# ASBESTOS AND LEAD PAINT BUILDING MATERIALS SURVEY FOR: RESEARCH LAB – 297 MOUNT SCIO ROAD MEMORIAL UNIVERSITY OF NEWFOUNDLAND

Prepared for:

Memorial University of Newfoundland

St. John's, NL

Pinchin LeBlanc Environmental Ltd
Project No. 02-02-00900

March 20, 2013

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SAINT JOHN, NB • DARTMOUTH, NS • LABRADOR CITY, NL • CORNER BROOK, NL

*ISO 9001:2008 Registered Quality System (Dartmouth, NS)*

## EXECUTIVE SUMMARY

Pinchin LeBlanc Environmental Limited (Pinchin) was retained by Memorial University of Newfoundland to perform asbestos and lead paint surveys in selected buildings on the Memorial University of Newfoundland's St. John's, NL campus. A total of twenty-seven (27) buildings were surveyed for asbestos containing materials (ACM) and lead based paints (LBP). This report will provide the findings for the following location;

**BUILDING DESCRIPTION:** RESEARCH LAB

**BUILDING ADDRESS:** MEMORIAL UNIVERSITY OF NL, ST. JOHN'S CAMPUS, NL

A summary of the findings for the Research Lab Building (hereafter referred to as "Site Building") is provided. For specific recommendations regarding any hazardous materials listed the reader will refer to Sections 3 and 4 of this report:

1. Friable asbestos containing building materials were identified in the Site Building, specifically parging cement.
2. Non-friable asbestos-containing building materials with the potential to become friable during construction or renovation activities were identified in the Site Building, specifically drywall joint compound.
3. Non-friable asbestos-containing building materials were identified in the Site Building, specifically transite, vinyl floor tiles, and incandescent heat shields.
4. No paints with lead concentrations exceeding 600mg/kg were identified in the Site Building.

*This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.*

## TABLE OF CONTENTS

## 1.0 INTRODUCTION

Pinchin LeBlanc Environmental Limited (Pinchin) was retained by Memorial University of Newfoundland to perform asbestos and lead paint surveys in selected buildings on the Memorial University of Newfoundland's St. John's, NL campus. A total of twenty-seven (27) buildings were surveyed for asbestos containing materials (ACM) and lead based paints (LBP). This report will provide the findings for the following location;

**BUILDING DESCRIPTION:** RESEARCH LAB

**BUILDING ADDRESS:** MEMORIAL UNIVERSITY OF NL, ST. JOHN'S CAMPUS, NL

The report presents a detailed investigation of condition, quantity, location, access, and type of ACM and LBP present in the building. The Overview Report, provided under separate cover, provides detailed information regarding the survey methodology, sampling procedure, evaluation criteria, suspect materials and regulatory information.

Provincial regulations and guidelines distinguish between friable[1] and non-friable[2] materials. The asbestos building materials survey performed by Pinchin included a search for both friable and common non-friable ACM.

For reporting purposes, the survey will be divided into sections. The report is presented in this manner to accommodate ease in reading and to allow access to report information for specific areas or materials within the building. The report also addresses specific systems and products likely present in the building. The sections of the report are as follows:

2.0 Survey Information

3.0 ACM Survey Findings

4.0 LBP Survey Findings

5.0 Recommendations

1 The term friable is applied to a material that can be readily reduced to dust or powder by hand or moderate pressure. Friable ACM has a much greater potential to release airborne asbestos fibres when disturbed. The most common friable ACM used in the past are sprayed or trowelled materials (for fireproofing or thermal insulation), texture plaster (decorative or acoustic), and mechanical insulations.

2 Common non-friable ACM include vinyl floor tiles, ceiling tiles, gasket materials, asbestos cement pipe or board (transite), and asbestos textiles. Although a product may be considered non-friable when new, if the product releases fine dust due to deterioration or during removal, the free dust is considered friable. For example, most lay-in or glued on acoustic ceiling tiles release significant dust during removal of large quantities of these tiles.

