adjacent areas. Cleaning shall use wet methods and HEPA vacuuming.
 - b. Resample air until fiber counts are determined to be below one half of the specified maximum levels.
 - c. Secure and repair containment barriers, repair or add equipment.
 - d. Modify work procedures, and make other changes determined to be the possible cause of high fiber counts.
4. Complete every part of the "Fiber Count Above Control Limit Data Form" bound into these Specifications.
5. Carefully resume work under close air monitoring.
6. The Contractor shall be responsible for costs of any testing, cleanup, repair, down time loss, etc. that is a result of the Contractor's negligence, poor maintenance of isolated areas or improper procedures.

PART 2 - PRODUCTS

Not applicable.

PART 3 - EXECUTION

Not applicable.

END OF SECTION

**ASBESTOS ABATEMENT OF SIX SCHOOLS
LOCATIONS**

ALDER CREEK MIDDLE
13801 SE Webster Road
Milwaukie, OR 97267

VIEW ACRES ELEMENTARY
4828 SE View Acres Road
Milwaukie, OR 97267

RIVERSIDE ELEMENTARY
16303 SE River Road
Milwaukie, OR 97267

OAK GROVE ELEMENTARY
2150 SE Torbank Road
Oak Grove, OR 97222

CONCORD ELEMENTARY
3811 SE Concord Road
Milwaukie, OR 97267

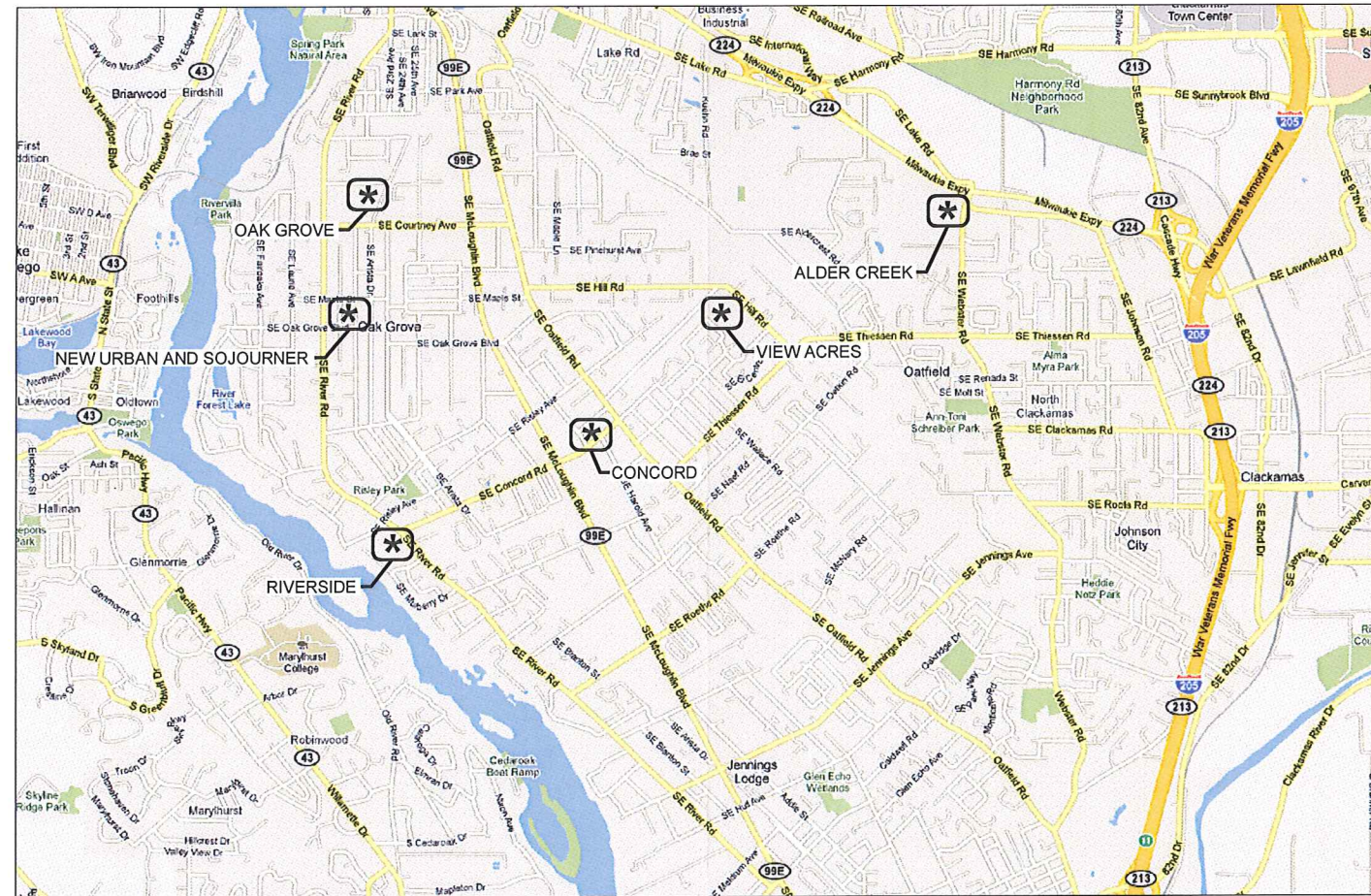
NEW URBAN HS/SOJOURNER ELEM.
14211 SE Johnson Road
Milwaukie, OR 97267

NORTH CLACKAMAS SCHOOL DISTRICT

ASBESTOS ABATEMENT OF SIX SCHOOLS

BID # 990-10-2800

PBS
Engineering +
Environmental
4412 SW Corbett Ave
Portland, OR 97239
503.248.1939 Main
503.248.0223 Fax
www.pbsenv.com



SITES VICINITY MAP
SCALE: NOT TO SCALE

BID PACKAGE NO. 1
ALDER CREEK MIDDLE SCHOOL
13801 SE WEBSTER ROAD, MILWAUKIE, OREGON
DRAWING SHEET NO. HM2.0

BID PACKAGE NO. 2
RIVERSIDE ELEMENTARY SCHOOL
16303 SE RIVER ROAD, MILWAUKIE, OREGON
DRAWING SHEET NO. HM3.0

CONCORD ELEMENTARY SCHOOL
3811 SE CONCORD, MILWAUKIE, OREGON
DRAWING SHEET NO. HM4.0

BID PACKAGE NO. 3
VIEW ACRES ELEMENTARY SCHOOL
4828 SE VIEW ACRES ROAD, MILWAUKIE, OREGON
DRAWING SHEET NO. HM1.0

NEW URBAN HIGH SCHOOL AND
SOJOURNER ELEMENTARY SCHOOL
1901 / 1905 SE OAK GROVE BOULEVARD,
MILWAUKIE, OREGON
DRAWING SHEET NO. HM5.0

OAK GROVE ELEMENTARY SCHOOL
2150 SE TORBANK ROAD, MILWAUKIE, OREGON
DRAWING SHEET NO. HM6.0

NORTH CLACKAMAS SCHOOL DISTRICT
ASBESTOS ABATEMENT OF SIX SCHOOLS
12451 SE FULLER ROAD
MILWAUKIE, OREGON

BID #
990-10-2800

HAZARDOUS
MATERIAL
ABATEMENT PLAN

PROJECT: 21078.017-023 0002
DRAWN: DJ
CHECKED: SD
DATE: MARCH 2010
REVISIONS:

FIGURE:
C1

SHEET 1 OF 7

INDEX TO DRAWINGS

C1	COVER SHEET
HM1.0	VIEW ACRES ELEMENTARY SCHOOL ABATEMENT PLAN
HM2.0	ALDER CREEK MIDDLE SCHOOL ABATEMENT PLAN
HM3.0	RIVERSIDE ELEMENTARY SCHOOL ABATEMENT PLAN
HM4.0	CONCORD ELEMENTARY SCHOOL ABATEMENT PLAN
HM5.0	NEW URBAN H.S. / SOJOURNER ELEM. SCHOOL ABATEMENT PLAN
HM6.0	OAK GROVE ELEMENTARY SCHOOL ABATEMENT PLAN

GENERAL INFORMATION:

PROPERTY OWNER: NORTH CLACKAMAS SCHOOL DISTRICT 12451 SE FULLER ROAD MILWAUKIE, OREGON ATTENTION: GARY KRYSZAK MANAGER OF CAPITAL PROJECTS	ENVIRONMENTAL CONSULTANT: PBS ENGINEERING AND ENVIRONMENTAL 4412 SW CORBETT AVENUE PORTLAND, OR. 97239 ATTENTION: STEVE DILLING PROJECT MANAGER PH: 503.417.7576 CELL: 503.209.1503 E-MAIL: steved@pbsenv.com	CONSTRUCTION MANAGER: J.J. HENRI CO. 19801 SW 72ND AVENUE SUITE 110 TUALATIN, OREGON 97062 ATTENTION: JOANNA EVENSON BOND PROGRAM MANAGER PH: 503.353.6079 EXT. 3 CELL: 503.703.1090 E-MAIL: jevenson@jjhenri.com
--	--	--

GENERAL NOTES

- THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS. ONLY ACCESSIBLE AREAS AND MATERIALS ANTICIPATED TO BE IMPACTED BY THE RENOVATION WERE SURVEYED.
- ABATEMENT CONTRACTOR IS TO FIELD VERIFY ALL MATERIALS, LOCATIONS, CONDITIONS, AND QUANTITIES.
- THIS DRAWING IDENTIFIES ONLY ASBESTOS-CONTAINING MATERIALS THAT REQUIRE ABATEMENT AS PART OF THE 2010 VIEW ACRES OFFICE RENOVATION PROJECT. KNOWN ASBESTOS-CONTAINING MATERIALS EXIST IN THIS FACILITY THAT ARE NOT IN THE SCOPE OF THIS ABATEMENT WORK, OR DEPICTED ON THIS DRAWING.
- QUANTITIES OF ASBESTOS-CONTAINING OR CONTAMINATED MATERIALS IN EXCESS OF THOSE SPECIFIED SHALL NOT BE ABATED AND/OR REMOVED WITHOUT WRITTEN PRIOR CONSENT OF THE DISTRICT AND THE DISTRICTS ENVIRONMENTAL CONSULTANT.

ABATEMENT NOTES

- THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO FIXTURES AND FINISHES AS A RESULT OF ABATEMENT WORK.
- COORDINATE WITH THE DISTRICT AND GENERAL CONTRACTOR, SCHEDULE, ACCESS, ABATEMENT PHASING, LOCK OUT/ TAG OUT PROCEDURES, TEMPORARY FACILITIES, STAGING AREAS, SECURITY AND SAFETY PROTOCOLS.
- ALL ABATED SURFACES SHALL BE VISUALLY INSPECTED BY THE DISTRICT'S REPRESENTATIVES ON SITE PRIOR TO LOCK DOWN AND CLEARANCES.
- COORDINATE TRANSITION LOCATIONS BETWEEN ABATED AND NON-ABATED FLOORS WITH THE GENERAL CONTRACTOR.
- ABATEMENT CONTRACTOR IS TO PERFORM ALL SOFT DEMOLITION ACTIVITIES TO ACCESS AND ABATE ASBESTOS-CONTAINING MATERIALS WHERE NECESSARY.
- ABATEMENT CONTRACTOR IS TO FIELD VERIFY WITH THE GENERAL CONTRACTOR ALL FIXTURES, CASEWORK, CABINETS AND SHELVING THAT REQUIRE REMOVAL TO ACCESS AND ABATE MATERIALS.
- ALL FLOORING AND ASSOCIATED MASTIC ABATEMENT WILL REQUIRE A MINIMUM 1 LAYER 6 MIL PLASTIC TO THE CEILING LINE. PLASTIC MUST BE ATTACHED IN A MANNER THAT DOES NOT DAMAGE THE SURFACE. ANY DAMAGE CAUSED BY INSTALLATION OR REMOVAL OF GUARDS MUST BE REPAIRED AT ABATEMENT CONTRACTOR'S EXPENSE AND ACCEPTED BY OWNER PRIOR TO COMPLETION OF CONTRACT.
- ALL FLOOR TILE REMOVAL SHALL BE NOTIFIED AS A FRIABLE ASBESTOS-ABATEMENT PROJECT. REFERENCE THE ABATEMENT PROJECT SPECIFICATIONS FOR FRIABLE PREPARATION, NEGATIVE PRESSURE ENCLOSURE, DECONTAMINATION PROCEDURES AND ADDITIONAL INFORMATION.
- ABATEMENT CONTRACTOR IS TO "BAG" AND PROTECT SMOKE DETECTORS PRIOR TO PREPARATION FOR ABATEMENT. BAGS ARE TO REMAIN IN PLACE UNTIL TEAR DOWN IS COMPLETE.
- ASBESTOS DEBRIS AND CONTAMINATION EXISTS ABOVE THE LAY-IN CEILING IN THE CORRIDORS. DO NOT LIFT TILES OR DISTURB THIS CEILING SYSTEM IN ANY WAY. CONTACT THE DISTRICTS HAZARDOUS MATERIALS CONSULTANT IF ACCESS IS NEEDED.
- ASBESTOS-CONTAINING JOINT COMPOUND IS APPLIED TO GYPSUM WALLS THROUGHOUT THIS BUILDING. THE GENERAL CONTRACTOR MAY REQUIRE AND LAYOUT ADDITIONAL ABATEMENT OTHER THAN SHOWN. UNIT COSTS WILL APPLY TO THIS ADDITIONAL ABATEMENT WORK.

