

CAPITAL CONSTRUCTION DEPARTMENT 700 ANDOVER PARK WEST TUKWILA, WA 98188

CC	NSTRUCT	ION	ADDENDUM:		2	
2/25/	2025					
PRO	DJECT NAME:	Mun	o Manor Fire Alarr	n System F	Replaceme	ent
PRO	JECT MANAG	ER:	Amy Kurtz			
PHONE NUMBER: 206-574-1283 EMAIL ADDRESS: AmyK@kcha.org						
This Follo		used	to Identify Items i	n the Orig	inal Docu	ments with Action as
$\boxtimes$	CLARIFY		CHANGE		LETE	
$\boxtimes$	ADD		SUBSTITUTE			
Pag	e(s) Total for t	his Ac	Idenda including	this page	37	

### **ADD**

- The KCHA basis of design for this project is to use the AFC 1000 series fire alarm panel, and all associated AFC series parts. This includes and will require the PSN 1000 E series Intelligent power supply.
- 2. 2006 Munro Manor Limited Hazmat Report.

### **QUESTIONS**

1. The drawings show the typical one-bedroom dwelling unit having (1) Smoke Detector, (1) CO Detector, and (1) heat detector, the smoke detector being the only initiating device in the "sleeping area". The spec states "d. Inside every sleeping area of a dwelling unit. e. In the hall outside of every sleeping area of a dwelling unit".

Should smoke detection be included in the living area as it is mentioned in the spec and can also be considered a sleeping area.

**ANSWER:** Refer bid drawings Fire Alarm Assessment Report page 12. "Fire alarm replacement bullet point #8A.



### CAPITAL CONSTRUCTION DEPARTMENT 700 ANDOVER PARK WEST TUKWILA, WA 98188

2. The spec states that "The existing system is to remain operational at all times until the new system is installed, tested, and approved by the authority having jurisdiction. Once the new system is approved, the existing system shall be demolished". Is it allowed to transition an area to the new fire system and demo the old system, essentially having the two systems live during construction so the entire building is covered but demoing of the system can be done during the course of construction?

**ANSWER:** No. Existing system will remain in operation at all times. New system will need to be inspected and complete prior to the demo of the old system.

3. How does KCHA plan to manage tenant occupancy during minor abatement work? Will tenants remain in their units, and if so, we need to supply them with any PPE (i.e. respirator mask)?

**ANSWER:** The hazardous materials report indicates that asbestos is less than 1%. No action is required.

4. Are the existing Door Holders to be replaced?

ANSWER: No.

5. Per section 283100 part1.13 A and section 001010 the contractor is responsible for costs and coordination pertaining to integrated peripherals of the fire alarm system. Does this include sprinkler and elevator techs for inspections and testing and if so, are there specific companies required and cost estimates to bid off of available? Is Smith Fire required to be the source for obtaining and programming the AES radio and if so, do you have a cost estimate from them?

**ANSWER:** Yes, the contractor is required to coordinate these items and is responsible for the cost of these items. Contractor will need to coordinate with Washington Elevator, Smith Fire and a sprinkler sub-contractor. Yes, Smith Fire is the required source to supply and program the AES device. The cost has varied from project to project between \$3,000.00 - \$6500.00. Contractor is responsible to include associated costs in base bid.

END OF CONSTRUCTION ADDENDUM: 2
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December 20, 2006

PORTLAND

SEATTLE

VANCOUVER

EUGENE

BEND

TRI-CITIES

Mr. Steve Jefferis, Project Manager Capital Construction Department King County Housing Authority 625 Andover Park West, Ste. 107 Seattle, WA 98188-3326

RE:

Munro Manor, 630 South 152<sup>nd</sup> Street, Burien, Washington

**Hazardous Material Investigation Summary** 

PBS Project No. 40573.012

Dear Mr. Jefferis:

PBS Engineering and Environmental (PBS) performed a limited hazardous materials investigation of Munro Manor located at 630 South 152<sup>nd</sup> Street, Burien, Washington to determine the presence of asbestos-containing materials (ACM), PCB-containing components, mercury-containing components and lead-containing paints (LCP). The intent of this letter is to ensure that KCHA is in compliance with the Puget Sound Clean Air Agency and Washington State Department of Labor and Industries' requirement that a "good faith" inspection for ACM be performed prior to renovation or demolition activities

Munro Manor is a three-story structure consisting of sixty (60) residential units. Interior finishes consist of gypsum wallboard wall and ceilings. The community room ceiling is finished with 2' x 4' suspended ceiling tiles. Floors are constructed of concrete covered with vinyl floor tile, sheet flooring and carpet. The exterior is constructed of brick with stucco soffits and fascia at the unit decks. The building has a built-up flat roof coated with silver paint. Heat is supplied to all areas of the building by electric baseboard heaters. Hot water is supplied to residential units and public areas by individual hot water heaters for each functional space.

### **FINDINGS**

### Asbestos-Containing Materials (ACMs)

While PBS has endeavored to identify all ACM, unidentified ACM may exist in concealed or inaccessible locations. Inaccessible areas are defined as those requiring selective demolition, fall protection or confined-space entry protocols to gain access. PBS recommends that concealed components and materials be investigated prior to impact.

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Suspect materials were sampled by AHERA-accredited Inspector, Ernest Edwards (Cert #1020842 exp. 02/22/07) on December 7-9, 2006. Samples were assigned unique identification numbers and delivered to Seattle Asbestos Test, LLC under chain-of-custody protocols. Samples were analyzed according to EPA Method 600R-93/116 using Polarized Light Microscopy (PLM), which has a reliable limit of quantification of 1% asbestos by volume. Materials found to contain asbestos in concentrations greater than 1% (unless otherwise noted) as determined by PLM are outlined below:

- Joint compound associated with the gypsum wallboard system throughout;
- 12" Beige vinyl floor tile and associated mastic in unit kitchens and Community Room;
- · Brown pebbled sheet flooring in unit bathrooms throughout;
- Black sink undercoating in the Community Room and residential units;
- Silver paint on non-asbestos roofing;
- Fire doors at stairway entrances and end of hallway doors throughout;
- 2' x 4' Fissured suspended ceiling tile in Community Room;
- Black mastic associated with non-slip deck coating on balconies throughout.

Asbestos-containing joint compound associated with non-asbestos gypsum wallboard (GWB) assemblies were found throughout the building in the gypsum wallboard systems. The presence of asbestos in the joint compound requires personnel impacting the material to adhere to regulatory requirements outlined in WAC 296-62-17712(2) and training as outlined in WAC 296-62-07722(5) and WAC 296-62-0728. Personal protective equipment and proper work practices are required pending the completion of a negative exposure assessment. Such an assessment may include air monitoring of workers' breathing zones. Refer to WISHA Regional Directive 23.30 for additional information.

The top layer of roofing and associated silver paint were sampled in representative locations. However, the depth of the insulation (in excess of 8 inches) prevented PBS from inspecting the vapor barrier that is typically installed over the roof sheathing.

While PBS has presumed the presence of and endeavored to identify the ACMs that may be found in the concealed locations, additional unidentified ACMs may exist. Concealed ACMs that may exist at Munro Manor include, but are not limited to the following:

Pipe/fitting insulation inside wall cavities; Vapor barrier under roof insulation; Vapor barrier inside walls; Adhesives/mastics in ceiling spaces and in wall layers.

### Lead Containing Paint (LCP) and Lead-Wrapped Vent Stacks

PBS collected seven (7) representative paint coatings from various interior and exterior building component surfaces. Samples were analyzed and laboratory results were between <0.0041% and 2.4000% lead. Three (3) of the seven (7) samples collected tested positive for lead. Paint samples were analyzed using Atomic Absorption Lead Analysis. For locations and results of paint sampling see attachments.

Thirty-three (33) lead-wrapped vent stacks were identified on the roof.

Munro Manor Hazardous Material Investigation Summary December 20, 2006 Page 3 of 4

### **PCBs**

PBS did not inspect fluorescent light fixture ballasts throughout the building. PBS was informed by the KCHA Representative that all of the lights except for the under-counter lights in the units are new with non-PCB-containing ballasts. The under-counter light fixtures are presumed to have PCB-containing ballasts.

### **Mercury-Containing Components**

Fluorescent lamps are not scheduled to be impacted by this project. All light lamps (tubes) are presumed to contain mercury vapors.

### **RECOMMENDATIONS**

### **Asbestos-Containing Materials (ACMs)**

The ACMs identified should be removed by properly trained and protected personnel using appropriate work practices and engineering controls prior to impact by demolition or renovation. A qualified asbestos abatement contractor licensed in the State of Washington should be employed to remove such ACMs according to applicable local, state and federal regulations.

