ASBESTOS AND LEAD SURVEY

1529 – 4th Avenue West
Seattle, Washington

Prepared for: Seattle Public Library
1000 Fourth Avenue, 11th Floor
Seattle, Washington 98104-1109

November 12, 2012

Project Number 12-11002

Eco
Compliance
Corporation

Environmental Scientists, Planners and Consultants

1823 Bremerton Ave NE
Renton, WA 98059-3954
phone (425) 271-5629
fax (425) 271-5629
www.ecocompliance.biz

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

EXECUTIVE SUMMARY

On Friday, November 2, 2012, an investigation was conducted of the subject 1529 – 4th Avenue West building in Seattle, King County, Washington. Future plans call for the removal and replacement of various shelving units within the main floor north interior of the building. The purpose of this investigation, conducted by Bill Kane from Eco Compliance Corporation, was to identify asbestos- and lead-containing materials within this area of the building that could be impacted by this planned work.

Results from the subject asbestos and lead survey are briefly summarized below.

ASBESTOS

The subject area of the building was in service during the time of the asbestos survey. There was only limited access to the wall cavities. The doors were not cored. Pipe insulation material was not sampled. The windows were not inspected.

Overall, a total of 18 samples were collected and analyzed for asbestos content (sample numbers 1 through 18). From these samples, asbestos was detected in the 12-by-12-inch floor tile and mastic (sample numbers 1 through 4). This floor tile and mastic is typical throughout this main floor north interior area of the building.

Asbestos was also detected in the cove mastic (sample numbers 5, 6 and 7), but at concentrations that are below the regulatory limit of >1%.

Generally, materials that contain >1% asbestos, such as the floor tile and mastic as noted above, must be properly removed and disposed of by a licensed asbestos abatement contractor prior to any renovation or demolition activity that may disturb the materials.

Materials that contain <1% asbestos, such as the cove mastic as noted above, generally do not have to be removed by an asbestos abatement contractor prior to any renovation or demolition activities that may disturb the materials. A general contractor can perform this work. However, please note that Labor & Industries (L&I) requires that many of the same worker protection measures be taken (respirator, taping off the work area, keeping the materials wet during removal, air monitoring, etc.) when working with this material as though it contains >1% asbestos. Therefore and at a minimum, workers must have asbestos awareness training (an approximate 8-hour class) prior to working with this type of asbestos material.

There was no asbestos detected in the other samples collected from the subject first floor north interior of the building. There were no other obvious suspect asbestos materials noted within this area during the time of this survey.

LEAD

A total of 5 samples were collected from the subject main floor north interior of the building and analyzed for total lead content (sample numbers L1 through L5). From these samples, lead was detected in the ceiling paint/skim coat material and wall paint/skim coat material at concentrations that are above the L&I and/or the EPA/HUD standards (sample numbers L1, L2 and L3).

There was no lead detected in the wall and ceiling plaster material (sample number L4), or in the brick wall mortar material (sample number L5). However, lead may still be present in these materials at concentrations below the analytical detection limits reported herein, and should therefore be considered to be lead-containing.

Overall, for any renovation or demolition activity involving lead-containing materials, a contractor must be used that has had lead-awareness training. Because this building, in its current use, is not considered to be a "child-occupied" structure (an area visited by the same child 6 years of age or younger at least 2 days within any week, provided that each day's visit lasts at least 3 hours and the combined weekly visits total at least 6 hours, and the combined annual visits total more than 60 hours), it is not necessary to use a contractor that has been certified under the Renovation, Repair and Painting (RRP) training requirements.

Also, appropriate health and safety precautions should be taken to minimize or eliminate human and environmental exposure to lead. These precautions should include:

- Minimize cutting, scraping or sanding as possible.
- Keeping the surface wet to minimize dust.
- Enclosing the work area with plastic to minimize dust and particulate migration.
- Wearing a respirator.
- Conducting air monitoring to ensure worker safety and protection of the environment.
- Washing hands before leaving the work area, eating or smoking.
- Restricting public access to the work area.

In addition, contractors and other personnel who may come into contact with lead-containing materials should be notified of its existence and location.