ASBESTOS SAMPLE SYMBOLS

007 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	21078.017-001	(+)	GYPSUM WALLBOARD/JOINT COMPOUND
002	21078.017-002	(-)	DUCT SEALANT
003	21078.017-003	(-)	WALL AND CEILING PLASTER
004	21078.017-004	(+)	PACKING COMPOUND
005	21078.017-005	(+)	COVEBASE/MASTIC
006	21078.017-006	(+)	COVEBASE/MASTIC
007	21078.017-007	(+)	GYPSUM WALLBOARD/JOINT COMPOUND
008	21078.017-008	(-)	PAINT
009	21078.017-009	(+)	COVEBASE/MASTIC
010	21078.017-010	(+)	GYPSUM WALLBOARD/JOINT COMPOUND
011	21078.017-011	(+)	COVEBASE/MASTIC
012	21078.017-012	(+)	PAINT
013	21078.017-013	(+)	GYPSUM WALLBOARD/JOINT COMPOUND

LEAD SAMPLE SYMBOLS

007 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	21078.017-001	270 ppm	CLASSROOM 5; WALL, CMU BLOCK, WHITE
▲ 1002	21078.017-002	210 ppm	OFFICE CORRIDOR; WALL, CMU BLOCK, WHITE
▲ 1003	21078.017-003	370 ppm	CLASSROOM 5; WALL, SHEETROCK, WHITE
▲ 1004	21078.017-004	670 ppm	OFFICE CORRIDOR; WINDOW FRAME, MALVE

LEAD PAINT NOTES

- REPRESENTATIVE SAMPLES OF DIFFERENT COATINGS ON VARIOUS BUILDING COMPONENTS WERE COLLECTED AND TESTED FOR LEAD CONTENT. UNLESS OTHERWISE INDICATED, ALL PAINTED SURFACES SHOULD BE CONSIDERED LEAD-CONTAINING.

ABATEMENT KEY NOTES

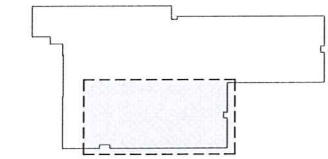
- REMOVE ALL WALLS (INCLUDING STUDS) AND CEILING FROM THE PRINCIPLE'S OFFICES.
- REMOVE ALL GYPSUM WALL WITH ASBESTOS-CONTAINING JOINT COMPOUND. STUDS ARE TO REMAIN IN PLACE.
- REMOVE ALL ASBESTOS AND NON-ASBESTOS DEBRIS ON FLOOR OF ATTIC AND TOPS OF DUCTWORK. HEPA VACUUM, WET WIPE AND LOCK-DOWN ALL SURFACES IN THIS AREA.
- REMOVE CABINET(S) RECYCLE OR DISPOSE OF NON-ASBESTOS CONSTRUCTION WASTE.
- THE REMOVAL OF PHONE, IT, SECURITY, FIRE ALARM AND CLOCK PANELS/BOXES ON THIS WALL TO BE REMOVED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF ABATEMENT.
- REMOVAL OF ONLY 8 TO 12 INCHES OF THE GYPSUM WALLBOARD SYSTEM ABOVE THE DOOR HEADER IS NEEDED. LAYOUT TO BE PERFORMED BY THE GENERAL CONTRACTOR.

LEGEND

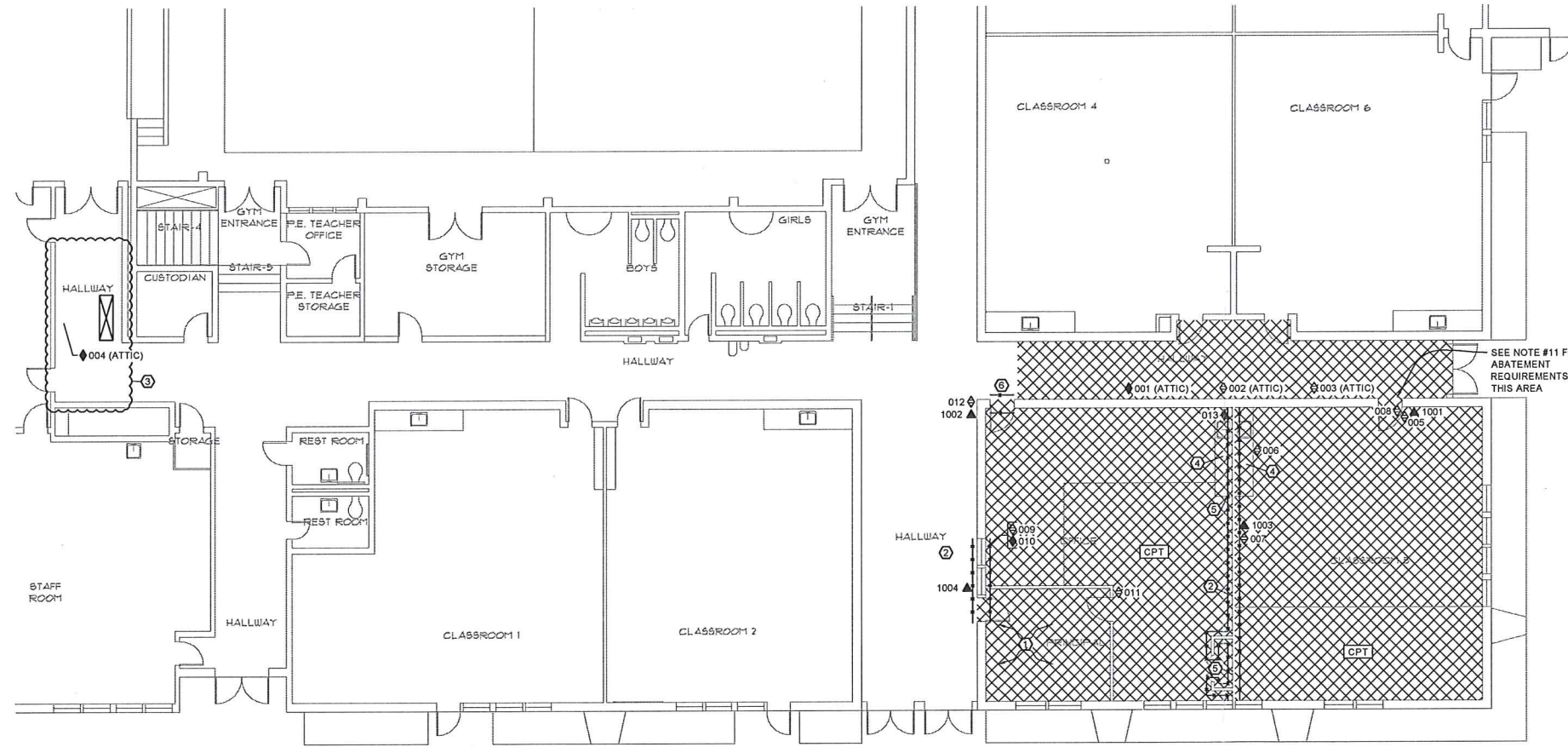
- ASBESTOS-CONTAINING JOINT COMPOUND ON GYPSUM WALLS TO BE REMOVED
- ASBESTOS-CONTAINING FLOOR TILE / MASTIC AND ASSOCIATED CARPET TO BE REMOVED
- ACCESS TO MECHANICAL ATTIC (PULL DOWN LADDER)
- CPT CARPET TO BE REMOVED

ESTIMATED QUANTITIES TO BE REMOVED

- APPROXIMATELY 2,185 SQUARE FEET OF ASBESTOS-CONTAINING FLOOR TILE / MASTIC AND ASSOCIATED CARPET.
- APPROXIMATELY 1,316 SQUARE FEET OF WALLS WITH ASBESTOS-CONTAINING JOINT COMPOUND.
- APPROXIMATELY 1,010 SQUARE FEET OF NON-ASBESTOS WALL AND CEILING DEMOLITION.
- APPROXIMATELY 160 SQUARE FEET OF ASBESTOS DEBRIS.



KEYPLAN



PARTIAL FLOOR PLAN



PBS
Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239
503.248.1939 Main
503.248.0223 Fax
www.pbsenv.com



NORTH CLACKAMAS SCHOOL DISTRICT
ASBESTOS ABATEMENT OF SIX SCHOOLS
VIEW ACRES ELEMENTARY SCHOOL
4828 S.E. VIEW ACRES ROAD, MILWAUKIE, OREGON

BID #
990-10-2800

HAZARDOUS
MATERIAL
ABATEMENT PLAN

PROJECT: 21078.017.0002
DRAWN: DJ
CHECKED: SD
DATE: MARCH 2010

FIGURE:
HM1.0

SHEET 2 OF 7

GENERAL NOTES

- THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS. ONLY ACCESSIBLE AREAS AND MATERIALS ANTICIPATED TO BE IMPACTED BY THE RENOVATION WERE SURVEYED.
- ABATEMENT CONTRACTOR IS TO FIELD VERIFY ALL MATERIALS, LOCATIONS, CONDITIONS, AND QUANTITIES.
- THIS DRAWING IDENTIFIES ONLY ASBESTOS-CONTAINING MATERIALS THAT REQUIRE ABATEMENT AS PART OF THE 2010 ALDER CREEK MIDDLE SCHOOL RENOVATION PROJECT. KNOWN ASBESTOS-CONTAINING MATERIALS EXIST IN THIS FACILITY THAT ARE NOT IN THE SCOPE OF THIS ABATEMENT WORK, OR DEPICTED ON THIS DRAWING.
- QUANTITIES OF ASBESTOS-CONTAINING OR CONTAMINATED MATERIALS IN EXCESS OF THOSE SPECIFIED SHALL NOT BE ABATED AND/OR REMOVED WITHOUT WRITTEN PRIOR CONSENT OF THE DISTRICT AND THE DISTRICTS ENVIRONMENTAL CONSULTANT.

ABATEMENT NOTES

- THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO FIXTURES AND FINISHES AS A RESULT OF ABATEMENT WORK.
- COORDINATE WITH THE DISTRICT AND GENERAL CONTRACTOR, SCHEDULE, ACCESS, ABATEMENT PHASING, LOCK OUT/TAG OUT PROCEDURES, TEMPORARY FACILITIES, STAGING AREAS, SECURITY AND SAFETY PROTOCOLS.
- ALL ABATED SURFACES SHALL BE VISUALLY INSPECTED BY THE DISTRICTS REPRESENTATIVES ON SITE PRIOR TO LOCK DOWN AND CLEARANCES.
- COORDINATE TRANSITION LOCATIONS BETWEEN ABATED AND NON-ABATED FLOORS WITH THE GENERAL CONTRACTOR.
- ABATEMENT CONTRACTOR IS TO PERFORM ALL SOFT DEMOLITION ACTIVITIES TO ACCESS AND ABATE ASBESTOS-CONTAINING MATERIALS WHERE NECESSARY.
- ABATEMENT CONTRACTOR IS TO FIELD VERIFY WITH THE GENERAL CONTRACTOR ALL FIXTURES, CASEWORK, CABINETS AND SHELVING THAT REQUIRE REMOVAL TO ACCESS AND ABATE MATERIALS.
- ALL FLOORING AND ASSOCIATED MASTIC ABATEMENT WILL REQUIRE A MINIMUM 1 LAYER 6 MIL PLASTIC TO THE CEILING LINE. PLASTIC MUST BE ATTACHED IN A MANNER THAT DOES NOT DAMAGE THE SURFACE. ANY DAMAGE CAUSED BY INSTALLATION OR REMOVAL OF GUARDS MUST BE REPAIRED AT ABATEMENT CONTRACTOR'S EXPENSE AND ACCEPTED BY OWNER PRIOR TO COMPLETION OF CONTRACT.
- ALL FLOOR TILE REMOVAL SHALL BE NOTIFIED AS A FRIABLE ASBESTOS-ABATEMENT PROJECT. REFERENCE THE ABATEMENT PROJECT SPECIFICATIONS FOR FRIABLE PREPARATION, NEGATIVE PRESSURE ENCLOSURE, DECONTAMINATION PROCEDURES AND ADDITIONAL INFORMATION.
- ABATEMENT CONTRACTOR IS TO "BAG" AND PROTECT SMOKE DETECTORS PRIOR TO PREPARATION FOR ABATEMENT. BAGS ARE TO REMAIN IN PLACE UNTIL TEAR DOWN IS COMPLETE.

LEAD PAINT NOTES

- REPRESENTATIVE SAMPLES OF DIFFERENT COATINGS ON VARIOUS BUILDING COMPONENTS WERE COLLECTED AND TESTED FOR LEAD CONTENT. UNLESS OTHERWISE INDICATED, ALL PAINTED SURFACES SHOULD BE CONSIDERED LEAD-CONTAINING.

