

Summarized Inspection and Assessment Results

- PACM Insulation wiring in Electrical base board heaters
- PACM. electrical wiring , gaskets and insulation pads associated with mechanical equipment
- PACM floor tile, sheet-vinyl and mastic unless indicated
- PACM 12”x12” ceiling tiles and 2’x4’ drop ceiling tile
- PACM pipe insulation and mechanical components in walls and ceiling cavities (Chases abated by Homeworks) 10th floor janitor room has ACM on pipe fittings
- PACM undercoating on Unit sinks if coated
- PACM Consider all drywall/joint compound asbestos <1%
- PACM Elevator brakes and elevator door lining
- PACM roofing material and vent seal
- Storage room in community PACM floor tile

Note: Please be aware that even though L&I doe’s not consider results <1% to constitute an asbestos project. WISHA’s work practices requirements as given in WAC 296-62-17712(2) particularly use of wet, non aggressive methods and prompt clean up. Vacuums used must be HEPA filtered. Workers training must include asbestos awareness and hands on training as given in WAC 296-62-07755(5). Respiratory protection must be based on overall dust levels. A competent person must be assigned and trained under the requirements of WAC 296-62-07728.

035- University House Unit Floor Abatement

Please Call Hazmat @ (206) 770-6745 for current list.

Note - All units abated may still have asbestos flooring under the cabinets.

Common Area Floor Abatement

- Common Laundry Room
- Common Rest Rooms
- 1st floor hallway and lobby
- Community Room’s and Kitchen

Note: The possibility exists that additional ACMs may be present in wall and ceiling cavities. Any previously unidentified material encountered during construction activities should be sampled prior to impact. Work that may impact asbestos should only be performed by personnel having proper training and utilizing proper worker protection according to WISHA standards.

Report prepared by:

Terry Fyre



Report reviewed by:

Lorrie lord



AHERA Building Inspector #143697 (Exp. 9-4-14) AHERA Building Inspector #142772 (Exp. 6/19/14)

Seattle Housing Authority, 810 MLK Jr. Way South, Seattle, WA 98144 (206) 770-6745

Definitions:

ACM= Asbestos Containing Material PACM= Presumed Asbestos Containing Material

UND= Undetermined TSI= Thermal System Insulation

1.0 SCOPE OF WORK

Limited Good Faith Asbestos Survey University House

A limited investigative survey for asbestos-containing materials (ACM) was conducted at University House high-rise apartment building located at 4700 12th Ave NE, Seattle, WA 98105.

The purpose of this inspection was to identify asbestos containing materials that would be impacted by Seattle Housing Authority staff for operations repairs, routine maintenance, remodeling, renovation or demolition and for outside construction contractor's.

This inspection was performed by Terry Fyre, an EPA AHERA Certified Building Inspector (Cert # 113444, expires September 13, 2012) and Vincent Scott (Cert # 112478, expires July 5, 2012). Sampling was performed in selected accessible areas in common areas spaces and units. Inaccessible areas are defined as those requiring demolition such as chases in wall and ceiling cavities, fall protection or confined space entry protocol to gain access.

The asbestos survey section is written to comply with the AHERA asbestos sampling procedures as stated in 40 CFR 763.86. This protocol is required under the Puget Sound Clean Air Agency (PSCAA Regulation III, Article IV, rev. July 13, 2000) for all asbestos surveys prior to a building demolition.

The asbestos survey also satisfies the "good faith" asbestos inspection requirements as stated in Washington Administrative Code (WAC 296-62-077221(2), "identification"). As stated in this regulation, the owner of a structure scheduled to be renovated/demolished must provide a contractor with a written report of the Asbestos-Containing Materials to be disturbed during renovation/demolition.

The National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 61 requires a survey by an accredited asbestos inspector prior to demolition of a structure.

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2.0 SURVEY METHOD

Asbestos Survey Method

A walk-through inspection of all accessible areas of this structure was performed to identify potential asbestos-containing materials. The walk-through inspection included a review of the internal and external aspects of this structure. Prior to walk-through inspection, all asbestos sampling results and abatement records available were reviewed and noted.

Suspected asbestos-containing material was either tested or presumed to be asbestos –containing material. All samples, if taken, were given a unique identification number with sample location and description.

Homogeneous Materials

Homogeneous materials are defined as an area of asbestos-containing material or presumed asbestos-containing material which appears similar throughout in terms of color, texture, and date of material application. The report listing for homogenous materials will appear as follows:

Sample No.	Sample Location	Type of Material	Lab Description In Layers	Asbestos %	Amt.	Friable

Under OSHA Guidelines, a minimum of three negative analyses of a single suspect homogeneous material are required to prove a negative result for surfacing materials and thermal system insulation.

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3.0 LABORATORY INFORMATION

Laboratory Analysis: Asbestos

Samples are analyzed in our laboratory using polarized light microscopy (PLM) with dispersion staining. If samples are not homogeneous, then sub-samples of the components are analyzed separately. All bulk samples are analyzed using EPA Method 600/R-93/116 with the following measurement uncertainties for reported % asbestos (1%=0-3%, 5%≥1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%).

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer: 1, Layer: 2, etc.). The asbestos concentration in the sample is determined by visual estimation.

Laboratory Accreditation

Professional accreditations for NVL Laboratories, Inc. include the following:

NVL Laboratories, Inc. is currently accredited by the National Institute of Standards and Technology (NIST) under the National Volunteer Laboratory Accreditation Program (NVLAP) program for bulk asbestos fiber analysis.

NVLAP Lab Code 102063-0

NVL Laboratories, Inc. is approved by the American Industrial Hygiene Association (AIHA) Asbestos Analysts Registry (AAR) program for airborne asbestos fiber analysis.

AAR Counter ID 7412

NVL Laboratories, Inc. is currently accredited by the American Industrial Hygiene Association (AIHA) under the Industrial Hygiene Laboratory Accreditation Program (IHLAP). The IHLAP program is designed specifically for laboratories involved in analyzing samples to evaluate workplace exposure.

