Mr. Brad Evanger  
Project Manager  
University of Montana Facilities Services  
Planning and Construction  
32 Campus Drive, MS 9792  
Missoula, Montana 59812

RE: Asbestos and Lead-In-Painted-Coatings Inspection  
McGill Hall Daycare Renovation  
University of Montana  
Missoula, Montana

May 18, 2011  
File: UNIMON Z11025A

Dear Mr. Evanger:

Strata, A Professional Services Corporation, (STRATA) presents the results of our authorized asbestos and lead-in-painted-coatings inspection of the gypsum wallboard and joint compound, wallboard, carpet and associated mastics, vinyl composite floor tile and associated mastic, sheet vinyl flooring and associated mastics, cove base and associated mastic, thermal piping insulation, ceiling tile and associated mastic, mortar and window putty present in the proposed renovation locations for the McGill Hall Daycare located at the University of Montana (UM) in Missoula, Montana. We performed services referencing our proposal dated May 9, 2011. The scope of services for the asbestos inspection included sampling of suspect asbestos-containing materials in the proposed project area referencing Administrative Rules of Montana (ARM) 17.74.354 and the Montana Asbestos Work Practices and Procedures Manual. The scope of services for the sampling of lead-in-painted coatings in the proposed project area references Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) guidelines for exposure to and disposal of lead-containing paints, respectively. This report summarizes STRATA’s sampling activities and presents analytical test results.

DESCRIPTION OF CONSTRUCTION AND SCOPE

STRATA was not provided with original construction documents for the building at the time of the asbestos and lead-in-painted-coatings inspection. The suspect asbestos-containing materials (ACMs) and lead-containing painted coatings were identified based upon our site visit on May 5, 2011, and conversations with you in preparation of our scope of services. The daycare location is in McGill Hall’s bottom level and currently consists of three large rooms, two kitchens, three bathrooms, and office space. We understand the proposed renovations include upgrades to a kitchen, new bathroom, new observation room, and a new outside entrance. On our site visit on May 5, 2011, you indicated the proposed impacted areas during renovations. You also later indicated that renovations to the utilities located in a utility corridor beneath the daycare may occur. The proposed renovation site plan as illustrated on Plate 1, Sample Location Plan, was provided by you in an electronic mail dated May 3, 2011.
ASBESTOS INSPECTION

The asbestos inspection was performed on May 6, 2011, by Mr. Zachary St. Jean, a United States Environmental Protection Agency (EPA)/Asbestos Hazard Emergency Response Act (AHERA) and Montana State Certified Asbestos Building Inspector with STRATA. Material bulk samples were delivered to NVL Laboratories of Seattle, Washington, for analysis by polarized light microscopy (PLM). NVL is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos fiber analysis, NVLAP Laboratory Code 102063-0, and the American Industrial Hygiene Association (AIHA) Laboratory Quality Assurance Program (LQAP), Laboratory ID 101861. Copies of personnel and laboratory accreditation have been included in Appendix A. The accreditation included is for the current calendar year only.

Visual Inspection

Our field activities began with a visual observation of the project area to locate and identify homogenous areas of suspect ACM. The selected areas included the gypsum wallboard and joint compound, wallboard, carpet and associated mastic, vinyl composite floor tile and associated mastic, sheet vinyl flooring and associated mastic, cove base and associated mastic, thermal piping insulation, ceiling tile and associated mastic, mortar, and window putty present in the project location. A homogenous area is defined as an area in which the suspect material appears to be uniform in texture, color, and wear, and is believed to have been applied during the same general time period. The following are considered suspect ACM homogenous areas; sample locations are identified on Plate 1, Sample Location Plan:

- Cove Base and Mastic (CB)
  - Kitchen area (a)
  - Office area (b)
  - Eastern wall area (c)
  - Room 001A (d)
- Sheet Vinyl Flooring and Mastic (SV) – East bathroom area
- Vinyl/Composite tile and Mastic (VCT)
  - Kitchen and office area (a)
  - Eastern wall area (b)
  - Room 001A (c)
- Carpet and Mastic (c) – Large Room 001A
- Wallboard (WB) – Kitchen area
- Gypsum Wallboard and Joint Compound (GWB)
  - Office area (a)
  - Room 001A (b)
- Mortar and block (M) – Western wall and interior wall
- Thermal Insulation (TI) – Utility corridor
- Widow Putty (WP) – Western wall at new entrance
Physical Assessment

A physical assessment of each identified homogenous area of suspect ACM was conducted to assess what, if any, damage the area has sustained and to assess whether the material should be classified as either friable or non-friable. At the time of the field observations, the suspect ACMs were observed to be non-friable, excluding the thermal insulation. Upon removing the exterior wrapping, the thermal insulation was identified as friable. Friable material can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Non-friable means that the ACM has not crumbled, been pulverized, or otherwise deteriorated so that the asbestos is no longer likely to be bound within its matrix.

Sample Collection

Based upon the results of the visual observations and the scope of work outlined in our proposal, sampling strategies were established to meet the requirements of the Montana Asbestos Work Practices and Procedures Manual and the collection of suspect material bulk samples was performed by an AHERA and State of Montana accredited inspector in each area. STRATA personnel performing sampling activities utilized appropriate personal protection. Additionally, sampling procedures included the use of engineering controls to minimize the release of airborne fibers during sample collection. Fifty-one (51) total samples were collected from the homogenous areas described in this letter's Visual Inspection section.

Material Sample Analysis

Upon completion of the on-site portion of the work, material bulk samples, accompanied by chain-of-custody forms, were sent to NVL Laboratories for analysis. Samples were analyzed using PLM coupled with dispersion staining as detailed in EPA's "Test Method for the Determination of Asbestos in Bulk Building Materials" (EPA 600/R-93/118). PLM is the EPA-recommended method for bulk sample analysis and utilizes the unique optical and crystallographic properties of the various constituents of the sample for material identification purposes. These properties, refractive indices, birefringence, sign of elongation, and extinction angle, are characteristically unique to each asbestiform mineral and were used to identify asbestos types present in the samples.

The sample analysis sheets and copies of the chain-of-custody forms are included in Appendix B. Sample locations are illustrated on Plate 1. The laboratory records denote layer identification and material composition by sample percentage.

Summary of Asbestos Analytical Results

Analytical testing identified 9 of the 51 samples collected as containing greater than one percent asbestos by weight. Table 1 outlines the materials sampled and laboratory results. Table 2 presents a list of materials identified as ACM.

<table>
<thead>
<tr>
<th>Sample #</th>
<th>Sample Location</th>
<th>Material</th>
<th>Type</th>
<th>Color</th>
<th>Location Quantity</th>
<th>Quent descriptor</th>
<th>Comments</th>
<th>Sample results</th>
<th>ACM?</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-1a</td>
<td>Kitchen/Office</td>
<td>Cove Base and Mastic</td>
<td>Misc</td>
<td>Black</td>
<td>150</td>
<td>LF</td>
<td>Sample 1 of 3</td>
<td>No Asbestos Detected</td>
<td>N</td>
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<td>N</td>
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<td>Misc</td>
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<td>150</td>
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<td>No Asbestos Detected</td>
<td>N</td>
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<tr>
<td>Sample #</td>
<td>Sample Location</td>
<td>Material</td>
<td>Type</td>
<td>Color</td>
<td>Location Quantity</td>
<td>Quant descriptor</td>
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<td>Sample results</td>
<td>ACM?</td>
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<td>Room 006A</td>
<td>Cove Base and Mastic</td>
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<td>Material Description</td>
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<td>Sample 1 of 3</td>
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<td>CT-2a</td>
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<td>750</td>
<td>SF</td>
<td>Sample 1 of 3</td>
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<td>WP-3</td>
<td>Room 001A</td>
<td>Window Jamb</td>
<td>Misc</td>
<td>Off-White</td>
<td>100</td>
<td>LF</td>
<td>Sample 3 of 3</td>
<td>No Asbestos Detected</td>
<td>N</td>
</tr>
<tr>
<td>TI-1</td>
<td>Utility Corridor</td>
<td>Thermal System Insulation</td>
<td>Thermal Insulation</td>
<td>White</td>
<td>150</td>
<td>LF</td>
<td>Sample 1 of 3</td>
<td>7% Chrysotile &amp; 30% Amosite</td>
<td>Y</td>
</tr>
<tr>
<td>TI-2</td>
<td>Utility Corridor</td>
<td>Thermal System Insulation</td>
<td>Thermal Insulation</td>
<td>White</td>
<td>150</td>
<td>LF</td>
<td>Sample 2 of 3</td>
<td>6% Chrysotile &amp; 27% Amosite</td>
<td>Y</td>
</tr>
<tr>
<td>TI-3</td>
<td>Utility Corridor</td>
<td>Thermal System Insulation</td>
<td>Thermal Insulation</td>
<td>White</td>
<td>150</td>
<td>LF</td>
<td>Sample 3 of 3</td>
<td>5% Chrysotile &amp; 32% Amosite</td>
<td>Y</td>
</tr>
</tbody>
</table>
Regulatory Discussion

Under current EPA United States Occupational Safety and Health Administration (OSHA) regulations, material containing greater than one percent of an asbestiform mineral is considered an ACM. Materials that have historically contained greater than one percent of an asbestiform mineral in their composition may either be classified as an assumed ACM, or be sampled and analyzed to assess the actual percentages of asbestiform minerals contained in their composition and subsequently be classified as an ACM or non-ACM. However, removal and disturbance of building materials containing asbestos in concentrations less than one percent are regulated for worker protection.

NESHP Classification: EPA National Emissions Standards for Hazardous Air Pollutants (NESHP) regulations require identification, classification, and strict consideration of existing building materials prior to beginning any renovation or demolition activity. Montana regulations are concerned with regulated ACM (RACM), including all friable ACM and all non-friable ACM that will be or has been subject to sanding, grinding, cutting, abrading, chipping, pulverizing, reducing to powder or small fragments, sawing, penetrating, mechanical chipping, drilling, peeling, cracking, weathering, exploding, imploding, or impacting by demolition or renovation operations.

The following materials had a minimum of one sample containing 1 percent or greater ACM:

<table>
<thead>
<tr>
<th>Table 3. Confirmed or Assumed ACM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homogeneous Area</td>
</tr>
<tr>
<td>--------------------</td>
</tr>
<tr>
<td>Bathroom 020</td>
</tr>
<tr>
<td>Kitchen/Office</td>
</tr>
<tr>
<td>Utility Corridor</td>
</tr>
</tbody>
</table>

The materials listed in Table 3 are considered ACMs and are required to be abated by Montana Department of Environmental Quality (DEQ) certified contractor/supervisor/worker personnel should these areas undergo any renovation activity that would render these materials RACM. For building demolition or renovation activities where RACM is identified by the asbestos inspection, the building owner or demolition contractor must notify the Asbestos Control Program of the demolition/renovation activity at least ten (10) working days prior to building demolition/renovation activities, using the Montana Asbestos Abatement Project Permit Application and NESHP Demolition/Renovation Notification. A project design written by a DEQ-certified project designer is required to be submitted along with the notification form. Alternatively, the abatement contractor may utilize a standard operating procedure project design (SOPPD) on file with DEQ and submitted by the abatement contractor within the previous calendar year. In a renovation where no ACM is identified by the asbestos inspection, no notification to the Asbestos Control Program is required; however, courtesy notifications are encouraged. Courtesy notification is made using the same form as above.

All Montana Asbestos Abatement Project Permit Application and NESHP Demolition/ Renovation Notifications shall be accepted by the DEQ via mail, courier delivery, or hand delivery. Facsimiles must be followed by a hard copy via certified mail.

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Following abatement, a final visual inspection and final clearance air sampling are to be performed by a person not contractually affiliated with the abatement contractor. If requested, STRATA can provide this service under a separate scope and fee.

**LEAD-IN-PAINTED-COATINGS TESTING**

Mr. St. Jean sampled lead in painted coatings on May 6, 2011. Material bulk samples were delivered to NVL Laboratories of Seattle, Washington, for total lead analysis by flame atomic absorption (AA) using EPA Method Number 7000B and Toxicity Characteristic Leaching Procedure (TCLP) analysis by EPA method 1311. Representative building materials were also collected for TCLP analysis to assist in evaluating disposal requirements based upon leachable concentrations of lead in building materials. NVL is accredited under the American Industrial Hygiene Association (AIHA) Laboratory Quality Assurance Program (LQAP), Laboratory ID 101661. A copy of the laboratory accreditation has been included within Appendix A. This accreditation included is for the current calendar time period only.

**Analytical Testing Results**

The scope of services for the total lead testing was to visually observe painted surfaces in the project area and to collect samples representative of painted surfaces. The sample analysis sheets and copies of the chain-of-custody forms are included in Appendix C. Table 4 includes a summary of paint samples and analytical test results.

**Table 4: Summary of Paint Samples and Total Lead Analytical Test Results**

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Material</th>
<th>Location - Substrate</th>
<th>Total Lead (mg/kg)</th>
<th>Lead-based -Paint Y/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>TL-1</td>
<td>Tan Paint</td>
<td>Kitchen - Wallboard</td>
<td>500.00</td>
<td>No</td>
</tr>
<tr>
<td>TL-2</td>
<td>White Paint</td>
<td>Office - Masonry/Wallboard</td>
<td>1100.00</td>
<td>No</td>
</tr>
<tr>
<td>TL-3</td>
<td>Green Paint</td>
<td>Office South Wall - Wallboard</td>
<td>&lt;530.00</td>
<td>No</td>
</tr>
<tr>
<td>TL-4</td>
<td>Blue Paint</td>
<td>EastWall - Concrete</td>
<td>&lt;320.00</td>
<td>No</td>
</tr>
<tr>
<td>TL-5</td>
<td>White</td>
<td>Room 001A - Wallboard/Masonry</td>
<td>380.00</td>
<td>No</td>
</tr>
</tbody>
</table>

While the concentration of lead detected in samples TL-1 and TL-2 was below the lead-based paint concentration threshold, these paints are still considered lead-containing and regulated for worker protection. Lead was not detected above the practical quantification limit in samples TL-3, TL-4, and TL-5.

In addition to the total lead paint samples, two composite samples were collected from building system components, including painted interior gypsum wallboard, painted interior wallboard, and masonry intended to be representative of the demolition waste stream. The composite samples were analyzed by the Toxicity Characteristic Leaching Procedure (TCLP) to evaluate leachable lead concentrations under simulated landfill conditions. The results of TCLP analysis indicated a leachable lead concentration less than 0.5 milligrams per liter (mg/L), less than the Resource Conservation Recovery Act (RCRA) lead hazardous waste disposal threshold concentration of 5 mg/L. The results of TCLP analysis indicate that building demolition waste may be disposed of as non-hazardous waste with respect to lead.

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Regulatory Discussion

The following is a brief summary of regulations governing worker protection and disposal requirements with respect to lead. Specific rules and guidance should be consulted to confirm compliance with all applicable regulatory requirements. Montana is an OSHA-regulated state. OSHA regulates worker exposure to airborne concentrations of lead that may result from demolition or renovation activities affecting lead-containing paint. Regulatory thresholds are based upon airborne concentrations of lead and not the concentration of lead in the paint. However, paint lead concentrations may be utilized as a tool to develop work practices specific to the lead-based paint threshold.

Employers must ensure that no employee is exposed to concentrations exceeding 50 micrograms per cubic meter of air averaged over an eight-hour period. Personal air monitoring is required to determine whether employees engaged in a specific work practice are exposed to airborne lead concentrations above the permissible exposure limit (PEL). The specific work practice methodologies must be documented so that the results of personal air monitoring can be applied to the same work practice in the future.

When employees are engaged in activities or a work practice where there is the possibility of exposure to airborne concentrations of lead, employees must be provided respiratory protection with a sufficient protection factor to prevent exposure above the PEL. Initial monitoring is performed on the employees anticipated to have the greatest exposure to airborne concentrations of lead. If the initial monitoring reveals that employee exposure is below the action level of 30 micrograms per cubic meter of air, a negative exposure assessment (NEA) may be utilized for future activities specific to that work practice and documented methodologies. The NEA is valid for 12 months following initial monitoring providing there is not a production, process, control, or personnel change that may result in new or additional exposure to lead, or whenever the employer has any other reason to suspect a change that may result in new or additional exposure to lead.

However, if the initial assessment or subsequent monitoring reveals employee exposure to be at or above the action level but below the permissible exposure limit, the employer shall repeat monitoring at least every 6 months. The employer shall continue monitoring at the required frequency until at least two consecutive measurements, taken at least 7 days apart, are below the action level at which time the employer may discontinue monitoring until another NEA is required.

If the initial monitoring reveals that employee exposure is above the permissible exposure limit, the employer shall repeat monitoring quarterly. The employer shall continue monitoring at the required frequency until at least two consecutive measurements, taken at least 7 days apart, are below the PEL, but at or above the action level, at which time the employer shall repeat monitoring as described above.

Identification of whether a given paint is considered lead-based helps facilitate decision-making for compliance with OSHA worker protection requirements under 29 CFR 1910.1025. As discussed in this report’s Analytical Test Results section, the white paint on the exterior siding, green paint on the storefront siding, and light green paint on the exterior siding contain lead. The presence of lead in these paints must be communicated to the demolition contractor and it is the responsibility of the demolition contractor to ensure that their employees are not exposed to airborne concentrations of lead exceeding the PEL. Additional information pertaining to OSHA’s lead rule may be found at the following website:

In addition to the worker protection requirements discussed above, lead is regulated as a hazardous waste. When disposing lead-containing waste, there are hazardous waste disposal requirements under the Resource Conservation Recovery Act (RCRA). Specifically for disposal of lead-containing waste, the hazardous waste threshold criteria are defined in 40 CFR Subpart C Section 261.24 where: A solid waste exhibits the characteristic of toxicity if, using the TCLP EPA test method 1311, the extract from a representative sample of the waste contains 5 mg/L lead or greater. As presented in this report’s Analytical Test Results section, the results of TCLP analysis indicate that building demolition waste may be disposed of as non-hazardous waste with respect to lead.