Caution should be exercised during renovation/demolition, as concealed ACMs may exist in various locations. Demolition activities should be performed by personnel having received a minimum of the WISHA two-hour asbestos awareness training. Other work that may impact asbestos should be performed by personnel having received proper training and utilizing proper worker protection according to WISHA standards. Work impacting asbestos is subject to the requirements of various regulations, including, but not limited to: 40 CFR Part 61, NESHAPS; 40 CFR Part 763, AHERA; WAC 296-62 and 296-65; and Puget Sound Clean Air Agency Regulation III, Article 4, Asbestos.

It is recommended that the King County Housing Authority include contract language specifically addressing the proper removal and disposal of ACMs. It is also recommended that contract language governing demolition include references to asbestos-related regulations. Workers potentially impacting ACMs are advised to confirm training requirements of WISHA and to ensure that proper worker protection and work practices are implemented.

Penetrations are scheduled to be made through the roof as part of this scope of work. The suspect vapor barrier installed over the roof sheathing has not been sampled. PBS recommends that the vapor barrier be tested for asbestos prior to being impacted by the Contractor.

### Lead Containing Paint (LCP) and Lead-Wrapped Vent Stacks

Painted coatings containing detectable concentrations of lead are considered LCP. The presence of LCP requires construction activities to be performed according to Washington Labor and Industries regulations for Lead in Construction (WAC 296-62-155). Workers impacting LCP should be provided the proper personal protective equipment and use proper work methods to limit occupational and environmental exposure to lead until an initial exposure assessment has been conducted. Based on lead concentrations detected to date, it is not anticipated that demolition debris will require disposal as "dangerous" per WAC 173-303, Dangerous Waste Regulations. Waste characterization should be performed to confirm disposal

Munro Manor Hazardous Material Investigation Summary December 20, 2006 Page 4 of 4

requirements.

PBS observed thirty-three (33) lead-covered roof vent stacks during this investigation. These vent stacks should be removed and recycled or disposed of as hazardous waste.

### **PCBs**

KCHA representative states that all of the ceiling and walf-mounted fluorescent lights are new and that the ballast does not contain PCB's. The under-counter fluorescent light fixtures in the residential units are older and the ballasts are presumed to contain PCB's. The KCHA representative also stated that fluorescent light fixtures are not scheduled to be impacted as part of the scope of work. Ballasts that are not labeled "No PCB's" are assumed to be PCB-containing. PBS recommends that if the fluorescent light fixtures are impacted, that the ballasts be inspected prior to renovation/demolition. All ballast not labeled "No PCBs" that are impacted as part of this scope of work should be, properly removed, stored, transported and disposed of according to applicable regulations.

### **Mercury-Containing Components**

PBS recommends that existing fluorescent lamps (tubes) be handled and/or recycled in accordance with applicable regulations during replacement or renovation/demolition activities. Procedures required include proper handling, labeling, storage and transport of tubes prior to recycling/disposal at a properly licensed facility. Clean up of any broken tubes should include proper worker protection and disposal.

Report prepared by:

**Ernest Edwards** 

AHERA Building Inspector (Cert#1020842 exp: 2/22/07)

Report reviewed by:

Mark a. Dilers

Mark Hiley

Project Manager

Attachments: PL

PLM Sample Inventory
PLM Laboratory Reports
PLM Chain-of-Custody
Lead Sample Inventory
Lead Laboratory Reports
Lead Chain-of-Custody
PBS Inspector Certification

### PLM SAMPLE INVENTORY

PBS SAMPLE #	MATERIAL TYPE	LOCATION	LAB DESCRIPTION	LAB RESULT	<u>LAB</u>
40573.012 -001	Beige Patterned Sheet Flooring Backing Backing	Unit 217 Kitchen	Layer 1: Beige sheet vinyl Layer 2: Gray fibrous material with mastic Layer 3: Gray fibrous material with mastic	NAD NAD 55% Chrysotile	SAT SAT SAT
40573.012 -002	Brown Covebase Brown Mastic	Unit 221 Bathroom	Layer 1: Brown rubbery material Layer 2: Brown mastic	NAD NAD	SAT SAT
40573.012 -003	Brown Covebase Brown Mastic	Unit 319 Bathroom	Layer 1: Brown rubbery material Layer 2: Brown mastic	NAD NAD	SAT SAT
40573.012 -004	Brown Covebase Brown Mastic	Unit 118	Layer 1: Brown rubbery material Layer 2: Brown mastic	NAD NAD	SAT SAT
40573.012 -005	Deck Coating	Unit 201 Deck Floor	Layer 1: Black brittle material with paint	3% Chrysotile	SAT
40573.012 -006	Deck Coating	Unit 213 Deck Floor	Layer 1: Black brittle material with paint	3% Chrysotile	SAT
40573.012 -007	Joint Compound Gypsum Wallboard	Unit 112 Living Room	Layer 1: Tan powdery material with paint Layer 2: White chalky material with paper	2% Chrysotile NAD	SAT SAT
40573.012 -008	Joint Compound Gypsum Wallboard	Unit 219 Closet	Layer 1: Tan powdery material with paint Layer 2: White chalky material with paper	2% Chrysotile NAD	SAT SAT
40573.012 -009	Joint Compound Gypsum Wallboard	Unit 216 Bedroom Closet	Layer 1: Tan powdery material with paint Layer 2: White chalky material with paper	2% Chrysotile NAD	SAT SAT
40573.012 -010	Joint Compound Gypsum Wallboard	Unit 312 Living Room	Layer 1: Tan powdery material with paint Layer 2: White chalky material with paper	2% Chrysotile NAD	SAT SAT
40573.012 -011	12" Beige Floor Tile Mastic	Unit 114 Kitchen	Layer 1: Beige tile Layer 2: Black mastic	2% Chrysotile 3% Chrysotile	SAT SAT
40573.012 -012	12" Beige Floor Tile Mastic	Unit 115 Kitchen	Layer 1: Beige tile Layer 2: Black mastic	2% Chrysotile 3% Chrysotile	SAT SAT
40573.012 -013	12" Beige Floor Tile Mastic	Unit 317 Kitchen	Layer 1: Beige tile Layer 2: Black mastic	2% Chrysotile 4% Chrysotile	SAT SAT

### KCHA - Munro Manor

40573.012 -014	Ceramic Tile Mastic	Unit 313 Restroom	Layer 1: Brown mastic	NAD	SAT
40573.012 -015	Ceramic Tile Mastic	Unit Restroom	Layer 1: Brown mastic	NÁD	SAT
40573.012 -016	Black Sink Undercoating	Unit 112 Kitchen	Layer 1: Black asphaltic material	3% Chrysotile	SAT
40573.012 -017	Black Sink Undercoating	Unit 221 Kitchen	Layer 1: Black asphaltic material	2% Chrysotile	SAT
40573.012 -018	Black Sink Undercoating	Unit 119 Kitchen	Layer 1: Black asphaltic material	3% Chrysotile	SAT
40573.012 -019	Tan Covebase Brown Mastic	Unit 219 Kitchen	Layer 1: Tan rubbery material Layer 2: Brown mastic	NAD NAD	SAT
40573.012 -020	Tan Covebase Brown Mastic	Unit 318 Kitchen	Layer 1: Tan rubbery material Layer 2: Brown mastic	NAD NAD	SAT
40573.012 -021	Door Frame Caulking	Unit 112 Slider	Layer 1: Gray elastic material	NAD	SAT
40573.012 -022	Paint/Wall Coating	Unit 116 Bedroom	Layer 1: Brown paper with paint	NAD	SAT
40573.012 -023	Paint/Wall Coating	Unit 316 Bathroom	Layer 1: Brown paper with paint	NAD	SAT
40573.012 -024	Brown Pebbled Sheet Floor	Unit 114 Bathroom	Layer 1: Brown sheet vinyl Layer 2: Gray fibrous material with mastic	NAD 55% Chrysotile	SAT
40573.012 -025	Yellow Vinyl Sheet Flooring Backing Brown Sheet Vinyl Flooring Backing	Unit 315 Bathroom	Layer 1: Yellow sheet vinyl Layer 2: Gray fibrous material with mastic Layer 3: Brown sheet vinyl Layer 4: Gray fibrous material with mastic	NAD NAD NAD NAD	SAT
40573.012 -026	Joint Compound Gypsum Wallboard	Unit 19 Closet	Layer 1: Tan powdery material with paint Layer 2: White chalky material with paper	2% Chrysotile NAD	SAT
40573.012 -027	Joint Compound Gypsum Wallboard	Unit 211 Closet Ceiling	Layer 1: Tan powdery material with paint Layer 2: White chalky material with paper	2% Chrysotile NAD	SAT
40573.012 -028	Joint Compound Gypsum Wallboard	Unit 210 Closet Ceiling	Layer 1: Tan powdery material with paint Layer 2: White chalky material with paper	2% Chrysotile NAD	SAT
40573.012 -029	Joint Compound Gypsum Wallboard	Unit 106 Kitchen	Layer 1: Tan powdery material with paint Layer 2: White chalky material with paper	2% Chrysotile NAD	SAT

