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INVITATION TO BID

Roof Replacement
at
Windsor Heights Apartments 17229 32nd Ave South, SeaTac, WA 98188

August 5, 2022

ADDENDUM NO. 1

This addendum is used to clarify, change, delete, add to or substitute items in the original contract documents.

BID DATE: Monday, August 22, 2022 @ 2:00 pm

QUESTIONS DEADLINE: Monday, August 15, 2022

ATTACHMENT: Hazmat Report 2012-1089

NUMBER OF PAGES: 30

CONTRACT NUMBER: HW2201731

NOTICE TO BIDDERS:

Bidders are hereby notified of the following changes and/or clarifications to the Contract Documents for this project.

Change: Hazmat Report for Building P added to replace existing report in bid docs.

Questions:

Q: The Bid Docs state that the existing roof is composition and needs to be removed to install the PVC membrane, could this be a mistake?

A: No. We have experienced many failures in low pitched roofs with asphalt shingles and prefer to go with PVC membrane.

All other provisions of the Contract Documents remain unchanged.

END OF ADDENDUM NO. 1



Limited Asbestos Survey

"Windsor Heights"

17229 32nd Ave S.
SeaTac, WA 98188



Prepared For
Mr. Hugh Watkinson
King County Housing Authority
600 Andover Park W
Seattle, WA 98188

Project Number:	2012-1089
Inspection Date:	January 02, 2013
Report Date:	January 07, 2013
Inspected By:	Sam House (Cert. # 139963) Fuad Ayesh (Cert. # 139723)
Expiration Date:	December 19, 2013 November 21, 2013

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APPENDICIES

- A** Sample Locations (Floor Plan)
- B** Laboratory Analysis Results
- C** AHERA Certification & Laboratory Qualifications

1.0 SCOPE OF WORK

This limited survey for asbestos-containing materials was conducted at the Windsor Heights apartment complex located at 17229 32nd Ave S. SeaTac, WA 98188 on January 02, 2013.

Sam House and Fuad Ayesh, AHERA certified building inspectors, conducted this survey at the request of Mr. Hugh Watkinson of King County Housing Authority.

The buildings on the property are set for roofing renovations. This survey was limited to the roofs of the following buildings: A, B, D, E, F, G, H, I, J, K, L, M, P, Q, R, T, and U. All materials that would be impacted by the planned renovation of the buildings were sampled. However, please note that hidden materials may exist within the structure, and all suspect materials must be treated as asbestos containing until testing proves otherwise.

This survey constitutes a survey of accessible suspect ACM in the project area and was conducted in accordance with:

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

This asbestos survey also satisfies the requirements for "Good Faith" inspection outlined in Washington Administrative Code (WAC) 296-62-07221(2), *Identification*, which requires the owner of a structure to provide contractors with a written report identifying the asbestos-containing materials expected to be disturbed during renovation or demolition.

The asbestos survey section is written to comply with the AHERA asbestos sampling procedure 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.

A floor plan indicating locations of samples collected by NVL personnel has been included in **Appendix A**.

2.0 SURVEY METHOD

Asbestos Survey Method

The NVL Labs field inspector is an Asbestos Building Inspector, certified under the requirements of the United States Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) regulation 40 CFR 763, Subpart E. A copy of his certificate is provided in Appendix C.

The AHERA Guidelines dictate the following:

The inspector must determine *homogenous areas*, which are defined as an area of Thermal System Insulation, Surfacing Material, or Miscellaneous Material that is uniform in texture and color.

Once homogenous areas have been determined, the inspector must determine whether or not material is friable or non-friable. **Friable** is defined as a material, that when dry, can be crushed, pulverized, or reduced to dust using hand pressure, and **non-friable** material is defined as a material, that when dry, *cannot* be crushed pulverized or reduced to dust using hand pressure. Materials normally defined as non-friable can become friable by definition if sufficiently damaged.

Once friability has been determined, the materials suspected of containing asbestos are divided into one of three categories: Thermal System Insulation (TSI), Surfacing Material (SM), or Miscellaneous Material (MM). Generally speaking, TSI and SM are considered to be friable, with the exception of TSI where the structural integrity of the insulation is in tact and the protective out wrap is undamaged.

Once materials are divided into one of the categories, samples are collected in the following manner:

Friable Thermal System Insulation:

1. Inspector shall collect three (3) randomly distributed samples;
2. Inspector shall collect a minimum of one sample of each TSI materials that appears to have been used as a patch, as long as the patch is less than six linear feet or six square feet;
3. Inspector shall collect in a manner sufficient, samples from areas of TSI applied to fittings, tees, and joints.

Friable Surfacing Material:

1. Inspector shall collect samples in statistically random manner of surfacing materials as follows:
 - a. Collect three bulk samples from an area believed to be homogeneous (defined as a material that appears to be the same or similar and was installed at the same time) that is 1,000 square feet or less in size;
 - b. Collect five bulk samples from an area believed to be homogeneous that is greater than 1,000 square feet in size, but less than 5,000 square feet in size;
 - c. Collect seven bulk samples from an area believed to be homogeneous that is greater than 5,000 square feet.