EVALUATION LIMITATIONS

Materials with one or more positive asbestos and lead results should be assumed to be positive throughout the project area. Materials not sampled as part of the scope of services performed for this project may not be assumed to be negative. Quantitative estimates are to provide order of magnitude information only.

This report is limited to the materials and activities described in this report and is intended to aid in the identification of asbestos-containing materials within the project area. Electrical and energized systems were not evaluated.

Destructive sampling was not performed. Asbestos-containing materials may exist in areas inaccessible at the time of this report, including but not limited to energized systems, interstitial areas between walls, ceilings, and floors, areas inaccessible without destructive sampling, and areas restricted by activity and use limitations.

STRATA endeavored to obtain bulk material samples from areas where visual impacts from the sampling activities would be less noticeable to the general public in the building. The repair of sampling locations is the responsibility of University of Montana.

Our services consist of professional opinions made in accordance with generally accepted asbestos and lead consulting and sampling principles and practices as they exist at the time of this report and in western Montana. This acknowledgment is in lieu of all express or implied warranties. This report has been prepared exclusively for the use of the University of Montana; we cannot be responsible for any other use of this report. This report should be read and implemented in its entirety. Individual sections of this report cannot be relied upon outside the context of the report. The information is relevant to the dates of our site work, and should not be relied upon to represent conditions at a substantially later date.

The scope of services for this project were limited to visual observation of suspect ACMs and painted coatings, collection of bulk material and paint samples, and reporting analytical test results as part of the asbestos and lead-in-painted-coatings inspection. University of Montana is responsible for identifying all appropriate federal, state, and local regulations and ensuring that they are in compliance with said regulations.
We appreciate the opportunity to assist you on this project. If you have any questions, please contact us.

Sincerely,
STRATA, Inc.

Zachary C. St. Jean
Project Manager

William H. Holder
Corporate Environmental Manager

Attachments:
- Plate 1
- Plates 2-4
- Appendix A Sample Location Plan
- Photographic Documentation
- Laboratory Accreditation and Asbestos Inspector Certification Information
- Appendix B Asbestos Analytical Laboratory Test Results and Chain of Custody Forms
- Appendix C Lead Analytical Laboratory Test Results and Chain of Custody Forms
APPENDIX A

Laboratory Accreditation and Asbestos Inspector Certification Information
University of Montana McGill Hall Daycare Renovation, Missoula, Montana

Photo 9 – Room 006A and stairs to Bathroom 020

Photo 10 – Thermal system insulation in utility corridor – confirmed ACM

Photo 11 – Fiberglass insulation in utility corridor

Photo 12 – Utility corridor with confirmed ACM and fiberglass insulation

UNIMON Z11025A
Plate 4
Photographic Documentation

Photo 1 - Bathroom 020 with confirmed ACM sheet vinyl

Photo 2 - Window in Room 001A at proposed new entrance

Photo 3 - Office area with confirmed ACM vinyl composite floor tile

Photo 4 - Ceiling tile in kitchen area
United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 602063-0

NVL Laboratories, Inc.
Seattle, WA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed in 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).

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology
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: 206-634-1930
E-Mail: nick.l@nvllabs.com
URL: http://www.nvllabs.com

BULK ASBESTOS FIBER ANALYSIS (PLM)  NVLAP LAB CODE 102063-0

<table>
<thead>
<tr>
<th>NVLAP Code</th>
<th>Designation / Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>18/A01</td>
<td>EPA-600/M4-82-020: interim Method for the Determination of Asbestos in Bulk Insulation Samples</td>
</tr>
</tbody>
</table>

2010-10-01 through 2011-09-30

Effective dates

Page 1 of 1
CERTIFICATE OF SATISFACTORY COMPLETION

ZACHARY C. ST. JEAN
723 Ronan Street, Missoula, MT 59801

Has Successfully Completed Course Training and Examination in Accordance
With Administrative Rules of Montana 17.74.368 for:

4-HOUR MONTANA ASBESTOS INSPECTOR REFRESHER TRAINING COURSE

Name of Course Completed
WTR 051010-006
Certificate Number

COURSE DATE(S): 5/10/2010
EXAMINATION DATE: 5/10/2010
EXPIRATION DATE: 5/10/2011

Approved By:

Montana Department of Environmental Quality
Asbestos Control Program
P.O. Box 200901
Helena, MT 59620-0901

By Kyle Lawrence
ZACHARY C. ST. JEAN

has met the requirements of Montana Administrative Code 17.74.362
and/or 17.74.363 for accreditation in the following elective-type
occupation(s) as indicated by an expiration date(s):

MTA-3639
CS       MP       PD         03/20/2011
WK

MONTANA Pesticide Control Program
APPENDIX B

Asbestos Analytical Laboratory Test Results and Chain-of-Custody Forms
May 10, 2011

Zachary St. Jean
Strata
8663 W Hackamore Dr.
Boise, ID 83709

RE: Bulk Asbestos Fiber Analysis, NVL Batch # 3106537.00

Dear Mr. St. Jean,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93116 Test Method.

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

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 81). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

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

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

Sincerely,

Nick Ly, Technical Director

NVLAP Lab Code 102063-0

Enc.: Sample Results
<table>
<thead>
<tr>
<th>Lab ID</th>
<th>Client Sample #</th>
<th>Description</th>
<th>Non-Fibrous Materials</th>
<th>Other Fibrous Materials</th>
<th>Asbestos Type</th>
<th>Asbestos Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>31034854</td>
<td>CB-1a</td>
<td>Black rubbery material with trace paint</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Layer 1 of 2</td>
<td></td>
<td>Rubber/Binder, Paint</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Layer 2 of 2</td>
<td>Trace yellow brittle mastic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-Fibrous Materials:</td>
<td></td>
<td></td>
<td>None Detected</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other Fibrous Materials:</td>
<td></td>
<td>Cellulose 2%</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Mastic/Binder</td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Lab ID</th>
<th>Client Sample #</th>
<th>Description</th>
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<th>Other Fibrous Materials</th>
<th>Asbestos Type</th>
<th>Asbestos Type</th>
</tr>
</thead>
<tbody>
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<tr>
<td></td>
<td></td>
<td>Layer 1 of 2</td>
<td></td>
<td>Rubber/Binder</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Layer 2 of 2</td>
<td>Trace brown brittle mastic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-Fibrous Materials:</td>
<td></td>
<td></td>
<td>None Detected</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other Fibrous Materials:</td>
<td></td>
<td>Cellulose 6%</td>
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<tr>
<td></td>
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<td>Mastic/Binder</td>
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<table>
<thead>
<tr>
<th>Lab ID</th>
<th>Client Sample #</th>
<th>Description</th>
<th>Non-Fibrous Materials</th>
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<th>Asbestos Type</th>
<th>Asbestos Type</th>
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</thead>
<tbody>
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<tr>
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<td></td>
<td>Layer 2 of 2</td>
<td>Trace brown brittle mastic</td>
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<td></td>
<td></td>
<td>Non-Fibrous Materials:</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Other Fibrous Materials:</td>
<td></td>
<td>Cellulose 3%</td>
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<td></td>
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<table>
<thead>
<tr>
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<th>Description</th>
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<td>Layer 1 of 2</td>
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<td>Rubber/Binder</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Layer 2 of 2</td>
<td>Trace brown brittle mastic</td>
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<td>Mastic/Binder</td>
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</tr>
</tbody>
</table>

Sampled by: Client
Analyzed by: Jessica Luedke
Reviewed by: Nick Ly

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/10 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-3%, 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, Fax: 206.634.1098
www.nvlabs.com

Bulk Asbestos Fibers Analysis
By Polarized Light Microscopy

Client: Strata
Address: 8653 W Hackamore Dr.
Boise, ID 83709

Attention: Mr. Zachary St. Jean
Project Location: Missoula, MT

Batch #: 3106537.00
Client Project #: Unimon Z11025A
Date Received: 05/09/2011
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 2
Description: White rubbery material
Non-Fibrous Materials:
Rubber/Binder

Layer 2 of 2
Description: Clear brittle mastic
Non-Fibrous Materials:
Mastic/Binder

Lab ID: 31034858
Client Sample #: CB-2b
Location: Missoula, MT

Layer 1 of 2
Description: White rubbery material
Non-Fibrous Materials:
Rubber/Binder

Layer 2 of 2
Description: Clear brittle mastic
Non-Fibrous Materials:
Mastic/Binder

Lab ID: 31034875
Client Sample #: CB-3b
Location: Missoula, MT

Layer 1 of 2
Description: White rubbery material
Non-Fibrous Materials:
Rubber/Binder

Layer 2 of 2
Description: Clear yellow brittle mastic
Other Fibrous Materials:
Cellulose 3%

Asbestos Type: %
None Detected ND

Laboratory:

Sampled by: Client
Analyzed by: Jessica Luedke
Reviewed by: Nick Ly

Date: 05/10/2011

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-19%, 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 accuracy 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

**Batch #: 3106537.00**  
**Client Project #: Unilom Z11025A**  
**Date Received: 05/09/2011**  
**Samples Received: 30**  
**Samples Analyzed: 30**  
**Method: EPA/600R-93/116**

#### Layer 1 of 3
- **Description:** Yellow rubbery material
  - Non-Fibrous Materials: Rubber/Binder
  - Other Fibrous Materials: Cellulose 3%
  - Asbestos Type: % None Detected ND

#### Layer 2 of 3
- **Description:** Clear brittle mastic
  - Non-Fibrous Materials: Mastic/Binder
  - Other Fibrous Materials: Cellulose 3%
  - Asbestos Type: % None Detected ND

#### Layer 3 of 3
- **Description:** Dark brown brittle mastic
  - Non-Fibrous Materials: Mastic/Binder
  - Other Fibrous Materials: Cellulose 5%
  - Asbestos Type: % None Detected ND

---

#### Lab ID: 31034861  
**Client Sample #: CB-2c**

#### Location: Missoula, MT

- **Layer 1 of 3**
  - **Description:** Yellow rubbery material
    - Non-Fibrous Materials: Rubber/Binder
    - Other Fibrous Materials: Cellulose 3%
    - Asbestos Type: % None Detected ND

- **Layer 2 of 3**
  - **Description:** Clear brittle mastic
    - Non-Fibrous Materials: Mastic/Binder
    - Other Fibrous Materials: Cellulose 3%
    - Asbestos Type: % None Detected ND

- **Layer 3 of 3**
  - **Description:** Dark brown brittle mastic
    - Non-Fibrous Materials: Mastic/Binder
    - Other Fibrous Materials: Cellulose 4%
    - Asbestos Type: % None Detected ND

---

#### Lab ID: 31034862  
**Client Sample #: CB-3c**

#### Location: Missoula, MT

- **Layer 1 of 3**
  - **Description:** Yellow rubbery material
    - Non-Fibrous Materials: Rubber/Binder
    - Other Fibrous Materials: Cellulose 3%
    - Asbestos Type: % None Detected ND

---

**Sampled by:** Client  
**Analyzed by:** Jessica Luedke  
**Reviewed by:** Nick Ly  
**Date:** 05/10/2011  
**Date:** 05/10/2011

---

*Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If samples 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.*

---

*Page 3 of 11*
## Bulk Asbestos Fibers Analysis

### By Polarized Light Microscopy

**Client:** Strata  
**Address:** 8653 W Hackamore Dr.  
**Boise, ID 83709**

**Attention:** Mr. Zachary St. Jean  
**Project Location:** Missoula, MT

---

### Layer 2 of 3

- **Description:** Clear brittle mastic  
- **Non-Fibrous Materials:** Mastic/Binder  
- **Other Fibrous Materials:** Cellulose 20%

### Layer 3 of 3

- **Description:** Dark brown brittle mastic with trace paint  
- **Non-Fibrous Materials:** Mastic/Binder, Paint  
- **Other Fibrous Materials:** Cellulose 5%

### Asbestos Type: %
- None Detected ND

---

### Lab ID: 31034863  
**Client Sample #:** CB-1d  
**Location:** Missoula, MT

### Layer 1 of 3

- **Description:** Black rubbery material  
- **Non-Fibrous Materials:** Rubber/Binder  
- **Other Fibrous Materials:** Cellulose 2%

### Layer 2 of 3

- **Description:** White soft mastic  
- **Non-Fibrous Materials:** Mastic/Binder  
- **Other Fibrous Materials:** Cellulose 4%

### Layer 3 of 3

- **Description:** White unreacted powdery material  
- **Calcareaous binder, Calcareaous particles**  
- **Other Fibrous Materials:** Cellulose 5%

### Asbestos Type: %
- None Detected ND

---

### Lab ID: 31034864  
**Client Sample #:** CB-2d  
**Location:** Missoula, MT

### Layer 1 of 3

- **Description:** Black rubbery material  
- **Non-Fibrous Materials:** Rubber/Binder  
- **Other Fibrous Materials:** Cellulose 2%

### Layer 2 of 3

- **Description:** White soft mastic  
- **Non-Fibrous Materials:** Mastic/Binder  
- **Other Fibrous Materials:** Cellulose 3%

### Asbestos Type: %
- None Detected ND

---

**Sampled by:** Client  
**Analyzed by:** Jessica Luedke  
**Reviewed by:** Nick Ly  
**Date:** 05/10/2011

**Note:** If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-5%, 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:** Strata  
**Address:** 8653 W Hackamore Dr.  
Boise, ID 83709

**Attention:** Mr. Zachary St. Jean  
**Project Location:** Missoula, MT

---

**Batch #: 3106537.00**  
**Client Project #:** Unimom Z11025A  
**Date Received:** 05/09/2011

**Samples Received:** 30  
**Samples Analyzed:** 30  
**Method:** EPA/600R-93/116

---

<table>
<thead>
<tr>
<th>Layer 3 of 3</th>
<th>Description: White compacted powdery material</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Calcareaeous binder, Calcareaeous particles</td>
<td>Cellulose: 3%</td>
<td>None Detected ND</td>
</tr>
</tbody>
</table>

**Lab ID:** 31034865  
**Client Sample #:** CB-3d  
**Location:** Missoula, MT

---

<table>
<thead>
<tr>
<th>Layer 1 of 3</th>
<th>Description: Black rubbery material</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Rubber/Binder</td>
<td>Cellulose: 3%</td>
<td>None Detected ND</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Layer 2 of 3</th>
<th>Description: White soft mastic</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Mastic/Binder</td>
<td>Cellulose: 3%</td>
<td>None Detected ND</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Layer 3 of 3</th>
<th>Description: White compacted powdery material</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Calcareaeous binder, Calcareaeous particles</td>
<td>Cellulose: 4%</td>
<td>None Detected ND</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Layer 1 of 2</th>
<th>Description: Tan sheet vinyl</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Vinyl/Binder</td>
<td>Cellulose: None detected ND</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Layer 2 of 2</th>
<th>Description: Gray fibrous backing with mastic</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Binder/Filler, Fiber particles, Mastic/Binder</td>
<td>Cellulose: 30%</td>
<td>Chrysotile 80%</td>
</tr>
</tbody>
</table>

---

**Lab ID:** 31034866  
**Client Sample #:** SV-1  
**Location:** Missoula, MT

---

**Lab ID:** 31034867  
**Client Sample #:** SV-2  
**Location:** Missoula, MT

---

**Sampled by:** Client  
**Analyzed by:** Jessica Luedke  
** Reviewed by:** Nick Ly  
**Date:** 05/10/2011

---

**Note:** If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600R-93/116 Method with the following measurement uncertainties for the reported % Asbestos: (1%=0.3%, 5%=1.6%, 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:** Strata  
Address: 8653 W Hackamore Dr.  
Boise, ID 83709

**Attention:** Mr. Zachary St. Jean  
Project Location: Missoula, MT

**Batch #:** 3106537.00  
Client Project #: Unimon Z11025A  
Date Received: 05/09/2011  
Samples Received: 30  
Samples Analyzed: 30  
Method: EPA800R-93/116

## Layer 1 of 2
**Description:** Tan sheet vinyl  
**Non-Fibrous Materials:**  
Vinyl/Binder  
**Other Fibrous Materials:**  
None Detected ND  
**Asbestos Type:** %  
None Detected ND

## Layer 2 of 2
**Description:** Gray fibrous backing with mastic  
**Non-Fibrous Materials:**  
Binder/Filler, Fine particles, Mastic/Binder  
**Other Fibrous Materials:**  
Cellulose 32%  
**Asbestos Type:** %  
Chrysotile 49%

## Lab ID: 31034868  
**Client Sample #:** SV-3  
**Location:** Missoula, MT

<table>
<thead>
<tr>
<th>Layer</th>
<th>Description</th>
<th>Non-Fibrous Materials</th>
<th>Other Fibrous Materials</th>
<th>Asbestos Type</th>
<th>Asbestos Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tan sheet vinyl</td>
<td>Vinyl/Binder</td>
<td>None Detected ND</td>
<td>%</td>
<td>None Detected ND</td>
</tr>
<tr>
<td>2</td>
<td>Gray fibrous backing with mastic</td>
<td>Binder/Filler, Fine particles, Mastic/Binder</td>
<td>Cellulose 35%</td>
<td>%</td>
<td>Chrysotile 47%</td>
</tr>
</tbody>
</table>