### **KCHA - Munro Manor**

40573.012 -030	Gypsum Wallboard	Unit 18 Living Room - Field	Layer 1: White chalky material with paper and paint	NAD	SAT
40573.012 -031	Lightweight Concrete Flooring	Unit 200 Kitchen	Layer 1: Gray sandy brittle material	NAD	SAT
40573.012 -032	Lightweight Concrete Flooring	Unit 203 Living Room	Layer 1: Gray sandy brittle material	NAD	SAT
40573.012 -033	12" Beige Floor Tile (Type 2) Yellow Mastic	Unit 200 Kitchen	Layer 1: Beige tile Layer 2: Yellow mastic	NAD NAD	SAT
40573.012 -034	Backsplash Mastic Joint Compound	Unit 203 Kitchen	Layer 1: Yellow mastic Layer 2: White powdery material with paint	NAD 2% Chrysotile	SAT
40573.012 -035	12" Beige Floor Tile (Type 1) Black Mastic	Unit 15 Kitchen	Layer 1: Beige tile Layer 2: Black mastic	2% Chrysotile 3% Chrysotile	SAT
40573.012 -036	Black Sink Undercoating	Unit 111 Kitchen	Layer 1: Black brittle material	4% Chrysotile	SAT
40573.012 -037	Fire Door Insulation	2nd Floor South Wing	Layer 1: White powdery material	15% Chrysotile	SAT
40573.012 -038	Paint/Wall Coating	Unit 207 Closet	Layer 1: Tan paper with paint	NAD	SAT
40573.012 -039	Paint/Wall Coating Wall Coating	Unit 21 Living Room Wall	Layer 1: Tan paper with paint	NAD	SAT
40573.012 -040	Paint	Unit 20 Living Room Wall	Layer 1: Tan paper with paint	NAD	SAT
40573.012 -041	Paint/Wall Coating	Unit 107 Living Room Wall	Layer 1: Tan paper with paint	NAD	SAT
40573.012 -042	Brown Covebase Mastic	Unit 104 Bathroom	Layer 1: Brown rubbery material Layer 2: Brown mastic	NAD NAD	SAT
40573.012 -043	Tan Covebase Mastic	Unit 12 Kitchen	Layer 1: Tan rubbery material Layer 2: Brown mastic	NAD NAD	SAT
40573.012 -044	Brown Pebbled Sheet Flooring Backing	Unit 14 Bathroom	Layer 1: Brown sheet vinyl Layer 2: Green fibrous material with mastic	NAD NAD	SAT
40573.012 -045	Brown Pebbled Sheet Flooring Backing	Unit 207 Bathroom	Layer 1: Brown sheet vinyl Layer 2: Green fibrous material with mastic	NAD NAD	SAT
40573.012 -046	Ceramic Tile Mastic	Unit 17 Bathroom	Layer 1: Yellow mastic	NAD	SAT

40573.012 -047	Beige Sheet Flooring Backing	Unit 200 Bathroom	Layer 1: Tan sheet vinyl Layer 2: Gray fibrous material with mastic	NAD NAD	SAT
40573.012 -048	Sliding Door Frame Sealant	Unit 16 Door to Patio	Layer 1: Black elastic material	NAD	SAT
40573.012 -049	Stucco	Unit 102 Deck	Layer 1: Gray sandy brittle material	NAD	SAT
40573.012 -050	Stucco	Unit 104 Deck	Layer 1: Gray sandy brittle material	NAD	SAT
40573.012 -051	Stucco	Unit 106 Deck	Layer 1: Gray sandy brittle material	NAD	SAT
40573.012 -052	2x4 Fissured Ceiling Tile (Type 1)	1st Floor Office Foyer	Layer 1: Gray compressed fibrous material with paint	NAD	SAT
40573.012 -053	2x4 Fissured Ceiling Tile (Type 1)	1st Floor Office Foyer	Layer 1: Gray compressed fibrous material with paint	NAD	SAT
40573.012 -054	2x4 Fissured Ceiling Tile (Type 2)	Community Room	Layer 1: Dark gray compressed fibrous material with paint	2% Chrysotile	SAT
40573.012 -055	2x4 Fissured Ceiling Tile (Type 2)	Community Room	Layer 1: Dark gray compressed fibrous material with paint	2% Chrysotile	SAT
40573.012 -056	Joint Compound Gypsum Wallboard	1st Floor Lobby	Layer 1: Tan powdery material with paint Layer 2: White chalky material with paper	2% Chrysotile NAD	SAT
40573.012 -057	Joint Compound Gypsum Wallboard	Basement South Corridor	Layer 1: Tan powdery material with paint Layer 2: White chalky material with paper	2% Chrysotile NAD	SAT
40573.012 -058	Joint Compound Gypsum Waliboard	3rd Floor Corridor North	Layer 1: Tan powdery material with paint Layer 2: White chalky material with paper	2% Chrysotile NAD	SAT
40573.012 -059	Brown Covebase Mastic Gypsum Wallboard	1st Floor Lobby	Layer 1: Brown rubbery material Layer 2: Brown mastic Layer 3: White chalky material with paper and paint	NAD NAD NAD	SAT
40573.012 -060	Brown Covebase Mastic	3srd Floor Corridor North	Layer 1: Brown rubbery material Layer 2: Off-white mastic	NAD NAD	SAT
40573.012 -061	Brown Covebase	2nd Floor Corridor South	Layer 1: Brown rubbery material	NAD	SAT

### **KCHA - Munro Manor**

	Mastic		Layer 2: Off-white mastic	NAD	
40573.012 -062	Black Sink Undercoat	Community Room	Layer 1: Black brittle material	4% Chrysotile	SAT
40573.012 -063	Carpet Mastic	Elevator	Layer 1: Yellow mastic with paint	NAD	SAT
40573.012 -064	12" Beige Floor Tile Mastic	Community Room	Layer 1: Beige tile Layer 2: Brown mastic	2% Chrysotile 4% Chrysotile	SAT
40573.012 -065	Brown Covebase Mastic	1st Floor Corridor South	Layer 1: Brown rubbery material Layer 2: Off-white mastic	NAD NAD	SAT
40573.012 -066	Deck Coating	Unit 203	Layer 1: Gray soft material	NAD	SAT
40573.012 -067	Tan Pebbled Sheet Flooring Backing	1st Floor Womens Restroom	Layer 1: Tan sheet vinyl Layer 2: Green fibrous material with mastic	NAD NAD	SAT
40573.012 -068	Paint/Wall coating	1st Floor Janitors Closet	Layer 1: Tan paper with paint	NAD	SAT
40573.012 -069	Door Frame Seal	Community Room Exterior	Layer 1: Black soft material	NAD	SAT
40573.012 -070	Ceramic Tile Mastic Joint Compound	1st Floor Mens Restroom	Layer 1: Yellow mastic Layer 2: White powdery material with paint	NAD 2% Chrysotile	SAT
40573.012 -071	Backsplash Mastic Joint Compound	2nd Floor Laundry Room	Layer 1: Yellow mastic Layer 2: White powdery material with paint	NAD 2% Chrysotile	SAT
40573.012 -072	Tan Covebase Brown Mastic	Community Room	Layer 1: Brown rubbery material Layer 2: Brown mastic	NAD NAD	SAT
40573.012 <i>-</i> 073	Silver Paint Built-up Roofing Silver Paint Built-up Roofing Silver Paint Built-up Roofing	Elevator Roof .	Layer 1: Silver paint Layer 2: Black asphaltic material Layer 3: Silver paint Layer 4: Black asphaltic material Layer 5: Silver paint Layer 6: Multi-layer black asphaltic material	2% Chrysotile NAD 2% Chrysotile NAD 2% Chrysotile NAD	SAT
40573.012 -074	Silver Paint Asphalt Built-up Roofing Gypsum Wallboard	Upper Roof - Center	Layer 1: Silver paint Layer 2: Black asphaltic material Layer 3: Black asphaltic fibrous material Layer 4: White chalky material with paper	2% Chrysotile NAD NAD NAD	SAT