LIMITATIONS

This survey was conducted using reasonable efforts to identify asbestos and other hazardous materials within the subject area of the building. However, without demolishing the structure, some materials may exist in unforeseen or inaccessible areas. As a result, it is recommended that an asbestos building inspector or other competent asbestos person be available onsite during renovation to ensure no asbestos or other hazardous materials exist in areas or materials not identified herein.

1. INTRODUCTION

On Friday, November 2, 2012, an investigation was conducted of the subject 1529 – 4th Avenue West building in Seattle, King County, Washington. Future plans call for the removal and replacement of various shelving units within the main floor north interior of the building. The purpose of this investigation, conducted by Bill Kane from Eco Compliance Corporation, was to identify asbestos- and lead-containing materials within this area of the building that could be impacted by this planned work.

The asbestos survey was conducted following guidance established under the Asbestos Hazard Emergency Response Act (AHERA). Mr. Kane is a certified AHERA building inspector.

Results from the subject asbestos and lead survey are discussed below.

2. ASBESTOS SURVEY

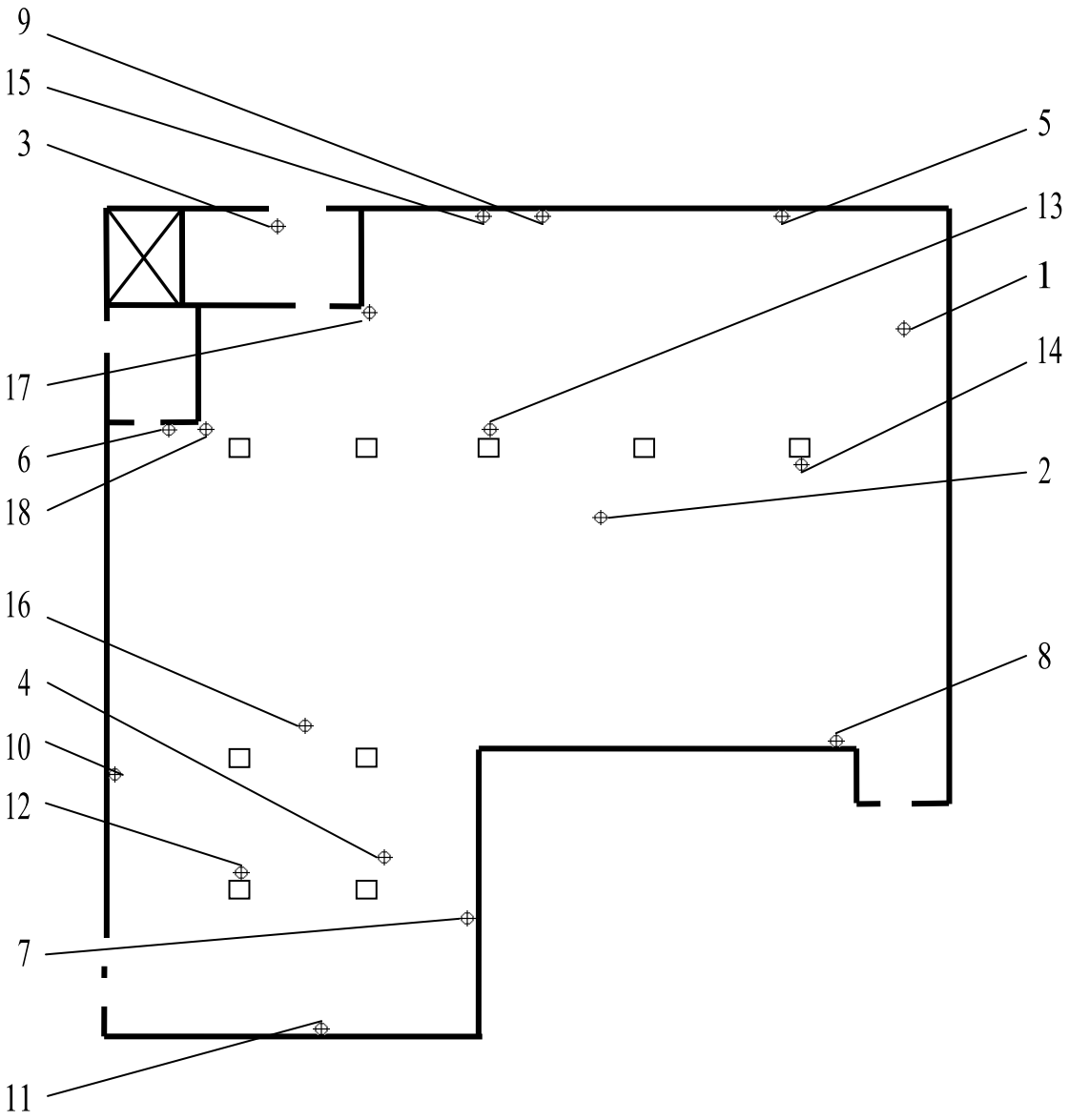
The subject main floor north interior of the building has a concrete floor covered with vinyl floor tile, plaster, brick and concrete walls, and a concrete ceiling.