## Lab ID: 31034869  
**Client Sample #:** VCT-1a  
**Location:** Missoula, MT

<table>
<thead>
<tr>
<th>Layer</th>
<th>Description</th>
<th>Non-Fibrous Materials</th>
<th>Other Fibrous Materials</th>
<th>Asbestos Type</th>
<th>Asbestos Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tan vinyl</td>
<td>Vinyl/Binder, Mineral grains</td>
<td>Cellulose 2%</td>
<td>%</td>
<td>Chrysotile 3%</td>
</tr>
<tr>
<td>2</td>
<td>Black self mastic</td>
<td>Mastic/Binder</td>
<td>Cellulose 4%</td>
<td>%</td>
<td>None Detected ND</td>
</tr>
</tbody>
</table>

## Lab ID: 31034870  
**Client Sample #:** VCT-2a  
**Location:** Missoula, MT

**Sampled by:** Client  
**Analyzed by:** Jessica Luedke  
**Reviewed by:** Nick Ly  
**Date:** 05/10/2011

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 800R-93/118 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-8%, 10%=5-16%, 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:** Strata  
**Address:** 8653 W Hackamore Dr.  
**Boise, ID 83709**

**Attention:** Mr. Zachary St. Jean  
**Project Location:** Missoula, MT

<table>
<thead>
<tr>
<th>Description</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layer 1 of 2</td>
<td>Tan vinyl tile</td>
<td>Vinyl/Binder, Mineral grains</td>
</tr>
<tr>
<td>Layer 2 of 2</td>
<td>Black soft mastic</td>
<td>Non-Fibrous Materials: Mastic/Binder</td>
</tr>
</tbody>
</table>

**Asbestos Type:**  
- % Asbestos Type: % Chrysotile 2%
- % Asbestos Type: % None Detected ND

**Lab ID:** 31034871  
**Location:** Missoula, MT  
**Client Sample #:** VCT-3a

<table>
<thead>
<tr>
<th>Description</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layer 1 of 2</td>
<td>Tan vinyl tile</td>
<td>Vinyl/Binder, Mineral grains</td>
</tr>
<tr>
<td>Layer 2 of 2</td>
<td>Black soft mastic</td>
<td>Non-Fibrous Materials: Mastic/Binder</td>
</tr>
</tbody>
</table>

**Asbestos Type:**  
- % Asbestos Type: % Chrysotile 3%
- % Asbestos Type: % None Detected ND

**Lab ID:** 31034872  
**Location:** Missoula, MT  
**Client Sample #:** VICT-1b

<table>
<thead>
<tr>
<th>Description</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layer 1 of 2</td>
<td>White vinyl tile</td>
<td>Vinyl/Binder, Mineral grains</td>
</tr>
<tr>
<td>Layer 2 of 2</td>
<td>Yellow soft mastic</td>
<td>Non-Fibrous Materials: Mastic/Binder</td>
</tr>
</tbody>
</table>

**Asbestos Type:**  
- % Asbestos Type: % None Detected ND

**Lab ID:** 31034873  
**Location:** Missoula, MT  
**Client Sample #:** VCT-2b

**Note:** If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600R-83/16 Method with the following measurement uncertainties for the reported % Asbestos (1%=0.3%, 5%=1.5%, 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 skul 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.
Client: Strata  
Address: 8653 W Hackamore Dr.  
Boise, ID 83709  

Attention: Mr. Zachary St. Jean  
Project Location: Missoula, MT

Batch #: 3106537.00  
Client Project #: Unimon Z11025A  
DateReceived: 05/09/2011  
Samples Received: 30  
Samples Analyzed: 30  
Method: EPA/8000R-93/116

Layer 1 of 2  
Description: White vinyl tile  
Non-Fibrous Materials:  
Vinyl/Binder, Mineral grains  
Other Fibrous Materials:  
Cellulose: 3%  
Asbestos Type: %  
None Detected ND

Layer 2 of 2  
Description: Yellow soft mastic  
Non-Fibrous Materials:  
Mastic/Binder  
Other Fibrous Materials:  
Cellulose: 5%  
Asbestos Type: %  
None Detected ND

Lab ID: 31034874  
Client Sample #: VCT-3b  
Location: Missoula, MT

Layer 1 of 2  
Description: White vinyl tile  
Non-Fibrous Materials:  
Vinyl/Binder, Mineral grains  
Other Fibrous Materials:  
Cellulose: 2%  
Asbestos Type: %  
None Detected ND

Layer 2 of 2  
Description: Yellow soft mastic  
Non-Fibrous Materials:  
Mastic/Binder  
Other Fibrous Materials:  
Cellulose: 6%  
Asbestos Type: %  
None Detected ND

Lab ID: 31034875  
Client Sample #: VCT-1c  
Location: Missoula, MT

Layer 1 of 2  
Description: Off-white vinyl tile  
Non-Fibrous Materials:  
Vinyl/Binder, Mineral grains  
Other Fibrous Materials:  
Cellulose: 2%  
Asbestos Type: %  
None Detected ND

Layer 2 of 2  
Description: Black/yellow soft mastic  
Non-Fibrous Materials:  
Mastic/Binder  
Other Fibrous Materials:  
Cellulose: 5%  
Asbestos Type: %  
None Detected ND

Lab ID: 31034876  
Client Sample #: VCT-2c  
Location: Missoula, MT

Sampled by: Client
Analyzed by: Jessica Luedke  
Reviewed by: Nick Ly  
Date: 05/10/2011

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 8000R-93/116. Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and quality 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:** Strata  
**Address:** 8653 W Hackamore Dr.  
Boise, ID 83709

**Attention:** Mr. Zachary St. Jean  
**Project Location:** Missoula, MT

---

**Batch #: 3106537.00**  
**Client Project #:** Unimon Z11025A  
**Date Received:** 05/09/2011  
**Samples Received:** 30  
**Samples Analyzed:** 30  
**Method:** EPA/600R-93/116

<table>
<thead>
<tr>
<th>Layer 1 of 2</th>
<th>Description</th>
<th>Off-white vinyl tile</th>
<th>Non-Fibrous Materials: Vinyl/Binder, Mineral grains</th>
<th>Other Fibrous Materials: Cellulose 3%</th>
<th>Asbestos Type: % None Detected ND</th>
</tr>
</thead>
</table>

**Layer 2 of 2**  
**Description:** Black/yellow soft mastic  
**Non-Fibrous Materials:**  
**Other Fibrous Materials:** Cellulose 5%  
**Asbestos Type: % None Detected ND**

---

**Lab ID:** 31034877  
**Client Sample #:** VCT-3c  
**Location:** Missoula, MT

<table>
<thead>
<tr>
<th>Layer 1 of 2</th>
<th>Description</th>
<th>Off-white vinyl tile</th>
<th>Non-Fibrous Materials: Vinyl/Binder, Mineral grains</th>
<th>Other Fibrous Materials: Cellulose 2%</th>
<th>Asbestos Type: % None Detected ND</th>
</tr>
</thead>
</table>

**Layer 2 of 2**  
**Description:** Black/yellow soft mastic  
**Non-Fibrous Materials:**  
**Other Fibrous Materials:** Cellulose 6%  
**Asbestos Type: % None Detected ND**

---

**Lab ID:** 31034878  
**Client Sample #:** O41  
**Location:** Missoula, MT

<table>
<thead>
<tr>
<th>Layer 1 of 3</th>
<th>Description</th>
<th>Multi-color woven fibrous material</th>
<th>Non-Fibrous Materials: Fiber particles, Plastic</th>
<th>Other Fibrous Materials: Synthetic fibers 83%</th>
<th>Asbestos Type: % None Detected ND</th>
</tr>
</thead>
</table>

**Layer 2 of 3**  
**Description:** Gray soft mastic  
**Non-Fibrous Materials:** Cellulose 4%  
**Asbestos Type: % None Detected ND**

**Layer 3 of 3**  
**Description:** Yellow/black soft mastic  
**Non-Fibrous Materials:**  
**Other Fibrous Materials:** Cellulose 5%  
**Asbestos Type: % None Detected ND**

---

**Sampled by:** Client  
**Date:** 05/10/2011  
**Reviewed by:** Nick Ly  
**Date:** 05/10/2011  
**Technical Director:**

---

**Note:** If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0.3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 60%=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.
### Lab ID: 31034879  
**Client Sample #: C-2**  
**Location:** Missoula, MT  
**Layer 1 of 3**  
**Description:** Multi-colored woven fibrous material  
**Non-Fibrous Materials:** Fine particles, Plastic  
**Other Fibrous Materials:**  
**Synthetic fibers:** 86%  
**Asbestos Type:** %  
**None Detected**  
**Layer 2 of 3**  
**Description:** Gray soft material  
**Non-Fibrous Materials:**  
**Other Fibrous Materials:**  
**Cellulose:** 3%  
**Asbestos Type:** %  
**None Detected**  
**Layer 3 of 3**  
**Description:** Yellow/black soft mastic  
**Non-Fibrous Materials:**  
**Other Fibrous Materials:**  
**Cellulose:** 6%  
**Asbestos Type:** %  
**None Detected**

### Lab ID: 31034880  
**Client Sample #: C-3**  
**Location:** Missoula, MT  
**Layer 1 of 3**  
**Description:** Multi-colored woven fibrous material  
**Non-Fibrous Materials:** Fine particles, Plastic  
**Other Fibrous Materials:**  
**Synthetic fibers:** 84%  
**Asbestos Type:** %  
**None Detected**  
**Layer 2 of 3**  
**Description:** Gray soft material  
**Non-Fibrous Materials:**  
**Other Fibrous Materials:**  
**Cellulose:** 3%  
**Asbestos Type:** %  
**None Detected**  
**Layer 3 of 3**  
**Description:** Yellow/black soft mastic  
**Non-Fibrous Materials:**  
**Other Fibrous Materials:**  
**Cellulose:** 6%  
**Asbestos Type:** %  
**None Detected**

### Lab ID: 31034881  
**Client Sample #: WB-1**  
**Location:** Missoula, MT  
**Layer 1 of 3**  
**Description:** Multi-colored woven fibrous material  
**Non-Fibrous Materials:** Fine particles, Plastic  
**Other Fibrous Materials:**  
**Synthetic fibers:** 86%  
**Asbestos Type:** %  
**None Detected**  
**Layer 2 of 3**  
**Description:** Gray soft material  
**Non-Fibrous Materials:**  
**Other Fibrous Materials:**  
**Cellulose:** 3%  
**Asbestos Type:** %  
**None Detected**  
**Layer 3 of 3**  
**Description:** Yellow/black soft mastic  
**Non-Fibrous Materials:**  
**Other Fibrous Materials:**  
**Cellulose:** 6%  
**Asbestos Type:** %  
**None Detected**

---

**Sampled by:** Client  
**Analyzed by:** Jessica Luedke  
**Reviewed by:** Nick Ly  
**Date:** 05/10/2011  
**Date:** 05/10/2011  
**Nick Ly, Technical Director**

**Note:** If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-3%, 10%=5-16%, 20%=10-30%, 50%=40-80%). This report relates only to the items tested. If sample was not collected by NVL personnel, the accuracy of the results is limited by the methodology and scrutiny 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:** Strata  
**Address:** 8663 W Hackamore Dr.  
**Boise, ID 83709**

**Attention:** Mr. Zachary St. Jean  
**Project Location:** Missoula, MT

**Batch #: 3106537.00**
**Client Project #: Unimon Z11025A**  
**Date Received:** 05/09/2011  
**Samples Received:** 30  
**Samples Analyzed:** 30  
**Method:** EPA/800R-93/116

| Layer 1 of 1 | Description: Brown compressed fibrous material with paint  
| Non-Fibrous Materials: | Other Fibrous Materials: |
| | Cellulose: 87% |
| Lab ID: 31034882 | Client Sample #: WB-2  
| Location: Missoula, MT |
| Asbestos Type: | % |
| None Detected ND |

| Layer 1 of 1 | Description: Brown compressed fibrous material with paint  
| Non-Fibrous Materials: | Other Fibrous Materials: |
| | Cellulose: 86% |
| Lab ID: 31034883 | Client Sample #: WB-3  
| Location: Missoula, MT |
| Asbestos Type: | % |
| None Detected ND |

**Sampled by:** Client  
**Analyzed by:** Jessica Luedke  
**Reviewed by:** Nick Ly  
**Date:** 05/10/2011  
**Technical Director:** Nick Ly

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 800R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-35%, 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 quality 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.
**CHAIN of CUSTODY SAMPLE LOG**

**NVL Laboratories, Inc.**
4730 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg. Pager: 206.344.1878
Fax: 206.869.1956 1.888.NVL.LABS (665.5227)

**Client** STRATA, Inc.
**Address** 723 Ronan Street
Missoula, MT

**Project Manager** Zachary St. Jean
**Project Location** Missoula, MT

**Phone:**
- PCM (NIOSH 7400)
- TEM (NIOSH 7402)
- TEM (AHERA)
- TEM (EPA Level II)
- Other

**Asbestos Air**
- PLM (EPA/600/R-03/118)
- PLM (EPA Point Count)
- PLM (EPA Ground Air)
- TEM Bulk

**Asbestos Bulk**
- PLM (EPA/600/R-03/118)
- PLM (EPA Point Count)
- PLM (EPA Ground Air)
- TEM Bulk

**Mold/Fungus**
- Mold Air
- Mold Bulk
- Rotometer Calibration

**METALS**
- Total Metals
- ICP (ppm)
- GFAA (ppb)
- Soil
- Paint Chips in %
- Other Types of Analysis
- Other Metals
- Fiberglass
- Silica
- Nuisance Dust
- Other (Specify)
- Respirable Dust

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

<table>
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<tr>
<th>Seq. #</th>
<th>Lab ID</th>
<th>Client Sample Number Comments</th>
<th>A/R</th>
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<td>15</td>
<td>CB-12b</td>
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</table>

**Print Below**

**Sign Below**

**Company** STRATA, Inc.
**Date** 05/06/11 **Time** 10:10

**Sampled by** Zachary St. Jean
**Relinquished by** Zachary St. Jean
**Received by** M. Dickie
**Analyst** M. Dickie
**Results Released by** M. Dickie

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
**NVL Laboratories, Inc.**
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100  Emerg.Pager: 206.344.1878
Fax: 206.634.1936  1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY**
**SAMPLE LOG**

**BATCH ID**
3106537.00

**Client**
STRATA, Inc.

**Street**
723 Ronan Street
Missoula, MT

**Project Manager**
Zachary St. Jean

**Project Location**
Missoula, MT

**NVL Batch Number**
UNION Z 11025A

**Client Job Number**
UNION Z 11025A

**Total Samples**
48

**Turn Around Time**
- 1-Hr
- 2-Hrs
- 3-Hrs
- 4-Hrs
- 5 Days
- 6 to 10 Days
- 11+ Days
- Other

**Condition of Package**
- Good
- Damaged (no spillage)
- Severe damage (collapse)

<table>
<thead>
<tr>
<th>Seq. #</th>
<th>Lab ID</th>
<th>Client Sample Number</th>
<th>Comments (e.g Sample area, Sample Volume, etc)</th>
<th>A/R</th>
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</thead>
<tbody>
<tr>
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<td>VCT 1a</td>
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<tr>
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<td>15</td>
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</tbody>
</table>

**Print Below**
Sampled by: Zachary St. Jean

**Sign Below**

**Company**
STRATA, Inc.

**Date**
05/06/11

**Time**
10:30

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
May 9, 2011

Zachary St. Jean
Strata
853 W Hackamore Dr.
Boise, ID 83709

RE: Bulk Asbestos Fiber Analysis, NVL Batch # 3106538.00

Dear Mr. St. Jean,

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

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

For those samples with asbestos concentrations between 0 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

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

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

Sincerely,

Nick Ly, Technical Director

NVLAP Lab Code 102063-0

Enc.: Sample Results
# Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

**Client:** Strata  
**Address:** 8653 W Hackamore Dr.  
Boise, ID 83709

**Attention:** Mr. Zachary St. Jean  
**Project Location:** Missoula, MT

**Batch #:** 3106538.00  
**Client Project #:** Unimon Z11025A  
**Date Received:** 05/09/2011  
**Samples Received:** 18  
**Samples Analyzed:** 18  
**Method:** EPA/600R-93/116

<table>
<thead>
<tr>
<th>Lab ID: 31034885</th>
<th>Client Sample #: GWB-1a</th>
<th>Location: Missoula, MT</th>
</tr>
</thead>
</table>
| **Layer 1 of 1** | **Description:** Off-white chalky material with paper and paint | **Non-Fibrous Materials:** Other Fibrous Materials: %  
**Fine particles, Gypsum/Binder, Paint:** Cellulose 18%  
**Asbestos Type:** % None Detected ND

<table>
<thead>
<tr>
<th>Lab ID: 31034886</th>
<th>Client Sample #: GWB-2a</th>
<th>Location: Missoula, MT</th>
</tr>
</thead>
</table>
| **Layer 1 of 1** | **Description:** Off-white chalky material with paper and paint | **Non-Fibrous Materials:** Other Fibrous Materials: %  
**Fine particles, Gypsum/Binder, Paint:** Cellulose 22%  
**Asbestos Type:** % None Detected ND

<table>
<thead>
<tr>
<th>Lab ID: 31034887</th>
<th>Client Sample #: GWB-3a</th>
<th>Location: Missoula, MT</th>
</tr>
</thead>
</table>
| **Layer 1 of 1** | **Description:** Off-white chalky material with paper and paint | **Non-Fibrous Materials:** Other Fibrous Materials: %  
**Fine particles, Gypsum/Binder, Paint:** Cellulose 20%  
**Asbestos Type:** % None Detected ND