## 2.0 SURVEY INFORMATION

The survey was conducted on January 16th, 2013. The survey, collection of representative bulk samples, and recording of information was performed by Mr. Trent Hardy and Mrs. Angela Stagg Pinchin. All accessible areas of the building were inspected for the presence of asbestos containing materials (ACM) and lead based paints (LBP).

A total of sixteen (16) representative bulk samples were collected for analysis for asbestos content and five (5) bulk samples were collected for analysis of lead content.

## 3.0 ACM SURVEY FINDINGS

The ACM found during this survey are detailed in the location & data excel document provided to the client. The excel document serves as the clients active asbestos management plan. Quantities of materials identified, locations and friable or non-friable are also present in this excel file. Laboratory certificates for asbestos samples collected are presented in Appendix I and lead samples are presented in Appendix II. Sample location drawings are provided in Appendix III. A photographic record of the samples collected during the survey of the building is presented in Appendix IV. The following is summary of the findings for this building.

### 3.1 Sprayed or Trowelled Fireproofing and Thermal Insulation

No spray or trowelled fireproofing and thermal insulation were observed in the Site Building.

### 3.2 Mechanical Insulation

Insulating cement, also referred to as "parging cement", present on pipe elbows and straight sections, was sampled in room MS-1C01 and contains 30% Chrysotile asbestos (reference sample 02-02-900-S001). For locations and conditions of this material at the time of the building survey refer to location & data excel document.

### 3.3 Acoustic Ceiling Tiles

Two (2) were collected of acoustic ceiling tiles were observed in the Site Building. Analysis of both of the samples did not identify the presence of asbestos. A summary of the acoustic ceiling tiles samples collected is observed as follows:

- The 2'x 4' acoustic ceiling tile distinguished with a pinhole and fleck pattern located in room MS-1C04 (reference sample 02-02-900-S010); and,
- The 2'x 4' acoustic ceiling tile distinguished with longitudinal fissure and pinhole pattern located in room MS-1107 (reference sample 02-02-900-S014).

## 3.4 Drywall, Plaster, and Texture Finishes

Drywall was used as a wall and ceiling finish throughout the Site Building. Until the early to mid-1980s, drywall joint compound may have contained chrysotile asbestos. Drywall joint compound is considered a non-friable material. Most buildings of this type undergo constant renovation, including the removal and replacement of drywall partitions. Therefore extensive sampling of drywall compound is necessary to come to a reasonable conclusion regarding the extent of asbestos. Furthermore, any attempt to distinguish and delineate all asbestos-containing drywall compounds from new non-asbestos drywall compound is often unachievable. Therefore, drywall joint compound was sampled at walls, which were believed to be original to try to define the presence of asbestos content in the original drywall compound.

Six (6) samples, in total, of drywall joint compound were collected in the Site Building. Results from three (3) of the six (6) samples collected contain 3% chrysotile asbestos (reference samples, 02-02-900-S034, and 02-02-900-S003, S015, S016, S007, S011, and S013).

Plaster was not observed in use as a wall and/or ceiling finish in the Site Building. It should be noted that plaster can at times be difficult to distinguish from other wall and ceiling finishes such as drywall and concrete. Should plaster be encountered during any demolition or renovation activities, it should be sampled for analysis for asbestos content.

## 3.5 Vinyl Flooring Materials

### *3.5.1 Vinyl Floor Tiles*

Three (3) types of vinyl floor tiles were observed in the Site Building. Results from one (1) of the three (3) samples collected contain to contain asbestos. A list of the three (3) visually different vinyl floor tiles is provided below:

#### *3.5.1.1 Asbestos Containing Vinyl Floor Tiles*

- One (1) sample was collected of the 12"x12" vinyl floor tile identified as white with black streaks from room MS-1018 and contains 5% chrysotile asbestos (reference sample 02-02-900-S002). For locations and conditions of this material at the time of the building survey refer to location & data excel document.

#### *3.5.1.2 Non-Asbestos Containing Vinyl Floor Tiles*

- One (1) sample was collected of the 12"x12" vinyl floor tile identified as white with large grey streaks from room MS-1018A. Analysis of this sample did not identify the presence of asbestos (reference sample 02-02-900-S004).