IHLAP Certification Number 563

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4.0 BUILDING DESCRIPTION 035- University House

General Building Type: Built 1971

High-rise apartment complex with 11 Stories and 101 units.

101- 1 Bedroom units. Average unit size 452 SF

Primary External Components:

The exterior of the structure Brick

Type of Foundation: concrete

The roofing is made up: Built up roofing

Window Types: Vinyl

Flooring: Sheet vinyl, 12" floor tile and carpet

Water Heater: 1st floor utility room - Gas

Heat Type: Base board and HVAC system. New HVAC system in Community kitchen storage room

Thermal Systems with Insulation Types:

Locations Homeworks abated pipes in risers. 10th floor Janitor has ACM pipe fittings at ceiling above sink.

Note: The possibility exists that additional ACMs may be present in wall and ceiling cavities. Any previously unidentified material encountered during construction activities should be sampled prior to impact. Work that may impact asbestos should only be performed by personnel having proper training and utilizing proper worker protection according to WISHA standards.

Definitions:

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Limited Good Faith Asbestos Survey

Building Name University House Yr. Built 1971 Sq.Ft. 46,104
Building Address 4700 12th Ave NE, Seattle WA 98105 Floors 11 Units 101 Basement: No

Managers Office:

Locations: 1st floor- Flooring: Carpet; no tile under carpet Ceiling: 2’x4 drop ceiling panels

Walls: Drywall Lighting: Fluorescent Heat: Electric baseboard PACM

- Drywall tested <1%, use safe work practices

Social Service Office: Unit 102:

Locations: 1st floor- Flooring: Carpet, 12”x12” tile/mastic PACM, Sheet vinyl PACM

Ceiling: Concrete Walls: Drywall Lighting: Fluorescent Heat: Electric baseboard PACM

- Drywall tested <1%, use safe work practices

Community Room

Locations: 1st floor- Flooring: 12”x12” tile/mastic non-ACM Ceiling: 12”x12” glued on ceiling tiles and 2’x4’ drop ceiling panels Walls: Drywall Lighting: Fluorescent Heat:

Electric baseboard PACM

Kitchen within Community Room: New sheet vinyl/mastic flooring- non ACM

Storage room in Community room

Flooring 12”x12” tile/mastic PACM Ceiling: Concrete Walls: Drywall, New HVAC unit

- Drywall tested <1%, use safe work practices

Common Area Restrooms: Men’s/Women’s

Locations: 1st floor – Flooring: Sheet vinyl non- ACM Walls/Ceiling: Drywall Lighting: Fluorescent No heat

- Drywall tested <1%, use safe work practices

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Laundry Room:

Locations: 1st Floor Floors: 12” floor tile/mastic and Sheet vinyl/mastic non-ACM Ceiling: Concrete Walls: Concrete and drywall Heat: Electric baseboard Lighting: Fluorescent

- Drywall tested <1%, use safe work practices

Utility Room:

Location: 1st Floor Floor and Ceiling: Concrete Walls: Brick and Block

Hot Water Tank: Gas Fire Door: PACM Lighting: Fluorescent No Heat

Trash Rooms:

Locations: 1st floor Floor and Ceiling: Concrete Walls: concrete and block

Fire Doors: PACM Lighting: Fluorescent No heat

Janitor Room

Location: 1st Floor Floor: Concrete Ceiling: Drywall Walls: Concrete and Block

Hot Water Tank: Gas Lighting: Incandescent No Heat

- Drywall tested <1%, use safe work practices

Hallway/Lobby

Locations: 1st floor Floor: 12” floor tile/mastic non ACM Ceiling: 2’x4’ drop ceiling panels

Walls: concrete and drywall Lighting: Fluorescent Heat: electric baseboard

- Drywall tested <1%, use safe work practices

Hallway’s

Locations: 2nd thru 11th floor Floor: 12” floor tile/mastic PACM Ceiling: 2’x4’ drop

ceiling panels Walls: drywall Lighting: Fluorescent Heat: HVAC

- Drywall tested <1%, use safe work practices

Janitor Room’s

Location: 2nd thru 11th Floor Floor and Ceiling: Concrete Walls: Concrete and Block

Lighting: Incandescent No Heat ACM pipe fittings in 10th floor janitor room only

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Maintenance Room's

Location: 2nd thru 11th Floor - Floor, walls and ceiling: Concrete Lighting: None No Heat

Meter Room's

Location: 2-4-6-8-10 Floors -Floor, walls and ceiling: Concrete Lighting: None No Heat

Fire Doors:

Locations: PACM Stairwells

Elevator Room:

Location: on Roof Walls, floors and ceiling: concrete

Elevator: Doors: PACM Floors: Abated by Hazmat-No ACM

Elevator Brake Pads: PACM

Thermal System Insulation TSI Locations: Chases abated by homeworks

ACM pipe fittings in 10th floor janitor room

Note: The possibility exists that additional ACMs may be present in wall and ceiling cavities. Any previously unidentified material encountered during construction activities should be sampled prior to impact. Work that may impact asbestos should only be performed by personnel having proper training and utilizing proper worker protection according to WISHA standards.

Units

Floors: Tile: PACM Mastic: PACM (Some units abated, see attached list or call Hazmat)