<table>
<thead>
<tr>
<th>Lab ID: 31034888</th>
<th>Client Sample #: GWB-1b</th>
<th>Location: Missoula, MT</th>
</tr>
</thead>
</table>
| **Layer 1 of 2** | **Description:** Thin of white material with paint | **Non-Fibrous Materials:** Other Fibrous Materials: %  
**Fine particles, Binder/Filler, Paint:** Wollastonite 1%  
**Asbestos Type:** % None Detected ND  
**Layer 2 of 2** | **Description:** Offwhite chucky material with paper | **Non-Fibrous Materials:** Other Fibrous Materials: %  
**Fine particles, Gypsum/Binder:** Cellulose 25%  
**Asbestos Type:** % None Detected ND

<table>
<thead>
<tr>
<th>Lab ID: 31034888</th>
<th>Client Sample #: GWB-2b</th>
<th>Location: Missoula, MT</th>
</tr>
</thead>
</table>

**Sampled by:** Client  
**Analyzed by:** Nadezhda Pryshyazhnyuk  
**Reviewed by:** Nick Ly  
**Date:** 05/09/2011  
**Technical Director:**

---

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

**By Polarized Light Microscopy**

**Client:** Strata  
**Address:** 8653 W Hackamore Dr.  
**Boise, ID 83709**

**Attention:** Mr. Zachary St. Jean  
**Project Location:** Missoula, MT

---

**Layer 1 of 2**  
**Description:** Trace off-white material with paint  
**Non-Fibrous Materials:**  
- Fine particles, Binder/Filler, Paint
**Other Fibrous Materials:**  
- Wollastonite 2%
- None Detected ND

**Layer 2 of 2**  
**Description:** Off-white chalky material with paper  
**Non-Fibrous Materials:**  
- Fine particles, Gypsum/Binder
**Other Fibrous Materials:**  
- Cellulose 23%
- Glass fibers 3%
- None Detected ND

---

**Client Sample #: GWB-3b**  
**Lab ID: 31034830**  
**Location:** Missoula, MT

**Layer 1 of 2**  
**Description:** Trace off-white material with paint  
**Non-Fibrous Materials:**  
- Fine particles, Binder/Filler, Paint
**Other Fibrous Materials:**  
- Wollastonite 2%
- None Detected ND

**Layer 2 of 2**  
**Description:** Off-white chalky material with paper  
**Non-Fibrous Materials:**  
- Fine particles, Gypsum/Binder
**Other Fibrous Materials:**  
- Cellulose 24%
- Glass fibers 2%
- None Detected ND

---

**Client Sample #: CTM-a**  
**Lab ID: 31034891**  
**Location:** Missoula, MT

**Layer 1 of 4**  
**Description:** White powdery material with paint  
**Non-Fibrous Materials:**  
- Fine particles, Binder/Filler, Paint
**Other Fibrous Materials:**  
- Wollastonite 5%
- None Detected ND

**Layer 2 of 4**  
**Description:** Yellow fibrous material  
**Non-Fibrous Materials:**  
- Fine particles, Glass beads
**Other Fibrous Materials:**  
- Glass fibers 90%
- None Detected ND

---

**Sampled by:** Client  
**Analyzed by:** Nadezhda Prisyazhnyuk  
**Reviewed by:** Nick Ly

**Date:** 05/09/2011

**Note:** If samples are not homogenous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-5%, 10%=6-15%, 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 U.S. Government.
Client: Strata  
Address: 8653 W Hackamore Dr.  
Boise, ID 83709  

Attention: Mr. Zachary St. Jean  
Project Location: Missoula, MT

<table>
<thead>
<tr>
<th>Layer 3 of 4</th>
<th>Description: Trace tan compressed fibrous material</th>
<th>Non-Fibrous Materials: Fine particles, Adhesive/Binder</th>
<th>Other Fibrous Materials: Cellulose 1%</th>
<th>Asbestos Type: % None Detected</th>
<th>ND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layer 4 of 4</td>
<td>Description: Tan fibrous material</td>
<td>Non-Fibrous Materials: Fine particles, Adhesive/Binder</td>
<td>Other Fibrous Materials: Cellulose 98%</td>
<td>Asbestos Type: % None Detected</td>
<td>ND</td>
</tr>
</tbody>
</table>

Lab ID: 31034892  
Location: Missoula, MT

| Layer 1 of 5 | Description: White powdery material with pitch | Non-Fibrous Materials: Fine particles, Binder/Filler, Paint | Other Fibrous Materials: wollastonite 5% | Asbestos Type: % None Detected | ND |
| Layer 2 of 5 | Description: Yellow fibrous material | Non-Fibrous Materials: Fine particles, Calcium oxide | Other Fibrous Materials: Glass fibers 90% | Asbestos Type: % None Detected | ND |
| Layer 3 of 5 | Description: Trace tan compressed fibrous material | Non-Fibrous Materials: Fine particles, Adhesive/Binder | Other Fibrous Materials: Cellulose 98% | Asbestos Type: % None Detected | ND |
| Layer 4 of 5 | Description: Brown, white material | Non-Fibrous Materials: Mastic/Binder | Other Fibrous Materials: None Detected | Asbestos Type: % None Detected | ND |
| Layer 5 of 5 | Description: Off white waxy material with paper | Non-Fibrous Materials: Fine particles, Gypsum/Binder | Other Fibrous Materials: Cellulose 75% | Asbestos Type: % None Detected | ND |

Lab ID: 31034893  
Location: Missoula, MT

Sampled by: Client  
Analyzed by: Nadezhda Prsyazhnyuk  
Reviewed by: Nick Ly  
Date: 05/09/2011  

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-5%, 10%=5-15%, 20%=10-30%, 50%=40-80%). 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:** Strata  
**Address:** 8653 W Hackamore Dr.  
**Boise, ID 83709**  

**Attention:** Mr. Zachary St. Jean  
**Project Location:** Missoula, MT

**Batch #: 3106538.00**  
**Client Project #: Unimon Z11025A**  
**Date Received:** 05/09/2011  
**Samples Received:** 18  
**Samples Analyzed:** 18  
**Method:** EPA/600R-93/116

<table>
<thead>
<tr>
<th>Layer</th>
<th>Description</th>
<th>Non-Fibrous Materials</th>
<th>Other Fibrous Materials</th>
<th>Asbestos Type</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 of 5</td>
<td>White powdery material with paint</td>
<td>Fine particles, Binder/Filler, Paint</td>
<td>Wollastonite 4%</td>
<td>None Detected ND</td>
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<tr>
<td>2 of 5</td>
<td>Yellow fibrous material</td>
<td>Fine particles, Glass beads</td>
<td>Other Fibrous Materials: 90%</td>
<td>None Detected ND</td>
<td></td>
</tr>
<tr>
<td>3 of 5</td>
<td>Trace tan compressed fibrous material</td>
<td>Fine particles, Adhesive/Binder</td>
<td>Other Fibrous Materials: Cellulose 97%</td>
<td>None Detected ND</td>
<td></td>
</tr>
<tr>
<td>4 of 5</td>
<td>Brown brittle mastic</td>
<td>Fine particles, Adhesive/Binder</td>
<td>Other Fibrous Materials: Cellulose 55%</td>
<td>None Detected ND</td>
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</tr>
<tr>
<td>5 of 5</td>
<td>Off-white chalky material with paper</td>
<td>Fine particles, Gypsum/Binder</td>
<td>Other Fibrous Materials: Mastic/Binder</td>
<td>None Detected ND</td>
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</tr>
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</table>

**Lab ID:** 31034894  
**Location:** Missoula, MT

**Layer 1 of 2**  
**Description:** Trace tan compressed fibrous material with paint  
**Non-Fibrous Materials:** Fine particles, Adhesive/Binder, Paint  
**Other Fibrous Materials:** Cellulose 96%  
**Asbestos Type:** None Detected ND

**Layer 2 of 2**  
**Description:** Brown brittle mastic  
**Non-Fibrous Materials:** Fine particles, Gypsum/Binder  
**Other Fibrous Materials:** Mastic/Binder  
**Asbestos Type:** None Detected ND

**Lab ID:** 31034895  
**Location:** Missoula, MT

**Client Sample #: CT-2b**

**Sampled by:** Client  
**Analyzed by:** Nadezhda Prysazhnyuk  
**Reviewed by:** Nick Ly  
**Date:** 05/09/2011

---

**Note:** If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600R-93/116 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 quality 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.

---

Page 4 of 7
### Bulk Asbestos Fibers Analysis

**Client**: Strata  
**Address**: 8653 W Heckamore Dr.  
**Boise, ID 83709**

**Attention**: Mr. Zachary St. Jean  
**Project Location**: Missoula, MT

#### Batch #: 3106538.00

- **Client Project #:** Unimom Z11026A  
- **Date Received:** 05/09/2011  
- **Samples Received:** 18  
- **Samples Analyzed:** 18  
- **Method:** EPA/600R-93/116

### Layer Descriptions

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<tr>
<th>Layer</th>
<th>Description</th>
<th>Non-Fibrous Materials</th>
<th>Other Fibrous Materials</th>
<th>Asbestos Type</th>
<th>Asbestos Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 of 2</td>
<td>Tan compressed fibrous material with paint</td>
<td>Fine particles, Adhesive/Binder, Paint</td>
<td>Other Fibrous Materials:</td>
<td>Asbestos Type: %</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Cellulose: 95%</td>
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<tr>
<td>2 of 2</td>
<td>Brown brittle mastic</td>
<td>Non-Fibrous Materials: Mastic/Binder</td>
<td>Other Fibrous Materials:</td>
<td>Asbestos Type: %</td>
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<td></td>
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<td>Cellulose: 95%</td>
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</tbody>
</table>

### Lab IDs and Client Samples

#### Lab ID: 31034896  
**Client Sample #:** CT-3b  
**Location**: Missoula, MT

<table>
<thead>
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<th>Layer</th>
<th>Description</th>
<th>Non-Fibrous Materials</th>
<th>Other Fibrous Materials</th>
<th>Asbestos Type</th>
<th>Asbestos Type</th>
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</thead>
<tbody>
<tr>
<td>1 of 2</td>
<td>Tan compressed fibrous material with paint</td>
<td>Fine particles, Adhesive/Binder, Paint</td>
<td>Other Fibrous Materials:</td>
<td>Asbestos Type: %</td>
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<td></td>
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<td>Cellulose: 95%</td>
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<td></td>
</tr>
<tr>
<td>2 of 2</td>
<td>Brown brittle mastic</td>
<td>Non-Fibrous Materials: Mastic/Binder</td>
<td>Other Fibrous Materials:</td>
<td>Asbestos Type: %</td>
<td>None Detected ND</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cellulose: 95%</td>
<td></td>
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</tr>
</tbody>
</table>

#### Lab ID: 31034897  
**Client Sample #:** M-1  
**Location**: Missoula, MT

<table>
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<tr>
<th>Layer</th>
<th>Description</th>
<th>Non-Fibrous Materials</th>
<th>Other Fibrous Materials</th>
<th>Asbestos Type</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1 of 2</td>
<td>Gray sandy material</td>
<td>Fire particles, Binder/Filler, Sand</td>
<td>Other Fibrous Materials: Wollastonite</td>
<td>Asbestos Type: %</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cellulose: 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 of 2</td>
<td>Sandy white enite material</td>
<td>Fine particles, Binder/Filler, Mineral grains</td>
<td>Other Fibrous Materials:</td>
<td>Asbestos Type: %</td>
<td>None Detected ND</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cellulose: 1%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Lab ID: 31034898  
**Client Sample #:** M-2  
**Location**: Missoula, MT

<table>
<thead>
<tr>
<th>Layer</th>
<th>Description</th>
<th>Non-Fibrous Materials</th>
<th>Other Fibrous Materials</th>
<th>Asbestos Type</th>
<th>Asbestos Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 of 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2 of 2</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sampled by:** Client  
**Analyzed by:** Nadezhda Pryyszhnyuk  
**Reviewed by:** Nick Ly  
**Date:** 05/09/2011

**Note:** If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos: (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 60%=40-50%). This report relates only to the items tested. If sample was not collected by NVL personnel, 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**

**Batch #: 3106538.00**

**Client:** Strata  
**Address:** 8653 W Hackamore Dr.  
**Boise, ID 83709**

**Attention:** Mr. Zachary St. Joan  
**Project/Location:** Missoula, MT

## Layer 1 of 2
- **Description:** Gray sandy material  
- **Non-Fibrous Materials:**  
  - Fine particles, Binder/Filler, Sand  
  - Mica  
- **Other Fibrous Materials:**  
  - Wollastonite: 2%  
  - Cellulose: 1%  
- **Asbestos Type:** %  
- **Asbestos Type:** None Detected ND

## Layer 2 of 2
- **Description:** Off-white brittle material  
- **Non-Fibrous Materials:**  
  - Fine particles, Binder/Filler, Mineral grains
- **Other Fibrous Materials:**  
  - None Detected ND
- **Asbestos Type:** %  
- **Asbestos Type:** None Detected ND

---

**Lab ID: 31034899**  
**Client Sample #: M-3**  
**Location:** Missoula, MT

## Layer 1 of 2
- **Description:** Gray sandy material  
- **Non-Fibrous Materials:**  
  - Fine particles, Binder/Filler, Sand  
  - Mica  
- **Other Fibrous Materials:**  
  - Wollastonite: 2%  
- **Asbestos Type:** %  
- **Asbestos Type:** None Detected ND

## Layer 2 of 2
- **Description:** Off-white brittle material  
- **Non-Fibrous Materials:**  
  - Fine particles, Binder/Filler, Mineral grains
- **Other Fibrous Materials:**  
  - None Detected ND
- **Asbestos Type:** %  
- **Asbestos Type:** None Detected ND

---

**Lab ID: 31034900**  
**Client Sample #: WP-1**  
**Location:** Missoula, MT

## Layer 1 of 1
- **Description:** White soft material with adhesive  
- **Calcareaous particles, Filler/Binder, Adhesive/Binder**
- **Non-Fibrous Materials:**  
  - None Detected ND
- **Other Fibrous Materials:**  
  - None Detected ND
- **Asbestos Type:** %  
- **Asbestos Type:** None Detected ND

---

**Lab ID: 31034901**  
**Client Sample #: WP-2**  
**Location:** Missoula, MT

## Layer 1 of 1
- **Description:** White soft material with adhesive  
- **Calcareaous particles, Filler/Binder, Adhesive/Binder**
- **Non-Fibrous Materials:**  
  - None Detected ND
- **Other Fibrous Materials:**  
  - None Detected ND
- **Asbestos Type:** %  
- **Asbestos Type:** None Detected ND

---

**Sampled by:** Client  
**Analyzed by:** Nadezhda Pryazhnyuk  
**Reviewed by:** Nick Ly  
**Date:** 05/09/2011

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.
Client: Strata
Address: 8653 W Hackamore Dr.
Boise, ID 83709

Attention: Mr. Zachary St. Jean
Project Location: Missoula, MT

Batch #: 3106538.00
Client Project #: Unimon Z11025A
Date Received: 05/09/2011
Samples Received: 18
Samples Analyzed: 18
Method: EPA/600R-93/116

Lab ID: 31034902
Client Sample #: WP-3
Location: Missoula, MT

Layer 1 of 1
Description: White soft material with adhesive

Non-Fibrous Materials:
Calcaceous particles, Binder/Filter, Adhesive/Binder

Other Fibrous Materials:
None Detected ND

Asbestos Type:
None Detected ND

Sampled by: Client
Analyzed by: Nadezhda Prysiazhnyuk
Reviewed by: Nick Ly
Date: 05/09/2011

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

**SAMPLE LOG**

<table>
<thead>
<tr>
<th>Client: STRATA, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street: 723 Roman Street</td>
</tr>
<tr>
<td>Project Manager: Zachary St. Jean</td>
</tr>
<tr>
<td>Project Location: Missoula, MT</td>
</tr>
</tbody>
</table>

**NVL Laboratories, Inc.**

4708 Aurora Ave N, Seattle, WA 98103


**BATCH ID**

3106538.00

**NVL Batch Number**

UNIMON 211025A

**Client Job Number**

48

**Total Samples**

2

**Turn Around Time**

☐ 1-Hr  ☐ 24-Hrs  ☐ 4 Days
☐ 2-Hrs  ☐ 2 Days  ☐ 5 Days
☐ 4-Hrs  ☐ 3 Days  ☐ 6 to 10 Days

Please call for TAT less than 24 Hrs

**Email address**: zatjean@stratageotech.com

---

**Table: Sample Log**

<table>
<thead>
<tr>
<th>Seq. #</th>
<th>Lab ID</th>
<th>Client Sample Number</th>
<th>Comments (e.g. Sample area, Sample Volume, etc.)</th>
<th>A/R</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>GwB-1a</td>
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<td>GwB-1b</td>
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<tr>
<td>15</td>
<td>Cr</td>
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</tbody>
</table>

Print Below: Zachary St. Jean  Sign Below: STRATA, Inc.  Date: 05/06/11  Time: 16:10

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

**By Polarized Light Microscopy**

**Batch #: 3106854.00**

**Client: Strata**  
**Address: 8653 W Hackamore Dr. Boise, ID 83709**  
**Attention: Mr. Zachary St. Jean**  
**Project Location: Missoula, MT**

<table>
<thead>
<tr>
<th>Lab ID: 31037593</th>
<th>Client Sample #: TI-1</th>
<th>Asbestos Type: %</th>
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</thead>
<tbody>
<tr>
<td>Location: Missoula, MT</td>
<td>Description: Off-white compressed powdery material</td>
<td>Chrysotile 7%</td>
</tr>
<tr>
<td>Layer 1 of 1</td>
<td>Non-Fibrous Materials: Fine particles, Binder/Filler</td>
<td>Amosite 30%</td>
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<tr>
<td>Other Fibrous Materials: %</td>
<td>None Detected</td>
<td>ND</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lab ID: 31037594</th>
<th>Client Sample #: TI-2</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location: Missoula, MT</td>
<td>Description: Off-white compressed powdery material</td>
<td>Chrysotile 6%</td>
</tr>
<tr>
<td>Layer 1 of 1</td>
<td>Non-Fibrous Materials: Fine particles, Binder/Filler</td>
<td>Amosite 27%</td>
</tr>
<tr>
<td>Other Fibrous Materials: %</td>
<td>None Detected</td>
<td>ND</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lab ID: 31037595</th>
<th>Client Sample #: TI-3</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location: Missoula, MT</td>
<td>Description: Off-white compressed powdery material</td>
<td>Chrysotile 5%</td>
</tr>
<tr>
<td>Layer 1 of 1</td>
<td>Non-Fibrous Materials: Fine particles, Binder/Filler</td>
<td>Amosite 32%</td>
</tr>
<tr>
<td>Other Fibrous Materials: %</td>
<td>None Detected</td>
<td>ND</td>
</tr>
</tbody>
</table>

**Sampled by: Client**  
**Analyzed by: Nadezhda Prysyazhnyuk**  
**Date: 05/16/2011**

**Note:** If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-80%). 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 ability 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.
APPENDIX C

Lead Analytical Laboratory Test Results and Chain-of-Custody Forms
May 9, 2011

Zachary St. Jean
Strata
2653 W Hackamore Dr.
Boise, ID 83709

RE: Metals Analysis; NVL Batch # 3106535.00

Dear Mr. St. Jean,

Enclosed please find the test results for samples submitted to our laboratory for analysis. Preparation of these samples was conducted following protocol outlined in EPA Method SW 846-3051 unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with U.S. EPA, NIOSH, OSHA and other ASTM methods.