### **KCHA - Munro Manor**

40573.012 -075	Silver Paint Built-up Roofing Built-up Roofing Gypsum Wallboard	Lower Roof - Center	Layer 1: Silver paint Layer 2: Black asphaltic material Layer 3: Black asphaltic fibrous material Layer 4: White chalky material with paper	2% Chrysotile NAD NAD NAD	SAT
40573.012 -076	Silver Paint Built-up Roofing Silver Paint Built-up Roofing	Lower Roof - Lanyard tie-off Area	Layer 1: Silver paint Layer 2: Black asphaltic material Layer 3: Silver paint Layer 4: Black asphaltic material	2% Chrysotile NAD 2% Chrysotile NAD	SAT

NVLAP ACCREDITATION LAB CODE: 200768-0

### **ANALYTICAL LABORATORY REPORT**

PLM by Method EPA/600/R-93/116

Client: PBS Environmental Address: 130 Nickerson St. #107, Seattle, WA 98109 Client Job #: 40573.012 Laboratory Batch #: 200621489 Date Received: 12/08/2006

Samples Received: 25

Date Analyzed: 12/08/2006

Samples Analyzed: 25 Client Project #: N/A

Attention: Mr. Ernest Edwards
Project: KCHA - Munro Manor

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asbestos Fibers
2006207960	40573.012- 001	1	Beige sheet vinyl		None detected	Vinyl/binder		None detected
		2	Gray fibrous material with mastic		None detected	Binder/filler, Mastic/binder	70	Cellulose
		3	Gray fibrous material with mastic	55	Chrysotile	Binder/filler, Mastic/binder	25	Cellulose
2006207961	40573.012- 002	1	Brown rubbery material		None detected	Rubber/binder	2	Cellulose
		2	Brown mastic		None detected	Mastic/binder	2	Cellulose
2006207962	40573.012- 003	1	Brown rubbery material		None detected	Rubber/binder	3	Cellulose
		2	Brown mastic		None detected	Mastic/binder	2	Cellulose
2006207963	40573.012- 004	1	Brown rubbery material		None detected	Rubber/binder	3	Cellulose
·		2	Brown mastic		None detected	Mastic/binder	3	Cellulose
2006207964	40573.012- 005	1	Black brittle material with paint	3	Chrysotile	Asphalt/binder, Paint	4	Cellulose
2006207965	40573.012- 006	1	Black brittle material with paint	3	Chrysotile	Asphalt/binder, Paint	3	Cellulose

Reviewed by: Steve (Fanyao) Zhang, President

NVLAP ACCREDITATION LAB CODE: 200768-0

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Samples Analyzed: 25 Client Project #: N/A

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asbestos Fibers
		Analyst 0	Comments: Composite	re	sult for whole	e sample is less than 1%	ash	estos.
2006207966	40573.012- 007	1	Tan powdery material with paint	2	Chrysotile	Binder/filler, Paint	5	Cellulose
		2	White chalky material with paper		None detected	Binder/filler Gypsum/binder	25	Cellulose
		Analyst C	Comments: Composite	re	sult for whole	sample is less than 1%	ask	estos.
2006207967	40573.012- 008	1	Tan powdery material with paint	2	Chrysotile	Binder/filler, Paint	5	Cellulose
		2	White chalky material with paper		None detected	Binder/filler Gypsum/binder	20	Cellulose
<del></del>		Analyst (	Comments: Composite	re	suit for whole	e sample is less than 1%	ast	estos.
2006207968	40573.012- 009	1	Tan powdery material with paint	2	Chrysotile	Binder/filler, Paint	3	Cellulose
		2	White chalky material with paper		None detected	Binder/filler Gypsum/binder	25	Cellulose
		Analyst C	Comments: Composite	re	suit for whole	sample is less than 1%	ast	estos.
2006207969	40573.012- 010	1	Tan powdery material with paint	2	Chrysotile	Binder/filler, Paint	5	Cellulose
• .		2	White chalky material with paper		None detected	Binder/filler Gypsum/binder	27	Cellulose
2006207970	40573.012- 011	1	Beige tile	2	Chrysotile	Vinyl/binder, Mineral grains	2	Cellulose
		2	Black mastic	3	Chrysotile	Mastic/binder	4	Cellulose
2006207971	40573.012- 012	1	Beige tile	2	Chrysotile	Vinyl/binder, Mineral grains	2	Cellulose

Reviewed by: Steve (Fanyao) Zhang, President

NVLAP ACCREDITATION LAB CODE: 200768-0

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Samples Analyzed: 25 Client Project #: N/A

Attention: Mr. Ernest Edwards Project: KCHA - Munro Manor

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asbestos Fibers
		2	Black mastic	3	Chrysotile	Mastic/binder	3	Cellulose
2006207972	40573.012- 013	1	Beige tile	2	Chrysotile	Vinyl/binder, Mineral grains	3	Cellulose
		2	Black mastic	4	Chrysotile	Mastic/binder	4	Cellulose
2006207973	40573.012- 014	1	Brown mastic		None detected	Mastic/binder, Filler	2	Cellulose
2006207974	40573.012- 015	1	Brown mastic		None detected	Mastic/binder, Filler	3	Cellulose
2006207975	40573.012- 016	1	Black asphaltic material	3	Chrysotile	Asphalt/binder, Sand	3	Cellulose
2006207976	40573.012- 017	1	Black asphaltic material	2	Chrysotile	Asphalt/binder, Sand	4	Cellulose
2006207977	40573.012- 018	1	Black asphaltic material	3	Chrysotile	Asphalt/binder, Sand	2	Cellulose
2006207978	40573.012- 019	1	Tan rubbery material		None detected	Rubber/binder	2	Cellulose
		2	Brown mastic		None detected	Mastic/binder	2	Talc fibers
2006207979	40573.012- 020	1	Tan rubbery material		None detected	Rubber/binder	2	Cellulose
		2	Brown mastic		None detected	Mastic/binder	3	Talc fibers

Reviewed by: Steve (Fanyao) Zhang, President

NVLAP ACCREDITATION LAB CODE: 200768-0

### **ANALYTICAL LABORATORY REPORT**

PLM by Method EPA/600/R-93/116

Client: PBS Environmental Address: 130 Nickerson St. #107, Seattle, WA 98109 Client Job #: 40573.012 Laboratory Batch #: 200621489 Date Received: 12/08/2006

Samples Received: 25

Date Analyzed: 12/08/2006

Samples Analyzed: 25 Client Project #: N/A

Attention: Mr. Ernest Edwards
Project: KCHA - Munro Manor

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asbestos Fibers
2006207980	40573.012- 021	1	Gray elastic material		None detected	Rubber/binder	2	Cellulose
2006207981	40573.012- 022	1	Brown paper with paint		None detected	Filler, Binder, Paint	35	Cellulose
2006207982	40573.012- 023	1	Brown paper with paint		None detected	Filler, Binder, Paint	45	Cellulose
2006207983	40573.012- 024	1	Brown sheet vinyl		None detected	Vinyl/binder		None detected
		2	Gray fibrous material with mastic	55	Chrysotile	Binder/filler, Mastic/binder	25	Cellulose
2006207984	40573.012- 025	1	Yellow sheet vinyl		None detected	Vinyl/binder		None detected
1		2	Gray fibrous material with mastic		None detected	Binder/filler, Mastic/binder	55	Cellulose
	-	3	Brown sheet vinyl		None detected	Vinyl/binder		None detected
		4	Gray fibrous material with mastic		None detected	Binder/filler, Mastic/binder	65	Cellulose

Reviewed by: Steve (Fanyao) Zhang, President

NVLAP ACCREDITATION LAB CODE: 200768-0

### **ANALYTICAL LABORATORY REPORT**

PLM by Method EPA/600/R-93/116

Client: PBS Environmental Address: 130 Nickerson St. #107, Seattle, WA 98109 Client Job #: 40573.012 Laboratory Batch #: 200621505 Date Received: 12/8/2006

Samples Received: 23

Date Analyzed: 12/9/2006

Attention: Mr. Ernest Edwards
Project: KCHA-Munro Manor

Samples Analyzed: 23 Client Project #: N/A

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asbestos Fibers
		Analyst 0	Comments: Composite	е ге	sult for whole	sample is less than 1%	ast	estos.
2006208139	40573.012- 026	1	Tan powdery material with paint	2	Chrysotile	Binder/filler, Paint	5	Cellulose
		2	White chalky material with paper		None detected	Binder/filler Gypsum/binder	27	Cellulose
		Analyst 0	Comments: Composite	estos.				
2006208140	40573.012- 027	1	Tan powdery material with paint	2	Chrysotile	Binder/filler, Paint	4	Cellulose
		2	White chalky material with paper		None detected	Binder/filler Gypsum/binder	25	Cellulose
		Analyst (	Comments: Composite	e re	sult for whole	e sample is less than 1%	ask	pestos.
2006208141	40573.012- 028	1	Tan powdery material with paint	2	Chrysotile	Binder/filler, Paint	7	Cellulose
		2	White chalky material with paper		None detected	Binder/filler Gypsum/binder	29	Cellulose
		Analyst (	Comments: Composite	е ге	sult for whole	e sample is less than 1%	ask	pestos.
2006208142	40573.012- 029	1	Tan powdery material with paint	2	Chrysotile	Binder/filler, Paint	5	Cellulose
	<b>1</b> -	2	White chalky material with paper		None detected	Binder/filler Gypsum/binder	26	Cellulose
2006208143	40573.012- 030	1	White chalky material with paper and paint		None detected	Binder/filler, Paint, Gypsum/binder	28	Cellulose