Sheet-vinyl: PACM Mastic: PACM Sink undercoating: PACM

Walls/Ceiling: drywall/joint <1% Brick Block

Lighting: Incandescent Bathroom: Ceramic tile mastic: PACM

Cove base Mastic: Heater Type: Electric baseboard PACM insulation

Inner walls: Pipe fittings abated by homeworks

Exterior: Siding: Masonry X Concrete: X

Drywall/Joint Compound: No Siding Vapor Paper Undetermined

Roof: Built Up: X Mastic Roof Paper/Felt PACM Vents: seal coating PACM

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Asbestos Sample Results

Sample No.	Location	Material Description by layer	Asbestos	Quantity	Friable
101409TFAB01	Unit 901 Bathroom drywall/joint	1. Off white compact powder mat.w/paint 2. Off white chalky mat. w/paper	2%* ND	**	1. Yes 2. No
101409TFAB02	Unit 901 Ceramic tile mastic	1. Clear soft material 2. Off white ceramic tile 3. Tan soft mastic	2%* ND ND	**	1. Yes 2. No 3. No
102908TFAB01	Unit 402 Bathroom drywall/joint	1. White compact powder mat.w/paint 2. Off white compact powder mat.w/paint 3. Off white compact powder mat.w/paper 4. Off white chalky mat. w/paper	ND 2% 2% ND	**	1. No 2. Yes 3. Yes 4. No
072009TFAB01	Unit 502 Bathroom ceiling/joint	Off white chalky mat. w/paper/paint	ND	**	No
060409TFAB01	Unit 608 Bedroom drywall/joint	1. Off white compact powder mat.w/paint 2. Off white compact powder mat.w/paper 3. Off white chalky mat. w/paper	2% 2% ND	**	1. Yes 2. Yes 3. No
012009TFAB02	Unit 610 living rom drywall/joint	Off white chalky mat. w/paper/paint	ND	**	No
070709TFAB01	Unit 801 Bathroom ceiling drywall/joint	White chalky mat. w/white/paint	ND	**	No
121108TFAB13	Unit 705 Bedroom drywall/joint	1. Off white compact powder mat.w/paint 2. Off white chalky mat. w/paper	2% ND	**	1. Yes 2. No

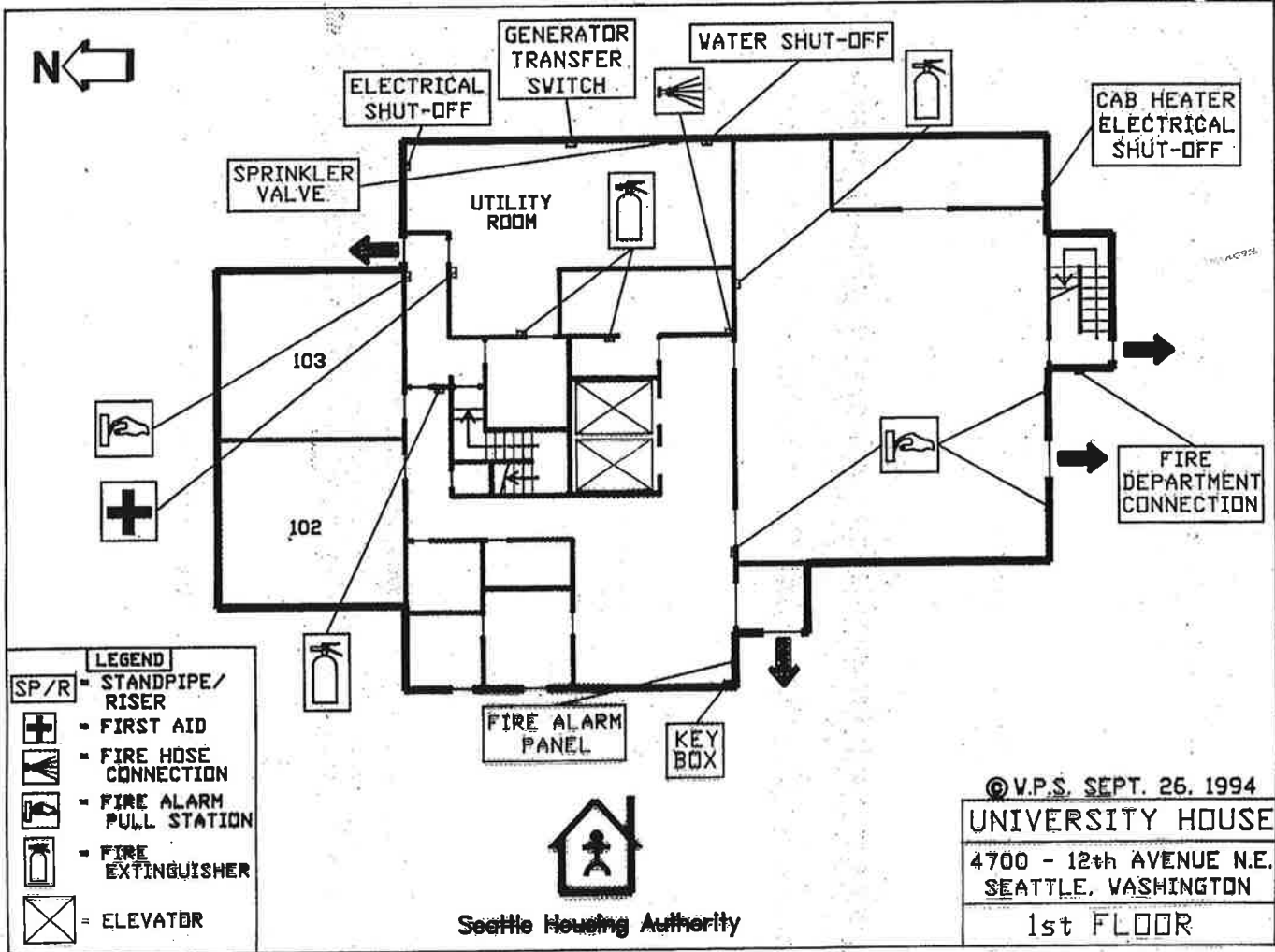
Type of asbestos present in samples identified=Chrysotile
***Composite analysis for the drywall samples were found to be less than 1% asbestos**
****Quantities must be verified by asbestos abatement contractor**

Note: Please be aware that even though L&I doe’s not consider results <1% to constitute an asbestos project. WISHA’s work practices requirements as given in WAC 296-62-17712(2) particularly use of wet, non aggressive methods and prompt clean up. Vacuums used must be HEPA filtered. Workers training must include asbestos awareness and hands on training as given in WAC 296-62-07755(5). Respiratory protection must be based on overall dust levels. A competent person must be assigned and trained under the requirements of WAC 296-62-07728.