The subject area of the building was in service during the time of the asbestos survey. There was only limited access to the wall cavities. The doors were not cored. Pipe insulation material was not sampled. The windows were not inspected.

Overall, a total of 18 samples were collected from the subject area of the building and analyzed for asbestos content (sample numbers 1 through 18) (Figure 1). Samples were analyzed by Novo Laboratory in Burien, Washington. Novo is an accredited laboratory for the analysis of asbestos-containing materials.

Asbestos analytical data is attached as Appendix A and summarized below in Table 1.

Figure 1. Approximate asbestos sampling locations. Main floor north interior. 1529 – 4th Avenue West. November 2, 2012.



(425) 271-5629

Table 1. Asbestos analytical results. Main floor north interior. 1529 – 4th Avenue West. November 2, 2012.

Sample Number	Location/Description	Asbestos Content (%)	Asbestos Limit (%)
1	12-by-12-inch floor tile with mastic over a concrete floor. Typical throughout this area of the building.	**3 floor tile** **5 tile mastic** ND concrete flooring	>1
2	12-by-12-inch floor tile with mastic over a concrete floor. Similar to sample number 1 noted above.	**3 floor tile** **5 tile mastic** ND concrete flooring	>1
3	12-by-12-inch floor tile with mastic over a concrete floor. Similar to sample numbers 1 and 2 noted above.	**3 floor tile** **5 tile mastic** ND concrete flooring	>1
4	12-by-12-inch floor tile with mastic over a concrete floor. Similar to sample numbers 1, 2 and 3 noted above.	**3 floor tile** **5 tile mastic** ND concrete flooring	>1
5	Rubber cove base with mastic over a concrete cove base. Typical.	ND rubber cove base **<1 cove mastic** ND concrete cove base	>1
6	Cove base mastic over a concrete wall material. Typical.	**<1 cove mastic** ND concrete wall material	>1
7	Rubber cove base with mastic over a concrete cove base. Similar to sample number 5 noted above.	ND rubber cove base **<1 cove mastic** ND concrete cove base	>1
8	Wall skim coat material over plaster material over a metal mesh. Typical.	ND	>1

(425) 271-5629

Table 1 (continued). Asbestos analytical results. Main floor north interior. 1529 – 4th Avenue West. November 2, 2012.

Sample Number	Location/Description	Asbestos Content (%)	Asbestos Limit (%)
9	Wall skim coat material over plaster material over a metal mesh. Similar to sample number 8 noted above.	ND	>1
10	Wall skim coat material over plaster material over a metal mesh. Similar to sample numbers 8 and 9 noted above.	ND	>1
11	Wall brick and mortar material. Typical.	ND	>1
12	Skim coat material and plaster material over a concrete post. Typical.	ND	>1
13	Skim coat material and plaster material over a concrete post. Similar to sample number 12 noted above.	ND	>1
14	Skim coat material and plaster material over a concrete post. Similar to sample numbers 12 and 13 noted above.	ND	>1
15	Ceiling skim coat material and plaster material over a metal mesh. Typical.	ND	>1
16	Skim coat and concrete ceiling beam material. Typical.	ND	>1
17	Concrete cinder block wall and mortar material. Typical.	ND	>1
18	Concrete wall material. Typical.	ND	>1

ND Asbestos was not detected in the sample.

<1 Asbestos was detected in the sample, but at a concentration that is below the regulatory limit of >1%.