ASBESTOS SAMPLE SYMBOLS

007	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	21078.018-001	(+/+)	VINYL FLOOR TILE/MASTIC (7)
002	21078.018-002	(+/+)	MATERIAL DEBRIS (7)
003	21078.018-003	(+)	MAG PIPE INSULATION (7)
004	21078.018-004	(-)	WALL AND CEILING PLASTER (7)
005	21078.018-005	(-)	ROCK WOOL (7)
006	21078.018-006	(-)	MISCELLANEOUS INSULATION (7)
007	21078.018-007	(-)	COVEBASE/MASTIC (7)
008	21078.018-008	(+/+)	WALL AND CEILING PLASTER (16)
009	21078.018-009	(-)	LAB COUNTER TOP (16)
010	21078.018-010	(-)	LAB SINK (16)
011	21078.018-011	(-)	WINDOW GLAZING COMPOUND (3)
012	21078.018-012	(-)	WINDOW GLAZING COMPOUND (3)
013	21078.018-013	(-)	WINDOW GLAZING COMPOUND (3)
014	21078.018-014	(-)	LAB SINK (16)
015	21078.018-015	(+/+)	MASTIC (14)
016	21078.018-016	(-)	JOINT COMPOUND (14)
017	21078.018-017	(+/+)	GYPSSUM WALLBOARD/JOINT COMPOUND
018	21078.018-018	(+/+)	CAULK (2)
019	21078.018-019	(+/+)	CAULK (2)
020	21078.018-020	(-)	WINDOW GLAZING COMPOUND (3)
021	21078.018-021	(-)	LAY-IN CEILING TILE
022	21078.018-022	(-)	LAY-IN CEILING TILE
023	21078.018-023	(-)	CERAMIC TILE/GROUT
024	21078.018-024	(-)	CERAMIC TILE/GROUT
025	21078.018-025	(-)	GYPSSUM WALLBOARD
026	21078.018-026	(-)	CAULK
027	21078.018-027	(-)	WALL AND CEILING PLASTER
028	21078.018-028	(+/+)	WALL AND CEILING PLASTER
029	21078.018-029	(+/+)	CAULK
030	21078.018-030	(+/+)	COVEBASE/MASTIC
031	21078.018-031	(+)	GLUED-ON CEILING TILES
032	21078.018-032	(+/+)	PIPE LAGGING
033	21078.018-033	(-)	DUCT INSULATION MASTIC
034	21078.018-034	(-)	CAULK
035	21078.018-035	(+/+)	VINYL FLOOR TILE/MASTIC
036	21078.018-036	(+/+)	GYPSSUM WALLBOARD/JOINT COMPOUND
037	21078.018-037	(+)	FLOOR TILE
038	21078.018-038	(+/+)	COVEBASE/MASTIC
039	21078.018-039	(-)	CEILING TILE
040	21078.018-040	(+/+)	WALL AND CEILING PLASTER
041	21078.018-041	(+/+)	STAIR TREAD
042	21078.018-042	(+/+)	FACING

KEY NOTES

- TRANSITE CEMENT ASBESTOS BOARD HAS BEEN IDENTIFIED IN LOCKER ROOM AREAS SCHEDULED TO HAVE NEW LIGHT FIXTURES INSTALLED. IMPACTS REQUIRING ABATEMENT PENETRATIONS OR ANCHORAGE WILL BE LAID OUT BY THE GENERAL CONTRACTOR. UNIT COST PRINCIPAL WILL APPLY TO THIS WORK.
- REMNANT ASBESTOS-CONTAINING FLOOR TILE AND MASTIC AND PIPE INSULATION IS PRESENT IN AND UNDER UNIT VENTILATORS. ABATEMENT CONTRACTOR IS TO BUILD A MINI ENCLOSURE AROUND EACH UNIT VENTILATOR, REMOVE AND SET ASIDE WITHIN THE ROOM ON CARDBOARD. REMOVE ALL FLOOR TILE AND MASTIC, REMOVE ALL ACCESSIBLE PIPE INSULATION AND REPAIR EXPOSED END OF INSULATION WITH WETABLE "DIP LAG" CLOTH. RECEIVE INSTRUCTIONS ON HOW TO REMOVE THE UNIT VENTILATORS FROM THE GENERAL CONTRACTOR.
- REMOVE ALL ACCESSIBLE ASBESTOS-CONTAINING CAULK BETWEEN DOOR FRAMES AND BUILDING.

ESTIMATED QUANTITIES TO BE REMOVED

- APPROXIMATELY 8,310 SQUARE FEET OF ASBESTOS-CONTAINING FLOOR TILE AND MASTIC.
- APPROXIMATELY 270 SQUARE FEET OF REMNANT ASBESTOS-CONTAINING FLOOR TILE AND MASTIC UNDER UNIT VENTILATORS.
- APPROXIMATELY 200 SQUARE FEET OF ASBESTOS-CONTAINING SHEET FLOOR COVERING.
- APPROXIMATELY 15 EACH MUDDER HARD FITTING PIPE INSULATION IN THE GYM ASSOCIATED WITH THE SOUTH CEILING MOUNTED UNIT VENTILATORS.
- APPROXIMATELY 27 UNIT VENTILATORS WITH 20 LINEAR FEET OF ASBESTOS PIPE INSULATION AND REPAIR OF 27 EXPOSED ENDS OF INSULATION.
- APPROXIMATELY 40 LINEAR FEET OF CAULKING ON EXTERIOR DOORS.

LEGEND

---	DESIGNATED WORK AREA OF CEILING IMPACTS
CPT	CARPET
15	NUMBER OF ASBESTOS-CONTAINING MUDDER HARD FITTINGS ASSOCIATE WITH FIBERGLASS PIPE INSULATION TO BE REMOVED
X	ACCESS HATCH
□	TYPICAL UNIT VENTILATOR WITH DIMENSIONS OF 16" DEEP BY 67" WIDE TO BE REMOVED, SEE KEY NOTE NUMBER 2
▨	ASBESTOS-CONTAINING FLOOR TILE / MASTIC AND ASSOCIATED CARPET TO BE REMOVED
▩	ASBESTOS-CONTAINING SHEET FLOOR COVERING TO BE REMOVED
▧	ASBESTOS CAULK BETWEEN DOOR FRAMES AND SIDING TO BE REMOVED

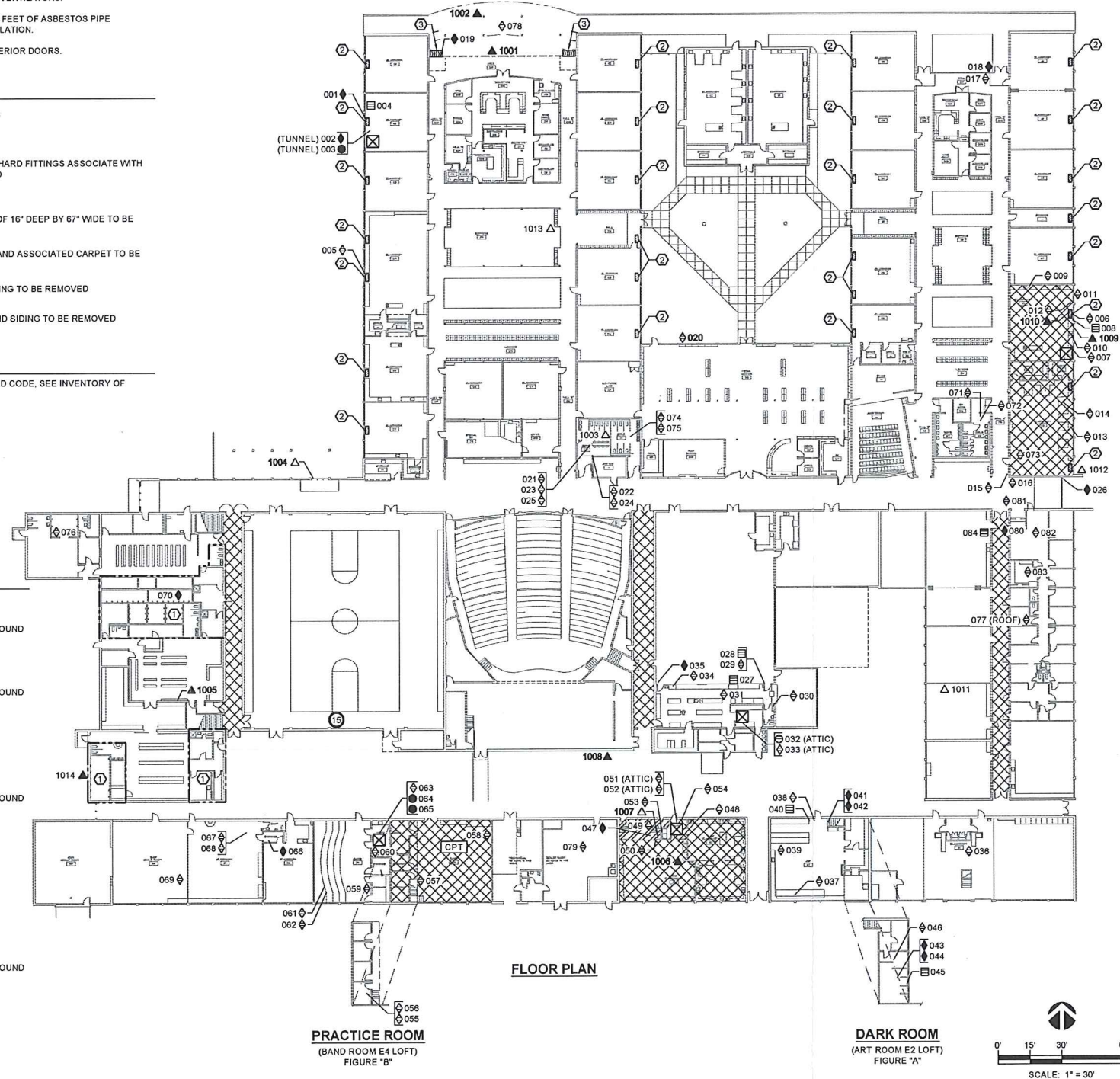
LEAD SAMPLE SYMBOLS

0007	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	21078.018-1001	1100 PPM	EXTERIOR; NEAR MAIN OFFICE, SIDING, WOOD, TAN
▲ 1002	21078.018-1002	2800 PPM	EXTERIOR; BREEZEWAY NEAR MAIN OFFICE, POLE, METAL, BLUE
△ 1003	21078.018-1003	<47.0 PPM	INTERIOR BOYS BATHROOM; STALL PARTITION, METAL, BLACK
△ 1004	21078.018-1004	<73.0 PPM	EXTERIOR DOOR; HALLWAY, DOOR JAMB, METAL, BLUE
▲ 1005	21078.018-1005	4000 PPM	BOYS TEAM ROOM; METAL LOCKER, METAL, RED
▲ 1006	21078.018-1006	85 PPM	ROOM E3; PLASTER WALL, PLASTER, BEIGE
▲ 1007	21078.018-1007	<47 PPM	ROOM E3; GYPSSUM/JOINT COMPOUND, SHEETROCK WALL, BEIGE
▲ 1008	21078.018-1008	680 PPM	EXTERIOR SOUTH WALL; AUDITORIUM, CONCRETE, CONCRETE WALL, CREAM
▲ 1009	21078.018-1009	77 PPM	ROOM E5; PLASTER WALL, PLASTER, CREAM
▲ 1010	21078.018-1010	730 PPM	ROOM E5; UNIT VENTILATOR, METAL, CREAM
▲ 1011	21078.018-1011	<43 PPM	F-WING OFFICE; PLASTER, BEIGE
▲ 1012	21078.018-1012	<46 PPM	EXTERIOR; EAST ENTRANCE, WOOD TRIM, WOOD, GRAY
▲ 1013	21078.018-1013	<43 PPM	COMMON AREA; SHEETROCK WALL, SHEETROCK, WHITE
▲ 1014	21078.018-1014	100 PPM	EXTERIOR; BOYS LOCKER ROOM, WEST WALL, CONCRETE, GRAY



PBS
Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239
503.248.1939 Main
503.248.0223 Fax
www.pbsenv.com



NORTH CLACKAMAS SCHOOL DISTRICT
ASBESTOS ABATEMENT OF SIX SCHOOLS
ALDER CREEK MIDDLE SCHOOL
13801 SE WEBSTER ROAD, MILWAUKIE, OREGON

BID # 990-10-2800

HAZARDOUS MATERIAL ABATEMENT PLAN

PROJECT: 21078.018 0002
DRAWN: DJ
CHECKED: SD
DATE: MARCH 2010

FIGURE: **HM2.0**

SHEET 3 OF 7

GENERAL NOTES

- 1. THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS. ONLY ACCESSIBLE AREAS AND MATERIALS ANTICIPATED TO BE IMPACTED BY THE RENOVATION WERE SURVEYED.
2. ABATEMENT CONTRACTOR IS TO FIELD VERIFY ALL MATERIALS, LOCATIONS, CONDITIONS, AND QUANTITIES.
3. THIS DRAWING IDENTIFIES ONLY ASBESTOS-CONTAINING MATERIALS THAT REQUIRE ABATEMENT AS PART OF THE 2010 RIVERSIDE ELEMENTARY SCHOOL RENOVATION PROJECT. KNOWN ASBESTOS-CONTAINING MATERIALS EXIST IN THIS FACILITY THAT ARE NOT IN THE SCOPE OF THIS ABATEMENT WORK, OR DEPICTED ON THIS DRAWING.
4. QUANTITIES OF ASBESTOS-CONTAINING OR CONTAMINATED MATERIALS IN EXCESS OF THOSE SPECIFIED SHALL NOT BE ABATED AND/OR REMOVED WITHOUT WRITTEN PRIOR CONSENT OF THE DISTRICT AND THE DISTRICTS ENVIRONMENTAL CONSULTANT.

ABATEMENT NOTES

- 1. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO FIXTURES AND FINISHES AS A RESULT OF ABATEMENT WORK.
2. COORDINATE WITH THE DISTRICT AND GENERAL CONTRACTOR TO SCHEDULE, ACCESS, ABATEMENT PHASING, LOCK OUT/TAG OUT PROCEDURES, TEMPORARY FACILITIES, STAGING AREAS, SECURITY AND SAFETY PROTOCOLS.
3. ALL ABATED SURFACES SHALL BE VISUALLY INSPECTED BY THE DISTRICTS REPRESENTATIVES ON SITE PRIOR TO LOCK DOWN AND CLEARANCES.
4. COORDINATE TRANSITION LOCATIONS BETWEEN ABATED AND NON-ABATED FLOORS WITH THE GENERAL CONTRACTOR.
5. ABATEMENT CONTRACTOR IS TO PERFORM ALL SOFT DEMOLITION ACTIVITIES TO ACCESS AND ABATE ASBESTOS-CONTAINING MATERIALS WHERE NECESSARY.
6. ABATEMENT CONTRACTOR IS TO FIELD VERIFY WITH THE GENERAL CONTRACTOR ALL FIXTURES, CASEWORK, CABINETS AND SHELVING THAT REQUIRE REMOVAL TO ACCESS AND ABATE MATERIALS.
7. DO NOT REMOVE METAL OR WOOD BASEBOARD TO ABATE FLOOR TILE AND/OR MASTIC. SAVE AND PROTECT IN PLACE, IF REMOVAL IS NECESSARY, REPLACE IN ITS ORIGINAL LOCATION AFTER ABATEMENT.
8. ALL FLOORING AND ASSOCIATED MASTIC ABATEMENT WILL REQUIRE A MINIMUM 1 LAYER 6 MIL PLASTIC TO THE CEILING LINE. PLASTIC MUST BE ATTACHED IN A MANNER THAT DOES NOT DAMAGE THE SURFACE. ANY DAMAGE CAUSED BY INSTALLATION OR REMOVAL OF PLASTIC MUST BE REPAIRED AT ABATEMENT CONTRACTOR'S EXPENSE AND ACCEPTED BY OWNER PRIOR TO COMPLETION OF CONTRACT.
9. ALL FLOOR TILE REMOVAL SHALL BE NOTIFIED AS A FRIABLE ASBESTOS-ABATEMENT PROJECT. REFERENCE THE ABATEMENT PROJECT SPECIFICATIONS FOR FRIABLE PREPARATION, NEGATIVE PRESSURE ENCLOSURE, DECONTAMINATION PROCEDURES AND ADDITIONAL INFORMATION.
10. ABATEMENT CONTRACTOR IS TO 'BAG' AND PROTECT SMOKE DETECTORS PRIOR TO PREPARATION FOR ABATEMENT. BAGS ARE TO REMAIN IN PLACE UNTIL TEAR DOWN IS COMPLETE.
11. ABATEMENT CONTRACTOR IS TO INSPECT REMAINING WINDOWS FOR CAULKING NOT SHOWN TO BE ABATED. IF FOUND CONTACT THE ENVIRONMENTAL CONSULTANT FOR VERIFICATION. IF ABATEMENT IS NEEDED UNIT COSTS WILL APPLY TO THIS WORK.