Reviewed by: Steve (Fanyao) Zhang, President

NVLAP ACCREDITATION LAB CODE: 200768-0

### **ANALYTICAL LABORATORY REPORT**

PLM by Method EPA/600/R-93/116

Client: PBS Environmental Address: 130 Nickerson St. #107, Seattle, WA 98109 Client Job #: 40573.012 Laboratory Batch #: 200621505 Date Received: 12/8/2006 Samples Received: 23

Date Analyzed: 12/9/2006

Attention: Mr. Ernest Edwards Project: KCHA-Munro Manor Samples Analyzed: 23 Client Project #: N/A

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asbestos Fibers
2006208144	40573.012- 031	1	Gray sandy brittle material		None detected	Binder/filler, Sand	3	Cellulose
2006208145	40573.012- 032	1	Gray sandy brittle material		None detected	Binder/filler, Sand	4	Cellulose
2006208146	40573.012- 033	1	Beige tile		None detected	Vinyl/binder, Mineral grains	2	Cellulose
		2	Yellow mastic		None detected	Mastic/binder	4	Cellulose
2006208147	40573.012- 034	1	Yellow mastic		None detected	Mastic/binder	4	Cellulose
		2	White powdery material with paint	2	Chrysotile	Binder/filler, Paint	5	Cellulose
2006208148	40573.012- 035	1	Beige tile	2	Chrysotile	Vinyl/binder, Mineral grains	3	Cellulose
		2	Black mastic	3	Chrysotile	Mastic/binder	7	Cellulose
2006208149	40573.012- 036	1	Black brittle material	4	Chrysotile	Binder/filler	3	Cellulose
2006208150	40573.012- 037	1	White powdery material	15	Chrysotile	Binder/filler	5	Cellulose
2006208151	40573.012- 038	1	Tan paper with paint		None detected	Binder/filler, Paint	55	Cellulose
2006208152	40573.012- 039	1	Tan paper with paint		None detected	Binder/filler, Paint	50	Cellulose

Reviewed by: Steve (Fanyao) Zhang, President

NVLAP ACCREDITATION LAB CODE: 200768-0

### **ANALYTICAL LABORATORY REPORT**

PLM by Method EPA/600/R-93/116

Client: PBS Environmental Address: 130 Nickerson St. #107, Seattle, WA 98109 Client Job #: 40573.012 Laboratory Batch #: 200621505 Date Received: 12/8/2006

Samples Received: 23

Date Analyzed: 12/9/2006

Samples Analyzed: 23 Client Project #: N/A

Attention: Mr. Ernest Edwards Project: KCHA-Munro Manor

Lab ID	Client	Layer	Description	%	Asbestos	Non-Fibrous	0/6	Non-asbestos
Lab ID	Sample ID	Layer	Description	70	Fibers_	Components	/0	Fibers
2006208153	40573.012- 040	1	Tan paper with paint		None detected	Binder/filler, Paint	48	Cellulose
2006208154	40573.012- 041	1	Tan paper with paint	None detected Binder/filler, Paint		53	Celluiose	
2006208155	40573.012- 042	-1	Brown rubbery material		None detected	Rubber/binder	2	Cellulose
		2	Brown mastic		None detected	Mastic/binder	6	Cellulose
2006208156	40573.012- 043	1	Tan rubbery material		None detected	Rubber/binder	1	Cellulose
		2	Brown mastic		None detected	Mastic/binder	5	Cellulose
2006208157	40573.012- 044	1	Brown sheet vinyl		None detected	Vinyl/binder		None detected
		2	Green fibrous material with mastic		None detected	Binder/filler, Mastic/binder	70	Cellulose
2006208158	40573.012- 045	1	Brown sheet vinyl		None detected	Vinyl/binder		None detected
		2	Green fibrous material with mastic		None detected	Binder/filler, Mastic/binder	70	Cellulose
2006208159	40573.012- 046	1	Yellow mastic		None detected	Mastic/binder	3	Cellulose
2006208160	40573.012- 047	1	Tan sheet vinyl		None detected	Vinyl/binder		None detected

Reviewed by: Steve (Fanyao) Zhang, President

NVLAP ACCREDITATION LAB CODE: 200768-0

### **ANALYTICAL LABORATORY REPORT**

PLM by Method EPA/600/R-93/116

Client: PBS Environmental Address: 130 Nickerson St. #107, Seattle, WA 98109 Client Job #: 40573.012 Laboratory Batch #: 200621505 Date Received: 12/8/2006

Samples Received: 23

Date Analyzed: 12/9/2006

Attention: Mr. Ernest Edwards Project: KCHA-Munro Manor Samples Analyzed: 23 Client Project #: N/A

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asbestos Fibers
		2	Gray fibrous material with mastic		None detected	Binder/filler, Mastic/binder	70	Cellulose
2006208161	40573.012- 048	1	Black elastic material		None detected	Binder/filler	5	Cellulose

Reviewed by: Steve (Fanyao) Zhang, President

NVLAP ACCREDITATION LAB CODE: 200768-0

### **ANALYTICAL LABORATORY REPORT**

PLM by Method EPA/600/R-93/116

Client: PBS Environmental Address: 130 Nickerson St. #107, Seattle, WA 98109 Client Job #: 40573.012 Laboratory Batch #: 200621514 Date Received: 12/11/2006

Samples Received: 24

Date Analyzed: 12/11/2006

Samples Analyzed: 24 Client Project #: N/A

Attention: Mr. Ernest Edwards
Project: KCHA-Munro Manor

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asbestos Fibers
2006208197	40573.012- 049	1	Gray sandy brittle material		None detected	Binder/filler, Sand	2	Cellulose
2006208198	40573.012- 050	1	Gray sandy brittle material		None detected	Binder/filler, Sand	3	Cellulose
2006208199	40573.012- 051	1	Gray sandy brittle material	None detected		Binder/filler, Sand	2	Cellulose
2006208200	40573.012- 052	1	Gray compressed fibrous material with paint		None detected	Paint, Filler, Fine particles	75	Cellulose, Glass fibers
2006208201	40573.012- 053	1	Gray compressed fibrous material with paint		None detected	Paint, Filler, Fine particles	75	Cellulose, Glass fibers
2006208202	40573.012- 054	1	Dark gray compressed fibrous material with paint	2	Chrysotile	Paint, Filler, Fine particles	75	Cellulose, Glass fibers
2006208203	40573.012- 055	4	Dark gray compressed fibrous material with paint	2	Chrysotile	Paint, Filler, Fine particles	72	Cellulose, Glass fibers
		Analyst (	Comments: Composite	e re	sult for whol	e sample is less than 19	6 as	bestos.
2006208204	40573.012- 056	1	Tan powdery material with paint	2	Chrysotile	Binder/filler, Paint	5	Cellulose
		2	White chalky material with paper		None detected	Binder/filler Gypsum/binder	25	Cellulose
		Analyst Comments: Composite result for whole sample is less than 1% asbestos.					bestos.	
2006208205	40573.012- 057	1	Tan powdery material with paint	2	Chrysotile	Binder/filler, Paint	5	Cellulose

Reviewed by: Steve (Fanyao) Zhang, President

NVLAP ACCREDITATION LAB CODE: 200768-0

### **ANALYTICAL LABORATORY REPORT**

PLM by Method EPA/600/R-93/116

Client: PBS Environmental Address: 130 Nickerson St. #107, Seattle, WA 98109 Client Job #: 40573.012 Laboratory Batch #: 200621514 Date Received: 12/11/2006

Samples Received: 24

Date Analyzed: 12/11/2006

Attention: Mr. Ernest Edwards Samples Analyzed: 24
Project: KCHA-Munro Manor Client Project #: N/A