As indicated in Table 1, asbestos was detected in the 12-by-12-inch floor tile and mastic (sample numbers 1 through 4). This floor tile and mastic is typical throughout this main floor north interior area of the building.

Asbestos was also detected in the cove mastic (sample numbers 5, 6 and 7), but at concentrations that are below the regulatory limit of >1%.

There was no asbestos detected in the other samples collected from the subject first floor north interior of the building. There were no other obvious suspect asbestos materials noted within this area during the time of this survey.

3. LEAD SAMPLING

Given the apparent age of the structure, lead is suspected in various building materials. A total of 5 samples were collected from the main floor north interior of the building and analyzed for total lead content (sample numbers L1 through L5).

Lead analytical data is attached as Appendix B and summarized below in Table 2.

Table 2. Lead analytical results. Main floor north interior. 1529 – 4th Avenue West. November 2, 2012.

Sample Number	Location/Description	Total Lead Content (ppm)	Lead Standard (ppm)
L1	Composite of ceiling paint and skim coat material.	**2,910**	5,000 (EPA/HUD) >0 (L&I)
L2	Composite of rust-colored wall paint and skim coat material.	**7,160**	5,000 (EPA/HUD) >0 (L&I)
L3	Composite of white-colored wall paint and skim coat material.	**4,420**	5,000 (EPA/HUD) >0 (L&I)
L4	Composite of wall and ceiling plaster material.	ND(100)	5,000 (EPA/HUD) >0 (L&I)
L5	Brick wall mortar material.	ND(100)	5,000 (EPA/HUD) >0 (L&I)

ND(100) Not detected above the analytical detection limit of 100 parts-per-million (ppm).

EPA (United States Environmental Protection Agency) and HUD (United States Department of Housing and Urban Development) consider paint to be lead-containing (regulated) if it has an analytical lab result of 5,000 parts-per-million (ppm [mg/kg]) or more. The Washington State Department of Labor and Industries (L&I) considers a material to be lead-containing (regulated) if it has any detectable concentration of lead (>0 ppm) based on lab analysis.

As indicated in Table 2, lead was detected in the ceiling paint/skim coat material and wall paint/skim coat material at concentrations that are above the L&I and/or the EPA/HUD standards (sample numbers L1, L2 and L3).

There was no lead detected in the wall and ceiling plaster material (sample number L4), or in the brick wall mortar material (sample number L5).

4. SIGNATURE

_____

Bill Kane
AHERA Building Inspector, certification number 135746, expires March 7, 2013
bill@ecocompliance.biz

5. LIMITATIONS

This survey was conducted using reasonable efforts to identify asbestos and other hazardous materials within the subject area of the building. However, without demolishing the structure, some materials may exist in unforeseen or inaccessible areas. As a result, it is recommended that an asbestos building inspector or other competent asbestos person be available onsite during renovation to ensure no asbestos or other hazardous materials exist in areas or materials not identified herein.

NOVO
Laboratory & Consulting Services, Inc.

138 SW 154th Street Burien, WA 98166
OFFICE: 206.244.1060 FAX: 206.244.1063

PLM Asbestos Analysis Report*

ECO Compliance
1823 Bremerton Avenue NE
Renton, WA 98059
Project Location: Glenn

NLCS, Inc Number: **12-0550**
Client Number:
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Client Sample Number: **1** Lab Sample Number: **12-0550.001**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Tan floor tile with streaks

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
3% Chrysotile Asbestos		97% Filler and binder

Layer 2 Black asphaltic mastic

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
5% Chrysotile Asbestos		95% Asphaltic filler and binder

Layer 3 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Client Sample Number: **2** Lab Sample Number: **12-0550.002**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Tan floor tile with streaks

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
3% Chrysotile Asbestos		97% Filler and binder

Layer 2 Black asphaltic mastic

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
5% Chrysotile Asbestos		95% Asphaltic filler and binder

Layer 3 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Sampled By: Client
Received By: Crystal Wright **11/2/2012**
Reviewed By: Crystal Wright **11/8/2012**

Crystal Wright, Laboratory Supervisor

NOVO
Laboratory & Consulting Services, Inc.