LEAD PAINT NOTES

- 1. REPRESENTATIVE SAMPLES OF DIFFERENT COATINGS ON VARIOUS BUILDING COMPONENTS WERE COLLECTED AND TESTED FOR LEAD CONTENT. UNLESS OTHERWISE INDICATED, ALL PAINTED SURFACES SHOULD BE CONSIDERED LEAD-CONTAINING.

ASBESTOS SAMPLE SYMBOLS

Legend for asbestos sample symbols including drawing reference to bulk sample field code, material symbol, and symbols for mechanical insulation, surfacing material, and miscellaneous material.

INVENTORY OF ASBESTOS SAMPLES

Table listing drawing reference, field code, lab result, and material sampled for 25 asbestos samples (001-025).

LEGEND

Legend for base bid and bid alternate #1, defining symbols for asbestos-containing caulking and floor tile.

KEY NOTES

- 1. MULTIPLE LAYERS OF FLOORING TO BE REMOVED: a. NON-ASBESTOS 12"x12" FLOOR TILE WITH NON-ASBESTOS MASTIC b. 1/2" PLYWOOD c. ASBESTOS-CONTAINING FLOOR TILE d. NON-ASBESTOS MASTIC e. PARTICLE BOARD f. NAILS AND SCREWS
2. ABATEMENT OF WINDOW CAULKING TO BE COORDINATED WITH THE GENERAL CONTRACTOR AND SEQUENCED AS FOLLOWS: a. ABATEMENT CONTRACTOR TO ABATE ACCESSIBLE CAULKING BETWEEN WINDOW FRAME AND BUILDING b. GENERAL CONTRACTOR WILL REMOVE WINDOWS AND FRAMES c. ABATEMENT CONTRACTOR TO RETURN TO SITE TO ABATE RESIDUAL CAULKING FROM FRAMES AND WINDOW OPENINGS. THIS WORK TO BE COMPLETED AT UNIT RATES FOR WORKERS, SUPERVISOR AND ADDITIONAL MOBILIZATION TO THE SITE d. WINDOWS AND FRAMES WILL BE DISPOSED OF BY THE GENERAL CONTRACTOR.

ESTIMATED QUANTITIES TO BE REMOVED (BASE BID)

- 1. APPROXIMATELY 2,892 SQUARE FEET OF MULTIPLE-LAYER ASBESTOS-CONTAINING FLOOR TILE IN ROOMS 4, 5 AND 6. SEE KEY NOTE 1.
2. APPROXIMATELY 400 LINEAL FEET OF ASBESTOS-CONTAINING CAULKING BETWEEN WINDOW FRAMES AND BUILDING LOCATED ON THE EAST AND WEST SIDES OF THE BUILDING. LOCATION OF CAULKING ON DRAWING IS APPROXIMATE AND INCLUDES HORIZONTAL AND VERTICAL APPLICATIONS. SEE KEY NOTE 2.

ESTIMATED QUANTITIES TO BE REMOVED (BID ALTERNATE #1)

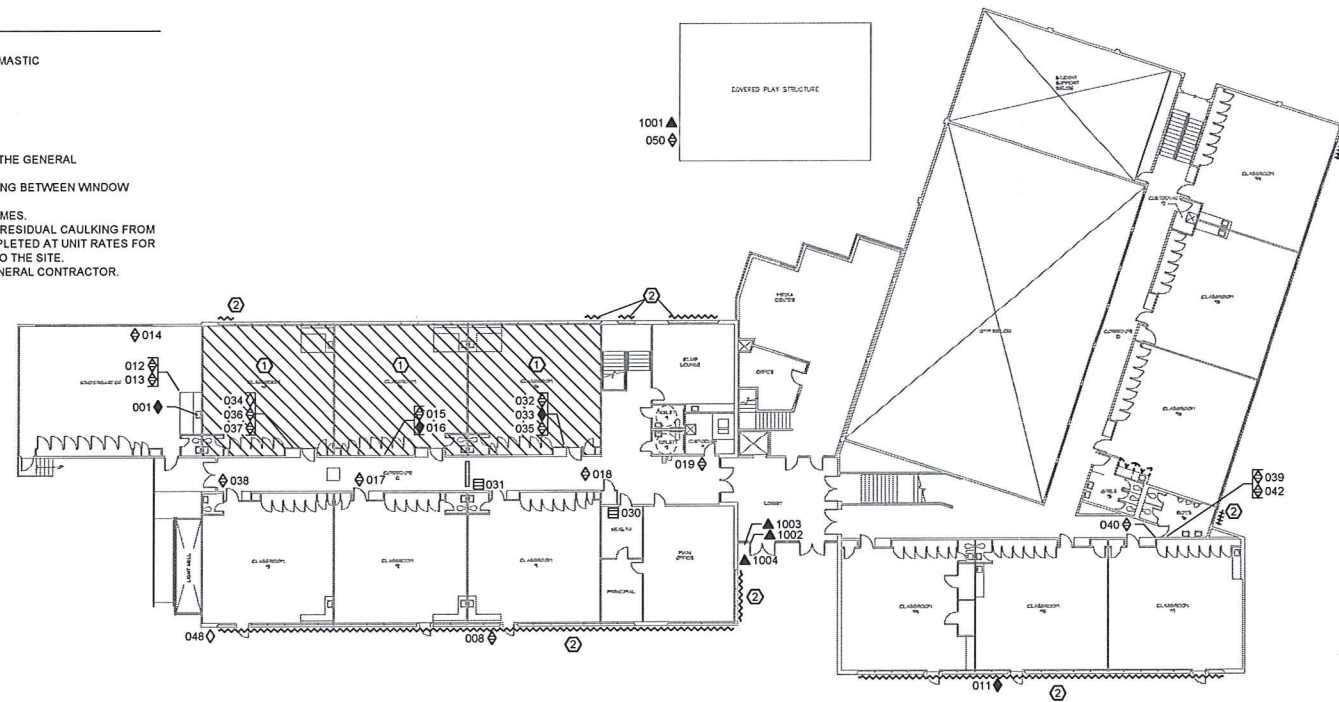
- 1. APPROXIMATELY 177 LINEAL FEET OF ASBESTOS-CONTAINING CAULKING BETWEEN WINDOW FRAMES AND BUILDING LOCATED ON THE NORTH SIDE OF THE BUILDING. LOCATION OF CAULKING ON DRAWING IS APPROXIMATE AND INCLUDES HORIZONTAL AND VERTICAL APPLICATIONS. SEE KEY NOTE 2.

LEAD SAMPLE SYMBOLS

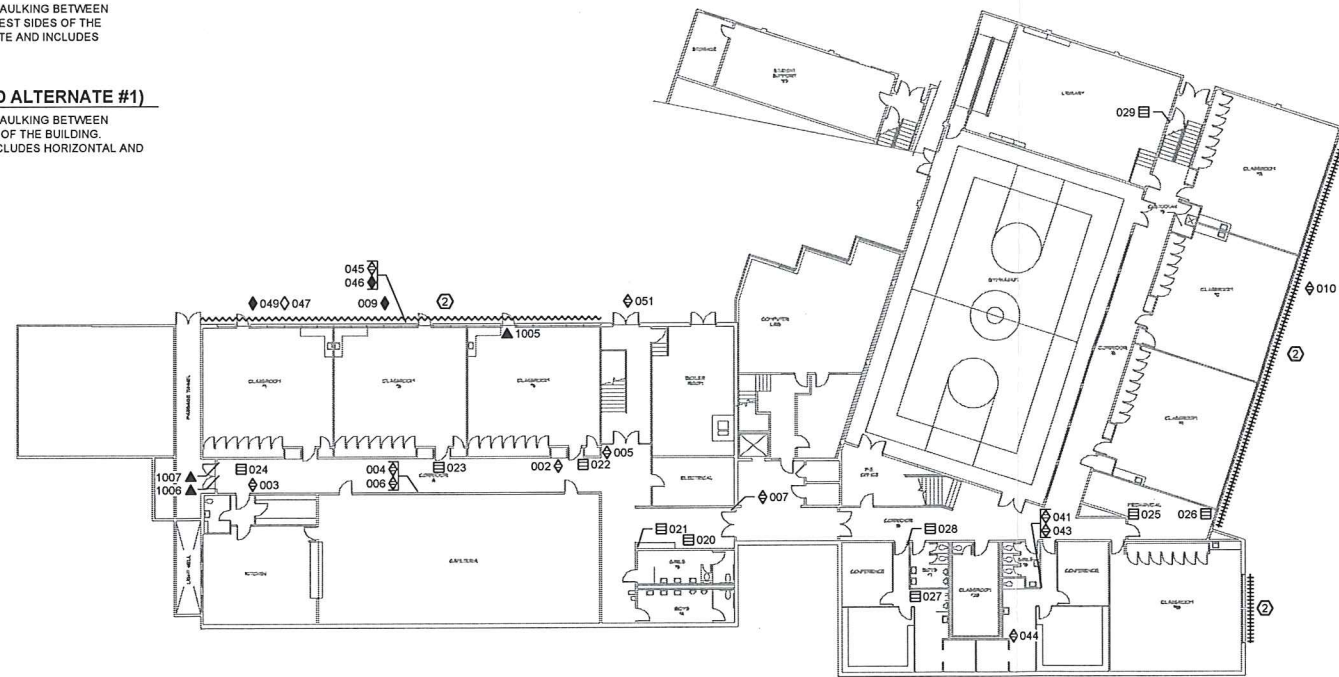
Legend for lead sample symbols including drawing reference to lead sample field code, material symbol, and symbols for lead detected and below limit of detection.

INVENTORY OF AA LEAD SAMPLES

Table listing sample number, field code, lab result (ppm), and material description for 7 lead samples (1001-1007).



MAIN LEVEL FLOOR PLAN



LOWER LEVEL FLOOR PLAN

North arrow and graphic scale bar (1" = 20').

PBS Engineering + Environmental logo and contact information.



NORTH CLACKAMAS SCHOOL DISTRICT
ASBESTOS ABATEMENT OF SIX SCHOOLS
RIVERSIDE ELEMENTARY SCHOOL
16303 SE RIVER ROAD, MILWAUKIE, OREGON

BID #
990-10-2800

HAZARDOUS
MATERIAL
ABATEMENT PLAN

PROJECT: 21078.020.0002

DRAWN: DJ

CHECKED: SD

DATE: MARCH 2010

REVISIONS:

FIGURE:
HM3.0

SHEET 4 OF 7

GENERAL NOTES

- THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS. ONLY ACCESSIBLE AREAS AND MATERIALS ANTICIPATED TO BE IMPACTED BY THE RENOVATION WERE SURVEYED.
- ABATEMENT CONTRACTOR IS TO FIELD VERIFY ALL MATERIALS, LOCATIONS, CONDITIONS, AND QUANTITIES.
- THIS DRAWING IDENTIFIES ONLY ASBESTOS-CONTAINING MATERIALS THAT REQUIRE ABATEMENT AS PART OF THE 2010 CONCORD ELEMENTARY SCHOOL RENOVATION PROJECT. KNOWN ASBESTOS-CONTAINING MATERIALS EXIST IN THIS FACILITY THAT ARE NOT IN THE SCOPE OF THIS ABATEMENT WORK, OR DEPICTED ON THIS DRAWING.
- QUANTITIES OF ASBESTOS-CONTAINING OR CONTAMINATED MATERIALS IN EXCESS OF THOSE SPECIFIED SHALL NOT BE ABATED AND/OR REMOVED WITHOUT WRITTEN PRIOR CONSENT OF THE DISTRICT AND THE DISTRICTS ENVIRONMENTAL CONSULTANT.