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ELECTRICAL SHUT-OFF

GENERATOR TRANSFER SWITCH

WATER SHUT-OFF

CAB HEATER ELECTRICAL SHUT-OFF

SPRINKLER VALVE

UTILITY ROOM

103

102

FIRE DEPARTMENT CONNECTION

FIRE ALARM PANEL

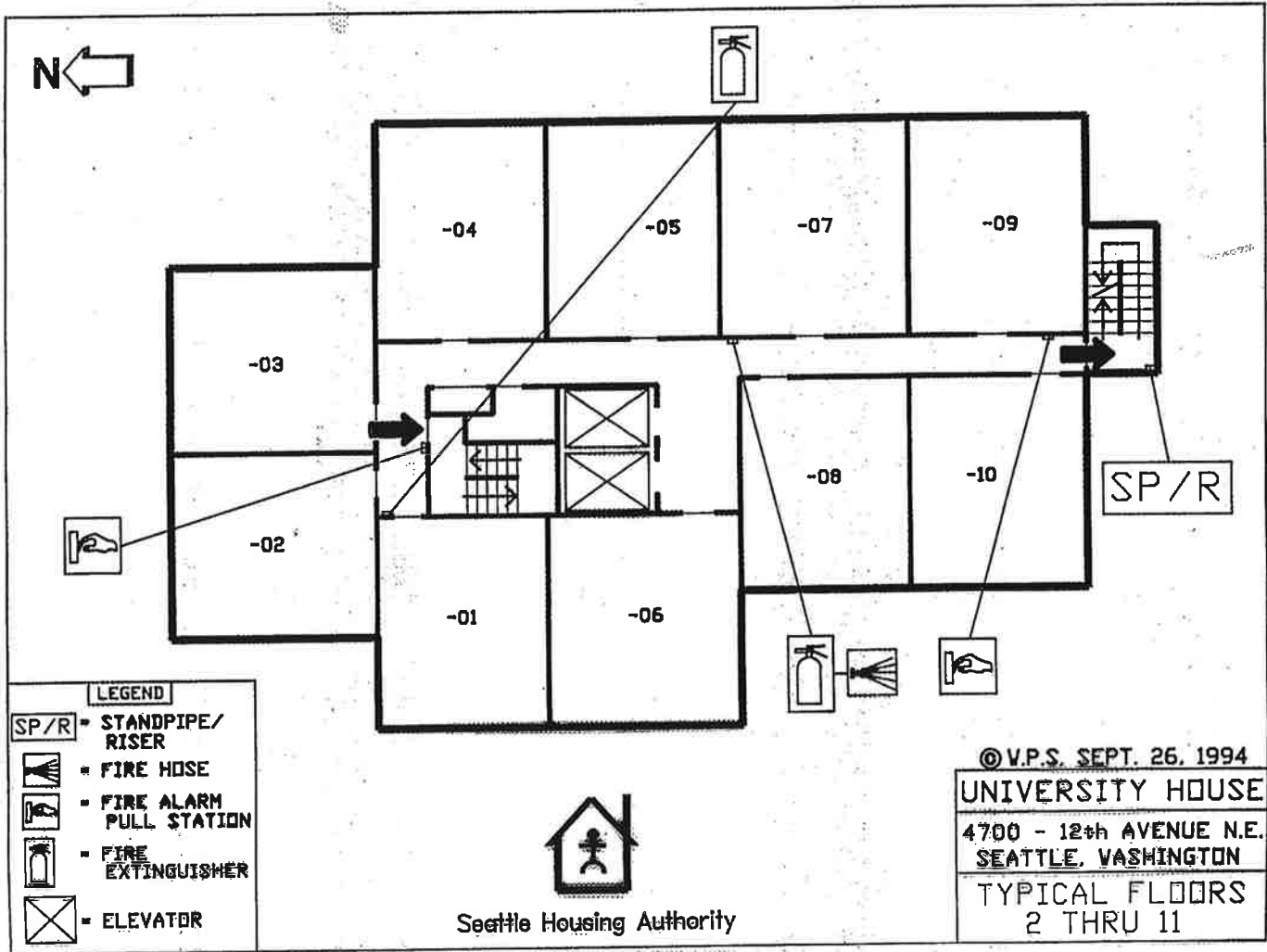
KEY BOX

- LEGEND**
- SP/R - STANDPIPE/RISER
 - ⊕ - FIRST AID
 - 🔧 - FIRE HOSE CONNECTION
 - 👉 - FIRE ALARM PULL STATION
 - 🧯 - FIRE EXTINGUISHER
 - ⊠ - ELEVATOR



Seattle Housing Authority

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 UNIVERSITY HOUSE
 4700 - 12th AVENUE N.E.
 SEATTLE, WASHINGTON
 1st FLOOR



December 12, 2008

Terry Fyre
Seattle Housing Authority
7500 Detroit Ave. SW
Seattle, WA 98126



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2815471.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nick Ly', written over a white background.

Nick Ly, Technical Director

NVLAP Lab Code 102063-0

Enc.: Sample Results



NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Cell: 206.914.4646
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN OF CUSTODY SAMPLE LOG

BATCH ID
2815471.00

Client Seattle Housing Authority
 Street 7500 Detroit Ave. SW
Seattle, WA 98126
 Project Manager Mr. Terry Fyre
 Project Location 035-705
4700 12th NE.

NVL Batch Number _____
 Client Job Number 753760D
 Total Samples 1
 Turn Around Time 1-Hr 8-Hrs 2 Days 5 Days
 2-Hrs 12-Hrs 3 Days 6-10 Day
 4-Hrs 24-Hrs 4 Days
 Please call for TAT less than 24 Hrs

Phone: (206) 716-1310 Fax: (206) 767-4350

Email address _____
 Cell: (206) 786-8578

Asbestos Air PCM (NIOSH 7400) TEM (NIOSH 7402) TEM (AHERA) TEM (EPA Level II) Other

Asbestos Bulk PLM (EPA/600/R-93/116) PLM (EPA Point Count) PLM (EPA Gravimetry) TEM BULK