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asbestos Fibers
		2	White chalky material with paper	1	None detected	Binder/filler Gypsum/binder	25	Cellulose
		Analyst (	Comments: Composite	re	sult for whole	sample is less than 1%	asb	estos.
2006208206	40573.012- 058	1	Tan powdery material with paint	2	Chrysotile	Binder/filler, Paint	5	Cellulose
		2	White chalky material with paper		None detected	Binder/filler Gypsum/binder	25	Cellulose
2006208207	40573.012- 059	1	Brown rubbery material		None detected	Rubber/binder	2	Cellulose
		2	Brown mastic		None detected	Mastic/binder	3	Cellulose
		3	White chalky material with paper and paint		None detected	Binder/filler, Gypsum/binder	20	Cellulose
2006208208	40573.012- 060	1	Brown rubbery material		None detected	Rubber/binder	2	Cellulose
		2	Off-white mastic		None detected	Mastic/binder	5	Cellulose
2006208209	40573.012- 061	1	Brown rubbery material		None detected	Rubber/binder	2	Cellulose
		2	Off-white mastic		None detected	Mastic/binder	5	Cellulose
2006208210	40573.012- 062	1	Black brittle material	4	Chrysotile	Binder/filler	5	Cellulose

Reviewed by: Steve (Fanyao) Zhang, President

**NVLAP ACCREDITATION** LAB CODE: 200768-0

### ANALYTICAL LABORATORY REPORT

PLM by Method EPA/600/R-93/116

Client: PBS Environmental Address: 130 Nickerson St. #107, Seattle, WA 98109

Client Job #: 40573.012 Laboratory Batch #: 200621514 Date Received: 12/11/2006

Samples Received: 24

Samples Analyzed: 24

Client Project #: N/A

Date Analyzed: 12/11/2006

Attention: Mr. Ernest Edwards Project: KCHA-Munro Manor

2

1

1

1

2

40573.012-

068

40573.012-

069

40573.012-

070

material with mastic

Tan paper with paint

Black soft material

Yellow mastic

White powdery

material with paint

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asbestos Fibers
2006208211	40573.012- 063	1	Yellow mastic with paint		None detected	Mastic/binder, Paint	5	Cellulose
2006208210	40573.012- 064	1	Beige tile	2	Chrysotile	Vinyl/binder, Mineral grains	3	Cellulose
		2	Brown mastic	4	Chrysotile	Mastic/binder	7	Cellulose
2006208211	40573.012- 065	1	Brown rubbery material		None detected	Rubber/binder	2	Cellulose
		2	Off-white mastic		None detected	Mastic/binder	5	Cellulose
2006208212	40573.012- 066	1	Gray soft material		None detected	Binder/filler	7	Cellulose
2006208213	40573.012- 067	1	Tan sheet vinyl		None detected	Vinyl/binder		None detected
		2	Green fibrous		None	Binder/filler,	70	Cellulose

detected

detected

detected

detected

None

None

None

Mastic/binder

Binder/filler

Mastic/binder

2 Chrysotile Binder/filler, Paint

Binder/filer, Paint

Reviewed by: Steve (Fanyao) Zhang, President

70 Cellulose

70 Cellulose

Cellulose

Cellulose

Cellulose

Analyzed by: Weilong Tai

2006208214

2006208215

2006208216

NVLAP ACCREDITATION LAB CODE: 200768-0

### ANALYTICAL LABORATORY REPORT

PLM by Method EPA/600/R-93/116

Client: PBS Environmental Address: 130 Nickerson St. #107, Seattle, WA 98109

Attention: Mr. Ernest Edwards

Project: KCHA-Munro Manor

Client Job #: 40573.012 Laboratory Batch #: 200621514 Date Received: 12/11/2006

Samples Received: 24

Date Analyzed: 12/11/2006

Samples Analyzed: 24 Client Project #: N/A

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asbestos Fibers
2006208217	40573.012- 071	1	Yellow mastic		None detected	Mastic/binder	3	Cellulose
		2	White powdery material with paint	2	Chrysotile	Binder/filler, Paint	4	Cellulose
2006208218	40573.012- 072	1	Brown rubbery material		None detected	Rubber/binder	2	Cellulose
		2	Brown mastic		None detected	Mastic/binder	9	Cellulose

Jan

Reviewed by: Steve (Fanyao) Zhang, President

SEATTLE ASBESTOS TEST, LLC

Pag∈ 1 of 2

19711 Scriber Lake Road, Suite D, Lynnwood, WA 98036, 425.673.9850

NVLAP ACCREDITATION LAB CODE: 200768-0

### **ANALYTICAL LABORATORY REPORT**

PLM by Method EPA/600/R-93/116

Client: PBS Environmental Address: 130 Nickerson St. #107, Seattle, WA 98109 Client Job #: 40573.012 Laboratory Batch #: 200621576 Date Received: 12/19/2006

Samples Received: 4

Date Analyzed: 12/19/2006

Samples Analyzed: 4 Client Project #: N/A

Attention: Mr. Ernest Edwards
Project: Munro Manor (KCHA)

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asb: stos Fiber :
2006208553	40573.012- 073	1	Silver paint	2	Chrysotile	Paint Paint	15	Cellulose, Wollastonite
		2	Black asphaltic material		None detected	Asphalt/binder	25	Synthetic fibers, Cellulose
		3	Silver paint	2	Chrysotile	Paint	17	Cellulose, Wollastonite
	-	4	Black asphaltic material		None detected	Asphalt/binder	27	Synthetic fibers, Cellulose
		5	Silver paint	2	Chrysotile	Paint	15	Cellulose, Wollastor ite
		6	Multi-layer black asphaltic material		None detected	Asphalt/binder	25	Synthetic fibers, Cellulose
2006208554	40573.012- 074	1	Silver paint	2	Chrysotile	Paint	15	Cellulose Wollastor ite
		2	Black asphaltic material		None detected	Asphalt/binder	25	Synthetic fibers, Cellulose
		3	Black asphaltic fibrous material		None detected	Asphalt/binder	45	Glass fibers
		4	White chalky material with paper		None detected	Binder/filler, Gypsum/binder	25	Cellulose
2006208555	40573.012- 075	1	Silver paint	2	Chrysotile	Paint	14	Cellulose Wollastorite

Reviewed by Steve (Fanyao) Zhang, President

### SEATTLE ASBESTOS TEST, LLC

Page 2 of 2

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NVLAP ACCREDIT \TION LAB CODE: 20 )768-0

### ANALYTICAL LABORATORY REPORT

PLM by Method EPA/600/R-93/116

Client: PBS Environmental Address: 130 Nickerson St. #107, Seattle, WA 98109 Client Job #: 40573.012 Laboratory Batch #: 200621576 Date Received: 12/19/2006

Samples Received: 4

Date Analyzed: 12/19/2006

Samples Analyzed: 4 Client Project #: N/A

Attention: Mr. Emest Edwards Project: Munro Manor (KCHA)

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-Fibrous Components	%	Non-asbestos Fibens
		2	Black asphaltic material		None detected	Asphalt/binder		Synthetic fibers, Cellulose
		3	Black asphaltic fibrous material		None detected	Asphalt/binder	37	Glass fibers
		4	White chalky material with paper		None detected	Binder/filler, Gypsum/binder	27	Cellulose
2006208556	40573.012- 076	1	Silver paint	2	Chrysotile	Paint	15	Cellulose, Wollastonite
		2	Black asphaltic material		None detected	Asphalt/binder	25	Synthetic fibers, Cellulose
		3	Silver paint	2	Chrysotile	Paint	17	Cellulose, Wollastonite
		4	Black asphaltic material		None detected	Asphalt/binder	27	Synthetic fibers, Cellulose

Reviewed by: Steve (Fanyao) Zhang, President

200821489



Proj	ect: KCITA - Mur	nao May	70 a-		40573-012
Anal	lysis requested:	PLM_	· · · · · · · · · · · · · · · · · · ·	Date: <u>//</u>	
Reli	nq'd by/Signature:	t B		Date/Tim	e: 127-06/1700
Rece	eived by/Signature:	Leve.	Zhang_	Date/Tim	100/100/17:00
Fax	results to:				7
	Brian Stanford		Prudy Sloudt-McRac		Harry Goren
<b>25</b>	Ernest Edwards		Chuck Greeb		John Caprimo
	Gregg Middaugh		Mike Smith		Tim Ogden
	Mark Hiloy	•	Janet Murphy		Other
TUF	RN AROUND TIME:	•		•	
	1 Hour	<b>≯</b> ⊠′	24 Hours		3-5 Days
	2 Hours		48 Hours		Other
· 🗆	4 Hours				