- One (1) sample was collected of the 12"x12" vinyl floor tile identified as white with grey flecks from MS-1V03. Analysis of this sample did not identify the presence of asbestos (Reference sample 02-02-900-S006).

### *3.5.2 Vinyl Sheet Flooring*

One (1) sample of vinyl sheet flooring identified as white with grey streaks was collected from room MS-1110. Analysis of this sample did not identify the presence of asbestos (reference sample 020-02-900-S012).

## 3.6 Asbestos Cement Products

One (1) sample was of transite paneling inside of a fume hood collected from room MS-1018A and contains 20% chrysotile asbestos (reference sample 02-02-900-S005). For locations and conditions of this material at the time of the Site Building survey refer to location & data excel document.

## 3.7 Vermiculite Insulation

No vermiculite containing products were observed. Visual observations were made above the ceiling and through any hatches.

## 3.8 Other Asbestos Containing Building Materials

One (1) sample was collected of a heat shield present in an incandescent light fixture from room MS-1V03 and contains 60% chrysotile asbestos (reference sample 02-02-900-S008). For locations and conditions of this material at the time of the Site Building survey refer to location & data excel document.

One (1) sample of tar and pitch DEBRIS resting in the ceiling space was collected from room MS-1C04. Analysis of this sample did not identify the presence of asbestos (reference sample 02-02-900-S009).

# 4.0 LBP SURVEY FINDINGS

Analytical results indicate that none of the samples collected of painted surfaces would be considered a risk to worker exposure during construction or renovation activities (with lead concentrations exceeding 0.06%).

## 5.0 RECOMMENDATIONS

Asbestos containing materials have been identified in the Site Building. Listed below are a series of general recommendations for the Site Building. Recommendations provided in the Overview Report may also be reviewed and applied to this building.

Friable ACMs

Friable asbestos containing materials identified inside the Site Building include: parging cement.

1. Type III (high risk) asbestos abatement procedures should be carried out for the scheduled removal of greater than 1ft$^2$ of friable asbestos containing materials. Alternatively, Type II (moderate risk) glove bag abatement procedures may be applied where practical;
2. Type II (moderate risk) asbestos abatement procedures should be carried out for the scheduled repair or enclosure of friable ACMs or for the removal of less than 1ft$^2$ of material;

Potentially Friable Materials

Non-friable asbestos containing materials with the potential to become friable during demolition or renovation activities identified inside the Site Building include: drywall joint compound.

1. Any DEBRIS created by drywall in POOR condition should be managed as a friable material, and be addressed following recommendations outlined above.
2. Under the NL guidance documents for moderate and low risk asbestos abatement procedures, quantities of drywall within an enclosure exceeding 100 ft$^2$ should be removed using Type III (high risk) asbestos abatement procedures. Quantities less than 100 ft$^2$ but exceeding 10ft$^2$ should be removed using Type II (moderate risk) asbestos abatement procedures, while quantities less than 10 ft$^2$ should be removed using Type I (low risk) asbestos abatement procedures.

Non-Friable Materials

Non-friable asbestos containing materials identified inside the Site Building include: transite, vinyl floor tiles, and incandescent heat shields.

1. Type I (low risk) asbestos abatement procedures should be carried out for the scheduled disturbance of any non-friable materials provided the materials can be removed intact, and without the use of powered hand tools.

2. Should the use of powered hand tools, or excessive breakage of the materials become necessary, Type II (moderate risk) asbestos abatement procedures should be adopted.

Should there be any questions pertaining to the contents of this report, please do not hesitate to contact the undersigned at our office.