Mold/Fungus Mold Air Mold Bulk Rotometer Calibration

METALS <input type="checkbox"/> Total Metals <input type="checkbox"/> TCLP <input type="checkbox"/> Cr 6	Det. Limit <input type="checkbox"/> FAA (ppm) <input type="checkbox"/> ICP (ppm) <input type="checkbox"/> GFAA (pp)	Matrix <input type="checkbox"/> Air Filter <input type="checkbox"/> Soil <input type="checkbox"/> Drinking water <input type="checkbox"/> Paint Chips in % <input type="checkbox"/> Dust/wipe (Area) <input type="checkbox"/> Paint Chips in cn	RCRA Metals <input type="checkbox"/> Arsenic (As) <input type="checkbox"/> Chromium (Cr) <input type="checkbox"/> Barium (Ba) <input type="checkbox"/> Lead (Pb) <input type="checkbox"/> Cadmium (Cd) <input type="checkbox"/> Mercury (Hg)	Other Metals <input type="checkbox"/> All 3 <input type="checkbox"/> Copper (Cu) <input type="checkbox"/> Nickel (Ni) <input type="checkbox"/> Zinc (Zn)
	<input type="checkbox"/> Other Types of Analysis <input type="checkbox"/> Fiberglass <input type="checkbox"/> Silica <input type="checkbox"/> Nuisance Dust <input type="checkbox"/> Respirable Dust <input type="checkbox"/> Other (Specify) _____			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		<u>121108TFA313</u>	<u>Drywall Joint Bedroom</u>	<u><1%</u>
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	<u>Terry Fyre</u>	<u>[Signature]</u>	<u>SHA</u>	<u>12/11/08</u>	<u>12:00 P.M.</u>
Relinquished by	<u>Terry Fyre</u>	<u>[Signature]</u>	<u>SHA</u>	<u>12/11/08</u>	<u>1:05 P.M.</u>
Received by	<u>Kiondra Austue</u>	<u>[Signature]</u>	<u>NVL</u>	<u>12/11/08</u>	<u>1305</u>
Analyzed by	<u>L. Veh</u>	<u>[Signature]</u>	<u>NVL</u>	<u>12.12.08</u>	<u>06:41</u>
Results called by	<u>Kiondra Austue</u>	<u>[Signature]</u>	<u>NVL LABS</u>	<u>12/12/08</u>	<u>11:51</u>
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

PLEASE EMAIL RESULTS TO Terry Fyre & Louisa Harris.

* Composite Analyze Sample. If results are > 1070 Point Count

THANK YOU!

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Seattle Housing Authority
Address: 7500 Detroit Ave. SW
Seattle, WA 98126

Batch #: 2815471.00

Client Project #: 75376 OD
Date Received: 12/11/2008
Samples Received: 1
Samples Analyzed: 1
Method: EPA/600R-93/116

Attention: Mr. Terry Fyre

Project Location: 035-705 4700 12th N.E.

Lab ID: 28097575 Client Sample #: 121108TFAB13

Location: 035-705 4700 12th N.E.

Comments: Composite result for whole sample is less than 1% asbestos

Layer 1 of 2	Description: Off-white compacted powdery material with paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
		Binder/Filler, Calcareous particles, Paint	None Detected ND		Chrysotile 2%
Layer 2 of 2	Description: Off-white chalky material with paper	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
		Gypsum/Binder	Cellulose 14%		None Detected ND
			Glass fibers 1%		

Sampled by: Client

Analyzed by: Lyudmila Veh

Date: 12/12/2008

Reviewed by: Nick Ly

Date: 12/12/2008

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

July 8, 2009

Terry Fyre
Seattle Housing Authority
3803 S Willow St.
Seattle, WA 98118



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2907533.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.



For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

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Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read "Nick Ty".

Nick Ty, Technical Director

NVL LABORATORIES, INC
4708 AURORA AVE N
SEATTLE, WA 98103.6516
TEL 206.547.0100
FAX 206.634.1936
nvlabs@nvlabs.com

NVLAP Lab Code 102063-0

Enc.: Sample Results

www.nvlabs.com
1.888.NVL.LABS (685.5227)

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg.Cell: 206.914.4646
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**

BATCH ID
2907533.00

Client Seattle Housing Authority
 Street 3803 S Willow St.
Seattle, WA 98118
 Project Manager Mr. Terry Fyre
 Project Location 035-801
4700 12th NE

NVL Batch Number _____
 Client Job Number 802094 OD
 Total Samples /
 Turn Around Time 1-Hr 8-Hrs 2 Days 5 Days
 2-Hrs 12-Hrs 3 Days 6-10 Day
 4-Hrs 24-Hrs 4 Days
 Please call for TAT less than 24 Hrs
 Email address tfyre@seattlehousing.org

Phone: (206) 722-2548 Fax: (206) 722-8214 Cell: (206) 786-8578

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM BULK	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Det. Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Copper (Cu)
<input type="checkbox"/> Cr 6	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> Nickel (Ni)
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Silica	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Respirable Dust	<input type="checkbox"/> Other (Specify) _____

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		<u>010104TRAB01</u>	<u>DRYWALL JOINT BATHROOM CEILING</u>	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	<u>TERRY FYRE</u>	<u>[Signature]</u>	<u>SHA</u>	<u>7/1/09</u>	<u>12:50 P.M.</u>
Relinquished by	<u>TERRY FYRE</u>	<u>[Signature]</u>	<u>SHA</u>	<u>7/1/09</u>	<u>1:15 P.M.</u>
Received by	<u>FUGO A</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>7/7/09</u>	<u>1:15</u>
Analyzed by	<u>JILL BRYSANZNIK</u>	<u>[Signature]</u>	<u>NVL</u>	<u>7/8/09</u>	<u>11:42 A.M.</u>
Results Called by	<u>IRENE SPARZ</u>	<u>[Signature]</u>	<u>NVL</u>	<u>7/10/09</u>	<u>12:55</u>
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
 E-mail results to Terry Fyre and CC to Lorrie Harris.

**COMPOSITE ANALYZE SAMPLE. IF RESULTS ARE > 1% POINT COUNT (5 DAY), THANK YOU!*

NVL Laboratories, Inc.