Miscellaneous Materials:

1. Inspector shall collect samples in a manner and number sufficient to determine if the material is asbestos-containing or not.

All Materials Determined to Be Non Friable:

1. Inspector shall collect samples in a manner and number sufficient to determine if the material is asbestos containing or not.

In addition to these sampling requirements, the AHERA Building Inspector is required to assess the following of each material that is found to be positive for asbestos:

1. The condition of each material;
2. Accessibility;
3. Possibility for air erosion.

Once the samples have been collected, they must be analyzed by an accredited laboratory, and they must be analyzed using polarized light microscopy methods, commonly referred to as EPA Method 600/R-93/116.

NVL Labs collected samples and obtained analytical data for suspect asbestos-containing materials identified in the building. Once collected, each bulk sample was sealed in an unadulterated plastic bag to eliminate the possibility of cross-contamination. "Chain-of-Custody" tracking was followed to maintain sample integrity during handling and data reporting at NVL Labs.

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. The locations and types of potential asbestos-containing materials were noted.

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 Number	Material Description by Layer	Location	Asbestos	Quantity	Friable
#	Layer 1 is not asbestos-containing Layer 2 is asbestos-containing	Location description	1. % 2. %	"X" LF/ft ²	Yes/No

3.0 LABORATORY INFORMATION

Laboratory Analysis: Asbestos

In accordance with 40 CFR Chapter 1 (1-1-87 edition) Part 763, Subpart F, Appendix A, asbestos samples are analyzed at NVL Labs 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%. Only materials containing more than 1% total asbestos were classified as "asbestos-containing" based on EPA, state, and local regulations.

Findings for samples containing more than one separable layer of materials are reported for each layer. The asbestos concentration in the sample is determined by visual estimation.

NVL Labs is 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*

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

4.0 BUILDING DESCRIPTION

General Building Type	This is the Windsor Heights apartment complex.
Primary External Components	Not a part of the survey.
Foundation Type	Not a part of the survey.
Roofing Material(s)	The buildings have tri-tab asphaltic roofing shingles and torch-down roofing material.
Window Type(s)	Not a part of the survey.
Flooring	Not a part of the survey.
Thermal Systems With Insulation	Not a part of the survey.
Finishing	Not a part of the survey.

5.0 FINDINGS

Sample Number	Material Description by Layer	Location	Asbestos	Quantity**	Friable*
2012-1089-A	1: Tri-tab asphaltic shingles 2: Black mastic 3: Tri-tab asphaltic shingles 4: Black felt	Building A	1: ND 2: ND 3: ND 4: ND		
2012-1089-B	1: Tri-tab asphaltic shingles 2: Black built up roofing 3: Black layered roofing with plastic 4: Black felt	Building B	1: ND 2: ND 3: ND 4: ND		
2012-1089-D	1: Tri-tab asphaltic shingles 2: Black felt 3: Black built up roofing 4: Black layered roofing with plastic 5: Black felt	Building D	1: ND 2: ND 3: ND 4: ND 5: ND		
2012-1089-F	1: Tri-tab asphaltic shingles 2: Black built-up roofing	Building F	1: ND 2: ND		
2012-1089-H	1: Tri-tab asphaltic shingles 2: Black built up roofing 3: Black roofing with plastic 4: Black felt	Building H	1: ND 2: ND 3: ND 4: ND		
2012-1089-G	1: Tri-tab asphaltic shingles 2: Black built-up roofing 3: Black roofing with plastic 4: Black felt	Building G	1: ND 2: ND 3: ND 4: ND		
2012-1089-E	1: Tri-tab asphaltic shingles 2: Black asphaltic mastic 3: Black felt	Building E	1: ND 2: ND 3: ND		
2012-1089-I	1: Tri-tab asphaltic shingles 2: Black built up roofing 3: Black roofing with plastic 4: Black felt	Building I	1: ND 2: ND 3: ND 4: ND		
2012-1089-J	1: Tri-tab asphaltic shingles 2: Black felt 3: Black built up roofing 4: Black roofing with plastic 5: Black felt	Building J	1: ND 2: ND 3: ND 4: ND 5: ND		