KEY NOTES

- WINDOW ASSEMBLY WITH A VARIETY OF ASBESTOS-CONTAINING COMPONENTS. ALL TRANSITE, GLAZING AND SEALANTS ARE ASBESTOS-CONTAINING. ABATEMENT CONTRACTOR SHALL REMOVE THE ENTIRE WINDOW ASSEMBLY AND CLEAN ALL SEALANTS FROM THE REMAINING OPENING. ABATEMENT CONTRACTOR TO COORDINATE REMOVAL SCHEDULE WITH THE GENERAL CONTRACTOR'S WINDOW REPLACEMENT SCHEDULE.
- ASBESTOS-CONTAINING GYPSUM/JOINT COMPOUND CEILINGS. LIMITED IMPACTS ARE ANTICIPATED. ABATEMENT CONTRACTOR TO PERFORM IMPACTS PER GENERAL CONTRACTORS NEEDS. ABATEMENT CONTRACTOR UNIT PRICING WILL APPLY.
- AREA OF ANTICIPATED PENETRATION INTO AND THROUGH ASBESTOS-CONTAINING FLOORING AND/OR GYPSUM WALLBOARD WITH ASBESTOS-CONTAINING JOINT COMPOUND. ABATEMENT CONTRACTOR TO PERFORM IMPACTS PER GENERAL CONTRACTORS NEEDS. ABATEMENT CONTRACTOR UNIT PRICING WILL APPLY.
- CEILING MOUNTED HEATING UNIT VENTED THROUGH ASBESTOS-CONTAINING TRANSITE PANEL IN WINDOW ASSEMBLY. ABATEMENT CONTRACTOR TO COORDINATE THE REMOVAL OF VENT OR TRANSITE PANEL WITH THE GENERAL CONTRACTOR IF ALTERNATE #1 IS NOT AWARDED. IF NECESSARY, UNIT COSTS WILL APPLY TO THIS WORK.
- ABATEMENT CONTRACTOR WILL ASSIST THE GENERAL CONTRACTOR IN CUTTING AND REMOVAL OF TACK BOARDS IF APPLIED TO GYPSUM WALL SYSTEMS WITH ASBESTOS-CONTAINING JOINT COMPOUND, IF CONTAINMENT AND/OR ABATEMENT IS NEEDED. UNIT COSTS WILL APPLY TO THIS WORK.
- WOOD WALL SYSTEM AND GLASS IS TO BE CAREFULLY PROTECTED DURING ABATEMENT.
- RUBBER COVEBASE ASSOCIATED WITH AREAS OF FLOORING ABATEMENT ARE TO BE REMOVED AS PART OF THE FLOORING ABATEMENT SCOPE OF WORK.
- ASBESTOS-CONTAINING GYPSUM/JOINT COMPOUND CEILING SYSTEM CONCEALED BEHIND NON-ASBESTOS GLUED-ON CEILING. BOTH CEILINGS TO BE REMOVED AND DISPOSED OF BY THE ABATEMENT CONTRACTOR.
- BID ALTERNATE #1 WINDOW REMOVAL WORK.
- BID ALTERNATE 2 WINDOW REMOVAL WORK.
- BASE BID WINDOW REMOVAL WORK.

ABATEMENT NOTES

- THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO FIXTURES AND FINISHES AS A RESULT OF ABATEMENT WORK.
- COORDINATE WITH THE DISTRICT AND GENERAL CONTRACTOR, SCHEDULE, ACCESS, ABATEMENT PHASING, LOCK OUT/TAG OUT PROCEDURES, TEMPORARY FACILITIES, STAGING AREAS, SECURITY AND SAFETY PROTOCOLS.
- ALL ABATED SURFACES SHALL BE VISUALLY INSPECTED BY THE DISTRICT'S REPRESENTATIVES ON SITE PRIOR TO LOCK DOWN AND CLEARANCES.
- COORDINATE TRANSITION LOCATIONS BETWEEN ABATED AND NON-ABATED FLOORS WITH THE GENERAL CONTRACTOR.
- ABATEMENT CONTRACTOR IS TO PERFORM ALL SOFT DEMOLITION ACTIVITIES TO ACCESS AND ABATE ASBESTOS-CONTAINING MATERIALS WHERE NECESSARY.
- ABATEMENT CONTRACTOR IS TO FIELD VERIFY WITH THE GENERAL CONTRACTOR ALL FIXTURES, CASEWORK, CABINETS AND SHELVING THAT REQUIRE REMOVAL TO ACCESS AND ABATE MATERIALS.
- ALL FLOORING AND/OR ASSOCIATED MASTIC ABATEMENT WILL REQUIRE A MINIMUM 1 LAYER 6 MIL PLASTIC TO THE CEILING LINE. PLASTIC MUST BE ATTACHED IN A MANNER THAT DOES NOT DAMAGE THE SURFACE. ANY DAMAGE CAUSED BY INSTALLATION OR REMOVAL OF GUARDS MUST BE REPAIRED AT ABATEMENT CONTRACTOR'S EXPENSE AND ACCEPTED BY OWNER PRIOR TO COMPLETION OF CONTRACT.
- ABATEMENT CONTRACTOR IS TO "BAG" AND PROTECT SMOKE DETECTORS PRIOR TO PREPARATION FOR ABATEMENT. BAGS ARE TO REMAIN IN PLACE UNTIL TEAR DOWN IS COMPLETE.
- ASBESTOS-CONTAINING GYPSUM WALLBOARD IS PRESENT IN VARIOUS LOCATION OF THE SCHOOL. UNLESS OTHERWISE NOTED LIMITED IMPACTS ARE ANTICIPATED. ABATEMENT CONTRACTOR TO PERFORM IMPACTS PER GENERAL CONTRACTORS NEEDS. ABATEMENT CONTRACTOR UNIT PRICING WILL APPLY.

ESTIMATED QUANTITIES TO BE REMOVED (BASE BID)

- APPROXIMATELY 2,308 SQUARE FEET OF NON-ASBESTOS FLOOR TILE WITH ASBESTOS-CONTAINING MASTIC.
- APPROXIMATELY 115 LINEAR FEET OF EXTERIOR WINDOW ASSEMBLY OF VARYING HEIGHT WITH TRANSITE WINDOW PANEL. SEE KEY NOTE NUMBER 1.
- APPROXIMATELY 165 LINEAR FEET OF EXTERIOR WINDOW ASSEMBLY OF VARYING HEIGHT WITH ASBESTOS-CONTAINING WINDOW SEALANT/CAULK. SEE KEY NOTE NUMBER 1.
- APPROXIMATELY 2,850 SQUARE FEET OF WALL AND CEILING SYSTEMS WITH ASBESTOS-CONTAINING JOINT COMPOUND.
- APPROXIMATELY 250 LINEAR FEET OF ASBESTOS-CONTAINING PIPE INSULATION.
- ONE SINK WITH ASBESTOS-CONTAINING UNDERCOATING.

ESTIMATED QUANTITIES TO BE REMOVED (BID ALTERNATE #1)

- APPROXIMATELY 120 LINEAR FEET OF EXTERIOR WINDOW ASSEMBLY OF VARYING HEIGHT WITH TRANSITE WINDOW PANEL. SEE KEY NOTE NUMBER 1.
- APPROXIMATELY 220 LINEAR FEET OF EXTERIOR WINDOW ASSEMBLY OF VARYING HEIGHT WITH ASBESTOS-CONTAINING WINDOW SEALANT/CAULK. SEE KEY NOTE NUMBER 1.

ESTIMATED QUANTITIES TO BE REMOVED (BID ALTERNATE #2)

- APPROXIMATELY 40 LINEAR FEET OF ASBESTOS-CONTAINING WINDOW SEALANT AND GLAZING. SEE KEY NOTE NUMBER 1.

LEAD PAINT NOTES

- REPRESENTATIVE SAMPLES OF DIFFERENT COATINGS ON VARIOUS BUILDING COMPONENTS WERE COLLECTED AND TESTED FOR LEAD CONTENT. UNLESS OTHERWISE INDICATED, ALL PAINTED SURFACES SHOULD BE CONSIDERED LEAD-CONTAINING.

LEGEND

- NON-ASBESTOS FLOOR TILE WITH ASBESTOS-CONTAINING MASTIC ON CONCRETE SUBSTRATE TO BE REMOVED
- TRANSITE WINDOW PANEL
- ASBESTOS-CONTAINING WINDOW SEALANT/CAULK
- ASBESTOS-CONTAINING WINDOW SEALANT AND GLAZING
- GYPSUM WALLBOARD WITH ASBESTOS-CONTAINING JOINT COMPOUND TO BE REMOVED
- ASBESTOS-CONTAINING HORIZONTAL PIPE RUN TO BE REMOVED
- ASBESTOS-CONTAINING VERTICAL PIPE RUN TO BE REMOVED
- ASBESTOS-CONTAINING SINK UNDERCOATING TO BE REMOVED

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

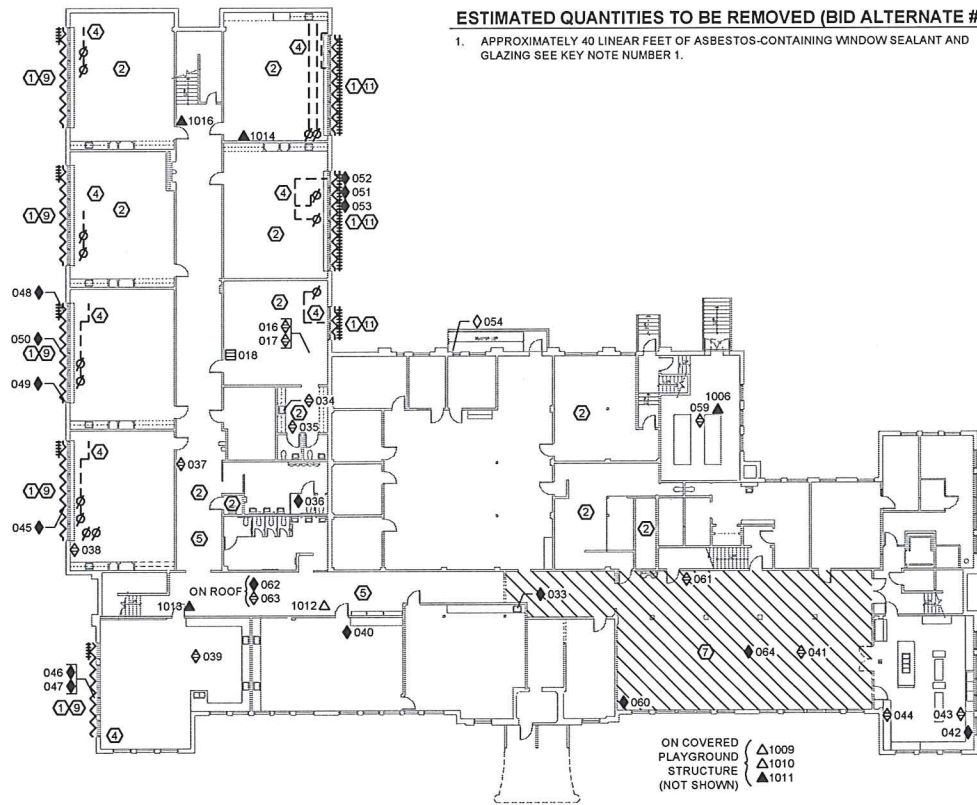
SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
▲1001	21078.021-1001	6,920 ppm	PAINT ON ROOM 29; AT WINDOW, BROWN, METAL, HEATER
▲1002	21078.021-1002	630 ppm	PAINT ON ROOM 29; EAST WALL, WHITE, PLASTER
▲1003	21078.021-1003	<483 ppm	PAINT ON ROOM 29; CABINET, BROWN, PLASTER
▲1004	21078.021-1004	1,760 ppm	PAINT ON GYMNASIUM, INTERIOR, CLEAR, WOOD, WINDOW
▲1005	21078.021-1005	184,000 ppm	PAINT ON GYMNASIUM, EXTERIOR, BROWN, WOOD, WINDOW
▲1006	21078.021-1006	299 ppm	PAINT ON BOILER #1; DOOR, METAL SUBSTRATE, SILVER
▲1007	21078.021-1007	251 ppm	PAINT ON GYM SOUTH WALL; WOOD SUBSTRATE, WHITE
▲1008	21078.021-1008	<211 ppm	PAINT ON EAST EXTERIOR; DOOR, METAL, BLUE
▲1009	21078.021-1009	<77.2 ppm	PAINT ON COVERED PLAY STRUCTURE; SIDING, WOOD, GRAY
▲1010	21078.021-1010	<483 ppm	PAINT ON COVERED PLAY STRUCTURE; POLE, METAL, RED
▲1011	21078.021-1011	359 ppm	PAINT ON COVERED PLAY STRUCTURE; POLE, METAL, BLUE
▲1012	21078.021-1012	ND	PAINT ON WEST WALL; WALL, SHEET ROCK, WHITE
▲1013	21078.021-1013	672 ppm	PAINT ON W. AND N. HALL; DOOR FRAME, WOOD, TAN
▲1014	21078.021-1014	3,210 ppm	PAINT ON HALL; WALL, WOOD, TAN
▲1015	21078.021-1015	1,340 ppm	PAINT ON HEALTH ROOM; WALL, SHEET ROCK, TAN
▲1016	21078.021-1016	1,250 ppm	PAINT ON ROOM 20; DOOR FRAME, WOOD, TAN/PINK

ASBESTOS SAMPLE SYMBOLS

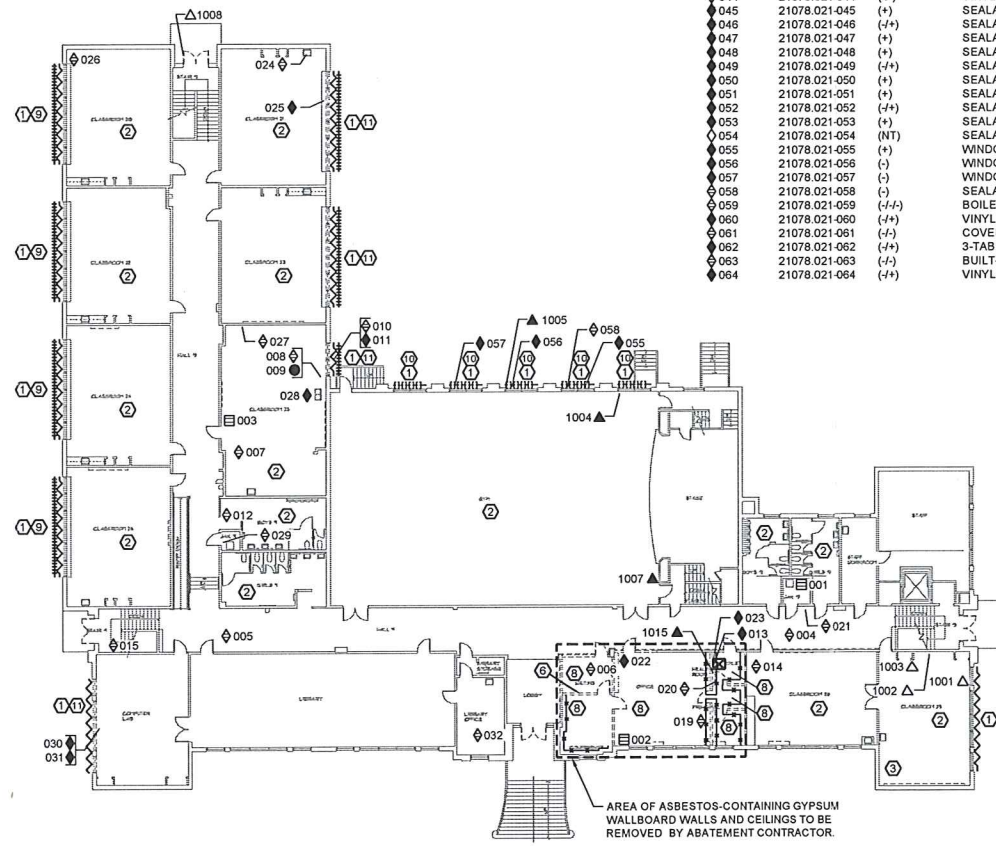
- DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
- MATERIAL SYMBOL
- NOT TESTED
- NEGATIVE
- POSITIVE
- MECHANICAL INSULATION
- SURFACING MATERIAL
- MISCELLANEOUS MATERIAL