4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Seattle Housing Authority
Address: 3803 S Willow St.
Seattle, WA 98118

Batch #: 2907533.00
Client Project #: 802094 OD
Date Received: 07/07/2009
Samples Received: 1
Samples Analyzed: 1
Method: EPA/600R-93/116

Attention: Mr. Terry Fyre

Project Location: 035-801 4700 12th N.E

Lab ID: 29056383 Client Sample #: 070709TFAB01

Location: 035-801 4700 12th N.E

Layer 1 of 1 Description: White chalky material with white paint

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Gypsum/Binder, Paint	Cellulose 19%	None Detected ND
	Glass fibers 2%	

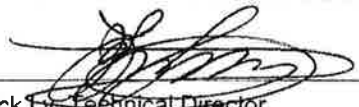
Sampled by: Client

Analyzed by: Alla Pryszazhnyuk

Reviewed by: Nick Ly

Date: 07/08/2009

Date: 07/08/2009


Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

October 14, 2009

Terry Fyre
Seattle Housing Authority
3803 S Willow St.
Seattle, WA 98118



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2912253.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.



For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nick Ly', written over a white background.

Nick Ly, Technical Director

NVL LABORATORIES, INC
4708 AURORA AVE N
SEATTLE, WA 98103.6516
TEL 206.547.0100
FAX 206.634.1936
nvlabs@nvlabs.com

NVLAP Lab Code 102063-0

Enc.: Sample Results

www.nvlabs.com
1.888.NVL.LABS (685.5227)

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Cell: 206.914.4646
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**

BATCH ID
2912253.00

Client Seattle Housing Authority
 Street 3803 S Willow St.
Seattle, WA 98118
 Project Manager Mr. Terry Fyre
 Project Location 335-901
4700 12th Ave. NE

NVL Batch Number _____
 Client Job Number 802094 OD
 Total Samples 2
 Turn Around Time 1-Hr 8-Hrs 2 Days 5 Days
 2-Hrs 12-Hrs 3 Days 6-10 Day
 4-Hrs 24-Hrs 4 Days
 Please call for TAT less than 24 Hrs
 Email address tfyre@seattlehousing.org
 Cell: (206) 786-8578

Phone: (206) 722-2641 Fax: (206) 722-2814

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM BULK	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Det. Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Copper (Cu)
<input type="checkbox"/> Cr 6	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> Nickel (Ni)
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Silica	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Respirable Dust	<input type="checkbox"/> Other (Specify) _____

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		101449TFA3C1	DEPOSIT TILE BATHROOM	
2		101449TFA3C2	CERAMIC TILE Mastic BATHROOM	
3			NOT HOT wallboard < 1%	
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Terry Fyre	[Signature]	S/A	10/14/09	11:30 A.M.
Relinquished by	Terry Fyre	[Signature]	S/A	10/14/09	1:25 P.M.
Received by	Lorraine Harris	[Signature]	NVL	10/14/09	1:30
Analyzed by	Nadia	[Signature]	NVL	10/14/09	4:00 PM
Results Called by	Fred A	[Signature]	NVL	10/15/09	1:35
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
 E-mail results to Terry Fyre and CC to Lorrie Harris.

*Composite Average Sample #1. If Results Are < 1% Paint (cont (5 Day)
 Thank you!

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Seattle Housing Authority
 Address: 3803 S Willow St.
 Seattle, WA 98118

Batch #: 2912253.00
 Client Project #: 802094 OD
 Date Received: 10/14/2009
 Samples Received: 2
 Samples Analyzed: 2
 Method: EPA/600R-93/116

Attention: Mr. Terry Fyre
 Project Location: 035-901
 4700 12th Ave N.E

Lab ID: 29090773 Client Sample #: 101409TFAB01

Location: 035-901

Comments: Composite result for whole sample is less than 1% asbestos

Layer 1 of 2	Description: Off-white compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Calcareous particles, Binder/Filler, Paint	None Detected ND	Chrysotile 2%	
Layer 2 of 2	Description: Off-white chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Fine particles, Gypsum/Binder, Mica	Cellulose 23%	None Detected ND	
		Glass fibers 3%		

Lab ID: 29090774 Client Sample #: 101409TFAB02

Location: 035-901

Layer 1 of 4	Description: Clear soft material			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Binder/Filler	None Detected ND	None Detected ND	
Layer 2 of 4	Description: Off-white ceramic tile with beige surface			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Fine particles, Ceramic/Binder	None Detected ND	None Detected ND	
Layer 3 of 4	Description: Tan soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Mastic/Binder	None Detected ND	None Detected ND	
Layer 4 of 4	Description: Off-white compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Calcareous particles, Binder/Filler, Paint	None Detected ND	Chrysotile 2%	

Wallboard

Sampled by: Client

Analyzed by: Nadezhda Prysazhnyuk

Reviewed by: Nick Ly

Date: 10/14/2009

Date: 10/14/2009

[Signature]
 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

October 31, 2008

Terry Fyre
Seattle Housing Authority
7500 Detroit Ave. SW
Seattle, WA 98126



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2813814.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read "Nick Ly".

Nick Ly, Technical Director

NVLAP Lab Code 102063-0

Enc.: Sample Results



NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103

Tel: 206.547.0100 Emerg.Cell: 206.914.4646

Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
SAMPLE LOG**

BATCH ID

2813814.00

035

Client Seattle Housing Authority

NVL Batch Number _____

Street 7500 Detroit Ave. SW

Client Job Number 75376 OD

Seattle, WA 98126

Total Samples 1

Project Manager Mr. Terry Fyre

Turn Around Time 1-Hr 8-Hrs 2 Days 5 Days

Project Location 035-402

2-Hrs 12-Hrs 3 Days 6-10 Day

4700 12th N.E.