ND

None Detected

Sample Number	Material Description by Layer	Location	Asbestos	Quantity**	Friable*
2012-1089-T	1: Tri-tab asphaltic shingles 2: Black built-up roofing 3: Black roofing with plastic 4: Black felt	Building T	1: ND 2: ND 3: ND 4: ND		
2012-1089-P	1: Tri-tab asphaltic shingles 2: Black asphaltic mastic 3: Tri-tab asphaltic shingles 4: Black felt	Building P	1: ND 2: ND 3: ND 4: ND		
2012-1089-Q	1: Tri-tab asphaltic shingles 2: Black asphaltic mastic 3: Tri-tab asphaltic shingles 4: Black roofing with plastic 5: Black felt	Building Q	1: ND 2: ND 3: ND 4: ND 5: ND		
2012-1089-K	1: Tri-tab asphaltic shingles 2: Black felt 3: Black asphaltic roofing 4: Black roofing with plastic 5: Black felt	Building K	1: ND 2: ND 3: ND 4: ND 5: ND		
2012-1089-L	1: Tri-tab asphaltic shingles 2: Black felt 3: Black asphaltic roofing 4: Black roofing with plastic 5: Black felt 6: Wood debris	Building L	1: ND 2: ND 3: ND 4: ND 5: ND 6: ND		
2012-1089-M	1: Tri-tab asphaltic shingles 2: Black felt 3: Black asphaltic roofing 4: Black roofing with plastic 5: Black felt	Building M	1: ND 2: ND 3: ND 4: ND 5: ND		
2012-1089-U	1: Tri-tab asphaltic shingles 2: Black felt 3: Black built up roofing 4: Black felt	Building U	1: ND 2: ND 3: ND 4: ND		
2012-1089-R	1: Tri-tab asphaltic shingles 2: Black built-up roofing 3: Black roofing with plastic 4: Black felt	Building R	1: ND 2: ND 3: ND 4: ND		

ND None Detected

Any suspect material(s) not identified above should not be disturbed and should be tested immediately. The suspect material must be treated as asbestos-containing until testing proves otherwise.

6.0 CONCLUSIONS AND RECOMMENDATIONS

No presumed or confirmed asbestos-containing materials were identified during the limited survey of the roofing of buildings A, B, D, E, F, G, H, I, J, K, L, M, P, Q, R, T, and U located at the Windsor Heights apartment complex located at 17229 32nd Ave S, Seatac, WA 98188.

Contractors should be aware that concealed suspect asbestos-containing building materials may be uncovered during the course of demolition or renovation work. Contractors should have contingency plans that include stopping work, evacuation of the immediate area and sampling by a certified AHERA Building Inspector whenever these materials are found. Concealed suspect materials may include, but are not limited to: non-fiberglass pipe or roof drain insulation; spray-applied coatings; cement board; asphalt or paper vapor barriers; floorings and adhesives.

If discovered, all asbestos-containing materials that will be disturbed as a natural part of renovation and/or demolition are required to be removed and disposed of in accordance with Washington State regulations. Washington State Department of Labor and Industries and PSCAA require that the abatement be performed using Certified Asbestos Workers under the direct on site supervision by a Certified Asbestos Supervisor. Further, NVL suggests that an AHERA inspector review this property after abatement to ensure all asbestos-containing materials have been removed by the contractor.

NVL recommends that an AHERA inspector/project manager be on site at the time of renovation/demolition to ensure that any potentially asbestos-containing materials uncovered during the process of renovation/demolition be dealt with properly.

Based on our conclusions, NVL Labs, Inc. is making the following recommendations regarding asbestos:

1. A copy of this inspection report should be maintained at the project site during the duration of any renovations
2. A copy of this inspection report should be provided to the General Contractor and any Sub Contractors working on the renovation project
3. The inspection report is not intended to serve as a design document, or scope of work prior to renovation.

7.0 LIMITATIONS OF SURVEY

The sole purpose of this limited asbestos survey report is to document asbestos-containing materials discovered at the Windsor Heights apartment complex located at 17229 32nd Ave S, Seatac, WA 98188.

The buildings on the property are set for roofing renovations. This survey was limited to the roofs of the following buildings: A, B, D, E, F, G, H, I, J, K, L, M, P, Q, R, T, and U. All materials that would be impacted by the planned renovation of the buildings were sampled. However, please note that hidden materials may exist within the structure, and all suspect materials must be treated as asbestos containing until testing proves otherwise.

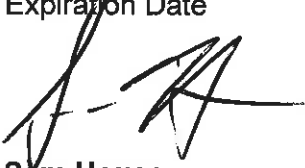
This site visit consisted of a thorough visual walk-through of the building for the purpose of viewing and sampling potential asbestos-containing material. As hazardous material surveys are non-comprehensive by nature, NVL Laboratories, Inc. cannot be held liable for materials which require destructive means to access, materials which are hidden from sight (e.g. materials hidden behind walls), materials which cannot be found due to their obscure nature, or which otherwise cannot be discovered with reasonable diligence.

This document is the sole property of NVL Laboratories and the property owner, or his agent, authorizing this survey.