INVENTORY OF ASBESTOS SAMPLES

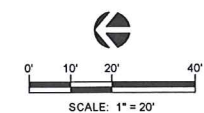
DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
001	21078.021-001	(-)	WALL AND CEILING PLASTER
002	21078.021-002	(-)	WALL AND CEILING PLASTER
003	21078.021-003	(-)	WALL AND CEILING PLASTER
004	21078.021-004	(-)	GLUED-ON CEILING TILES (1)
005	21078.021-005	(-)	GLUED-ON CEILING TILES (1)
006	21078.021-006	(-)	GLUED-ON CEILING TILES (1)
007	21078.021-007	(-)	NAILED-ON CEILING TILES
008	21078.021-008	(-)	VINYL FLOOR TILE (1)
009	21078.021-009	(+)	FELT WRAP PIPE INSULATION
010	21078.021-010	(-)	CAULK
011	21078.021-011	(+)	CAULK
012	21078.021-012	(+)	GYPSUM WALLBOARD/JOINT COMPOUND
013	21078.021-013	(+)	GYPSUM WALLBOARD/JOINT COMPOUND
014	21078.021-014	(-)	WALL TILE
015	21078.021-015	(-)	GYPSUM WALLBOARD/JOINT COMPOUND
016	21078.021-016	(-)	GLUED-ON CEILING TILES (1)
017	21078.021-017	(-)	WALL AND CEILING PLASTER
018	21078.021-018	(-)	WOOD PANEL MASTIC
019	21078.021-019	(-)	COVEBASE/MASTIC
020	21078.021-020	(-)	TACKBOARD MASTIC
021	21078.021-021	(-)	VINYL FLOOR TILE/MASTIC
022	21078.021-022	(+)	SINK UNDERCOATING
023	21078.021-023	(+)	SINK UNDERCOATING
024	21078.021-024	(+)	TRANSITE PANEL
025	21078.021-025	(+)	GYPSUM WALLBOARD/JOINT COMPOUND
026	21078.021-026	(-)	CORKBOARD MASTIC
027	21078.021-027	(+)	SINK UNDERCOATING
028	21078.021-028	(+)	SHEET FLOOR COVERING (1)
029	21078.021-029	(+)	VINYL FLOOR TILE/MASTIC (1)
030	21078.021-030	(+)	VINYL FLOOR TILE/MASTIC (2)
031	21078.021-031	(-)	CEILING TILE
032	21078.021-032	(-)	SINK UNDERCOATING
033	21078.021-033	(-)	SINK UNDERCOATING
034	21078.021-034	(-)	SHEET FLOOR COVERING (1)
035	21078.021-035	(-)	COVEBASE/MASTIC
036	21078.021-036	(-)	TACKBOARD MASTIC
037	21078.021-037	(-)	GYPSUM WALLBOARD/JOINT COMPOUND
038	21078.021-038	(-)	SHEET FLOOR COVERING (2)
039	21078.021-039	(-)	GYPSUM WALLBOARD/JOINT COMPOUND
040	21078.021-040	(-)	NAILED-ON CEILING TILE
041	21078.021-041	(-)	COUNTER UNDERCOATING
042	21078.021-042	(+)	VINYL FLOOR TILE/MASTIC (3)
043	21078.021-043	(-)	VINYL FLOOR TILE/MASTIC (4)
044	21078.021-044	(+)	SEALANT
045	21078.021-045	(+)	SEALANT
046	21078.021-046	(+)	SEALANT
047	21078.021-047	(+)	SEALANT
048	21078.021-048	(+)	SEALANT
049	21078.021-049	(+)	SEALANT
050	21078.021-050	(+)	SEALANT
051	21078.021-051	(+)	SEALANT
052	21078.021-052	(+)	SEALANT
053	21078.021-053	(+)	SEALANT
054	21078.021-054	(NT)	SEALANT
055	21078.021-055	(+)	WINDOW GLAZING COMPOUND
056	21078.021-056	(-)	WINDOW GLAZING COMPOUND
057	21078.021-057	(-)	WINDOW GLAZING COMPOUND
058	21078.021-058	(-)	SEALANT
059	21078.021-059	(+)	BOILER INSULATION
060	21078.021-060	(+)	VINYL FLOOR TILE/MASTIC
061	21078.021-061	(-)	COVEBASE/MASTIC
062	21078.021-062	(+)	3-TAB ROOFING
063	21078.021-063	(-)	BUILT-UP ROOFING
064	21078.021-064	(+)	VINYL FLOOR TILE/MASTIC



LOWER LEVEL FLOOR PLAN



UPPER LEVEL FLOOR PLAN



BID #
990-10-2800

HAZARDOUS
MATERIAL
ABATEMENT PLAN

PROJECT: 21078.021 0002
DRAWN: DJ
CHECKED: SD
DATE: MARCH 2010
REVISIONS: 3/4/10

FIGURE:
HM4.0

GENERAL NOTES

1. THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS. ONLY ACCESSIBLE AREAS AND MATERIALS ANTICIPATED TO BE IMPACTED BY THE RENOVATION WERE SURVEYED.
2. ABATEMENT CONTRACTOR IS TO FIELD VERIFY ALL MATERIALS, LOCATIONS, CONDITIONS, AND QUANTITIES.
3. THIS DRAWING IDENTIFIES ONLY ASBESTOS-CONTAINING MATERIALS THAT REQUIRE ABATEMENT AS PART OF THE 2010 NEW URBAN HIGH SCHOOL AND SOJOURNER ELEMENTARY SCHOOL RENOVATION PROJECT. KNOWN ASBESTOS-CONTAINING MATERIALS EXIST IN THIS FACILITY THAT ARE NOT IN THE SCOPE OF THIS ABATEMENT WORK, OR DEPICTED ON THIS DRAWING.
4. QUANTITIES OF ASBESTOS-CONTAINING OR CONTAMINATED MATERIALS IN EXCESS OF THOSE SPECIFIED SHALL NOT BE ABATED AND/OR REMOVED WITHOUT WRITTEN PRIOR CONSENT OF THE DISTRICT AND THE DISTRICTS ENVIRONMENTAL CONSULTANT.

ABATEMENT NOTES

1. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO FIXTURES AND FINISHES AS A RESULT OF ABATEMENT WORK.
2. COORDINATE WITH THE DISTRICT AND GENERAL CONTRACTOR, SCHEDULE, ACCESS, ABATEMENT PHASING, LOCK OUT/TAG OUT PROCEDURES, TEMPORARY FACILITIES, STAGING AREAS, SECURITY AND SAFETY PROTOCOLS.
3. ALL ABATED SURFACES SHALL BE VISUALLY INSPECTED BY THE DISTRICT'S REPRESENTATIVES ON SITE PRIOR TO LOCK DOWN AND CLEARANCES.
4. COORDINATE TRANSITION LOCATIONS BETWEEN ABATED AND NON-ABATED FLOORS WITH THE GENERAL CONTRACTOR.
5. ABATEMENT CONTRACTOR IS TO PERFORM ALL SOFT DEMOLITION ACTIVITIES TO ACCESS AND ABATE ASBESTOS-CONTAINING MATERIALS WHERE NECESSARY.
6. ABATEMENT CONTRACTOR IS TO FIELD VERIFY WITH THE GENERAL CONTRACTOR ALL FIXTURES, CASEWORK, CABINETS AND SHELVING THAT REQUIRE REMOVAL TO ACCESS AND ABATE MATERIALS.
7. ALL FLOORING AND ASSOCIATED MASTIC ABATEMENT WILL REQUIRE A MINIMUM 1 LAYER 6 MIL PLASTIC TO THE CEILING LINE. PLASTIC MUST BE ATTACHED IN A MANNER THAT DOES NOT DAMAGE THE SURFACE. ANY DAMAGE CAUSED BY INSTALLATION OR REMOVAL OF GUARDS MUST BE REPAIRED AT ABATEMENT CONTRACTOR'S EXPENSE AND ACCEPTED BY OWNER PRIOR TO COMPLETION OF CONTRACT.
8. ALL FLOOR TILE REMOVAL SHALL BE NOTIFIED AS A FRIABLE ASBESTOS-ABATEMENT PROJECT. REFERENCE THE ABATEMENT PROJECT SPECIFICATIONS FOR FRIABLE PREPARATION, NEGATIVE PRESSURE ENCLOSURE, DECONTAMINATION PROCEDURES AND ADDITIONAL INFORMATION.
9. ABATEMENT CONTRACTOR IS TO "BAG" AND PROTECT SMOKE DETECTORS PRIOR TO PREPARATION FOR ABATEMENT. BAGS ARE TO REMAIN IN PLACE UNTIL TEAR DOWN IS COMPLETE.
10. JOINT COMPOUND APPLIED TO GYPSUM WALLS AND PLASTER IN SOJOURNER SCHOOL CONTAINS ASBESTOS. GENERAL CONTRACTOR MAY REQUIRE AND LAYOUT ADDITIONAL ABATEMENT OTHER THAN SHOWN. UNIT COSTS WILL APPLY TO THIS ABATEMENT WORK.

LEAD PAINT NOTES

1. REPRESENTATIVE SAMPLES OF DIFFERENT COATINGS ON VARIOUS BUILDING COMPONENTS WERE COLLECTED AND TESTED FOR LEAD CONTENT. UNLESS OTHERWISE INDICATED, ALL PAINTED SURFACES SHOULD BE CONSIDERED LEAD-CONTAINING.

ESTIMATED QUANTITIES TO BE REMOVED

1. APPROXIMATELY 1,610 SQUARE FEET OF MULTI LAYERED ASBESTOS AND NON-ASBESTOS WALL AND CEILING SYSTEMS TO BE REMOVED.
2. APPROXIMATELY 240 LINEAR FEET OF ASBESTOS-CONTAINING PIPE INSULATION AND ASSOCIATED HARD FITTINGS TO BE REMOVED AFTER WALL AND CEILING DEMOLITION IS COMPLETE.
3. APPROXIMATELY 820 LINEAR FEET OF ASBESTOS AND NON-ASBESTOS PIPE INSULATION AND ASSOCIATED HARD FITTING TO BE REMOVED IN THE TUNNEL SYSTEM.
4. APPROXIMATELY 2,640 SQUARE FEET OF TUNNEL FLOOR TO BE CLEANED OF ALL ASBESTOS AND NON-ASBESTOS DIRT, DUST AND DEBRIS. HEPA VAC, WET WIPE AND LOCK DOWN OF ALL TUNNEL SURFACES IS ALSO REQUIRED.
5. APPROXIMATELY 2,625 SQUARE FEET OF ASBESTOS-CONTAINING FLOOR TILE AND MASTIC. INCLUDING REMOVAL OF REMNANT FLOOR TILE FROM TUNNEL ACCESS HATCHES.

KEY NOTES

1. ALL WALL SYSTEMS CONTAIN ASBESTOS IN THE JOINT COMPOUND AND PLASTER. ABATEMENT CONTRACTOR MAY BE REQUIRED TO REMOVE PORTIONS OF WALLS OR MAKE PENETRATION AS REQUESTED BY THE GENERAL CONTRACTOR. UNIT COSTS WILL APPLY TO THIS WORK.
2. WALLS AND CEILING WITHIN THE RESTROOMS AND ADJOINING ROOMS TO BE REMOVED. LAY-OUT TO BE PERFORMED BY THE GENERAL CONTRACTOR. WALLS, WALL SYSTEMS AND CEILING INCLUDE ALL LAYERS OF BOTH ASBESTOS AND NON-ASBESTOS MATERIALS TO THE STUDS OR JOIST. REFERENCE KEY NOTE #5 FOR ADDITIONAL INFORMATION.
3. ALL ASBESTOS AND/OR NON-ASBESTOS PIPE INSULATION AND ASSOCIATED HARD FITTINGS TO BE REMOVED IN THE TUNNEL. REMOVE ALL ASBESTOS AND NON-ASBESTOS DIRT AND DEBRIS FROM THE TUNNEL FLOOR, CEILING AND WALLS. HEPA VACUUM, WET WIPE AND LOCK-DOWN ALL TUNNEL SURFACES AND PIPES.
4. REMOVE ALL PIPE INSULATION AND ASSOCIATED HARD FITTINGS AFTER WALL AND CEILING DEMOLITION IS COMPLETE. REPAIR ALL EXPOSED ENDS OF PIPE INSULATION THAT RUN OUTSIDE THE DESIGNATED WORK AREA WITH "DIP-LAG" CLOTH.
5. SAVE AND PROTECT CERAMIC TILE FLOORS AND CERAMIC TILE BASE AND BETWEEN URINALS IN RESTROOMS DURING AND AFTER DEMOLITION AND ABATEMENT.
6. REMOVE AND HEPA VAC ALL REMNANT BROKEN FLOOR TILE ON AND AROUND ACCESS HATCHES TO TUNNEL.