**Pinchin LeBlanc Environmental Limited**

Prepared by;

Trent Hardy; P.Geo
Project Geoscientist

# APPENDIX I

# ASBESTOS ANALYTICAL REPORT

# Bulk Asbestos Analysis

**By Polarized Light Microscopy**
**EPA Method: 600/R-93/116 and 600/M4-82-020**

NVLAP Lab Code 200664-0

**Customer:** Pinchin LeBlanc Environmental
27 Austin St
2nd Flr
St Johns, NL A1B 4C3

**Attn:** Dawn Benteau
Paul Staeben

**Project:** MUN Asbestos and Lead Survey 297
Mt. Scio Research

**Lab Order ID:** 1300843
**Analysis ID:** 1300843PLM
**Date Received:** 1/21/2013
**Date Reported:** 1/22/2013

| Sample ID / *Lab Sample ID* | Description / *Lab Notes* | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes / Treatment |
|---|---|---|---|---|---|
| 02-02-900-S001 | Parging Cement | 30% Chrysotile | | 70% Other | Gray<br>Fibrous<br>Heterogeneous |
| *1300843PLM_1* | | | | | Teased |
| 02-02-900-S002 | 12"x12" VFT - White with black streaks | 5% Chrysotile | | 95% Other | White<br>Non Fibrous<br>Homogeneous |
| *1300843PLM_2* | *tile only* | | | | Dissolved |
| 02-02-900-S003 | DWJC | 3% Chrysotile | | 97% Other | White<br>Non Fibrous<br>Homogeneous |
| *1300843PLM_3* | | | | | Crushed |
| 02-02-900-S004 - A | 12"x12" VFT - White with large grey streaks | None Detected | | 100% Other | White<br>Non Fibrous<br>Homogeneous |
| *1300843PLM_4* | *tile* | | | | Dissolved |
| 02-02-900-S004 - B | 12"x12" VFT - White with large grey streaks | None Detected | | 100% Other | Black<br>Non Fibrous<br>Homogeneous |
| *1300843PLM_17* | *mastic* | | | | Dissolved |
| 02-02-900-S005 | Transite | 20% Chrysotile | | 80% Other | Gray<br>Fibrous<br>Heterogeneous |
| *1300843PLM_5* | | | | | Teased |
| 02-02-900-S006 - A | 12"x12" VFT - white with grey flecks | None Detected | | 100% Other | White<br>Non Fibrous<br>Homogeneous |
| *1300843PLM_6* | *tile* | | | | Dissolved |
| 02-02-900-S006 - B | 12"x12" VFT - white with grey flecks | None Detected | | 100% Other | Yellow<br>Non Fibrous<br>Homogeneous |
| *1300843PLM_18* | *mastic* | | | | Dissolved |



Bobby Wheatley (19)
**Analyst**

**Nathaniel Durham, MS or Approved Signatory**

# Bulk Asbestos Analysis

**By Polarized Light Microscopy**
**EPA Method: 600/R-93/116 and 600/M4-82-020**

NVLAP Lab Code 200664-0

**Customer:** Pinchin LeBlanc Environmental
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**Attn:** Dawn Benteau
Paul Staeben

**Project:** MUN Asbestos and Lead Survey 297
Mt. Scio Research

**Lab Order ID:** 1300843
**Analysis ID:** 1300843PLM
**Date Received:** 1/21/2013
**Date Reported:** 1/22/2013

| Sample ID / *Lab Sample ID* | Description / *Lab Notes* | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes / Treatment |
|---|---|---|---|---|---|
| 02-02-900-S007 / *1300843PLM_7* | DWJC | None Detected | | 100% Other | White, Non Fibrous, Homogeneous / Crushed |
| 02-02-900-S008 / *1300843PLM_8* | Incandescent Heat Sheild | 60% Chrysotile | | 40% Other | White, Fibrous, Heterogeneous / Teased |
| 02-02-900-S009 / *1300843PLM_9* | Tar pitch debris | None Detected | | 100% Other | Black, Non Fibrous, Homogeneous / Dissolved |
| 02-02-900-S010 / *1300843PLM_10* | 2"X4" ACT - Pinhole and fleck | None Detected | 60% Cellulose<br>20% Fiber Glass | 20% Other | Gray, Fibrous, Heterogeneous / Teased |
| 02-02-900-S011 / *1300843PLM_11* | DWJC | None Detected | | 100% Other | White, Non Fibrous, Homogeneous / Crushed |
| 02-02-900-S012 - A / *1300843PLM_12* | VSF - White with grey streak<br>*vinyl sheet flooring* | None Detected | | 100% Other | White, Non Fibrous, Homogeneous / Dissolved |
| 02-02-900-S012 - B / *1300843PLM_19* | VSF - White with grey streak<br>*mastic* | None Detected | | 100% Other | Yellow, Non Fibrous, Homogeneous / Dissolved |
| 02-02-900-S013 / *1300843PLM_13* | DWJC | None Detected | | 100% Other | White, Non Fibrous, Homogeneous / Dissolved |