Inspected By



Fuad Ayeshalmoutey
AHERA Building Inspector
AHERA Certification # 139723
Expiration Date **November 21, 2013**



Sam House
AHERA Building Inspector
AHERA Certification # 134726
Expiration Date **December 21, 2011**

Reviewed By



Syed Hasan
Manager Field Services

Appendix A

Sample Locations (Floor Plan)

Windsor Heights Apartments

17229 32nd Ave S
 Seatac, WA 98188
 Tel. (206) 439-0081
 Fax. (206) 439-1025

A

1	2	3	4	5	6	7	8	9	10
11	12	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31

C

1	7
2	8
3	9
4	10
5	11
6	12

D

1	2	3	4	5	6	7
15	14	12	11	10	9	8
16	17	18	19	20	21	22
29	28	27	26	25	24	23

F

1	7
2	8
3	9
4	10
5	11
6	12

6	5	4	3	2	1
14	12	11	10	9	8

T

133	132	131	130	129	128
233	232	231	230	229	228
333	332	321	320	329	328

U

134	234
135	235
136	236
137	237
138	238
139	239

V

140	141	142	143	144
240	241	242	243	244

J

6	5	4	3	2	1
12	11	10	9	8	7

I

1	9
2	10
3	11
4	12
5	14
6	15
7	16
8	17

S

127	126	125	124
227	226	225	224
327	326	325	324

R

255	155
254	154
253	153
252	152
251	151
250	150

W

145	146	147	148	149
245	246	247	248	249

K

6	5	4	3	2	1
12	11	10	9	8	7

P

118	119	120	121	122	123
218	219	220	221	222	223
318	319	320	321	322	323

Q

117	217
116	216
115	215
114	214

N

112	111	110	109	108	107
212	211	210	209	208	207
312	311	310	309	308	307

L

6	5	4	3	2	1
12	11	10	9	8	7

O

201	101
202	102
203	103
204	104
205	105
206	106

M

6	5	4	3	2	1
12	11	10	9	8	7



Laundry



Comm. Center
Laundry

Office X



RH



Appendix B

Laboratory Results

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
 Address: 4708 Aurora Ave. N.
 Seattle, WA 98103

Batch #: 1300050.00
 Client Project #: 2012-1089
 Date Received: 01/02/2013
 Samples Received: 17
 Samples Analyzed: 17
 Method: EPA/600R-93/116

Attention: **Mr. Syed Hasan**
 Project Location: "Windsor Heights" 17229 32nd Ave S
 Seatac, WA 98188

Lab ID: 13000332 Client Sample #: 2012-1039-A

Location: "Windsor Heights" 17229 32nd Ave S

Layer 1 of 4	Description: Black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 24%	Asbestos Type: % None Detected ND
Layer 2 of 4	Description: Black asphaltic mastic	Non-Fibrous Materials: Asphalt/Binder, Mastic/Binder	Other Fibrous Materials:% Cellulose 3%	Asbestos Type: % None Detected ND
Layer 3 of 4	Description: Black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 25%	Asbestos Type: % None Detected ND
Layer 4 of 4	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder, Binder/Filler	Other Fibrous Materials:% Cellulose 68%	Asbestos Type: % None Detected ND

Lab ID: 13000333 Client Sample #: 2012-1039-B

Location: "Windsor Heights" 17229 32nd Ave S

Layer 1 of 4	Description: Black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 22%	Asbestos Type: % None Detected ND
Layer 2 of 4	Description: Black asphaltic fibrous built-up material	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Synthetic fibers 45%	Asbestos Type: % None Detected ND
Layer 3 of 4	Description: Black asphaltic material with thin plastic sheet	Non-Fibrous Materials: Asphalt/Binder, Plastic	Other Fibrous Materials:% Cellulose 4%	Asbestos Type: % None Detected ND

Sampled by: Client

Analyzed by: Jessica Luedke

Reviewed by: Nick Ly

Date: 01/03/2013

Date: 01/03/2013

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/M4-82-020 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.

Bulk Asbestos Fibers Analysis
 By Polarized Light Microscopy

Client: NVL Field Services Division
 Address: 4708 Aurora Ave. N.
 Seattle, WA 98103

Batch #: 1300050.00
 Client Project #: 2012-1089
 Date Received: 01/02/2013
 Samples Received: 17
 Samples Analyzed: 17
 Method: EPA/600R-93/116

Attention: Mr. Syed Hasan

Project Location: "Windsor Heights" 17229 32nd Ave S
 Seattle, WA 98103

Layer	Description	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Layer 4 of 4	Description: Black asphaltic fibrous felt	Asphalt/Binder	Glass fibers 65%	None Detected ND
Lab ID: 13000334 Client Sample #: 2012-1089-D				
Location: "Windsor Heights" 17229 32nd Ave S				
Layer 1 of 5	Description: Black asphaltic material with sand	Asphalt/Binder, Sand	Glass fibers 26%	None Detected ND
Layer 2 of 5	Description: Black asphaltic fibrous felt	Asphalt/Binder, Binder/Filler	Cellulose 64%	None Detected ND
Layer 3 of 5	Description: Black asphaltic fibrous built-up material	Asphalt/Binder	Synthetic fibers 48%	None Detected ND
Layer 4 of 5	Description: Black asphaltic material with thin plastic sheet	Asphalt/Binder, Plastic	Cellulose 2%	None Detected ND
Layer 5 of 5	Description: Black asphaltic fibrous felt	Asphalt/Binder	Glass fibers 67%	None Detected ND

Lab ID: 13000335 Client Sample #: 2012-1089-F				
Location: "Windsor Heights" 17229 32nd Ave S				
Layer 1 of 2	Description: Black asphaltic material with sand	Asphalt/Binder, Sand	Glass fibers 25%	None Detected ND