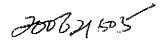
Lab# Vood	Sample #	Миteriul	1.ocation	Lab
201960	40577.012-001	Brige Posterne & Short Phonin	4 unit 211 titchen	Sp.T
61	_002_	BROWN Combose/mutic	unite 211 - Bathagom	
60	_003	1	anit 319- "	<u> </u>
63	-004	11	Unit 118- 11	
660	- 005	Jeck Coating	anit 211 - Ducke Floor	
63	-066		unit 213. "	
66	-0c7	Jont Compound Cow B	anit 112- liver pour	
67	- 00 8	<b>,</b>	unit 219 - Classet	
68	- 009	i.	unit 216 Bedroom Closes	
fς	- 0(0		Unit 312 - Living Room	
10	-011	12" Brige Hose tile/mytic	unit 114 - Kitchen	
0!	~ 012	1 11	Unit 115 - Eitehan	<del>                                     </del>
12	- 013	4	unit 317- Kitchen	<del>                                     </del>
13	-014	Caramir tile Murie	Unit 313 - Restream	<del>                                     </del>
1	- 015	f 1	unit 115- Buttaron	

Joob N 489



Proj	ject: ICHA - Mu	nno Mar	26.6	Project #:	40573,012
Ana	lysis requested:	PLM		Date: /ユ	B-06
Reli	nq'd by/Signature:	mut So		Date/Tim	e: 12-7-06 /1700
Rec	eived by/Signature:	Here 2	hung	Date/Tim	e: 12/7/08/1701
Fax	results to:				/
	Brian Stanford		Prudy Stoudt-McRae	. 🗖	Harry Goren
TS .	Ernest Edwards		Chuck Greeb		John Caprimo
	Gregg Middaugh	. 🗆	Mike Smith	. 🗆	Tim Ogden
П	Mark Hiley		Janet Murphy		Other
TUI	RN AROUND TIME:				
	1 Hour	4	24 Hours		3-5 Days
	2 Hours		48 Hours		Other
	4 Hours				

		BULKSAMPLEDALA	FORM	
Lab#	Sample #	Material	Location	Lab
201975	40573.012-016	Black Sink underconting	unit 112 Kitchen	SAT
76	_ 017	11	anit 211 kitchen	
77	- 018	4	unit 119 Kitchen	
78	-019	Tan Corebase / Brown	unit 219 kitchen	
18	-026		anit 718 kitchen	
30	-021	Door From Contking	unit 112 - SLider	
81	- 022	Paint/wall Coating	unit 116 Budeson	
89	-023	и	Unit 316 Bathroon	
03	+50-	Brown Febbled Shut floor	unit 114 Dathroom	
84	V -025	Yellow Sheet Glosy Robbled S. Gleon	unit 315 Bothroom	V
/	-			







Proj	ect: <u>KCHA – Munro M</u>	lanor	A state of the sta	Project #	<u>: 40573.012</u>	
	lysis requested:	PLM		Date:	-8-06	
Reli	nq'd by/Signature	Date/Time: 12-8-06 /1-, 1-				
Rece	eived by/Signature:	Trans	22	Date/Tin	ne: 12/8/06	5.05
Fax	results to:					/
	Brian Stanford		Prudy Stoudt-McRae		Harry Goren	
<b>₽</b>	Emest Edwards		Chuck Greeb		John Caprimo	
	Gregg Middaugh		Mike Smith		Tim Ogden	
	Mark Hiley		Janet Murphy	0	Other	
TUF	RN AROUND TIME:					
	1 Hour	734	24 Hours		3-S Days	
	2 Hours	□	48 Hours		Other	
	4 Hours					

			evenicuseus (2)	
I.ab#	Sample #	Material	Location	Lab
1	40573.012 - 026	Joint Compound/GWB	Unit 19 - Closet	SAT
	40573.012 - 027	Joint Compound/GWB	Unit 211 – Closet Ceiling	
41	40573.012 028	Joint Compound/GWB	Unit 210 - Closet Coiling	
42	40573 <u>.012</u> – 029	Joint Compound/GWB	Unit 106 - Kitchen	
, je	40573.012 - 030	Gypsum Wallboard	Unit 18 - Living Room - field	
Ye	40573.012 - 031	Lightweight Concrete Flooring	Unit 200 – Kitchen	
74	40573.012 - 032	Lightweight Concrete Flooring	Unit 203 – Living Room	
46	40573,012 - 033	12" Beige Floor Tile (type 2)	Unit 200 - Kitchen	
*)	40573.012 - 034	Backsplash Mastic/Joint Comp	Unit 203 - Kitchen	<u> </u>
\v\$	40573.012 - 035	12" Beige Floor Tile (Type 1)	Unit 15 - Kitchen	<u> </u>
	40573,012 - 036	Black Sink Undercoating	Unit 111 - Kitchen	
, ,	40573.012 - 037	Fire Door Insulation	2 <sup>nd</sup> Floor - South wing	<u> </u>
	40573.012 - 038	Paint/Wall Coating	Unit 207 - Closet	<u> </u>
	40573.012 - 039	Paint/Wall Coating	Unit 21 - Living Room Wall	
	40573.012 040	Paint/Wall Coating	Unit 20 – Living Room Wall	<u> </u>



Project	: KCHA – Munro M	anor	Project #: <u>40573.012</u>	
Analysi	is requested:	PLM	Date: 12-7-06	
Relinq'	d by/Signature	Emt 55	Date/Time: 12-6-06 /171	<u>ح</u>
	ed by/Signature:	mon	Datc/Time: M8/02.	<u>, C. 20</u> C
Fax res	sults to:			
_	Brian Stanford	☐ Prudy Stoudt-McRsc	☐ Harry Goren ☐ John Caprimo	
~	Ernest Edwards	☐ Chuck Greeb ☐ Mike Smith	□ John Caprimo □ Tim Ogden	
	Gregg Middaugh Mark Hiley	☐ Janet Murphy	Other	
THEN	AROUND TIME:			
	l Hour	24 Hours	☐ 3-5 Days	
_	2 Hours	☐ 48 Hours	Other	
	4 Hours			
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
Lab#	Sample #	Material	Location	Lab
20871	40573.012 - 041	Paint/Wall Coating	Unit 107 – Living Room Wall	SAT
1	<u> 40573.012 – 042</u>	Brown Covehase/Mastic	Unit 104 - Bathroom	$\perp \downarrow \downarrow$
d	40573.012 – 043	Tan Covebase/Mastic	Unit 12 - Kitchen	
خ	40573.012 <u>- 044</u>	Brown Pebbled Sheet Flooring	Unit 14 – Bathroom	_
ا	र्क 40573.012 – 04 <u>5</u>	Brown Pebbled Sheet Flooring	Unit 207 - Bathroom	
	40573,012 - 046	Ceramic Tile Mastic	Unit 17 - Bathroom	<del>\  _ </del>
	ξ <sub>ν</sub> 40573.012 – 047	Beige Sheet Flooring	Unit 200 - Bathroom	4,
£	9 40573.012 – 048	Sliding Door Frame Sealant	Unit 16 - Door to patio	
	<u> </u>			

2006 not 4





Proj	ect: KCHA - Mun	co Mi	nor	Project #	: 40373.012	-
Anal	lysis requested:	PLM			2-11-06	_
Reli	nq'd by/Signature:	the there	/ <u></u>	Date/Tim	ie: 12-11-06 /1700	-
Rece	eived by/Signature:	7.1	7 <u>.</u>	Date/Tim	1e: 1211 /07 C.F	つ -
Fax	results to:				/	
	Brian Stanford	j 🗆	Prudy Stoudt-McRae		Harry Goren	
Z	Ernest Edwards		Chuck Greeb		John Caprimo	
	Ciregg Middaugh		Mike Smith		Tim Ogden	
	Mark Hilcy	🗖	Janet Murphy		Other	-
TUR	RN AROUND TIME:	And a second party of the party	·			
	1 Hour	区	24 Hours	Ö	3-5 Days	
	2 Hours		48 Hours		Other	
	4 Hours			•		

Lah# 2006	Sample #	Material	Location	L	ıp
208197	40573.012-049	Stucto	Unit 102 Deck	5 4	1
198	- 650	1)	unit 104 Duck	$\vdash$	
199	,		Unit 108 Deck	_	
200	-052	ary fished willing the (type)	15 Pla-office foyer	***************************************	<u> </u>
201	_ 053	<i>J</i> s	4		<del> </del>
203	-054	244 Essard William Fit (Type 2)	Cimmunity Room	-	<u></u>
303	220		13	-	<u> </u>
goo	- 056	Gypsum womboard	2st floor lobby		
207	-057	Jani Compound fru B	Ment - south Corridor		
201	~ ors		JRD flow Conder worth		_
201	i I	Komes webard mytic/amb	11 Floor lebby	-	-
708	-060	Brown Corchone mutil	Jad floor Consider North	-	
209	- 061	11	2013 Phore Consider - South		<u> </u>
210	<del>- \                                   </del>	RINK LINK unducont	Community roum	$\vdash$	
2M	V -063	Corpet Mutic	Elevitor		