4-Hrs 24-Hrs 4 Days

Please call for TAT less than 24 Hrs

Email address tfyre@seattlehousing.org

Phone: (206) 510-9141 Fax: (206) 767-4350

Cell: (206) 786-8578

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM BULK	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Det. Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Copper (Cu)
<input type="checkbox"/> Cr 6	<input type="checkbox"/> GFAA (pp)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> Nickel (Ni)
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Silica	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Respirable Dust	<input type="checkbox"/> Other (Specify) _____

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		102908TFAB01	BATHROOM DRYWALL JOINT	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

< 1%

	Print Below	Sign Below	Company	Date	Time
Sampled by	Terry Fyre	[Signature]	SHA	10/29/08	11:00 A.M.
Relinquished by	Terry Fyre	[Signature]	SHA	10/30/08	1:10 P.M.
Received by	Kiandra Austrie	[Signature]	NVL	10.30.08	1:10
Analyzed by	L. Vek	[Signature]	NVL	10.31.08	07:25
Results called by	Kiandra Austrie	[Signature]	NVL	10-31-08	1:03
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

E-mail results to Terry Fyre and CC to Lorrie Harris.

* COMPOSITE ANALYZE SAMPLE * IF RESULTS ARE 71% POINT COUNT.
THANK YOU!

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Seattle Housing Authority
Address: 7500 Detroit Ave. SW
Seattle, WA 98126

Batch #: 2813814.00
Client Project #: 75376 OD
Date Received: 10/30/2008
Samples Received: 1
Samples Analyzed: 1
Method: EPA/600R-93/116

Attention: Mr. Terry Fyre
Project Location: 035-402 4700 12th N.E.

Lab ID: 28087759 Client Sample #: 102908TFAB01

Location: 035-402 4700 12th N.E.

Comments: Composite result for Layer 2,3 & Layer 4 equals less than 1% asbestos

Layer 1 of 4	Description: White compacted powdery material with paint	Non-Fibrous Materials: Binder/Filler, Perlite, Paint	Other Fibrous Materials:% None Detected ND	Asbestos Type: % None Detected ND
Layer 2 of 4	Description: Off-white compacted powdery material with paint	Non-Fibrous Materials: Binder/Filler, Calcareous particles, Paint	Other Fibrous Materials:% None Detected ND	Asbestos Type: % Chrysotile 2%
Layer 3 of 4	Description: Off-white compacted powdery material with paper	Non-Fibrous Materials: Binder/Filler, Calcareous particles	Other Fibrous Materials:% Cellulose 38%	Asbestos Type: % Chrysotile 2%
Layer 4 of 4	Description: Off-white chalky material with paper	Non-Fibrous Materials: Gypsum/Binder	Other Fibrous Materials:% Cellulose 32% Glass fibers <1%	Asbestos Type: % None Detected ND

Sampled by: Client

Analyzed by: Lyudmila Veh

Date: 10/31/2008

Reviewed by: Nick Ly

Date: 10/31/2008

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

July 20, 2009

Terry Fyre
Seattle Housing Authority
3803 S Willow St.
Seattle, WA 98118



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2908108.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.



For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

NVL LABORATORIES, INC
4708 AURORA AVE N
SEATTLE, WA 98103.6516
TEL 206.547.0100
FAX 206.634.1936
nvlabs@nvlabs.com

NVLAP Lab Code 102063-0

Enc.: Sample Results

www.nvlabs.com
1.888.NVL.LABS (695.5227)

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Cell: 206.914.4646
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**



BATCH ID
2908108.00

Client Seattle Housing Authority
 Street 3803 S Willow St.
Seattle, WA 98118
 Project Manager Mr. Terry Fyre
 Project Location 035-507
4700 12th NE.

NVL Batch Number _____
 Client Job Number 802094 OD
 Total Samples 1
 Turn Around Time 1-Hr 8-Hrs 2 Days 5 Days
 2-Hrs 12-Hrs 3 Days 6-10 Day
 4-Hrs 24-Hrs 4 Days
 Please call for TAT less than 24 Hrs
 Email address tfyre@seattlehousing.org
 Phone: (206) 722-2548 Fax: (206) 722-2814 Cell: (206) 786-8578

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM BULK	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Det. Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Copper (Cu)
<input type="checkbox"/> Cr 6	<input type="checkbox"/> GFAA (ppl)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> Nickel (Ni)
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Silica	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Respirable Dust	<input type="checkbox"/> Other (Specify) _____

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		071009TBA01	DRYWALL JOINT BATHROOM CEILING	ND
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Terry Fyre	[Signature]	SHA	7/20/09	1:55 P.M.
Relinquished by	Terry Fyre	[Signature]	SHA	7/20/09	2:15 P.M.
Received by	ERENA SPARZ	[Signature]	NLU	7/20/09	14115
Analyzed by	Nadia	[Signature]	NVL	7/20/09	3:05PM
Results Called by	[Signature]	[Signature]	NLU	7/20/09	1607

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
 E-mail results to Terry Fyre and CC to Lorrie Harris.

* COMPOSITE ANALYZE SAMPLE. IF RESINS ARE > 1% POINT COUNT (5 DAY)
 THANK YOU!

June 4, 2009

Terry Fyre
Seattle Housing Authority
3803 S Willow St.
Seattle, WA 98118



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2906091.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.



For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read "Nick Ly".

Nick Ly, Technical Director

NVL LABORATORIES, INC
4708 AURORA AVE N
SEATTLE, WA 98103.6516
TEL 206.547.0100
FAX 206.634.1936
nvliabs@nvlabs.com

NVLAP Lab Code 102063-0

Enc.: Sample Results

www.nvlabs.com
1.888.NVL.LABS (865.5227)

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg.Cell: 206.914.4646
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**

BATCH ID
2906091.00

Client Seattle Housing Authority
 Street 3803 S Willow St.
Seattle, WA 98118
 Project Manager Mr. Terry Fyre
 Project Location 035-118
4708 11th Ave

NVL Batch Number _____
 Client Job Number 802094 OD
 Total Samples 1
 Turn Around Time 1-Hr 8-Hrs 2 Days 5 Days
 2-Hrs 12-Hrs 3 Days 6-10 Day
 4-Hrs 24-Hrs 4 Days
 Please call for TAT less than 24 Hrs
 Email address tfyre@seattlehousing.org
 Phone: (206) 722-2548 Fax: (206) 722-8214 Cell: (206) 786-8578

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM BULK	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Det. Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Copper (Cu)
<input type="checkbox"/> Cr 6	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> Nickel (Ni)
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Silica	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Respirable Dust	<input type="checkbox"/> Other (Specify) _____

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		0641977631	Drywall Joint Between Wall Door To Bedroom 2/9/09	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Terry Fyre	[Signature]	NVL	6/4/09	10:45 A.M.
Relinquished by	Terry Fyre	[Signature]	NVL	6/4/09	11:15 A.M.
Received by	Greta Spear	[Signature]	NVL	6/4/09	11:15
Analyzed by	Nadia	[Signature]	NVL	6/4/09	2:50 PM
Results Called by	Greta Spear	[Signature]	NVL	6/5/09	9:50
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
 E-mail results to Terry Fyre and CC to Lorrie Harris.