Sampled by: Client
 Analyzed by: Jessica Luedke Date: 01/03/2013
 Reviewed by: Nick Ly Date: 01/03/2013
 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/M-4-82-020 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.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
 Address: 4708 Aurora Ave. N.
 Seattle, WA 98103

Batch #: 1300050.00
 Client Project #: 2012-1089
 Date Received: 01/02/2013
 Samples Received: 17
 Samples Analyzed: 17
 Method: EPA/600R-93/116

Attention: Mr. Syed Hasan
 Project Location: "Windsor Heights" 17229 32nd Ave S
 Seatac, WA 98188

Layer 2 of 2	Description: Black asphaltic fibrous built-up material	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Synthetic fibers 56%	Asbestos Type: % None Detected ND
Lab ID: 13000335 Client Sample #: 2012-1089-H				
Location: "Windsor Heights" 17229 32nd Ave S				
Layer 1 of 4	Description: Multi-layered black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 24%	Asbestos Type: % None Detected ND
Layer 2 of 4	Description: Black asphaltic fibrous built-up material	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Synthetic fibers 57%	Asbestos Type: % None Detected ND
Layer 3 of 4	Description: Black asphaltic material with thin plastic sheet	Non-Fibrous Materials: Asphalt/Binder, Plastic	Other Fibrous Materials:% Cellulose 5%	Asbestos Type: % None Detected ND
Layer 4 of 4	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Glass fibers 63%	Asbestos Type: % None Detected ND

Lab ID: 13000337 Client Sample #: 2012-1089-G				
Location: "Windsor Heights" 17229 32nd Ave S				
Layer 1 of 4	Description: Multi-layered black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 21%	Asbestos Type: % None Detected ND
Layer 2 of 4	Description: Black asphaltic fibrous built-up material	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Synthetic fibers 52%	Asbestos Type: % None Detected ND

Sampled by: Client

Analyzed by: Jessica Luedke

Reviewed by: Nick Ly

Date: 01/03/2013

Date: 01/03/2013


 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/M4-82-020 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.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
 Address: 4708 Aurora Ave. N.
 Seattle, WA 98103

Batch #: 1300050.00
 Client Project #: 2012-1089
 Date Received: 01/02/2013
 Samples Received: 17
 Samples Analyzed: 17
 Method: EPA/300R-93/116

Attention: Mr. Syed Hasan
 Project Location: "Windsor Heights" 17229 32nd Ave S
 Seatac, WA 98188

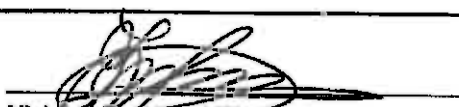
Layer 3 of 4	Description: Black asphaltic material with thin plastic sheet	Non-Fibrous Materials: Asphalt/Binder, Plastic	Other Fibrous Materials:% Cellulose 3%	Asbestos Type: % None Detected ND
Layer 4 of 4	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Glass fibers 68%	Asbestos Type: % None Detected ND

Lab ID: 13000338 **Client Sample #: 2012-1089-E**
 Location: "Windsor Heights" 17229 32nd Ave S

Layer 1 of 3	Description: Multi-layered black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 24%	Asbestos Type: % None Detected ND
Layer 2 of 3	Description: Black asphaltic mastic	Non-Fibrous Materials: Asphalt/Binder, Mastic/Binder	Other Fibrous Materials:% Cellulose 2%	Asbestos Type: % None Detected ND
Layer 3 of 3	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder, Binder/Filler	Other Fibrous Materials:% Cellulose 64%	Asbestos Type: % None Detected ND

Lab ID: 13000339 **Client Sample #: 2012-1089-I**
 Location: "Windsor Heights" 17229 32nd Ave S

Layer 1 of 4	Description: Multi-layered black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 20%	Asbestos Type: % None Detected ND
Layer 2 of 4	Description: Black asphaltic fibrous built-up material	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Synthetic fibers 50%	Asbestos Type: % None Detected ND

Sampled by: Client
 Analyzed by: Jessica Luedke Date: 01/03/2013
 Reviewed by: Nick Ly Date: 01/03/2013 
 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 800/M4-82-020 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.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
 Address: 4708 Aurora Ave. N.
 Seattle, WA 98103

Batch #: 1300050.00
 Client Project #: 2012-1089
 Date Received: 01/02/2013
 Samples Received: 17
 Samples Analyzed: 17
 Method: EPA/600R-93/116