LEGEND

- - - - ASBESTOS-CONTAINING HORIZONTAL PIPE RUN TO BE REMOVED
- - - - DESIGNATED WORK AREA OF WALL AND CEILING DEMOLITION. LAY-OUT TO BE PERFORMED BY THE GENERAL CONTRACTOR
- ∅ ASBESTOS-CONTAINING VERTICAL PIPE RUN TO BE REMOVED
- ☒ ACCESS HATCH
- ☒ ASBESTOS-CONTAINING FLOOR TILE AND MASTIC ON CONCRETE SUBSTRATE TO BE REMOVED

ASBESTOS SAMPLE SYMBOLS

007 DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES

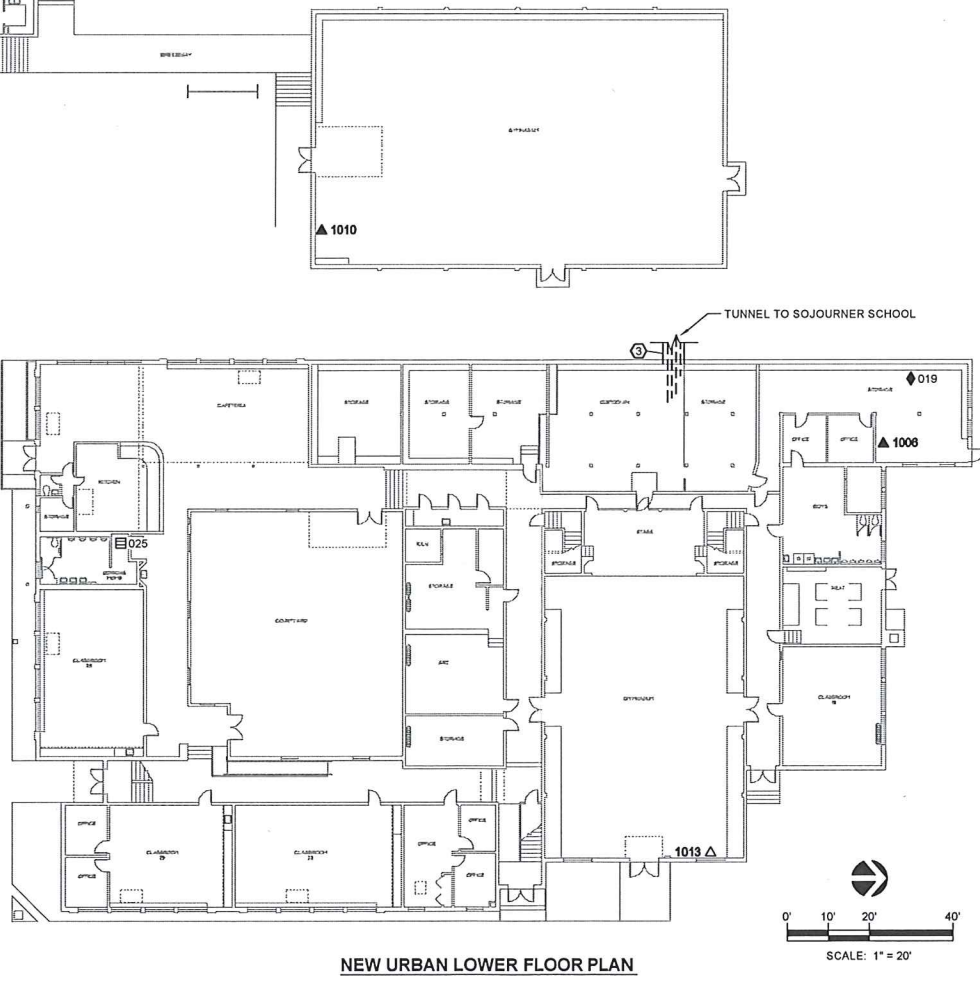
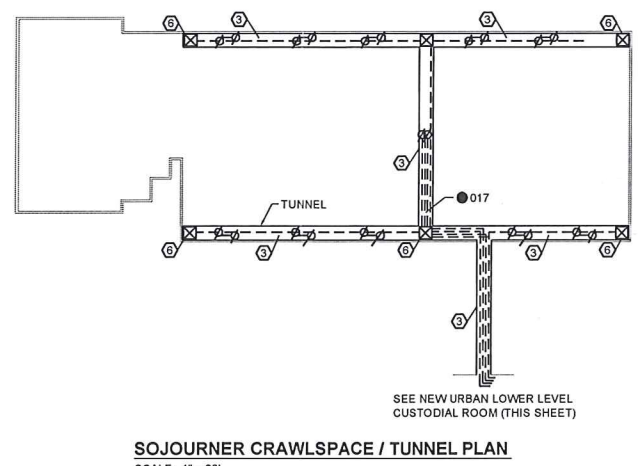
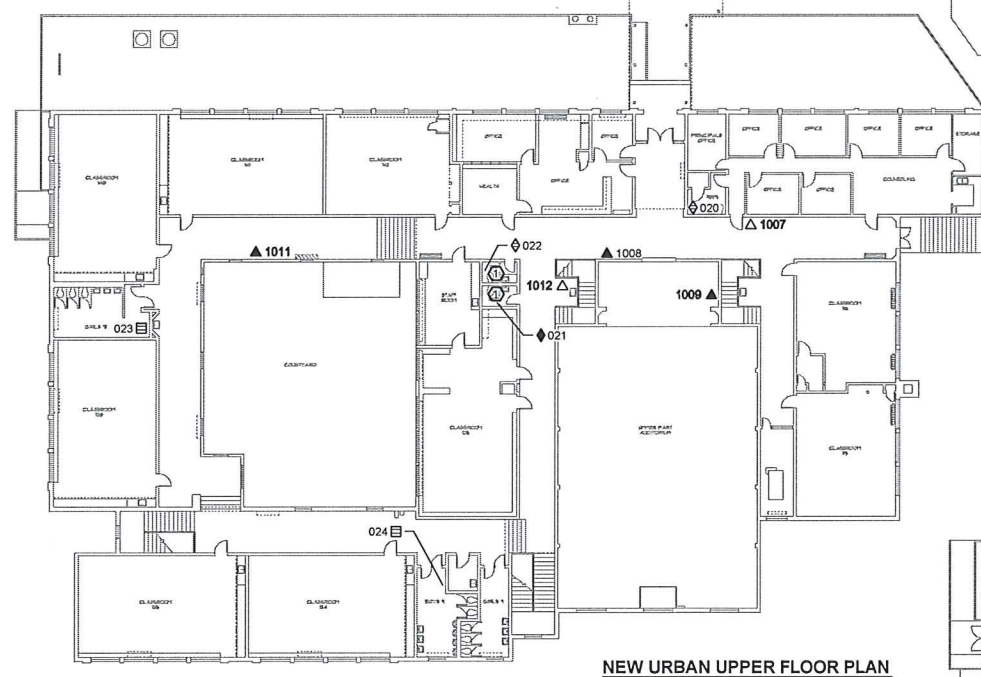
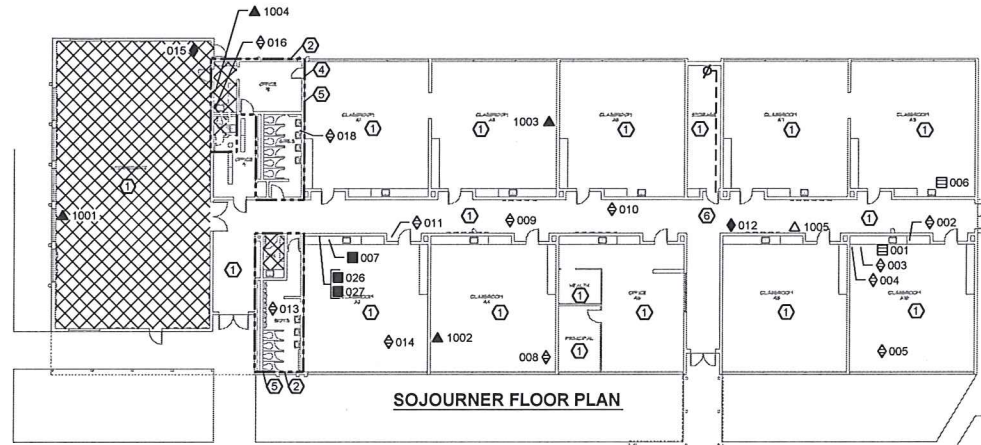
MATERIAL SYMBOL

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

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
001	21078.022-001	(-)	WALL AND CEILING PLASTER
002	21078.022-002	(-)	MASTIC
003	21078.022-003	(-/-)	SHEET FLOOR COVERING
004	21078.022-004	(-/-)	COVEBASE/MASTIC
005	21078.022-005	(-/-)	GLUED-ON CEILING TILES
006	21078.022-006	(-)	WALL AND CEILING PLASTER
007	21078.022-007	(+)	WALL AND CEILING PLASTER
008	21078.022-008	(-/-)	GLUED-ON CEILING TILES
009	21078.022-009	(-/-)	GLUED-ON CEILING TILES
010	21078.022-010	(-)	GYPSUM WALLBOARD/JOINT COMPOUND
011	21078.022-011	(-)	GYPSUM WALLBOARD/JOINT COMPOUND
012	21078.022-012	(+/-)	GYPSUM WALLBOARD/JOINT COMPOUND
013	21078.022-013	(-)	STAPLED-ON CEILING TILE

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
014	21078.022-014	(-)	STAPLED-ON CEILING TILE
015	21078.022-015	(+/-)	VINYL FLOOR TILE/MASTIC
016	21078.022-016	(-/-)	MISC
017	21078.022-017	(+/-)	AIR CELL PIPE INSULATION
018	21078.022-018	(-/-/-)	MISC
019	21078.022-019	(+)	MASTIC
020	21078.022-020	(-)	GYPSUM AND PLASTER
021	21078.022-021	(+/-)	GYPSUM WALLBOARD/JOINT COMPOUND
022	21078.022-022	(-)	MASTIC
023	21078.022-023	(-)	WALL AND CEILING PLASTER
024	21078.022-024	(-/-)	WALL AND CEILING PLASTER
025	21078.022-025	(-)	WALL AND CEILING PLASTER
026	21078.022-026	(+)	WALL AND CEILING PLASTER
027	21078.022-027	(+)	WALL AND CEILING PLASTER



LEAD SAMPLE SYMBOLS

0007 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	21078.022-1001	795 PPM	SOJOURNER ELEMENTARY; MULTIPURPOSE ROOM, WALL, PLASTER, YELLOW
▲ 1002	21078.022-1002	900 PPM	SOJOURNER ELEMENTARY; FLOW ROOM, WALL, PLASTER, WHITE
▲ 1003	21078.022-1003	2680 PPM	SOJOURNER ELEMENTARY; MUSIC ROOM, WALL, PLASTER, WHITE
▲ 1004	21078.022-1004	1280 PPM	SOJOURNER ELEMENTARY; KITCHENETTE, WALL, PLASTER, WHITE
△ 1005	21078.022-1005	<97.6 PPM	SOJOURNER ELEMENTARY; HALLWAY, WALL, PLASTER, WHITE
▲ 1006	21078.022-1006	168 PPM	NEW URBAN HIGH SCHOOL; STORAGE ROOM, WALL, WOOD, LIGHT GREEN
△ 1007	21078.022-1007	<138 PPM	NEW URBAN HIGH SCHOOL; DOOR, WOOD, BROWN
▲ 1008	21078.022-1008	1970 PPM	NEW URBAN HIGH SCHOOL; HALLWAY LUNCH ROOM, WALL, PLASTER, PURPLE
▲ 1009	21078.022-1009	952 PPM	NEW URBAN HIGH SCHOOL; STAGE, WALL, WOOD, BROWN
▲ 1010	21078.022-1010	638 PPM	NEW URBAN HIGH SCHOOL; GYM BLEACHER, WALL, WOOD, BROWN
▲ 1011	21078.022-1011	1250 PPM	NEW URBAN HIGH SCHOOL; HALLWAY UPPER LEVEL, WALL, PLASTER, WHITE
△ 1012	21078.022-1012	<133 PPM	NEW URBAN HIGH SCHOOL; STAIRWAY TO LOWER LEVEL, HANDRAIL, WOOD, BROWN
△ 1013	21078.022-1013	<362 PPM	NEW URBAN HIGH SCHOOL; WINDOW LOWER LEVEL, WINDOW SILL, WOOD, BROWN

PBS
Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239
503.248.1939 Main
503.248.0223 Fax
www.pbsenv.com



NORTH CLACKAMAS SCHOOL DISTRICT
ASBESTOS ABATEMENT OF SIX SCHOOLS
NEW URBAN H.S. AND SOJOURNER ELEM. SCHOOL
1901 / 1905 SE OAK GROVE BOULEVARD, MILWAUKIE, OREGON

BID # 990-10-2800

HAZARDOUS MATERIAL ABATEMENT PLAN

PROJECT: 21078.022 0002
DRAWN: DJ
CHECKED: SD
DATE: MARCH 2010
REVISIONS:

FIGURE: **HM5.0**

SHEET 6 OF 7

GENERAL NOTES

1. THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS. ONLY ACCESSIBLE AREAS AND MATERIALS ANTICIPATED TO BE IMPACTED BY THE RENOVATION WERE SURVEYED.
2. ABATEMENT CONTRACTOR IS TO FIELD VERIFY ALL MATERIALS, LOCATIONS, CONDITIONS, AND QUANTITIES.
3. THIS DRAWING IDENTIFIES ONLY ASBESTOS-CONTAINING MATERIALS THAT REQUIRE ABATEMENT AS PART OF THE 2010 OAK GROVE ELEMENTARY SCHOOL RENOVATION PROJECT. KNOWN ASBESTOS-CONTAINING MATERIALS EXIST IN THIS FACILITY THAT ARE NOT IN THE SCOPE OF THIS ABATEMENT WORK, OR DEPICTED ON THIS DRAWING.
4. QUANTITIES OF ASBESTOS-CONTAINING OR CONTAMINATED MATERIALS IN EXCESS OF THOSE SPECIFIED SHALL NOT BE ABATED AND/OR REMOVED WITHOUT WRITTEN PRIOR CONSENT OF THE DISTRICT AND THE DISTRICTS ENVIRONMENTAL CONSULTANT.