For matrix materials submitted as paint, dust wipe, soil or TCLP samples, analysis for the presence of total metals is conducted using published U.S. EPA Methods. Paint and soil results are usually expressed in mg/kg, which is equivalent to parts per million (ppm). Lead (Pb) in paint is usually expressed in parts per million (ppm). Percent (%) or mg/cm² by area. Dust wipe sample results are usually expressed in ug/wipe and ug/m². TCLP samples are reported in mg/L (ppm). For air filter samples analyses are conducted using NIOSH and OSHA Methods. Results are expressed in ug/filter and ug/m³. Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results pertain only to items tested. Lead test results are not blank corrected.

For recent regulatory updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more details.

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

Thank you for using our laboratory services. If you need further assistance please feel free to call us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

Nick Ly, Technical Director

Enclosure:
Client: Strata  
Address: 8653 W Hackamore Dr.  
Boise, ID 83709

Attention: Mr. Zachary St. Jean  
Project Location: Missoula, MT

<table>
<thead>
<tr>
<th>Lab ID</th>
<th>Client Sample #</th>
<th>Sample Weight (g)</th>
<th>RL in mg/Kg</th>
<th>Results in mg/Kg</th>
<th>Results in percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>31034849</td>
<td>LBP-1</td>
<td>0.1938</td>
<td>60.0</td>
<td>120.0</td>
<td>0.0500</td>
</tr>
<tr>
<td>31034850</td>
<td>LBP-2</td>
<td>0.0273</td>
<td>80.0</td>
<td>100.0</td>
<td>0.1100</td>
</tr>
<tr>
<td>31034851</td>
<td>LBP-3</td>
<td>0.0092</td>
<td>&lt; 500.0</td>
<td>&lt; 530.0</td>
<td>&lt; 0.0300</td>
</tr>
<tr>
<td>31034852</td>
<td>LBP-4</td>
<td>0.0150</td>
<td>920.0</td>
<td>&lt; 320.0</td>
<td>&lt; 0.0320</td>
</tr>
<tr>
<td>31034853</td>
<td>LBP-5</td>
<td>0.0042</td>
<td>230.0</td>
<td>380.0</td>
<td>0.0380</td>
</tr>
</tbody>
</table>

mg/Kg = Milligrams per kilogram  
Percent = Milligrams per kilogram / 10000  
Note: Method QC results are acceptable unless stated otherwise.  
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Sampled by: Client  
Date Analyzed: 05/09/2011  
Date Issued: 05/09/2011

Reviewed by: Nick Ly

RL = Reporting Limit  
'<=' = Below the reporting Limit

Bench Run No: 31-0509-03
**NVL Laboratories, Inc.**

**CHAIN of CUSTODY**

**SAMPLE LOG**

**BATCH ID**

**3106535.00**

**Client:** STRATA, Inc.

**Client Job Number:** UNIMON Z11025A

**NVL Batch Number:**

**Total Samples:** 0

**Turn Around Time:**
- 1-Hr
- 24-Hrs
- 4 Days
- 2-3 Days
- 5 Days
- 4-6 Days
- 6 to 10 Days

**Project Manager:** Zachary St. Jean

**Project Location:** Missoula, MT

**Phone:**

- Asbestos Air
- PCM (NIOSH 7400)
- TEM (NIOSH 7402)
- TEM (AHERA)
- TEM (EPA Level II)
- Other
- Asbestos Bulk
- PLM (EPA 608/617)
- PLM (EPA Point Count)
- PLM (EPA Chemistry)
- TEM Bulk
- Mold/Fungus
- Mold Air
- Mold Bulk
- Rotometer Calibration

**METALS**

<table>
<thead>
<tr>
<th>Total Metals</th>
<th>Inst./Det. Limit Matrix</th>
<th>RCRA Metals</th>
<th>Other Metals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Filter</td>
<td>Lead (Pb)</td>
<td>Arsenic (As)</td>
<td>Alluvial Gold</td>
</tr>
<tr>
<td>ICP (ppm)</td>
<td>Barium (Ba)</td>
<td>Mercury (Hg)</td>
<td>Copper (Cu)</td>
</tr>
<tr>
<td>GFAA (ppb)</td>
<td>Cadmium (Cd)</td>
<td>Chromium (Cr)</td>
<td>Nickel (Ni)</td>
</tr>
<tr>
<td>Soil</td>
<td>Zinc (Zn)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other Types of Analysis:**
- Fiberglass
- Nuisance Dust
- Other (Specify)
- Silica
- Respirable Dust

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

<table>
<thead>
<tr>
<th>Seq. #</th>
<th>Lab ID</th>
<th>Client Sample Number</th>
<th>Comments (e.g. Sample area, Sample Volume, etc)</th>
<th>AR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LBP-1</td>
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<td>15</td>
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</tbody>
</table>

**Print Below**

- Sampled by: Zachary St. Jean
- Rejected by: Zachary St. Jean
- Received by: NVL
- Analyzed by: NVL
- Results Called by: NVL
- Results Faxed by: NVL

**Sign Below**

- Company: STRATA, Inc.
- Date: 05/06/11
- Time: 10:30

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
# CHAIN of CUSTODY SAMPLE LOG

**Batch ID:** 3106854.00

**Client:** STRATA, Inc.
**Client Job Number:** UNIMON Z11025A

**NVL Batch Number**

<table>
<thead>
<tr>
<th>Total Samples</th>
<th>Turn Around Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4 Days</td>
</tr>
</tbody>
</table>

**Project Manager:** Zachary St. Jean
**Project Location:** Missoula, MT

**Phone:**
- Asbestos Air
- PCM (NIOSH 7400)
- TEM (NIOSH 7402)
- TEM (AHERA)
- TEM (EPACal II)
- Other

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

**METALS**
- Total Metals
- TCLP
- FAA (ppm)
- ICP (ppm)
- GFAA (ppb)
- Soil
- Air Filter
- Drinking Water
- Dustwipes (area)
- Paint Chips
- Paint Chips in cm
- Waste Water
- Other

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

<table>
<thead>
<tr>
<th>Seq. #</th>
<th>Lab ID</th>
<th>Client Sample Number</th>
<th>Comments (e.g., Sample area, Sample Volume, etc.)</th>
<th>A/R</th>
</tr>
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<tbody>
<tr>
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<td></td>
<td>FE-1</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Print Below**

**Sampled by:** Zachary St. Jean
**Relinquished by:** Zachary St. Jean
**Received by:** Midori Yada
**Received by:** NVL

**Sign Below**

**Company:** STRATA, Inc.
**Date:** 05/06/11
**Time:** 10:30

**Results Called by:**
**Results Faxed by:**

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
May 11, 2011

Zachary St. Jean
Strata
8653 W Hackamore Dr.
Boise, ID 83709

RE: Metals Analysis; NVL Batch # 3106542.00

Dear Mr. St. Jean,

Enclosed please find the test results for samples submitted to our laboratory for analysis. Preparation of these samples was conducted following protocol outlined in EPA Method SW 846-3051 unless stated otherwise. Analysis of those samples was performed using analytical instruments in accordance with U.S. EPA, NIOSH, OSHA and other ASTM methods.

For matrix materials submitted as paint, dust wipe, soil, or TCLP samples, analysis for the presence of total metals is conducted using published U.S. EPA Methods. Paint and soil results are usually expressed in mg/kg, which is equivalent to parts per million (ppm). Lead (Pb) in paint is usually expressed in mg/ft² (ppm). Percent (%) or mg/cm² by area. Dust wipe sample results are usually expressed in mg/ft². TCLP samples are reported in mg/L (ppm). For air filter samples, analyses are conducted using NIOSH and OSHA Methods. Results are expressed in ug/filter and ug/m². Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results are not blank corrected.

For recent regulatory updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more details.

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

Thank you for using our laboratory services. If you need further assistance please feel free to call us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

Nick Ly, Technical Director

Enclosure:
# Analysis Report

**Toxicity Characteristic Leaching Procedure - Lead (Pb)**

**Client:** Strata  
**Address:** 8653 W Hackamore Dr.  
**Boise, ID 83709**

**Attention:** Mr. Zachary St. Jean  
**Project Location:** Missoula, MT

**Batch #: 3106542.00**  
**Matrix:** Bulk  
**Method:** EPA 1311/7000B  
**Client Project #:** Unimon Z11025A  
**Date Received:** 05/09/2011  
**Samples Received:** 2  
**Samples Analyzed:** 2

<table>
<thead>
<tr>
<th>Lab ID</th>
<th>Client Sample #</th>
<th>RL mg/L</th>
<th>Results in mg/L</th>
<th>Results in ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>31034919</td>
<td>TCLP-1</td>
<td>0.5</td>
<td>&lt; 0.5</td>
<td>&lt; 0.5</td>
</tr>
<tr>
<td>31034920</td>
<td>TCLP-2</td>
<td>0.5</td>
<td>&lt; 0.5</td>
<td>&lt; 0.5</td>
</tr>
</tbody>
</table>

---

**Sampled by:** Client  
**Analyzed by:** Yasuyuki Hida  
**Reviewed by:** Nick Ly  
**Date Analyzed:** 05/11/2011  
**Date Issued:** 05/11/2011

---

**mg/ L = Milligrams per liter**  
**ppm = parts per million**  
**RL = Reporting Limit**  
**"<" = Below the reporting Limit**  
**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:** 31-0510-02
**NVL Laboratories, Inc.**

**Chain of Custody**

**Sample Log**

**Batch ID**: 3106542.00

**Client**: STRATA, Inc.

**NVL Batch Number**: UNIMON Z11025A

**Client Job Number**: UNIMON Z11025A

**Total Samples**: 

**Turn Around Time**: 1-Hr

**Project Manager**: Zachary St. Jean

**Phone**: 

**Fax**: 

**Project Location**: Missoula, MT

**Email address**: zstjean@strategotech.com

---

### Metals

<table>
<thead>
<tr>
<th>Seq. #</th>
<th>Lab ID</th>
<th>Client Sample Number Comments (In Sample area, Sample Volume, etc)</th>
<th>AIR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>TCLP - 1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>TCLP - 2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
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<tr>
<td>4</td>
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<td>11</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Sampled by**: Zachary St. Jean

**Relinquished by**: Zachary St. Jean

**Received by**: NNL

**Analyzed by**: NNL

**Results Certified by**: 

**Results Faxed by**: 

**Special Instructions**: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
### Bulk Asbestos Fibers Analysis

**NVL Laboratories, Inc.**

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

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

---

**Client:** Strata  
**Address:** 8653 W Hackamore Dr.  
Boise, ID 83709

**Attention:** Mr. Zachary St. Jean  
**Project Location:** Missoula, MT

---

**Batch #: 3106854.00**  
**Client Project #:** UNIMON Z11025A  
**Date Received:** 05/16/2011  
**Samples Received:** 3  
**Samples Analyzed:** 3  
**Method:** EPA/600R-93/116

---

#### Lab ID: 31037593  
**Client Sample #:** TI-1  
**Location:** Missoula, MT

**Layer 1 of 1**  
**Description:** Off-white compressed powdery material  
- Non-Fibrous Materials:  
- Other Fibrous Materials: %  
  - None Detected  
  - ND

**Asbestos Type:** %  
- Chrysotile 7%  
- Amosite 30%

---

#### Lab ID: 31037594  
**Client Sample #:** TI-2  
**Location:** Missoula, MT

**Layer 1 of 1**  
**Description:** Off-white compressed powdery material  
- Non-Fibrous Materials:  
- Other Fibrous Materials: %  
  - None Detected  
  - ND

**Asbestos Type:** %  
- Chrysotile 6%  
- Amosite 27%

---

#### Lab ID: 31037595  
**Client Sample #:** TI-3  
**Location:** Missoula, MT

**Layer 1 of 1**  
**Description:** Off-white compressed powdery material  
- Non-Fibrous Materials:  
- Other Fibrous Materials: %  
  - None Detected  
  - ND

**Asbestos Type:** %  
- Chrysotile 5%  
- Amosite 32%

---

**Sampled by:** Client  
**Analyzed by:** Nadezhda Prsyazhnyuk  
**Date:** 05/16/2011

---

**Note:** If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-80%). 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. Pager: 206.344.1578
Fax: 206.634.1936     1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY
SAMPLE LOG

NVL Batch Number
Client Job Number
Total Samples
Turn Around Time
☐ 1-Hr  ☐ 24-Hrs  ☐ 4 Days
☐ 2-Hrs  ☐ 2 Days  ☐ 6 Days
☐ 4-Hrs  ☐ 3 Days  ☐ 6 to 10 Days

Please call for TAT less than 24 Hrs
Email address: zstjean@stratageotech.com

☐ Asbestos Air  ☐ PCM (NIOSH 7400)  ☐ TEM (NIOSH 7402)  ☐ TEM (AHRA)  ☐ TEM (EPA level II)  ☐ Other
☐ Asbestos Bulk  ☐ PLM (EPA600/R-93/116)  ☐ PLM (EPA Point Count)  ☐ PLM (EPA Geotechny)  ☐ TEM Bulk
☐ Mold/Fungus  ☐ Mold Air  ☐ Mold Bulk  ☐ Rotometer Calibration
☐ Other Metals
☐ Total Metals  ☐ TCLP
☐ Other Types of Analysis
☐ Fiberglass  ☐ Nuisance Dust  ☐ Other (Specify)
☐ Silica  ☐ Respirable Dust

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

Seq. #  Lab ID  Client Sample Number  Comments (can Sample area, Sample Volume, etc)  A/R
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  

Print Below  Sign Below  Company  Date  Time
Sampled by: Zachary St. Jean  STRATA, Inc.  05/06/11  10:30
Relinquished by: Zachary St. Jean  STRATA, Inc.  05/06/11  10:30
Received by: Miodri Yake  Mio  05/16/11  04:50
Analyzed by:  
Results Called by:  
Results Faxed by: 

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Abatement Contractors of Montana
PO Box 8747
Missoula, Mt 59807

Phone 1-406-549-8489
Fax 1-406-728-9416

Web Address www.montanaabatement.com
Email abatemt@msn.com

Fax Transmittal Form

To: Brad Evanger
Project Manager/Architectural Technician
Re: EDU re-insulation
UOFM Planning and Construction
Phone: 1-406-243-4180
Fax: 1-406-243-6612

From: Mike Foust, ACM
Date Sent: 6-8-2011
Number of Pages: 3

Message: Brad, Thank you for this opportunity for the bid at McGill building.
Thank you, Mike Foust, ACM
July 19, 2011

Mr. Brad Evanger  
Architect Technician  
University of Montana  
Physical Plant Building 32  
32 Campus Drive  
Missoula, MT 59812

RE: Letter Report  
Asbestos Air Clearance  
McGill Hall – Room 006  
University of Montana  
Missoula, Montana  
Northern Project Number 412-076

1.0 INTRODUCTION

This report presents the results of clearance testing performed by Northern Industrial Hygiene, Inc. (Northern) on June 7, 2011. The scope of our services included conducting a final clearance visual inspection and collecting and analyzing clearance air samples using Phase Contrast Microscopy (PCM). Northern performed a final visual inspection of the containment located in Room 006 of McGill Hall on the campus of the University of Montana in Missoula, MT to insure that the asbestos-containing materials had been successfully removed and that the work area (containment) was free of visible asbestos-containing materials (ACM) or other debris. The final visual inspection was acceptable by Northern’s on site technician and did not reveal any issues with regards to the asbestos containing 9" x 9" floor tile and associated black mastic. Upon completion of the visual inspection Northern then collected five (5) PCM air samples and two (2) PCM field blanks. Northern was not on-site for break down of the containment after the PCM clearance air samples passed and this report only addresses issues at the time of clearance air sampling.