Attention: Mr. Syed Hasan

Project Location: "Windsor Heights" 17229 32nd Ave S
 Seatac, WA 98188

Layer 3 of 4	Description: Black asphaltic material with thin plastic sheet	Non-Fibrous Materials: Asphalt/Binder, Plastic	Other Fibrous Materials:% Cellulose 4%	Asbestos Type: % None Detected ND
Layer 4 of 4	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Glass fibers 65%	Asbestos Type: % None Detected ND
Lab ID: 13000340 Client Sample #: 2012-1089-J				
Location: "Windsor Heights" 17229 32nd Ave S				
Layer 1 of 5	Description: Multi-layered black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 26%	Asbestos Type: % None Detected ND
Layer 2 of 5	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder, Binder/Filler	Other Fibrous Materials:% Cellulose 68%	Asbestos Type: % None Detected ND
Layer 3 of 5	Description: Black asphaltic fibrous built-up material	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Synthetic fibers 55%	Asbestos Type: % None Detected ND
Layer 4 of 5	Description: Black asphaltic material with thin plastic sheet	Non-Fibrous Materials: Asphalt/Binder, Plastic	Other Fibrous Materials:% Cellulose 2%	Asbestos Type: % None Detected ND
Layer 5 of 5	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Glass fibers 63%	Asbestos Type: % None Detected ND

Lab ID: 13000341 Client Sample #: 2012-1089-T
 Location: "Windsor Heights" 17229 32nd Ave S

Sampled by: Client

Analyzed by: Jessica Luedke

Reviewed by: Nick Ly

Date: 01/03/2013

Date: 01/03/2013


 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/M4-82-020 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.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
 Address: 4708 Aurora Ave. N.
 Seattle, WA 98103

Batch #: 1300050.00
 Client Project #: 2012-1089
 Date Received: 01/02/2013
 Samples Received: 17
 Samples Analyzed: 17
 Method: EPA/600R-93/116

Attention: Mr. Syed Hasan

Project Location: "Windsor Heights" 17229 32nd Ave S
 SeacTac, WA 98188

Layer 1 of 4	Description: Multi-layered black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 23%	Asbestos Type: % None Detected ND
Layer 2 of 4	Description: Black asphaltic fibrous built-up material	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Synthetic fibers 58%	Asbestos Type: % None Detected ND
Layer 3 of 4	Description: Black asphaltic material with thin plastic sheet	Non-Fibrous Materials: Asphalt/Binder, Plastic	Other Fibrous Materials:% Cellulose 2%	Asbestos Type: % None Detected ND
Layer 4 of 4	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Glass fibers 65%	Asbestos Type: % None Detected ND

Lab ID: 13000342 Client Sample #: 2012-1089-P
 Location: "Windsor Helghis" 17229 32nd Ave S

Layer 1 of 4	Description: Black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 22%	Asbestos Type: % None Detected ND
Layer 2 of 4	Description: Black asphaltic mastic	Non-Fibrous Materials: Asphalt/Binder, Mastic/Binder	Other Fibrous Materials:% Cellulose 3%	Asbestos Type: % None Detected ND
Layer 3 of 4	Description: Black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 25%	Asbestos Type: % None Detected ND
Layer 4 of 4	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder, Binder/Filler	Other Fibrous Materials:% Cellulose 37%	Asbestos Type: % None Detected ND

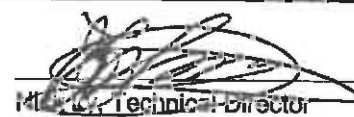
Sampled by: Client

Analyzed by: Jessica Luedke

Reviewed by: Nick Ly

Date: 01/03/2013

Date: 01/03/2013



Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/M4-82-020 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.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
 Address: 4708 Aurora Ave. N.
 Seattle, WA 98103

Batch #: 1300050.00
 Client Project #: 2012-1089
 Date Received: 01/02/2013
 Samples Received: 17
 Samples Analyzed: 17
 Method: EPA/600R-93/116

Attention: Mr. Syed Hasan
 Project Location: "Windsor Heights" 17229 32nd Ave S
 Seattle, WA 98188

Lab ID: 13000343 Client Sample #: 2012-1089-Q

Location: "Windsor Heights" 17229 32nd Ave S

Layer 1 of 5	Description: Black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 19%	Asbestos Type: % None Detected ND
Layer 2 of 5	Description: Black asphaltic mastic	Non-Fibrous Materials: Asphalt/Binder, Mastic/Binder	Other Fibrous Materials:% Cellulose 3%	Asbestos Type: % None Detected ND
Layer 3 of 5	Description: Black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 24%	Asbestos Type: % None Detected ND
Layer 4 of 5	Description: Black asphaltic material with thin plastic sheet	Non-Fibrous Materials: Asphalt/Binder, Plastic	Other Fibrous Materials:% Cellulose 2%	Asbestos Type: % None Detected ND
Layer 5 of 5	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder, Binder/Filler	Other Fibrous Materials:% Cellulose 65%	Asbestos Type: % None Detected ND

Lab ID: 13000344 Client Sample #: 2012-1089-K

Location: "Windsor Heights" 17229 32nd Ave S

Layer 1 of 5	Description: Multi-layered black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 22%	Asbestos Type: % None Detected ND
Layer 2 of 5	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder, Binder/Filler	Other Fibrous Materials:% Cellulose 63%	Asbestos Type: % None Detected ND

Sampled by: Client

Analyzed by: Jessica Luedke

Reviewed by: Nick Ly

Date: 01/03/2013

Date: 01/03/2013

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/M4-82-020 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.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
 Address: 4708 Aurora Ave. N.
 Seattle, WA 98103