ABATEMENT NOTES

1. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO FIXTURES AND FINISHES AS A RESULT OF ABATEMENT WORK.
2. COORDINATE WITH THE DISTRICT AND GENERAL CONTRACTOR, SCHEDULE, ACCESS, ABATEMENT PHASING, LOCK OUT/TAG OUT PROCEDURES, TEMPORARY FACILITIES, STAGING AREAS, SECURITY AND SAFETY PROTOCOLS.
3. ALL ABATED SURFACES SHALL BE VISUALLY INSPECTED BY THE DISTRICT'S REPRESENTATIVES ON SITE PRIOR TO LOCK DOWN AND CLEARANCES.
4. ABATEMENT CONTRACTOR IS TO PERFORM ALL SOFT DEMOLITION ACTIVITIES TO ACCESS AND ABATE ASBESTOS-CONTAINING MATERIALS WHERE NECESSARY.
5. DO NOT REMOVE METAL OR WOOD BASEBOARD TO ABATE FLOOR TILE AND/OR MASTIC. SAVE AND PROTECT IN PLACE, IF REMOVAL IS NECESSARY, REPLACE IN ITS ORIGINAL LOCATION AFTER ABATEMENT.
6. ALL FLOOR TILE REMOVAL SHALL BE NOTIFIED AS A FRIABLE ASBESTOS-ABATEMENT PROJECT. REFERENCE THE ABATEMENT PROJECT SPECIFICATIONS FOR FRIABLE PREPARATION, NEGATIVE PRESSURE ENCLOSURE, DECONTAMINATION PROCEDURES AND ADDITIONAL INFORMATION.
7. ABATEMENT CONTRACTOR IS TO "BAG" AND PROTECT SMOKE DETECTORS PRIOR TO PREPARATION FOR ABATEMENT. BAGS ARE TO REMAIN IN PLACE UNTIL TEAR DOWN IS COMPLETE.

LEAD PAINT NOTES

1. REPRESENTATIVE SAMPLES OF DIFFERENT COATINGS ON VARIOUS BUILDING COMPONENTS WERE COLLECTED AND TESTED FOR LEAD CONTENT. UNLESS OTHERWISE INDICATED, ALL PAINTED SURFACES SHOULD BE CONSIDERED LEAD-CONTAINING.

ABATEMENT KEY NOTES

1. ASBESTOS-CONTAINING GYPSUM/JOINT COMPOUND WALLS AND CEILINGS ARE PRESENT THROUGHOUT RESTROOMS. LIMITED IMPACTS TO THE WALLS AND/OR CEILINGS ARE ANTICIPATED TO BE REQUIRED. LOCATIONS TO BE IMPACTED ARE TO BE DEFINED BY THE GENERAL CONTRACTOR, THEN IMPACTS ARE TO BE MADE BY THE ABATEMENT CONTRACTOR. UNIT COST WILL APPLY TO THIS WORK.
2. RUBBER COVEBASE ASSOCIATED WITH AREAS OF FLOORING ABATEMENT ARE TO BE REMOVED AS PART OF THE FLOORING ABATEMENT SCOPE OF WORK.
3. WINDOW GLASS AND ASBESTOS-CONTAINING GLAZING TO BE REMOVED AND DISPOSED OF BY THE ABATEMENT CONTRACTOR. WINDOW FRAMES TO BE CLEANED OF ALL GLAZING COMPOUND AND REMAIN INTACT. ABATEMENT CONTRACTOR TO COORDINATE ABATEMENT SCHEDULE WITH GENERAL CONTRACTOR'S WINDOW REPLACEMENT SCHEDULE. WINDOW STOPS TO BE DISPOSED OF AS ASBESTOS-CONTAINING WASTE.
4. ASBESTOS-CONTAINING GYPSUM WALLBOARD SYSTEMS ARE PRESENT IN VARIOUS LOCATIONS OF THE CAFETERIA.

ESTIMATED QUANTITIES OF HAZARDOUS MATERIALS TO BE REMOVED

1. APPROXIMATELY 3,300 SQUARE FEET OF ASBESTOS-CONTAINING FLOOR TILE AND MASTIC.
2. APPROXIMATELY 700 LINEAR FEET OF ASBESTOS-CONTAINING WINDOW GLAZING.

LEGEND

- ASBESTOS-CONTAINING WINDOW GLAZING COMPOUND TO BE REMOVED
- ASBESTOS-CONTAINING FLOOR TILE AND MASTIC TO BE REMOVED

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

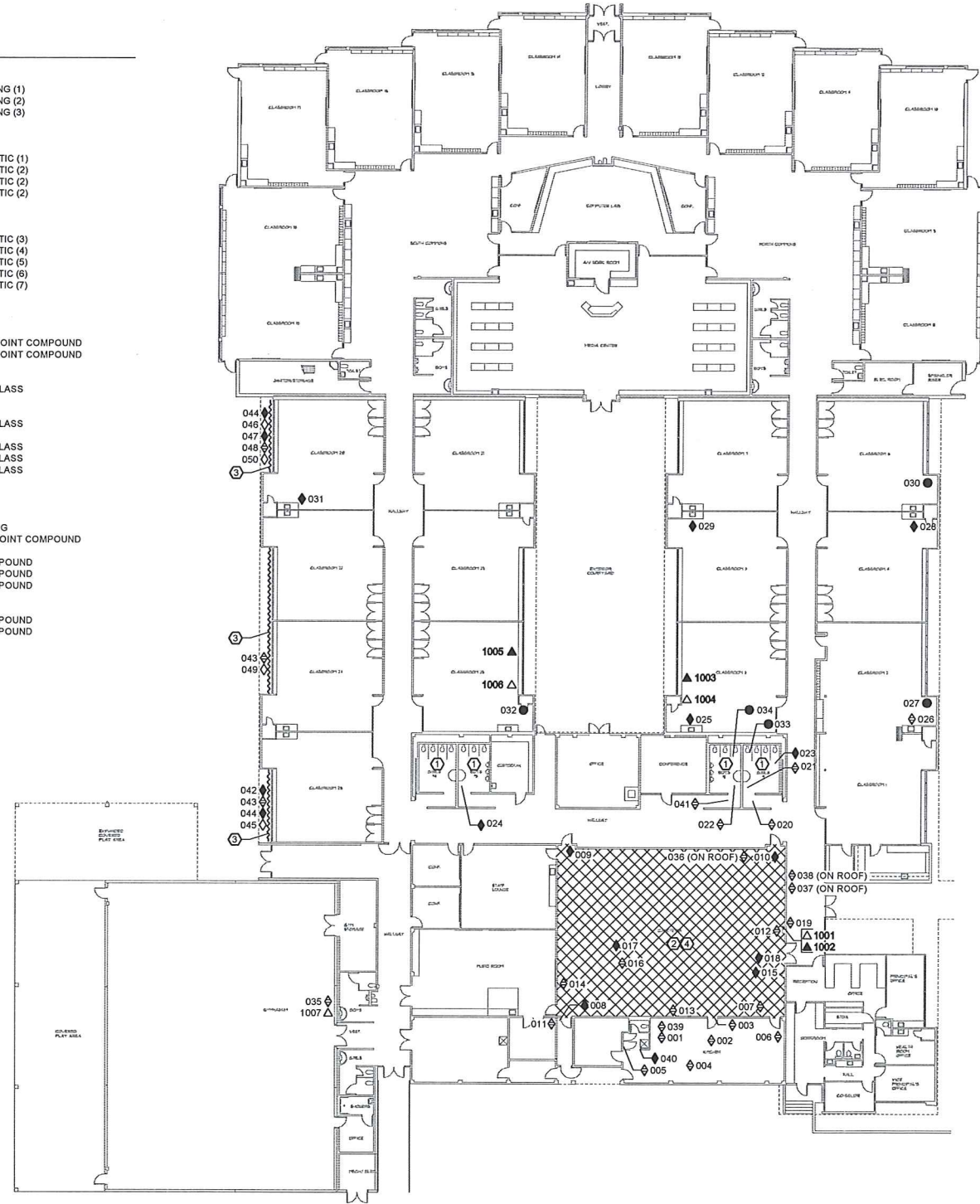
SAMPLE NUMBER	FIELD CODE	LAB RESULT (PPM)	MATERIAL DESCRIPTION
▲ 1001	21078.023-1001	Not Analyzed	CAFETERIA; BLACK, METAL, BASKETBALL HOOP SUPPORT, GOOD CONDITION
▲ 1002	21078.023-1002	512 ppm	NORTH WALL; WHITE, CONCRETE, WALL, GOOD CONDITION
▲ 1003	21078.023-1003	2,220 ppm	ROOM 3; TAN, METAL, HEATER, GOOD CONDITION
▲ 1004	21078.023-1004	<107 ppm	ROOM 3; WHITE, GYPSUM, WALL, GOOD CONDITION
▲ 1005	21078.023-1005	3,320 ppm	ROOM 25; TAN, METAL, HEATER, GOOD CONDITION
▲ 1006	21078.023-1006	<223 ppm	ROOM 25; WHITE, GYPSUM, WALL, GOOD CONDITION
▲ 1007	21078.023-1007	<98.5 ppm	GYMNASIUM; WHITE, CONCRETE, WALL, GOOD CONDITION

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	21078.023-001	(-/-)	SHEET FLOOR COVERING (1)
002	21078.023-002	(-/-)	SHEET FLOOR COVERING (2)
003	21078.023-003	(-/-)	SHEET FLOOR COVERING (3)
004	21078.023-004	(-/-)	COVEBASE/MASTIC
005	21078.023-005	(-/-)	COVEBASE/MASTIC
006	21078.023-006	(-/-)	COVEBASE/MASTIC
007	21078.023-007	(-/-)	VINYL FLOOR TILE/MASTIC (1)
008	21078.023-008	(+/-)	VINYL FLOOR TILE/MASTIC (2)
009	21078.023-009	(+/-)	VINYL FLOOR TILE/MASTIC (2)
010	21078.023-010	(+/-)	VINYL FLOOR TILE/MASTIC (2)
011	21078.023-011	(-/-)	COVEBASE/MASTIC
012	21078.023-012	(-/-)	COVEBASE/MASTIC
013	21078.023-013	(-/-)	COVEBASE/MASTIC
014	21078.023-014	(-/-)	VINYL FLOOR TILE/MASTIC (3)
015	21078.023-015	(+)	VINYL FLOOR TILE/MASTIC (4)
016	21078.023-016	(-)	VINYL FLOOR TILE/MASTIC (5)
017	21078.023-017	(+)	VINYL FLOOR TILE/MASTIC (6)
018	21078.023-018	(+)	VINYL FLOOR TILE/MASTIC (7)
019	21078.023-019	(-)	TEKTUM
020	21078.023-020	(-)	LAY-IN CEILING TILE
021	21078.023-021	(-)	TERRAZZO SINK
022	21078.023-022	(-)	TERRAZZO SINK
023	21078.023-023	(+/-)	GYPSUM WALLBOARD/JOINT COMPOUND
024	21078.023-024	(+/-)	GYPSUM WALLBOARD/JOINT COMPOUND
025	21078.023-025	(+)	SINK UNDERCOATING
026	21078.023-026	(-)	SINK UNDERCOATING
027	21078.023-027	(+)	HARD FITTINGS/FIBERGLASS
028	21078.023-028	(+)	SINK UNDERCOATING
029	21078.023-029	(+)	SINK UNDERCOATING
030	21078.023-030	(+/-)	HARD FITTINGS/FIBERGLASS
031	21078.023-031	(+)	SINK UNDERCOATING
032	21078.023-032	(+/-)	HARD FITTINGS/FIBERGLASS
033	21078.023-033	(+)	HARD FITTINGS/FIBERGLASS
034	21078.023-034	(+/-)	HARD FITTINGS/FIBERGLASS
035	21078.023-035	(-)	PAINT
036	21078.023-036	(-/-/-)	BUILT-UP ROOFING
037	21078.023-037	(-)	SEALANT
038	21078.023-038	(-)	PAINT
039	21078.023-039	(-)	SHEET FLOOR COVERING
040	21078.023-040	(+/-)	GYPSUM WALLBOARD/JOINT COMPOUND
041	21078.023-041	(-)	GROUT
042	21078.023-042	(+)	WINDOW GLAZING COMPOUND
043	21078.023-043	(-)	WINDOW GLAZING COMPOUND
044	21078.023-044	(+)	WINDOW GLAZING COMPOUND
045	21078.023-045	(NT)	SEALANT
046	21078.023-046	(NT)	SEALANT
047	21078.023-047	(+)	WINDOW GLAZING COMPOUND
048	21078.023-048	(-)	WINDOW GLAZING COMPOUND
049	21078.023-049	(NT)	SEALANT
050	21078.023-050	(NT)	SEALANT



FLOOR PLAN

PBS
Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239
503.248.1939 Main
503.248.0223 Fax
www.pbsenv.com



NORTH CLACKAMAS SCHOOL DISTRICT
ASBESTOS ABATEMENT OF SIX SCHOOLS
OAK GROVE ELEMENTARY SCHOOL
2150 SE TORBANK ROAD, MILWAUKIE, OREGON

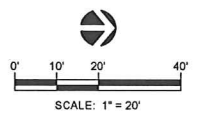
BID # 990-10-2800

HAZARDOUS MATERIAL ABATEMENT PLAN

PROJECT: 21078.023.0002
DRAWN: DJ
CHECKED: CN
DATE: MARCH 2010
REVISIONS: 3/4/10

FIGURE: **HM6.0**

SHEET 7 OF 7



L:\PORTLAND\00000000707_North Clackamas\21078.023_0002_HM6.0.dwg (2/10/2010 2:58pm) Sp:06 2/10/2010 2:58pm (mtd)