138 SW 154th Street Burien, WA 98166
OFFICE: 206.244.1060 FAX: 206.244.1063

PLM Asbestos Analysis Report*

ECO Compliance
1823 Bremerton Avenue NE
Renton, WA 98059
Project Location: Glenn

NLCS, Inc Number: **12-0550**
Client Number:
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Client Sample Number: **3** Lab Sample Number: **12-0550.003**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Tan floor tile with streaks

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
3% Chrysotile Asbestos		97% Filler and binder

Layer 2 Black asphaltic mastic

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
5% Chrysotile Asbestos		95% Asphaltic filler and binder

Layer 3 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Client Sample Number: **4** Lab Sample Number: **12-0550.004**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Tan floor tile with streaks

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
3% Chrysotile Asbestos		97% Filler and binder

Layer 2 Black asphaltic mastic

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
5% Chrysotile Asbestos		95% Asphaltic filler and binder

Layer 3 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Sampled By: Client
Received By: Crystal Wright **11/2/2012**
Reviewed By: Crystal Wright **11/8/2012**

Crystal Wright, Laboratory Supervisor

NOVO
Laboratory & Consulting Services, Inc.

138 SW 154th Street Burien, WA 98166
OFFICE: 206.244.1060 FAX: 206.244.1063

PLM Asbestos Analysis Report*

ECO Compliance
1823 Bremerton Avenue NE
Renton, WA 98059
Project Location: Glenn

NLCS, Inc Number: **12-0550**
Client Number:
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Client Sample Number: **5** Lab Sample Number: **12-0550.005**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Brown pliable material
Asbestos Fibrous Component: Non Asbestos Fibrous Component: Non Fibrous Component:
NO ASBESTOS DETECTED 100% Filler and binder

Layer 2 Brown brittle mastic
Asbestos Fibrous Component: Non Asbestos Fibrous Component: Non Fibrous Component:
<1% Tremolite Asbestos 99% Filler and binder

Layer 3 Gray coarse material
Asbestos Fibrous Component: Non Asbestos Fibrous Component: Non Fibrous Component:
NO ASBESTOS DETECTED 100% Filler and binder

Client Sample Number: **6** Lab Sample Number: **12-0550.006**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Brown brittle mastic
Asbestos Fibrous Component: Non Asbestos Fibrous Component: Non Fibrous Component:
<1% Tremolite Asbestos 99% Filler and binder

Layer 2 Paint on gray coarse material
Asbestos Fibrous Component: Non Asbestos Fibrous Component: Non Fibrous Component:
NO ASBESTOS DETECTED 100% Filler and binder

Client Sample Number: **7** Lab Sample Number: **12-0550.007**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Brown pliable material
Asbestos Fibrous Component: Non Asbestos Fibrous Component: Non Fibrous Component:
NO ASBESTOS DETECTED 100% Filler and binder

Layer 2 Brown brittle mastic
Asbestos Fibrous Component: Non Asbestos Fibrous Component: Non Fibrous Component:
<1% Tremolite Asbestos 99% Filler and binder

Layer 3 Paint on gray coarse material
Asbestos Fibrous Component: Non Asbestos Fibrous Component: Non Fibrous Component:
NO ASBESTOS DETECTED 100% Filler and binder

Sampled By: Client
Received By: Crystal Wright **11/2/2012**
Reviewed By: Crystal Wright **11/8/2012**

Crystal Wright, Laboratory Supervisor

NOVO
Laboratory & Consulting Services, Inc.

138 SW 154th Street Burien, WA 98166
OFFICE: 206.244.1060 FAX: 206.244.1063

PLM Asbestos Analysis Report*

ECO Compliance
1823 Bremerton Avenue NE
Renton, WA 98059
Project Location: Glenn

NLCS, Inc Number: **12-0550**
Client Number:
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Client Sample Number: **8** Lab Sample Number: **12-0550.008**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Paint on white hard material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Layer 2 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Client Sample Number: **9** Lab Sample Number: **12-0550.009**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Paint on white hard material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Layer 2 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Client Sample Number: **10** Lab Sample Number: **12-0550.010**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Paint on white hard material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Layer 2 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Sampled By: Client
Received By: Crystal Wright **10/25/2012**
Reviewed By: Crystal Wright **10/29/2012**

Crystal Wright, Laboratory Supervisor

NOVO
Laboratory & Consulting Services, Inc.