Rising Lightning Environmental Contractors was contracted to perform the abatement of asbestos-containing 9" x 9" floor tile and associated black mastic. ACM was represented on site by Mr. Charles Walking Child. Mr. Gregory W. Berthelot, CMC (MTA-3347) conducted the final clearance visual inspection and air sampling for Northern.

2.0 METHODOLOGY

Samples were analyzed for airborne fibers by PCM per NIOSH Method 7400A using a positive phase-contrast microscope equipped with a Walton-Beckett graticule (Type G-22 for ‘A counting rules’).

A quarter-wedge was cut from each sample filter and was examined at a magnification of 400x. Fibers equal to or greater than 5 microns in length with a length-to-width (aspect) ratio equal to or
greater than 3:1 were counted. Total fiber counts for each sample filter were divided by their respective sample volumes. The resulting concentrations were expressed in terms of total fibers per cubic centimeter of air (f/cc). Results are presented on the attached Air Sample Logs.

PCM samples were collected by drawing air at a rate of 12.20 liters per minute (LPM) through 25mm mixed cellulose ester membrane (Millipore 0.8 MCEF) filters, which were housed in three-piece cassettes, equipped with 50mm electrically-conductive extension cowls. Samples were collected with variable volume pumps. Flow rates were established and checked with a calibrated flow meter at the start of air sampling and at the completion.

Field blank samples were analyzed to detect any potential contamination, which may have resulted from the filter media or in sample handling and transport.

3.0 RESULTS

Northern collected a total of five (5) PCM clearance air samples plus two field blanks. Each PCM cassette ran until a minimum of 1,200 liters of air was collected. Analysis determined that all samples were below the EPA and State of Montana recommended clearance level of 0.01 f/cc.

4.0 CONCLUSIONS

In the opinion of Northern:

- The abatement of asbestos containing materials was satisfactorily completed as per project specifications.
- Aggressive procedures were used for final air clearance and the samples collected in the enclosures did not exceed 0.01 f/cc.

It was a pleasure to assist you with this project. Please call if you have any questions on our report, or if you need any additional assistance.

Respectfully submitted,
NORTHERN INDUSTRIAL HYGIENE, INC.

[Signature]

Gregory W. Berthelot, CMC
Environmental Scientist

Attachments: Daily Project Log
Final Clearance Visual Inspection Form
Air Sample Log
Contractor/Supervisor Credentials
Invoice
### NORTHERN INDUSTRIAL HYGIENE, INC.
#### TECHNICIAN DAILY PROJECT LOG

<table>
<thead>
<tr>
<th>CLIENT NAME</th>
<th>CONTRACTOR</th>
<th>NIH PROJECT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Montana Physical Plant Bldg 32 32 Campus Drive Missoula, MT 59812</td>
<td>Rising Lightning Environmental Contractors</td>
<td>412-076</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROJECT LOCATION</th>
<th>CONTRACTORS FOREMAN</th>
<th>PROJECT DAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>McGill Hall</td>
<td>Charles Walking Child</td>
<td>Tuesday</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WORK AREAS</th>
<th>NO. OF CONTRACTOR WORKERS</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room 006</td>
<td>1</td>
<td>6/7/11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TECHNICIAN’S INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARRIVE ON SITE: 2000 Hrs</td>
</tr>
<tr>
<td>ARRIVE ON SITE:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AIR QUALITY SAMPLING</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>INSIDE CONTAINMENT</em></td>
</tr>
<tr>
<td><em>OUTSIDE CONTAINMENT</em></td>
</tr>
<tr>
<td><em>5 CLEARANCE</em></td>
</tr>
</tbody>
</table>

### DAILY DIARY OF ACTIVITIES

**TIME OF DAY**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000 Hrs</td>
<td>Northern contractor/supervisor arrives on site and unloads equipment. The abatement contractor is on site with one (1) worker.</td>
</tr>
<tr>
<td>2008 Hrs</td>
<td>Northern’s Contractor/Supervisor dons personal protective equipment (PPE) to enter the containment to inspect the removal of asbestos (half face respirator and tyvek type suit). The abatement contractor is Rising Lightning Environmental Contractors. They have removed asbestos containing 9” x 9” floor tile and associated black mastic from Room 006 of McGill Hall on the Campus of the University of Montana in Missoula, Montana. They have removed approximately 171 square feet of floor tile and mastic from the wood stage. Rising Lightning Environmental cut the wood into smaller sections and removed the floor tile and mastic while it was attached to the plywood and doubled wrapped the sections in 6-mil poly sheathing. In addition, approximately 57 square feet of black mastic was removed from the section of flooring between the west wall and stage. The area is visually clean and no debris was observed in the containment. The area has been encapsulated and was dry to the touch. One (1) negative air unit (2000 cfm) was located in the southeast corner and was operating at the time of sampling. It had flex ducting exhausted through the decontamination unit to the outdoors. Northern did not observe a manometer on site; however, the poly flaps for the decontamination unit was being drawn inward towards the work area. Critical barriers remained in place for the clearance air sampling. A three (3) stage personnel decontamination unit with a shower was attached on the north end.</td>
</tr>
<tr>
<td>2030 Hrs</td>
<td>Visual passes final inspection.</td>
</tr>
<tr>
<td>2033 Hrs</td>
<td>Northern uses a high speed leaf blower to sweep an air stream across all surfaces of the containment for a time adequate to disturb the air in all areas of the containment. Box fans are then set up in the containment to ensure the air is continually agitated during the collection of final clearance air samples.</td>
</tr>
<tr>
<td>2042 Hrs</td>
<td>Immediately after agitating the air in the containment Northern sets five (5) PCM final clearance air samples. Each pump is pre-calibrated to 12.20 liters per minute. The cassettes are placed approximately three (3) to four (4) feet above the floor at a 45 degree angle down.</td>
</tr>
<tr>
<td>2054 Hrs</td>
<td>Northern contractor/supervisor decontaminates and leaves the containment while the air samples collect at least 1,200 liters of air volume. Northern remains on site to ensure that the pumps continue to run uninterrupted and that there are no power failures or equipment failures.</td>
</tr>
<tr>
<td>TIME OF DAY</td>
<td>ACTIVITY</td>
</tr>
<tr>
<td>-------------</td>
<td>----------</td>
</tr>
<tr>
<td>2223 Hrs</td>
<td>Northern dons PPE and re-enters the containment to collect clearance air samples and perform post calibrations. Post calibration readings were 12.20 fibers per minute.</td>
</tr>
<tr>
<td>2248 Hrs</td>
<td>Northern contractor/supervisor decontaminates air sampling equipment and moves it through the decontamination unit to the clean room and the Northern hygienist decontaminates and leaves the containment.</td>
</tr>
<tr>
<td>2250 Hrs</td>
<td>Northern loads equipment into vehicle and returns to the office to prep and analyze samples.</td>
</tr>
<tr>
<td>2310 Hrs</td>
<td>Arrive at Northern’s office at 913 SW Higgins Avenue, Suite 202, Missoula, MT.</td>
</tr>
<tr>
<td>6/8/11 0015 Hrs</td>
<td>The results for each of the five asbestos air clearance samples are less than 0.01 fibers per cubic centimeter (fcc). I inform the contractor that the samples passed.</td>
</tr>
</tbody>
</table>
**FINAL CLEARANCE VISUAL INSPECTION FORM**

AS PER SECTION 6.0 OF THE STATE OF MONTANA
ASBESTOS ABATEMENT WORK PRACTICES AND PROCEDURES

<table>
<thead>
<tr>
<th>PROJECT NAME:</th>
<th>Asbestos Abatement</th>
<th>DATE: 06/07/11</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUILDING NAME:</td>
<td>McGill Hall</td>
<td>TIME: 2000 Hrs</td>
</tr>
<tr>
<td>BUILDING ADDRESS:</td>
<td>University of Montana, Missla, MT</td>
<td>PROJECT NO.: 412-076</td>
</tr>
<tr>
<td>WORK AREA:</td>
<td>Room 006</td>
<td>PERMIT NO.: U of M Yearly</td>
</tr>
</tbody>
</table>

**Containment Set Up Checklist**

- HEPA Equipment Operational: YES [X] NO
- Critical Barriers in Place: YES [X] NO
- Decontamination Unit in Place: YES [X] NO
- All Surfaces Dry: YES [X] NO

**Visual Inspection Checklist**

- Is ACM, Dust and Debris Removed From the Work Area: YES [X] NO
- From The Decontamination Unit: YES [X] NO

**Results of Visual Inspection**

- PASS [X] FAIL

**Clearance Air Test Information**

- Aggressive Method Employed: YES [X] NO
- Number of Samples Collected: PCM 7 TEM
- Air Test Results: PASS [X] FAIL

**ADDITIONAL REMARKS:**

5 Clearance samples inside containment, 2 field blanks

All PCM air clearance samples <0.01 f/cc

**CONTACTOR/SUPERVISOR:** Charles Walking Child  
**CONT./SUPER.:** Gregory W. Berthelot  
**ABATEMENT COMPANY:** Rising Lightning Environmental  
**IH/CONSULTANT COMPANY:** Northern Industrial Hygiene, Inc.  
**HOME OFFICE:** Helena, MT  
**HOME OFFICE:** Missoula, MT
<table>
<thead>
<tr>
<th>Number</th>
<th>Lab¹</th>
<th>Location</th>
<th>Type²</th>
<th>Pump #</th>
<th>Start Time</th>
<th>Flow L/M</th>
<th>Stop Time</th>
<th>Flow L/M</th>
<th>Total Min</th>
<th>Avg. Flow</th>
<th>Total Vol. L</th>
<th>Lab Results³</th>
<th>QC Results</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>P</td>
<td>Northeast Corner</td>
<td>C</td>
<td>719</td>
<td>20:42</td>
<td>12.20</td>
<td>22:33</td>
<td>12.20</td>
<td>111</td>
<td>12.20</td>
<td>1,354</td>
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<tr>
<td>2</td>
<td>P</td>
<td>Northwest Corner</td>
<td>C</td>
<td>720</td>
<td>20:43</td>
<td>12.20</td>
<td>22:35</td>
<td>12.20</td>
<td>112</td>
<td>12.20</td>
<td>1,366</td>
<td>0.0029</td>
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<tr>
<td>3</td>
<td>P</td>
<td>Center</td>
<td>C</td>
<td>62</td>
<td>20:43</td>
<td>12.20</td>
<td>22:36</td>
<td>12.20</td>
<td>113</td>
<td>12.20</td>
<td>1,379</td>
<td>0.0032</td>
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</tr>
<tr>
<td>4</td>
<td>P</td>
<td>Southeast Corner</td>
<td>C</td>
<td>48</td>
<td>20:45</td>
<td>12.20</td>
<td>22:38</td>
<td>12.20</td>
<td>113</td>
<td>12.20</td>
<td>1,379</td>
<td>0.0025</td>
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</tr>
<tr>
<td>5</td>
<td>P</td>
<td>Southwest Corner</td>
<td>C</td>
<td>9</td>
<td>20:45</td>
<td>12.20</td>
<td>22:40</td>
<td>12.20</td>
<td>115</td>
<td>12.20</td>
<td>1,403</td>
<td>0.0031</td>
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<tr>
<td>6</td>
<td>P</td>
<td>Field Blank</td>
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<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>0.0 fibers / 100 fields</td>
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</tr>
<tr>
<td>7</td>
<td>P</td>
<td>Field Blank</td>
<td>FB</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>0.0 fibers / 100 fields</td>
<td></td>
</tr>
</tbody>
</table>

¹ Lab Types:  
P = PCM  
A = Area  
T = TEM  
C = Clearance  
B = Background  
² Sample Types:  
P = Personal  
X = Excursion  
IC = Inside Contain.  
OC = Outside Contain.  
³ Laboratory Results:  
f/cc = fibers per cubic centimeter (PCM)  
f/mm² = fibers per square millimeter (TEM⁴)  
⁴ TEM Methodology: NIOSH 7402

Northern Industrial Hygiene, Inc.  
BILLINGS, HELENA, MISSOULA SEATTLE, WASHINGTON  
PCM Analyzed by: Greg Berthelot  
Q.C. by:  
TEM Analyzed by:
GREGORY W. BERTHELOT

has met the requirements of Montana Administrative Rule 17.74.362
and/or 17.74.363 for accreditation in the following asbestos-type
occupation(s) as indicated by an expiration date(s).

MTA-3347

CS  MP  PD  IN

WK

MT DEQ Asbestos Control Program
September 6, 2011

Mr. Brad Evanger
Architect Technician
University of Montana
Physical Plant Building 32
32 Campus Drive
Missoula, MT 59812

RE: Letter Report
Asbestos Air Clearance and Lead Surface Clearance
McGill Hall – Lower Level Northwest Section Window Project
University of Montana
Missoula, Montana
Northern Project Number 412-081

1.0 INTRODUCTION

This report presents the results of asbestos air clearance testing performed by Northern Industrial Hygiene, Inc. (Northern) on July 27, 2011 and August 1, 2011. The scope of our services included conducting a final clearance visual inspection and collecting and analyzing clearance air samples using Phase Contrast Microscopy (PCM). Northern performed a final visual inspection of the containments located in the lower level northwest section of McGill Hall on the campus of the University of Montana in Missoula, MT to insure that the asbestos-containing materials had been successfully removed and that the work areas (containments) were free of visible asbestos-containing materials (ACM) or other debris. The final visual inspection was acceptable by Northern's on site technician and did not reveal any issues with regards to the asbestos containing window glazing. Upon completion of the visual inspection Northern then collected five (5) PCM air samples and two (2) PCM field blanks from each of the three (3) containments. Northern was not on-site for break down of the containments after the PCM clearance air samples passed and this report only addresses issues at the time of clearance air sampling.

Abatement Contractors of Montana (ACM) was contracted to perform the abatement of asbestos-containing window glazing. ACM was represented on site by Mr. John Foust. Mr. Gregory W. Berthelot, CMC (MTA-3347) conducted the final clearance visual inspection and air sampling for Northern.

In addition to the asbestos clearance sampling, Northern conducted post remediation lead testing for the North and Northwest Containments. Northern collected one sample from the interior floor poly of the North and Northwest Containments.

2.0 METHODOLOGY

Asbestos samples were analyzed for airborne fibers by PCM per NIOSH Method 7400A using a positive phase-contrast microscope equipped with a Walton-Beckett graticule (Type G-22 for 'A
counting rules). A quarter-wedge was cut from each sample filter and was examined at a magnification of 400x.
Fibers equal to or greater than 5 microns in length with a length-to-width (aspect) ratio equal to or
greater than 3:1 were counted. Total fiber counts for each sample filter were divided by their
respective sample volumes. The resulting concentrations were expressed in terms of total fibers
per cubic centimeter of air (f/cc). Results are presented on the attached Air Sample Logs.

PCM samples were collected by drawing air at a rate of 11.21 to 12.89 liters per minute (LPM)
through 25mm mixed cellulose ester membrane (Millipore 0.8 MCEF) filters, which were housed in
three-piece cassettes, equipped with 50mm electrically-conductive extension cowl. Samples were
collected with variable volume pumps. Flow rates were established and checked with a calibrated
flow meter at the start of air sampling and at the completion.

Field blank samples were analyzed to detect any potential contamination, which may have resulted
from the filter media or in sample handling and transport.

Lead samples are collected by wiping a one square foot area from the surfaces in question using
a Ghost Wipe. Samples are analyzed using EPA method 7000B. The reporting limit for lead on
dust wipes is 9.5 ug/square foot.

3.0 RESULTS

Northern collected a total of five (5) PCM clearance air samples plus two field blanks from each of
the three (3) containments. Each PCM cassette ran until a minimum of 1,200 liters of air was
collected. Analysis determined that all samples were below the EPA and State of Montana
recommended clearance level of 0.01 f/cc.

The following Table summarizes the lead sampling event and includes information on sample
number, sample location, date of collection, surface samples and analytical result.

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Location</th>
<th>Date Collected</th>
<th>Component</th>
<th>Lead µg/sq. ft.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LW1</td>
<td>North Containment Interior Floor Poly</td>
<td>7/27/11</td>
<td>Floor Poly</td>
<td>&lt;9.5</td>
<td>Passed HUD Clearance Level of 40 µg/sq. ft. for Floor Surface Areas</td>
</tr>
<tr>
<td></td>
<td>beneath Window Openings South Side of</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LW2</td>
<td>Northwest Containment Interior Floor Poly</td>
<td>7/27/11</td>
<td>Floor Poly</td>
<td>&lt;9.5</td>
<td>Passed HUD Clearance Level of 40 µg/sq. ft. for Floor Surface Areas</td>
</tr>
<tr>
<td></td>
<td>beneath Window Openings East Side of</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Northern Industrial Hygiene, Inc.
The HUD clearance levels for lead base paint surface or wipe samples were used as clearance criteria for all samples. These levels are as follows: 40 μg/ft² for floors, 250 μg/ft² for window sills and 400 μg/ft² for window troughs, exterior concrete or other rough surfaces. The results of the wipe samples after the cleaning activities were acceptable and the area was cleared to be reoccupied.