Joobson of



Anal	ysis requested:	PLM	and the same of th		: 40573.012 -11-06	7
Relir	Relinq'd by/Signature:			Date/Tim	re: 12-11-06	1700
Rece	ived by/Signature	12 -	21-26	Date/Tim	nc: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7 <u>1.</u>
Fax :	results to:				/	<b>,</b> 
	Brian Stanford		Prudy Stoudt-McRac	. $\square$	Harry Geren	I
Ø	Emest Edwards		Chuck Greeb		John Cuprimo	
	Gregg Middaugh		Mike Smith		Tim Ogden	
	Mark Hiley		Janet Murphy		Other	,
TUR	N AROUND TIME:	-				
	l Hour	₩	24 Hours		3-5 Days	
	2 Hours		48 Hours		Other	
	4 Hours					

1.ah# 2006	Sample #	Material	Lucation	1, 16
208217	4,573.012-064	12" Brige flown tile /m Ata	Community Room	SIT
13	1	Banen Corebon/matio	1st floor Corrila - South	
14	-061	deck Conting	unit 207	
(6	-067	I'm public Short Flooring	1st floor - Women a Restroyen	
16		Paint/wan conting	List Floor - Smither Christ	
17		Nove From & Stal	Community Room- Exterior	
18		aromic tile Mutickompand	1st flow men Retroom	
19	71	Backsplain Mexic	2 nd Stone - laundmy	$  \downarrow  _{i-1}$
20	1 1 1	Ton Covebose/ Brown Mustice	1	
	_			
,				

SEATTLE ASBESTOS TEST, LLC

BATCH 200821576

Bu	ilk Analysis į		IAIN OF (			Point Co	unt 1000 _	·-
Turn Ai	round Time	24 her	Number of 8	Sample	s 🔾Clier	n Job#	405 <b>33</b> -	012
	Name_66	_			sia.			
Address	3		Ci	ity		State	Zip	
Phone		Fax	-	Em	ail	Jem 17	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Project	Location 6	Museo K	nonoeCke	CHA.	Project Ma	nager <b>E</b>	· Salva	ig A
Si	ample Cond	ition: Good	Damaged_	·: —-	Severe Dama	ge(Spilla	ige)	<del></del>
SEQ#	SAMPLE II		ESCRIPTION		Lab ID	Comme		A/R
1			+/BUR		2006,208853	Elevat	ar-	1
			ST/ DUILD		124	10.000	Rock (Ce)	d
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4		076	<i>i</i> ;		3/2	Cours in	<del>Q, r, Q - r, r, c</del>	
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6				<del></del>				
7								· · · · · ·
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9	» •					<u> </u>	W. V. V	
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12						<u> </u>		
13						<u> </u>		_
14								
15	1	•					**************************************	
	The state of the s							
		Print	Signature	Com	pany Name	12	Date	Time
Sample	d by	E. Edward	Bunk &		65		12-10-06	
	uished by	E, Edward	Esset &	19	5.5		12-14-06	2251
Delive				<u> </u>		<u> </u>	12/190	7/163/12-
Receiv		- Land	12-2-	<u> </u>	-3/V		2/ / /-	1
Analyz		Short	47	<del> </del>	122	7_	11/20/0	17:57
Scattle sample	submitted, and a manty of merchaults. By signing	arrants the lest resu disclaims any other	is to be of a precision warrants, expressed of thestos Test accepts ents agree to relieve	or unpact	a, memoriality for the	e auroose fe	or which the c	lient uses
Result	Reporting me	thod:	hone	Fax	timail	) 1	Pick Up Rep	ort .

### FLAME AAS PAINT CHIP SAMPLE INVENTORY - LEAD

PBS Sample #	Paint Color/ Substrate/Component	Sample Location	Pb Result (mg/kg)	Pb % Result	<u>Lab</u>
40573.012 -Pb01	Brown/Hand Rail/Metal	Unit 221 Balcony Railing	24000.0	2.4000	NVL
40573.012 -Pb02	White/Wall/Gypsum Wallboard	3rd Floor - Laundry Room	270.0	0.0270	NVL
40573.012 -Pb03	White/Wall/Gypsum Wallboard	1st Floor - North Corridor	1100.0	0.0110	NVL
40573.012 -Pb04	White/Wall/Gypsum Wallboard	2nd Floor - Corridor	<41.0	<0.0041	NVL
40573.012 -Pb05	White/Wall/Gypsum Waliboard	Unit 203 - Living Room	<42.0	<0.0042	NVL
40573.012 -Pb06	White/Wall/Gypsum Wallboard	Unit 20 - Dining Room	<42.0	<0.0042	NVL
40573.012 -Pb07	White/Beam/Gypsum Wallboard	Unit 103 - Structural Beam	<41.0	<0.0041	NVL

# **NVL Laboratories, Inc.**

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

# **Analysis Report**

AIHA - IH # 101861 WA - DOE # C1765



Total Lead (Pb)

Client: PBS Environmental (Seattle)

Address: 130 Nickerson St

Suite 107

Seattle, WA 98109

Attention: Mr. Ernest Edwards

Project Location: KCHA - Munro Manor

Batch #: 2616676.00

Matrix: Paint Chips

Method: EPA 7000B

Client Project #: 40573.012

Date Received: 12/11/2006

Samples Received: 7

Samples Analyzed: 7

Lab ID	Client Sample #	Sample Weight	RL in mg/Kg	Results in mg/Kg	Results in percent
26115114	40573.012-Pb01	0.1975	43.0	24000.0	2.4000
26115115	40573.012-Pb02	0.2140	40.0	270.0	0.0270
26115116	40573.012-Pb03	0.2171	39.0	1100.0	0.1100
26115117	40573.012-Pb04	0.2088	41.0	< 41.0	< 0.0041
26115118	40573.012-Pb05	0.2018	42.0	< 42.0	< 0.0042
26115119	40573.012-Pb06	0.2030	42.0	< 42.0	< 0.0042
26115120	40573.012-Pb07	0.2058	41.0	< 41.0	< 0.0041

Sampled by: Client

Analyzed by: Michael Dougherty

Percent = Milligrams per kilogram / 10000

Reviewed by: Nick Ly

mg/ Kg =Milligrams per kilogram

Date Analyzed: 12/12/2006 Date Issued: 12/12/2006

RL = Reporting Limit

'<' = Below the reporting Limit

Nick-Ly, Technical Director-

Note: Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 26-1212-1



# 2616676.00

Project: KCHA – Munro Manor				Project #: <u>40573.012</u> Date: <u>12-11-06</u> Date/Time: <u>12-11-06 / /5 / 5</u>	
Analysis requested: <u>AA – Total Lead</u> Relinq'd by/Signature: <u>J</u>					
Received by/Signature: EVIII (MIS				Date/Time: 12/11/00 1915	
Fax 1	results to:				
	Brian Stanford		Prudy Stoudt-McRae		Harry Goren
전	Ernest Edwards		Chuck Greeb		John Caprimo
	Gregg Middaugh		Mike Smith		Tim Ogden
	Mark Hiley		Janet Murphy		Other
TUR	N AROUND TIME:				
	1 Hour	<b>A</b>	24 Hours		3-5 Days
	2 Hours 4 Hours		48 Hours		Other

## **BULK SAMPLE DATA FORM** Lab# Sample # Material Location 40573.012 - Pb01 Brown/Metal/Hand Rail Unit 221 Deck Railing NVL 3<sup>rd</sup> Floor – Laundry 40573.012 - Pb02White/GWB/Wall 1st Floor North Corridor 40573.012 - Pb03 White/GWB/Wall 2<sup>nd</sup> Floor Corridor 40573.012 - Pb04 White/GWB/Wall Unit 203 Living Room 40573.012 - Pb05White/GWB/Wall 40573.012 - Pb06White/GWB/Wall Unit 20 Dining Room 40573.012 - Pb07 White/GWB/Beam Unit 103 - Structural Beam

# Certificate of Completion

This is to certify that **Ernest Edwards** 

has satisfactorily completed 4 hours of refresher training as an Asbestos Building Inspector

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

Certificate Number: 1020842

Hank Instructor

EPA Provider Cert. Number: 1085

Feb 22, 2006

ARGUS
SAFETY - TRAINING - INDUSTRIAL HYGIENE

Date(s) of Training

Exam Score: NA

Expiration Date: Feb 22, 2007

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • (206) 285.3373 • fax (206) 285.3927