138 SW 154th Street Burien, WA 98166
OFFICE: 206.244.1060 FAX: 206.244.1063

PLM Asbestos Analysis Report*

ECO Compliance
1823 Bremerton Avenue NE
Renton, WA 98059
Project Location: Glenn

NLCS, Inc Number: **12-0550**
Client Number:
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Client Sample Number: **11** Lab Sample Number: **12-0550.011**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Red hard chunks

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Layer 2 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Client Sample Number: **12** Lab Sample Number: **12-0550.012**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Paint on white hard material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Layer 2 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Client Sample Number: **13** Lab Sample Number: **12-0550.013**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Paint on white hard material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Layer 2 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Sampled By: Client
Received By: Crystal Wright **11/2/2012**
Reviewed By: Crystal Wright **11/8/2012**

Crystal Wright, Laboratory Supervisor

NOVO
Laboratory & Consulting Services, Inc.

138 SW 154th Street Burien, WA 98166
OFFICE: 206.244.1060 FAX: 206.244.1063

PLM Asbestos Analysis Report*

ECO Compliance
1823 Bremerton Avenue NE
Renton, WA 98059
Project Location: Glenn

NLCS, Inc Number: **12-0550**
Client Number:
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Client Sample Number: **14** Lab Sample Number: **12-0550.014**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Paint on white hard material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Layer 2 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Client Sample Number: **15** Lab Sample Number: **12-0550.015**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Paint on white hard material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Layer 2 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Client Sample Number: **16** Lab Sample Number: **12-0550.016**
Samples Description:
Sample Location:
Analysis Comment:

Layer 1 Paint on white hard material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Layer 2 Gray coarse material

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Sampled By: Client
Received By: Crystal Wright **11/2/2012**
Reviewed By: Crystal Wright **11/8/2012**

Crystal Wright, Laboratory Supervisor

NOVO
Laboratory & Consulting Services, Inc.

138 SW 154th Street Burien, WA 98166
OFFICE: 206.244.1060 FAX: 206.244.1063

PLM Asbestos Analysis Report*

ECO Compliance
1823 Bremerton Avenue NE
Renton, WA 98059
Project Location: Glenn

NLCS, Inc Number: **12-0550**
Client Number:
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Client Sample Number: **17** Lab Sample Number: **12-0550.017**
Samples Description:
Sample Location:
Analysis Comment:

Paint on gray hard coarse chunk

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Client Sample Number: **18** Lab Sample Number: **12-0550.018**
Samples Description:
Sample Location:
Analysis Comment:

Paint on gray hard coarse chunk

Asbestos Fibrous Component:	Non Asbestos Fibrous Component:	Non Fibrous Component:
NO ASBESTOS DETECTED		100% Filler and binder

Sampled By: Client
Received By: Crystal Wright **11/2/2012**
Reviewed By: Crystal Wright **11/8/2012**

Crystal Wright, Laboratory Supervisor

EMC LABS, INC.

9830 South 51st Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726
emclab@emclabs.com

LEAD (Pb) IN PAINT CHIP SAMPLES

EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420

EMC LAB #:	L47059	**DATE RECEIVED:**	11/05/12
CLIENT:	Novo	**REPORT DATE:**	11/08/12
		DATE OF ANALYSIS:	11/08/12
CLIENT ADDRESS:	138 SW 154th St, Unit B Burien, WA 98166	**P.O. NO.:**	
PROJECT NAME:	ECO / Glenn	**PROJECT NO.:**	

EMC # L47059-	SAMPLE DATE /12	CLIENT SAMPLE #	DESCRIPTION	REPORTING LIMIT (%Pb by weight)	%Pb BY WEIGHT
1	11/02	L1	Lead Paint	0.010	0.291
2	11/02	L2	Lead Paint	0.010	0.716
3	11/02	L3	Lead Paint	0.010	0.442
4	11/02	L4	Lead Paint	0.010	BRL*
5	11/02	L5	Lead Paint	0.010	BRL

^ = Dilution Factor Changed ***** = Excessive Substrate May Bias Sample Results **BRL** = Below Reportable Limits **#** = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results.

ANALYST: Jason Thompson

QA COORDINATOR: Kurt Kettler

Rev. 11/30/08