4.0 CONCLUSIONS

In the opinion of Northern:

- The abatement of asbestos containing materials was satisfactorily completed as per project specifications.
- The abatement of lead based paint on the window units was satisfactorily completed as per project specifications.
- Aggressive procedures were used for final asbestos air clearance and the samples collected in the enclosures did not exceed 0.01 f/cc.
- The results of the lead clearance samples collected in the enclosures were below the HUD Clearance Level of 40 μg/ft² for floors.

It was a pleasure to assist you with this project. Please call if you have any questions on our report, or if you need any additional assistance.

Respectfully submitted,
NORTHERN INDUSTRIAL HYGIENE, INC.

[Signature]

Gregory W. Berthelot, CMC
Environmental Scientist

Attachments: Daily Project Log
Final Clearance Visual Inspection Form
Air Sample Log
NVL Laboratory Report
Contractor/Supervisor Credentials
Invoice
NORTHERN INDUSTRIAL HYGIENE, INC.
TECHNICIAN DAILY PROJECT LOG

<table>
<thead>
<tr>
<th>CLIENT NAME</th>
<th>CONTRACTOR</th>
<th>NIH PROJECT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Montana</td>
<td>Abatement Contractors of Montana</td>
<td>412-081</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROJECT LOCATION</th>
<th>CONTRACTORS FOREMAN</th>
<th>PROJECT DAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>McGill Hall, University of Montana, Missoula, MT</td>
<td>John Foust</td>
<td>Wednesday</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WORK AREAS</th>
<th>NO. OF CONTRACTOR WORKERS</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Level North Side Windows in Northwest Section</td>
<td>2</td>
<td>7/27/11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TECHNICIAN'S INFORMATION</th>
<th>AIR QUALITY SAMPLING</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECHNICIAN 1: Gregory W. Berthelot</td>
<td>BACKGROUND</td>
</tr>
<tr>
<td>TECHNICIAN 2:</td>
<td>INSIDE CONTAINMENT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TIME OF DAY</th>
<th>DAILY DIARY OF ACTIVITIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1030 Hrs</td>
<td>Northern contractor/supervisor arrives on site and unloads equipment. The abatement contractor is on site with (2) workers.</td>
</tr>
<tr>
<td>1033 Hrs</td>
<td>Northern’s Contractor/Supervisor dons personal protective equipment (PPE) to enter the containment to inspect the removal of asbestos (half face respirator and tyvek type suit). The abatement contractor is Abatement Contractors of Montana (ACM). They have removed 6 windows from the lower level north side that contains asbestos glazing and lead paint of McGill Hall on the Campus of the University of Montana in Missoula, Montana. ACM removed the entire window system. They have constructed a 6 mil poly tent around the window units with the northern section on the exterior side of the building and southern wall on the interior south of the windows. The window units were doubled wrapped in 6-mil poly sheeting. The area is visually clean and no debris was observed in the containment. The area has been encapsulated and was dry to the touch. One (1) negative air unit (500 cfm) was located indoors on the south side of the containment and was operating at the time of sampling. It had flex ducting exhausted through the west windows of the northwest section of the lower level to the outdoors. Northern did not observe a manometer on site; however, the poly flaps for the decontamination unit and the poly for the walls were being drawn inward towards the work area. Critical barriers remained in place for the clearance air sampling. A three (3) stage personnel decontamination unit with a shower was attached on the northwest corner. There was construction going on adjacent to the work area which was creating a lot of dust from sanding of gypsum board.</td>
</tr>
<tr>
<td>1045 Hrs</td>
<td>Visual passes final inspection.</td>
</tr>
<tr>
<td>1048 Hrs</td>
<td>Northern uses a high speed leaf blower to sweep an air stream across all surfaces of the containment for a time adequate to disturb the air in all areas of the containment. Box fans are then set up in the containment to ensure the air is continually agitated during the collection of final clearance air samples.</td>
</tr>
<tr>
<td>1055 Hrs</td>
<td>Immediately after agitating the air in the containment Northern sets five (5) PCM final clearance air samples. Each pump is pre-calibrated to 11.21 liters per minute. The cassettes are placed approximately three (3) to four (4) feet above the floor at a 45 degree angle down. I collect one lead wipe sample from the floor on the interior or south side of the containment.</td>
</tr>
<tr>
<td>1110 Hrs</td>
<td>Northern contractor/supervisor decontaminates and leaves the containment while the air samples collect at least 1,200 liters of air volume. Northern remains on site to ensure that the pumps continue to run uninterrupted and that there are no power failures or equipment failures.</td>
</tr>
</tbody>
</table>
# TECHNICIAN DAILY PROJECT LOG

<table>
<thead>
<tr>
<th>CLIENT NAME</th>
<th>CONTRACTOR</th>
<th>NIH PROJECT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Montana</td>
<td>Abatement Contractors of Montana</td>
<td>412-081</td>
</tr>
<tr>
<td>Physical Plant Bldg 32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32 Campus Drive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Missoula, MT 59812</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROJECT LOCATION</th>
<th>CONTRACTORS FOREMAN</th>
<th>PROJECT DAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>McGill Hall</td>
<td>John Foust</td>
<td>Wednesday</td>
</tr>
<tr>
<td>University of Montana</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Missoula, MT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WORK AREAS</th>
<th>NO. OF CONTRACTOR WORKERS</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Level North Side Windows in</td>
<td>2</td>
<td>7/27/11</td>
</tr>
<tr>
<td>Northwest Section</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## DAILY DIARY OF ACTIVITIES

<table>
<thead>
<tr>
<th>TIME OF DAY</th>
<th>ACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1240 Hrs</td>
<td>Northern dons PPE and re-enters the containment to collect clearance air</td>
</tr>
<tr>
<td></td>
<td>samples and perform post calibrations. Post calibration readings were</td>
</tr>
<tr>
<td></td>
<td>11.21 liters per minute.</td>
</tr>
<tr>
<td>1311 Hrs</td>
<td>Northern contractor/supervisor decontaminates air sampling equipment</td>
</tr>
<tr>
<td></td>
<td>and moves it through the decontamination unit to the clean room and the</td>
</tr>
<tr>
<td></td>
<td>Northern hygienist decontaminates and leaves the containment.</td>
</tr>
<tr>
<td>1313 Hrs</td>
<td>Northern loads equipment into vehicle and returns to the office to prep</td>
</tr>
<tr>
<td></td>
<td>and analyze samples.</td>
</tr>
<tr>
<td>1330 Hrs</td>
<td>Arrive at Northern's office at 913 SW Higgins Avenue, Suite 202, Missoula, MT.</td>
</tr>
<tr>
<td>1442 Hrs</td>
<td>The results for each of the five asbestos air clearance samples are</td>
</tr>
<tr>
<td></td>
<td>less than 0.01 fibers per cubic centimeter (f/cc). I inform the contractor</td>
</tr>
<tr>
<td></td>
<td>that the samples passed.</td>
</tr>
</tbody>
</table>
# Daily Diary of Activities

<table>
<thead>
<tr>
<th>TIME OF DAY</th>
<th>Activity Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1520 Hrs</td>
<td>Northern contractor/supervisor arrives on site and unloads equipment. The abatement contractor is not on site.</td>
</tr>
<tr>
<td>1523 Hrs</td>
<td>Northern’s Contractor/Supervisor dons personal protective equipment (PPE) to enter the containment to inspect the removal of asbestos (half face respirator and tyvek type suit). Abatement contractor is Abatement Contractors of Montana (ACM). They have removed 6 windows from the lower level in the northwest section. This containment is for the 6 windows referred to as the NW set. The work took place in McGill Hall on the Campus of the University of Montana in Missoula, Montana. ACM removed the entire window system. They have constructed a 6 mil poly tent around the window units with the western section on the exterior side of the building and eastern wall on the interior east of the windows. The window units were doubled wrapped in 6-mil poly sheathing. The area is visually clean and no debris was observed in the containment. The area has been encapsulated and was dry to the touch. One (1) negative air unit (500 cfm) was located indoors in the southeast corner of the containment and was operating at the time of sampling. It had flex ducting exhausted through the southwest windows of the northwest section of the lower level to the outdoors. Northern did not observe a manometer on site; however, the poly flaps for the decontamination unit and the poly for the walls were being drawn inward towards the work area. Critical barriers remained in place for the clearance air sampling. A thre (3) stage personnel decontamination unit with a shower was attached on the northwest corner. There was construction going on adjacent to the work area which was creating a lot of dust from sanding of gypsum board.</td>
</tr>
<tr>
<td>1535 Hrs</td>
<td>Visual passes final inspection.</td>
</tr>
<tr>
<td>1536 Hrs</td>
<td>Northern uses a high speed leaf blower to sweep an air stream across all surfaces of the containment for a time adequate to disturb the airm in all areas of the containment. Box fans are then set up in the containment to ensure the air is continually agitated during the collection of final clearance air samples.</td>
</tr>
<tr>
<td>1542 Hrs</td>
<td>Immediately after agitating the air in the containment Northern sets five (5) PCM final clearance air samples. Each pump is pre-calibrated to 11.21 liters per minute. The cassettes are placed approximately three (3) to four (4) feet above the floor at a 45 degree angle down. I collect one lead wipe sample from the floor on the interior or south side of the containment.</td>
</tr>
<tr>
<td>1555 Hrs</td>
<td>Northern contractor/supervisor decontaminates and leaves the containment while the air samples collect at least 1,200 liters of air volume. Northern remains on site to ensure that the pumps continue to run uninterrupted and that there are no power failures or equipment failures.</td>
</tr>
</tbody>
</table>
### DAILY DIARY OF ACTIVITIES

<table>
<thead>
<tr>
<th>TIME OF DAY</th>
<th>ACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1735 Hrs</td>
<td>Northern dons PPE and re-enters the containment to collect clearance air samples and perform post calibrations. Post calibration readings were 11.21 liters per minute.</td>
</tr>
<tr>
<td>1800 Hrs</td>
<td>Northern contractor/supervisor decontaminates air sampling equipment and moves it through the decontamination unit to the clean room and the Northern hygienist decontaminates and leaves the containment.</td>
</tr>
<tr>
<td>1803 Hrs</td>
<td>Northern loads equipment into vehicle and returns to the office to prep and analyze samples.</td>
</tr>
<tr>
<td>1823 Hrs</td>
<td>Arrive at Northern’s office at 913 SW Higgins Avenue, Suite 202, Missoula, MT.</td>
</tr>
<tr>
<td>1930 Hrs</td>
<td>The results for each of the five asbestos air clearance samples are less than 0.01 fibers per cubic centimeter (f/cc). I inform the contractor that the samples passed.</td>
</tr>
</tbody>
</table>
## NORTHERN INDUSTRIAL HYGIENE, INC.
### TECHNICIAN DAILY PROJECT LOG

<table>
<thead>
<tr>
<th>CLIENT NAME</th>
<th>CONTRACTOR</th>
<th>NIH PROJECT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Montana Physical Plant Bldg 32 32 Campus Drive Missoula, MT 59812</td>
<td>Abatement Contractors of Montana</td>
<td>412-081</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROJECT LOCATION</th>
<th>CONTRACTORS FOREMAN</th>
<th>PROJECT DAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>McGill Hall University of Montana Missoula, MT</td>
<td>John Foust</td>
<td>Monday</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WORK AREAS</th>
<th>NO. OF CONTRACTOR WORKERS</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Level SW Windows in Northwest Section</td>
<td>0</td>
<td>8/1/11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TECHNICIAN'S INFORMATION</th>
<th>AIR QUALITY SAMPLING</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECHNICIAN 1: Gregory W. Berthelot</td>
<td>BACKGROUND</td>
</tr>
<tr>
<td>TECHNICIAN 2:</td>
<td>PERSONAL</td>
</tr>
<tr>
<td></td>
<td>EXCURSION</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ARRIVE ON SITE:</th>
<th>LEAVE SITE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1430 Hrs</td>
<td>1605 hrs</td>
</tr>
</tbody>
</table>

### DAILY DIARY OF ACTIVITIES

**TIME OF DAY**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1430 Hrs</td>
<td>Northern contractor/supervisor arrives on site and unloads equipment. The abatement contractor is not on site.</td>
</tr>
<tr>
<td>1405 Hrs</td>
<td>Northern’s Contractor/Supervisor dons personal protective equipment (PPE) to enter the containment to inspect the removal of asbestos (half face respirator and tyvek type suit). The abatement contractor is Abatement Contractors of Montana (ACM). They have removed 3 windows from the lower level in the northwest section. This containment is for the 3 windows referred to as the SW set. The work took place in McGill Hall on the Campus of the University of Montana in Missoula, Montana. ACM removed the entire window system. They have constructed a 6 mil poly tent around the window units with the western section on the exterior side of the building and eastern wall on the interior east of the windows. The window units were doubled wrapped in 6-mil poly sheeting. The area is visually clean and no debris was observed in the containment. The area has been encapsulated and was dry to the touch. One (1) negative air unit (500 cfm) was located indoors in the southwest corner of the containment and was operating at the time of sampling. It had flex ducting exhausted through the northwest windows of the northwest section of the lower level to the outdoors. Northern did not observe a manometer on site; however, the poly flaps for the decontamination unit and the poly for the walls were being drawn inward towards the work area. Critical barriers remained in place for the clearance air sampling. A three (3) stage personnel decontamination unit with a shower was attached on the northeast corner.</td>
</tr>
<tr>
<td>1415 Hrs</td>
<td>Visual passes final inspection.</td>
</tr>
<tr>
<td>1416 Hrs</td>
<td>Northern uses a high speed leaf blower to sweep an air stream across all surfaces of the containment for a time adequate to disturb the air in all areas of the containment. Box fans are then set up in the containment to ensure the air is continually agitated during the collection of final clearance air samples.</td>
</tr>
<tr>
<td>1423 Hrs</td>
<td>Immediately after agitating the air in the containment Northern sets five (5) PCM final clearance air samples. Each pump is pre-calibrated to 12.89 liters per minute. The cassettes are placed approximately three (3) to four (4) feet above the floor at a 45 degree angle down.</td>
</tr>
<tr>
<td>1435 Hrs</td>
<td>Northern contractor/supervisor decontaminates and leaves the containment while the air samples collect at least 1,200 liters of air volume. Northern remains on site to ensure that the pumps continue to run uninterrupted and that there are no power failures or equipment failures.</td>
</tr>
</tbody>
</table>
## Northern Industrial Hygiene, Inc.
### Technician Daily Project Log

<table>
<thead>
<tr>
<th><strong>CLIENT NAME</strong></th>
<th><strong>CONTRACTOR</strong></th>
<th><strong>NIH PROJECT NUMBER</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Montana</td>
<td>Abatement Contractors of Montana</td>
<td>412-081</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PROJECT LOCATION</strong></th>
<th><strong>CONTRACTORS FOREMAN</strong></th>
<th><strong>PROJECT DAY</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>McGill Hall</td>
<td>John Foust</td>
<td>Monday</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>WORK AREAS</strong></th>
<th><strong>NO. OF CONTRACTOR WORKERS</strong></th>
<th><strong>DATE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Level SW Windows in Northwest Section</td>
<td>0</td>
<td>8/1/11</td>
</tr>
</tbody>
</table>

### Daily Diary of Activities

**TIME OF DAY**

- **1603 Hrs**: Northern dons PPE and re-enters the containment to collect clearance air samples and perform post calibrations. Post calibration readings were 12.89 liters per minute.

- **1630 Hrs**: Northern contractor/supervisor decontaminates air sampling equipment and moves it through the decontamination unit to the clean room and the Northern hygienist decontaminates and leaves the containment.

- **1605 Hrs**: Northern loads equipment into vehicle and returns to the office to prep and analyze samples.

- **1626 Hrs**: Arrive at Northern's office at 913 SW Higgins Avenue, Suite 202, Missoula, MT.

- **1738 Hrs**: The results for each of the five asbestos air clearance samples are less than 0.01 fibers per cubic centimeter (f/cc). I inform the contractor that the samples passed.
## FINAL CLEARANCE VISUAL INSPECTION FORM

AS PER SECTION 6.0 OF THE STATE OF MONTANA
ASBESTOS ABATEMENT WORK PRACTICES AND PROCEDURES

<table>
<thead>
<tr>
<th>PROJECT NAME:</th>
<th>Asbestos Abatement</th>
<th>DATE: 07/27/11</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUILDING NAME:</td>
<td>McGill Hall</td>
<td>TIME: 1030 Hours</td>
</tr>
<tr>
<td>BUILDING ADDRESS:</td>
<td>University of Montana, Msle, MT</td>
<td>PROJECT NO.: 412-081</td>
</tr>
<tr>
<td>WORK AREA:</td>
<td>Lower Level NW Sec N Windows</td>
<td>PERMIT NO.: U of M Yearly</td>
</tr>
</tbody>
</table>

### Containment Set Up Checklist

<table>
<thead>
<tr>
<th>Item</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEPA Equipment Operational</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Critical Barriers in Place</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Decontamination Unit in Place</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>All Surfaces Dry</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### Visual Inspection Checklist

<table>
<thead>
<tr>
<th>Item</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is ACM, Dust and Debris Removed From the Work Area</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>From The Decontamination Unit</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### Results of Visual Inspection

<table>
<thead>
<tr>
<th>Status</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PASS</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>FAIL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Clearance Air Test Information

<table>
<thead>
<tr>
<th>Item</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggressive Method Employed</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Number of Samples Collected</td>
<td>PCM</td>
<td>TEM</td>
</tr>
<tr>
<td>Air Test Results</td>
<td>PASS</td>
<td>FAIL</td>
</tr>
</tbody>
</table>

### ADDITIONAL REMARKS:

- 5 Clearance samples inside containment, 2 field blanks
- All PCM air clearance samples <0.01 ff/cc

### CONTRACTOR/SUPervisor

- John Foust

### CONT./SUPER. HYGIENIST

- Gregory W. Berthelot

### ABATEMENT COMPANY

- Abatement Contractors of Montana

### IH/CONSULTANT COMPANY

- Northern Industrial Hygiene, Inc.