**Elemental Analysis Sample of Resins and 2 PLM Point Count (5 Day),
 Thank you!*

NVL Laboratories, Inc.



4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Seattle Housing Authority
Address: 3803 S Willow St.
Seattle, WA 98118

Batch #: 2906091.00

Client Project #: 802094 OD

Date Received: 06/04/2009

Samples Received: 1

Samples Analyzed: 1

Method: EPA/600R-93/116

Attention: Mr. Terry Fyre

Project Location: 035-608
4700 12th N.E.

Lab ID: 29047335 Client Sample #: 060409TFAB01

Location: 035-608

Comments: Composite result for whole sample is less than 1% asbestos

Layer	Description	Non-Fibrous Materials	Other Fibrous Materials	Asbestos Type
Layer 1 of 3	Off-white compacted powdery material with paint	Calcereous particles, Binder/Filler, Paint	None Detected ND	Chrysotile 2%
Layer 2 of 3	Off-white compacted powdery material with paper	Calcereous particles, Binder/Filler	Cellulose 40%	Chrysotile 2%
Layer 3 of 3	Off-white chalky material with paper	Fine particles, Gypsum/Binder	Cellulose 25% Glass fibers 3%	None Detected ND

Sampled by: Client

Analyzed by: Nadezhda Prisyazhnyuk

Date: 06/04/2009

Reviewed by: Nick Ly

Date: 06/04/2009

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

January 21, 2009

Terry Fyre
Seattle Housing Authority
3803 S Willow St.
Seattle, WA 98118



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2900709.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.



For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,



Nick Ly, Technical Director

NVL LABORATORIES, INC
4708 AURORA AVE N
SEATTLE, WA 98103.6516
TEL 206.547.0100
FAX 206.634.1936
nvlabs@nvlabs.com

NVLAP Lab Code 102063-0

Enc.: Sample Results

www.nvlabs.com
1.888.NVL.LABS (695.5227)

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg.Cell: 206.914.4646
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**

BATCH ID
2900709.00

Client Seattle Housing Authority
 Street 3803 S Willow St.
Seattle, WA 98118
 Project Manager Mr. Terry Fyre
 Project Location 035-610

NVL Batch Number _____
 Client Job Number 8014930 OD
 Total Samples 1
 Turn Around Time 1-Hr 8-Hrs 2 Days 5 Days
 2-Hrs 12-Hrs 3 Days 6-10 Day
 4-Hrs 24-Hrs 4 Days
 Please call for TAT less than 24 Hrs
 Email address tfyre@seattlehousing.org
 Cell: (206) 786-8578

Phone: (206) 722-2814 Fax: () -

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/800/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM BULK	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Det. Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter <input type="checkbox"/> Soil	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water <input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Copper (Cu)
<input type="checkbox"/> Cr 6	<input type="checkbox"/> GFAA (ppl)	<input type="checkbox"/> Dust/wipe (Area) <input type="checkbox"/> Paint Chips in cn	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> Nickel (Ni)
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Silica	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Respirable Dust	<input type="checkbox"/> Other (Specify) _____

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		<u>012009TEAB02</u>	<u>Drywall Living Room Adjacent To Heaven</u>	<u>ND</u>
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	<u>Terry Fyre</u>	<u>[Signature]</u>	<u>SHA</u>	<u>1/20/09</u>	<u>10:15 A.M.</u>
Relinquished by	<u>Terry Fyre</u>	<u>[Signature]</u>	<u>SHA</u>	<u>1/20/09</u>	<u>1:25 P.M.</u>
Received by	<u>Brian Vogel</u>	<u>[Signature]</u>	<u>NVL</u>	<u>01/20/09</u>	<u>13:30</u>
Analyzed by	<u>[Signature]</u>	<u>[Signature]</u>	<u>NVL</u>	<u>01/21/09</u>	<u>07:04</u>
Results Called by	<u>Brian Vogel</u>	<u>[Signature]</u>	<u>NVL</u>	<u>01/21/09</u>	<u>12:10</u>
Results Faxed by					


Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
 E-mail results to Terry Fyre and CC to Lorrie Harris.

**Composite Analyze Sample. If results are 710% point count (5 pings) thana you!*

Seattle, WA 98119
206.285.3373



This certifies that
Lorrie T. Lord
has satisfactorily completed
4 hours of refresher training as an
Asbestos Building Inspector
complies with TSCA Title II / 40 CFR 763 (AHERA)


Instructor
EPA Provider Cert. Number 1085

Cert. Num: 142772
Class Date: Jun 19, 2013
Expires: Jun 19, 2014

Certificate of Completion

This is to certify that

Lorrie T. Lord

has satisfactorily completed
4 hours of refresher training as an

Asbestos Building Inspector

to comply with the training requirements of
TSCA Title II / 40 CFR 763 (AHERA)

142772

Certificate Number


Instructor

EPA Provider Cert. Number: 1085



Jun 19, 2013

Date(s) of Training

Exam Score: NA

Expiration Date: Jun 19, 2014

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • 206.285.3373 • fax 206.285.3927

Certificate of Completion

This is to certify that

Terry A. Fyre

has satisfactorily completed
4 hours of refresher training as an

Asbestos Building Inspector

to comply with the training requirements of
TSCA Title II / 40 CFR 763 (AHERA)

113444

Certificate Number



Instructor

EPA Provider Cert. Number: 1085



Sep 14, 2011

Date(s) of Training

Exam Score: NA

Expiration Date: Sep 13, 2012

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • 206.285.3373 • Fax 206.285.3927