Batch #: 1300050.00
 Client Project #: 2012-1089
 Date Received: 01/02/2013
 Samples Received: 17
 Samples Analyzed: 17
 Method: EPA/600R-93/116

Attention: Mr. Syed Hasan
 Project Location: "Windsor Heights" 17229 32nd Ave S
 Seatac, WA 98188

Layer 3 of 5	Description: Black asphaltic material	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Synthetic fibers 54%	Asbestos Type: % None Detected ND
Layer 4 of 5	Description: Black asphaltic material with thin plastic sheet	Non-Fibrous Materials: Asphalt/Binder, Plastic	Other Fibrous Materials:% Cellulose 2%	Asbestos Type: % None Detected ND
Layer 5 of 5	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Glass fibers 68%	Asbestos Type: % None Detected ND

Lab ID: 13000345 Client Sample #: 2012-1089-L

Location: "Windsor Heights" 17229 32nd Ave S

Layer 1 of 6	Description: Multi-layered black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 23%	Asbestos Type: % None Detected ND
Layer 2 of 6	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder, Binder/Filler	Other Fibrous Materials:% Cellulose 67%	Asbestos Type: % None Detected ND
Layer 3 of 6	Description: Black asphaltic material	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Synthetic fibers 53%	Asbestos Type: % None Detected ND
Layer 4 of 6	Description: Black asphaltic material with thin plastic sheet	Non-Fibrous Materials: Asphalt/Binder, Plastic	Other Fibrous Materials:% Cellulose 3%	Asbestos Type: % None Detected ND
Layer 5 of 6	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Glass fibers 67%	Asbestos Type: % None Detected ND

Sampled by: Client

Analyzed by: Jessica Luedke

Date: 01/03/2013

Reviewed by: Nick Ly

Date: 01/03/2013

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/M4-82-020 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.

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: NVL Field Services Division
 Address: 4708 Aurora Ave. N.
 Seattle, WA 98103

Batch #: 1300050.00
 Client Project #: 2012-1069
 Date Received: 01/02/2013
 Samples Received: 17
 Samples Analyzed: 17
 Method: EPA/600R-93/116

Attention: Mr. Syed Hasan

Project Location: "Windsor Heights" 17229 32nd Ave S
 Seatac, WA 98188

Layer	Description	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Layer 3 of 6	Description: Wood debris	Wood flakes	Cellulose >95%	None Detected ND
Lab ID: 13000346 Client Sample #: 2012-1089-M Location: "Windsor Heights" 17229 32nd Ave S				
Layer 1 of 5	Description: Black asphaltic material with sand	Asphalt/Binder, Sand	Glass fibers 21%	Asbestos Type: % None Detected ND
Layer 2 of 5	Description: Black asphaltic fibrous felt	Asphalt/Binder, Binder/Filler	Cellulose 64%	Asbestos Type: % None Detected ND
Layer 3 of 5	Description: Black asphaltic material	Asphalt/Binder	Synthetic fibers 58%	Asbestos Type: % None Detected ND
Layer 4 of 5	Description: Black asphaltic material with thin plastic sheet	Asphalt/Binder, Plastic	Cellulose 3%	Asbestos Type: % None Detected ND
Layer 5 of 5	Description: Black asphaltic fibrous felt	Asphalt/Binder	Glass fibers 66%	Asbestos Type: % None Detected ND

Lab ID: 13000347 Client Sample #: 2012-1089-U Location: "Windsor Heights" 17229 32nd Ave S				
Layer 1 of 4	Description: Black asphaltic material with sand	Asphalt/Binder, Sand	Glass fibers 26%	Asbestos Type: % None Detected ND

Sampled by: Client
 Analyzed by: Jessica Luedke Date: 01/03/2013
 Reviewed by: Nick Ly Date: 01/03/2013
 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/M4-82-020 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-8%, 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.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
 Address: 4708 Aurora Ave. N.
 Seattle, WA 98103

Batch #: 1300050.00
 Client Project #: 2012-1089
 Date Received: 01/02/2013
 Samples Received: 17
 Samples Analyzed: 17
 Method: EPA/600R-93/116

Attention: Mr. Syed Hasan

Project Location: "Windsor Heights" 17229 32nd Ave S
 Seatac, WA 98186

Layer 2 of 4	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder, Binder/Filler	Other Fibrous Materials:% Cellulose 65%	Asbestos Type: % None Detected ND
Layer 3 of 4	Description: Black asphaltic fibrous built-up material	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Synthetic fibers 57%	Asbestos Type: % None Detected ND
Layer 4 of 4	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Glass fibers 63%	Asbestos Type: % None Detected ND