### HOME OFFICE

- Missoula, MT
# Final Clearance Visual Inspection Form

**Project Name:** Asbestos Abatement  
**Building Name:** McGill Hall  
**Building Address:** University of Montana, Msia, MT  
**Work Area:** Lower Level NW Sec NW Windows  
**Date:** 07/27/11  
**Time:** 1520 Hours  
**Project No.:** 412-081  
**Permit No.:** U of M Yearly

## Containment Set Up Checklist

<table>
<thead>
<tr>
<th>Item</th>
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<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEPA Equipment Operational</td>
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<tr>
<td>Critical Barriers in Place</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Decontamination Unit in Place</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>All Surfaces Dry</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

## Visual Inspection Checklist

<table>
<thead>
<tr>
<th>Item</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is ACM, Dust and Debris Removed From the Work Area</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>From The Decontamination Unit</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

## Results of Visual Inspection

<table>
<thead>
<tr>
<th>PASS</th>
<th>FAIL</th>
</tr>
</thead>
</table>

## Clearance Air Test Information

<table>
<thead>
<tr>
<th>Item</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggressive Method Employed</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Number of Samples Collected</td>
<td>PCM 7</td>
<td>TEM</td>
</tr>
<tr>
<td>Air Test Results</td>
<td>PASS X</td>
<td>FAIL</td>
</tr>
</tbody>
</table>

## Additional Remarks

5 Clearance samples inside containment, 2 field blanks  
All PCM air clearance samples <0.01 f/cc

**Contractor/Super. Supervisor:** John Foust  
**Cont./Super. Hygienist:** Gregory W. Berthelot  
**Abatement Company:** Abatement Contractors of Montana  
**IH/Consultant Company:** Northern Industrial Hygiene, Inc.  
**Home Office:** Missoula, MT
**FINAL CLEARANCE VISUAL INSPECTION FORM**  
AS PER SECTION 6.0 OF THE STATE OF MONTANA  
ASBESTOS ABATEMENT WORK PRACTICES AND PROCEDURES

<table>
<thead>
<tr>
<th>PROJECT NAME:</th>
<th>Asbestos Abatement</th>
<th>DATE:</th>
<th>08/01/11</th>
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<tbody>
<tr>
<td>BUILDING NAME:</td>
<td>McGill Hall</td>
<td>TIME:</td>
<td>1430 Hours</td>
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<tr>
<td>BUILDING ADDRESS:</td>
<td>University of Montana, Missla, MT</td>
<td>PROJECT NO.:</td>
<td>412-081</td>
</tr>
<tr>
<td>WORK AREA:</td>
<td>Lower Level NW Sec SW Windows</td>
<td>PERMIT NO.:</td>
<td>U of M Yearly</td>
</tr>
</tbody>
</table>

### Containment Set Up Checklist

<table>
<thead>
<tr>
<th>Item</th>
<th>YES</th>
<th>X</th>
<th>NO</th>
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</tr>
<tr>
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<td>YES</td>
<td>X</td>
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<tr>
<td>Decontamination Unit in Place</td>
<td>YES</td>
<td>X</td>
<td>NO</td>
</tr>
<tr>
<td>All Surfaces Dry</td>
<td>YES</td>
<td>X</td>
<td>NO</td>
</tr>
</tbody>
</table>

### Visual Inspection Checklist

<table>
<thead>
<tr>
<th>Item</th>
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</thead>
<tbody>
<tr>
<td>Is ACM, Dust and Debris Removed From the Work Area</td>
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<td>X</td>
<td>NO</td>
</tr>
<tr>
<td>From The Decontamination Unit</td>
<td>YES</td>
<td>X</td>
<td>NO</td>
</tr>
</tbody>
</table>

### Results of Visual Inspection

| Results of Visual Inspection | PASS | X | FAIL |

### Clearance Air Test Information

<table>
<thead>
<tr>
<th>Item</th>
<th>YES</th>
<th>X</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggressive Method Employed</td>
<td>YES</td>
<td>X</td>
<td>NO</td>
</tr>
<tr>
<td>Number of Samples Collected</td>
<td>PCM</td>
<td>7</td>
<td>TEM</td>
</tr>
<tr>
<td>Air Test Results</td>
<td>PASS</td>
<td>X</td>
<td>FAIL</td>
</tr>
</tbody>
</table>

### ADDITIONAL REMARKS:

5 Clearance samples inside containment, 2 field blanks  
All PCM air clearance samples <0.01 f/cc

### CONTRACTOR/SUPERVISOR:

John Foust

### CONT./SUPER.

Gregory W. Berthelot

### ABATEMENT COMPANY:

Abatement Contractors of Montana

### IH/CONSULTANT COMPANY:

Northern Industrial Hygiene, Inc.

### HOME OFFICE:

Missoula, MT

### HOME OFFICE:

Missoula, MT
## Air Sample Log

**Project Name:** Asbestos Abatement Univ of Montana  
**Project Number:** 412-081  
**Building:** McGill Hall  
**Location:** Lower Level NW Section N Windows  
**Page Number:** 1  
**Date:** 7/27/2011  
**Hygienist:** Greg Berthelot

<table>
<thead>
<tr>
<th>Number</th>
<th>Lab</th>
<th>Location</th>
<th>Type</th>
<th>Pump #</th>
<th>Start Time</th>
<th>Flow L/M</th>
<th>Stop Time</th>
<th>Flow L/M</th>
<th>Total Min.</th>
<th>Avg. Flow</th>
<th>Total Vol. L</th>
<th>Lab Results</th>
<th>QC Results Date</th>
<th>f/cc</th>
<th>f/mm²</th>
<th>QC Results f/cc</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P</td>
<td>North Side East</td>
<td>C</td>
<td>719</td>
<td>10:55</td>
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<td>720</td>
<td>10:56</td>
<td>11.21</td>
<td>12:49</td>
<td>11.21</td>
<td>113</td>
<td>11.21</td>
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</tr>
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<td>62</td>
<td>10:57</td>
<td>11.21</td>
<td>12:51</td>
<td>11.21</td>
<td>114</td>
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<tr>
<td>4</td>
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<td>C</td>
<td>48</td>
<td>10:57</td>
<td>11.21</td>
<td>12:52</td>
<td>11.21</td>
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<td>11.21</td>
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<td></td>
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<td>South Side East</td>
<td>C</td>
<td>9</td>
<td>10:58</td>
<td>11.21</td>
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<tr>
<td>6</td>
<td>P</td>
<td>Field Blank</td>
<td>FB</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>0.0 fibers / 100 fields</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>P</td>
<td>Field Blank</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>0.0 fibers / 100 fields</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Lab Types:**  
P = Personal  
A = Area  
X = Excursion  
C = Clearance  
B = Background  
LB = Lot Blank  
TB = Trip Blank  
FB = Field Blank  
IC = Inside Contain.  
OC = Outside Contain.

**Laboratory Results:**  
f/cc = fibers per cubic centimeter (PCM)  
f/mm² = fibers per square millimeter (TEM*)

**TEM Methodology:** NIOSH 7402

---

**Northern Industrial Hygiene, Inc.**  
BILLINGS, HELENA, MISSOULA  
SEATTLE, WASHINGTON  

**PCM Analyzed by:** Greg Berthelot  
**Q.C. by:**

**TEM Analyzed by:**

# Air Sample Log

| Project Name: Asbestos Abatement Univ of Montana | Project Number: 412-081 |
| Building: McGill Hall | Location: Lower Level NW Section NW Windows | Page Number: 1 |
| Hygienist: Greg Berthelot | Rotate # | Expiration Date: 7/27/2011 |

## Sample

<table>
<thead>
<tr>
<th>Number</th>
<th>Lab¹</th>
<th>Location</th>
<th>Type²</th>
<th>Pump</th>
<th>Start Time</th>
<th>Flow L/M</th>
<th>Stop Time</th>
<th>Flow L/M</th>
<th>Total Min.</th>
<th>Avg. Flow</th>
<th>Total Vol. L</th>
<th>Lab Results³</th>
<th>QC Results</th>
<th>QC Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P</td>
<td>East Side North</td>
<td>C</td>
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<td>11.21</td>
<td>17:42</td>
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<td>120</td>
<td>11.21</td>
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<tr>
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<td>C</td>
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<td>17:44</td>
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<tr>
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<td>C</td>
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<td>17:43</td>
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<td>120</td>
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<td>1,345</td>
<td>0.0077</td>
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<tr>
<td>5</td>
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<td>719</td>
<td>15:43</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>0.0 fibers / 100 fields</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>P</td>
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<td>FB</td>
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<td>N/A</td>
<td>N/A</td>
<td>0.0 fibers / 100 fields</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹Lab Types:  
P = PCM  
A = Area  
T = TEM  

²Sample Types:  
P = Personal  
X = Excursion  
C = Clearance  
B = Background  
LB = Lot Blank  
TB = Trip Blank  
IC = Inside Contain.  
OC = Outside Contain.  

³Laboratory Results:  
f/cc = fibers per cubic centimeter (PCM)  
f/mm² = fibers per square millimeter (TEM*)  
*TEM Methodology: NIOSH 7402

---

Northern Industrial Hygiene, Inc.  
BILLINGS, HELENA, MISSOULA  
SEATTLE, WASHINGTON  

PCM Analyzed by: Greg Berthelot  
Q.C. by:  

TEM Analyzed by:
## Air Sample Log

**Project Name:** Asbestos Abatement Univ of Montana  
**Project Number:** 412-081  
**Building:** McGill Hall  
**Location:** Lower Level NW Section SW Windows  
**Hygienist:** Greg Berthelot  
**Date:** 8/1/2011  
**Page Number:** 1

<table>
<thead>
<tr>
<th>Number</th>
<th>Lab¹</th>
<th>Location</th>
<th>Type²</th>
<th>Pump #</th>
<th>Start Time</th>
<th>Flow L/M</th>
<th>Stop Time</th>
<th>Flow L/M</th>
<th>Total Min.</th>
<th>Avg. Flow</th>
<th>Total Vol. L</th>
<th>Lab Results³</th>
<th>QC Results Date</th>
<th>QC Results f/cc</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>P</td>
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<td>C</td>
<td>62</td>
<td>14:23</td>
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<td>16:10</td>
<td>12.89</td>
<td>107</td>
<td>12.89</td>
<td>1,379</td>
<td>0.0050</td>
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</tr>
<tr>
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<td>P</td>
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<td>C</td>
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<td>14:24</td>
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<td>107</td>
<td>12.89</td>
<td>1,379</td>
<td>0.0053</td>
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<td></td>
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<td>3</td>
<td>P</td>
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<td>C</td>
<td>4</td>
<td>14:25</td>
<td>12.89</td>
<td>16:12</td>
<td>12.89</td>
<td>107</td>
<td>12.89</td>
<td>1,379</td>
<td>0.0050</td>
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<td></td>
</tr>
<tr>
<td>4</td>
<td>P</td>
<td>East Side Center</td>
<td>C</td>
<td>720</td>
<td>14:25</td>
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<td>P</td>
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<td>C</td>
<td>63</td>
<td>14:26</td>
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<td>108</td>
<td>12.89</td>
<td>1,392</td>
<td>0.0053</td>
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<tr>
<td>6</td>
<td>P</td>
<td>Field Blank</td>
<td>FB</td>
<td>N/A</td>
<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>0.0 fibers / 100 fields</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>P</td>
<td>Field Blank</td>
<td>FB</td>
<td>N/A</td>
<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
<td>0.0 fibers / 100 fields</td>
<td></td>
<td></td>
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</table>

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A = Area  
T = TEM  
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B = Background

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f/cc = fibers per cubic centimeter (PCM)  
f/mm² = fibers per square millimeter (TEM*)

*TEM Methodology: NIOSH 7402

**Northern Industrial Hygiene, Inc.**  
BILLINGS, HELENA, MISSOULA  
SEATTLE, WASHINGTON  

PCM Analyzed by: Greg Berthelot  
Q.C. by:                 

TEM Analyzed by:
July 29, 2011

Greg Berthelot
Northern Industrial Hygiene, Inc
913 SW Higgins Ave. Ste. 202
Missoula, MT 59801

RE: Metals Analysis; NVL Batch # 3110632.00

Dear Mr. Berthelot,

Enclosed please find the test results for samples submitted to our laboratory for analysis. Preparation of these samples was conducted following protocol outlined in EPA Method SW 846-3051 unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with U.S. EPA, NIOSH, OSHA and other ASTM methods.

For matrix materials submitted as paint, dust wipe, soil or TCLP samples, analysis for the presence of total metals is conducted using published U.S. EPA Methods. Paint and soil results are usually expressed in mg/Kg which is equivalent to parts per million (ppm). Lead (Pb) in paint is usually expressed in mg/Kg (ppm). Percent (%) or mg/cm² by area. Dust wipe sample results are usually expressed in ug/wipe and ug/ft². TCLP samples are reported in mg/L (ppm). For air filter samples, analyses are conducted using NIOSH and OSHA Methods. Results are expressed in ug/filter and ug/m³. Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results pertain only to items tested. Lead test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more details.

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

Thank you for using our laboratory services. If you need further assistance please feel free to call us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

Nick Ly, Technical Director

Enclosure:
# Analysis Report

## Total Lead (Pb)

### Batch #: 3110632.00
- **Matrix:** Dust/wipe (Area)
- **Method:** EPA 7000B
- **Client Project #:** 412.081
- **Date Received:** 07/29/2011
- **Samples Received:** 2
- **Samples Analyzed:** 2

### Client Information
- **Name:** Northern Industrial Hygiene, Inc.
- **Address:** 913 SW Higgins Ave, Ste. 202
  Missoula, MT 59801

### Attention
- **Mr. Greg Berthelot**

### Project Location
- **McGill Hall**

### Table: Analysis Results

<table>
<thead>
<tr>
<th>Lab ID</th>
<th>Client Sample #</th>
<th>Element</th>
<th>Sample sq ft</th>
<th>RL ug/sq ft</th>
<th>Results in ug/wipe</th>
<th>Results in ug/sq. ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>31056116</td>
<td>LW1</td>
<td>Lead (Pb)</td>
<td>1.00</td>
<td>9.5</td>
<td>&lt; 9.5</td>
<td>&lt; 9.5</td>
</tr>
<tr>
<td>31056117</td>
<td>LW2</td>
<td>Lead (Pb)</td>
<td>1.00</td>
<td>9.5</td>
<td>&lt; 9.5</td>
<td>&lt; 9.5</td>
</tr>
</tbody>
</table>

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**Sampled by:** Client  
**Analyzed by:** Yasuyuki Hida  
**Reviewed by:** Nick Ly

**Date Analyzed:** 07/29/2011  
**Date Issued:** 07/29/2011

**RL** = Reporting Limit  
**<** = Below the reporting limit

**ug/sq. ft.** = Micrograms per square foot  
**ug/wipe** = Micrograms per wipe

**Note:** Method QC results are acceptable unless stated otherwise. Concentration (ug/ft²) not reported if sample area is zero. Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.
NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100  Emerg.Pager: 206.344.1878
Fax: 206.634.1936  1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY
SAMPLE LOG

Client: Northern Industrial Hygiene
Street: 418 SW Higgins Ave Ste 202
Moscow, ID 59801

NVL Batch Number
Client Job Number 412.081

Total Samples
Turn Around Time: 4 Days
2-4 Days
5 Days
412.081

Please call for TAT less than 24 Hrs

Email address: gberthelst@berkeley.com

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Client: Northern Industrial Hygiene
Street: 418 SW Higgins Ave Ste 202
Moscow, ID 59801

NVL Batch Number
Client Job Number 412.081

Total Samples
Turn Around Time: 4 Days
2-4 Days
5 Days
412.081

Please call for TAT less than 24 Hrs

Email address: gberthelst@berkeley.com

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Phone: 416-370-8130 Fax: 416-592-7523

Asbestos Air | PCM (NIOSH 7400) | TEM (NIOSH 7402) | TEM (AHERA) | TEM (EPA Level II) | Other
Asbestos Bulk | PLM (EPA/300/R-93/116) | PLM (EPA Point Count) | PLM (EPA Gravimetry) | TEM Bulk
Mold/Fungi | Mold Air | Mold Bulk | Rotometer Calibration

METALS

Inst./Det Limit Matrix
Total Metals | TCLP | FAAR (ppm) | Air Filter | Paint Chips in cm
TCCLP | ICP (ppm) | Drinking water | Waste Water

Other Types of Analysis

Fiberglass | Silica | Other (Specify)
Respirable Dust

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

Seq. #  Lab ID  Client Sample Number  Comments (e.g. Sample area, Sample Volume, etc)
1  1261  LW1/North Containment Floor 1st
2  1262  LW2/West Containment Floor 1st
3  1263

Print Below: Greg Berthelst
Sign Below: Jay Brink
Company: NIH
Date: 7-27-04  1908 hrs
Time: 7:27-1908

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
GREGORY W BERTHELOT
has met the requirements of Montana Administrative Rule 17.74.362
and/or 17.74.363 for accreditation in the following asbestos-type
occupation(s) as indicated by an expiration date(s).

MTA-3347

CS  MP  PD  IN

WK

MT DEQ Asbestos Control Program