Lab ID: 13000348 Client Sample #: 2012-1089-R

Location: "Windsor Heights" 17229 32nd Ave S

Layer 1 of 4	Description: Black asphaltic material with sand	Non-Fibrous Materials: Asphalt/Binder, Sand	Other Fibrous Materials:% Glass fibers 24%	Asbestos Type: % None Detected ND
Layer 2 of 4	Description: Black asphaltic fibrous built-up material	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Synthetic fibers 58%	Asbestos Type: % None Detected ND
Layer 3 of 4	Description: Black asphaltic material with thin plastic sheet	Non-Fibrous Materials: Asphalt/Binder, Plastic	Other Fibrous Materials:% Cellulose 5%	Asbestos Type: % None Detected ND
Layer 4 of 4	Description: Black asphaltic fibrous felt	Non-Fibrous Materials: Asphalt/Binder	Other Fibrous Materials:% Glass fibers 64%	Asbestos Type: % None Detected ND

Sampled by: Client
 Analyzed by: Jessica Luedke Date: 01/03/2013
 Reviewed by: Nick Ly Date: 01/03/2013
 Nick Ly, Analytical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/M4-82-020 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.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Cell: 206.914.4646
 1.888.NVL.LABS (635.5227) www.nvllabs.com

**CHAIN of CUSTODY
 SAMPLE LOG**

NVL Batch ID
1300050

Client NVL Laboratories Inc

NVL Batch Number _____

Street 4708 Aurora Ave N

Client Job Number 2012-1089

Seattle, WA 98103

Total Samples 17

Project Manager Syed Hasan

Turn Around Time 1-Hr 8-Hrs 2 5

Project Location "Windsor Heights" 17229 32nd Ave S

2-Hrs 12-Hrs 3 6-10

Seattle, WA 98188

4-Hrs 24-Hrs 4

Please call for TAT less than 24 Hrs

Email address hughw@kcha.org

Phone: (206) 574-1230 Fax: (206) 357-2441

<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	Del. 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 (C)	<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"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

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

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		A01-1089-A		
2		-B		
3		-C		
4		-D		
5		-E		
6		-F		
7		-G		
8		-H		
9		-I		
10		-J		
11		-K		
12		-L		
13		-M		
14		-N		
15		-O		

	Print Below	Scan Below	Company	Date	Time
Sampled by	<u>Fred A</u>		<u>NVL</u>	<u>1/2/13</u>	
Relinquished by	<u>[Signature]</u>		<u>NVL</u>	<u>1/2/13</u>	<u>1020</u>
Received by	<u>Alexandra Tejo</u>	<u>[Signature]</u>	<u>NVL</u>	<u>1/2/13</u>	<u>1030</u>
Analyzed by	<u>Jessica Leckie</u>	<u>[Signature]</u>	<u>NVL</u>	<u>1/2/13</u>	<u>1032</u>
Results Called by					
Results Faxed by					

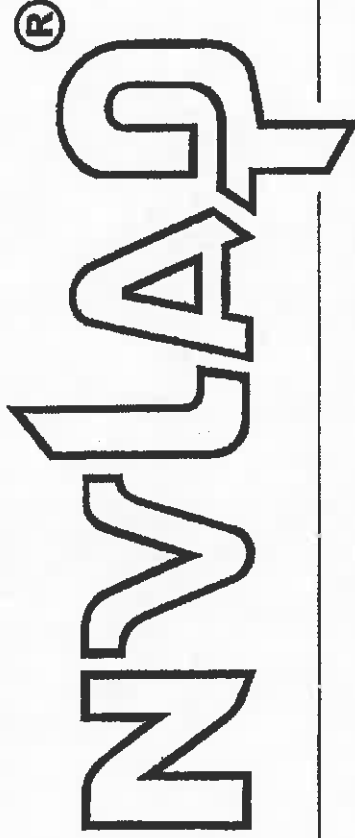
Special instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
 Results report to _____



Appendix C

AHERA Certifications & Laboratory Qualifications

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 102063-0

NVL Laboratories, Inc.
Seattle, WA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for.*

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2012-10-01 through 2013-09-30

Effective dates



A handwritten signature in black ink, appearing to read "M. R. W. L. D.", written over a horizontal line.

For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NVL Laboratories, Inc.
 4708 Aurora Avenue N.
 Seattle, WA 98103
 Mr. Nghiep Vi Ly
 Phone: 206-547-0100 Fax: 206-634-1936
 E-Mail: nick.l@nvlabs.com
 URL: <http://www.nvlabs.com>

BULK ASBESTOS FIBER ANALYSIS (PLM)

NVLAP LAB CODE 102063-0

<i>NVLAP Code</i>	<i>Designation / Description</i>
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2012-10-01 through 2013-09-30

Effective dates

For the National Institute of Standards and Technology

Certificate of Completion

This is to certify that

Fuad Ayeshalmoutey

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)

139723

Certificate Number



Instructor

EPA Provider Cert. Number: 1085

Nov 21, 2012

Date(s) of Training

Exam Score: NA

Expiration Date: Nov 21, 2013



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

Samuel F. House

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)

139963

Certificate Number


Instructor

EPA Provider Cert. Number: 1085



Dec 19, 2012

Date(s) of Training

Exam Score: NA

Expiration Date: Dec 19, 2013

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