Bobby Wheatley (19)
**Analyst**

**Nathaniel Durham, MS or Approved Signatory**

# Bulk Asbestos Analysis

**By Polarized Light Microscopy**
**EPA Method: 600/R-93/116 and 600/M4-82-020**

NVLAP Lab Code :200664-0

**Customer:** Pinchin LeBlanc Environmental
27 Austin St
2nd Flr
St Johns, NL A1B 4C3

**Attn:** Dawn Benteau
Paul Staeben

**Project:** MUN Asbestos and Lead Survey 297
Mt. Scio Research

**Lab Order ID:** 1300843
**Analysis ID:** 1300843PLM
**Date Received:** 1/21/2013
**Date Reported:** 1/22/2013

| Sample ID / *Lab Sample ID* | Description / *Lab Notes* | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes / Treatment |
|---|---|---|---|---|---|
| 02-02-900-S014 | 2"x4" ACT - longitudinal fissure and pinhole | None Detected | 60% Fiber Glass<br>20% Cellulose | 20% Other | Gray<br>Fibrous<br>Heterogeneous |
| *1300843PLM_14* | | | | | Teased |
| 02-02-900-S015 | DWJC | 3% Chrysotile | | 97% Other | White<br>Non Fibrous<br>Homogeneous |
| *1300843PLM_15* | | | | | Crushed |
| 02-02-900-S016 | DWJC | 3% Chrysotile | | 97% Other | Tan<br>Non Fibrous<br>Homogeneous |
| *1300843PLM_16* | | | | | Crushed |



Bobby Wheatley (19)
**Analyst**

**Nathaniel Durham, MS or Approved Signatory**

# APPENDIX II

# LEAD PAINT ANALYTICAL REPORT

# Analysis for Lead Concentration in Paint Chips

**by Flame Atomic Absorption Spectroscopy**
**EPA SW-846 3rd Ed. Method No. 3050B/Method No. 7420**

AIHA LAP, LLC ACCREDITED LABORATORY ENVIRONMENTAL LEAD ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAP #173180

**Customer:** Pinchin LeBlanc Environmental
27 Austin St
2nd Flr
St Johns NL A1B 4C3

**Attn:** Dawn Benteau
Paul Staeben

**Lab Order ID:** 1300845
**Analysis ID:** 1300845_PBP
**Date Received:** 1/21/2013
**Date Reported:** 1/23/2013

**Project:** 02-02-00900 MUN Asbestos and Lead Survey - Mt Scio Road Research

| Sample ID<br>*Lab Sample ID* | Description<br>*Lab Notes* | Mass<br>*(g)* | Analytical Sensitivity<br>*(% by weight)* | Concentration<br>*(% by weight)* |
|---|---|---|---|---|
| 02-02-900-L001<br>1300845PBP_1 | White paint | 0.0593 | 0.002% | **0.041%** |
| 02-02-900-L002<br>1300845PBP_2 | White paint | 0.0503 | 0.003% | **< 0.008%** |
| 02-02-900-L003<br>1300845PBP_3 | Blue paint | 0.0568 | 0.002% | **< 0.007%** |
| 02-02-900-L004<br>1300845PBP_4 | Grey paint | 0.0625 | 0.002% | **0.010%** |
| 02-02-900-L005<br>1300845PBP_5 | White paint | 0.0719 | 0.002% | **< 0.006%** |



Robert Duke (5)
Analyst

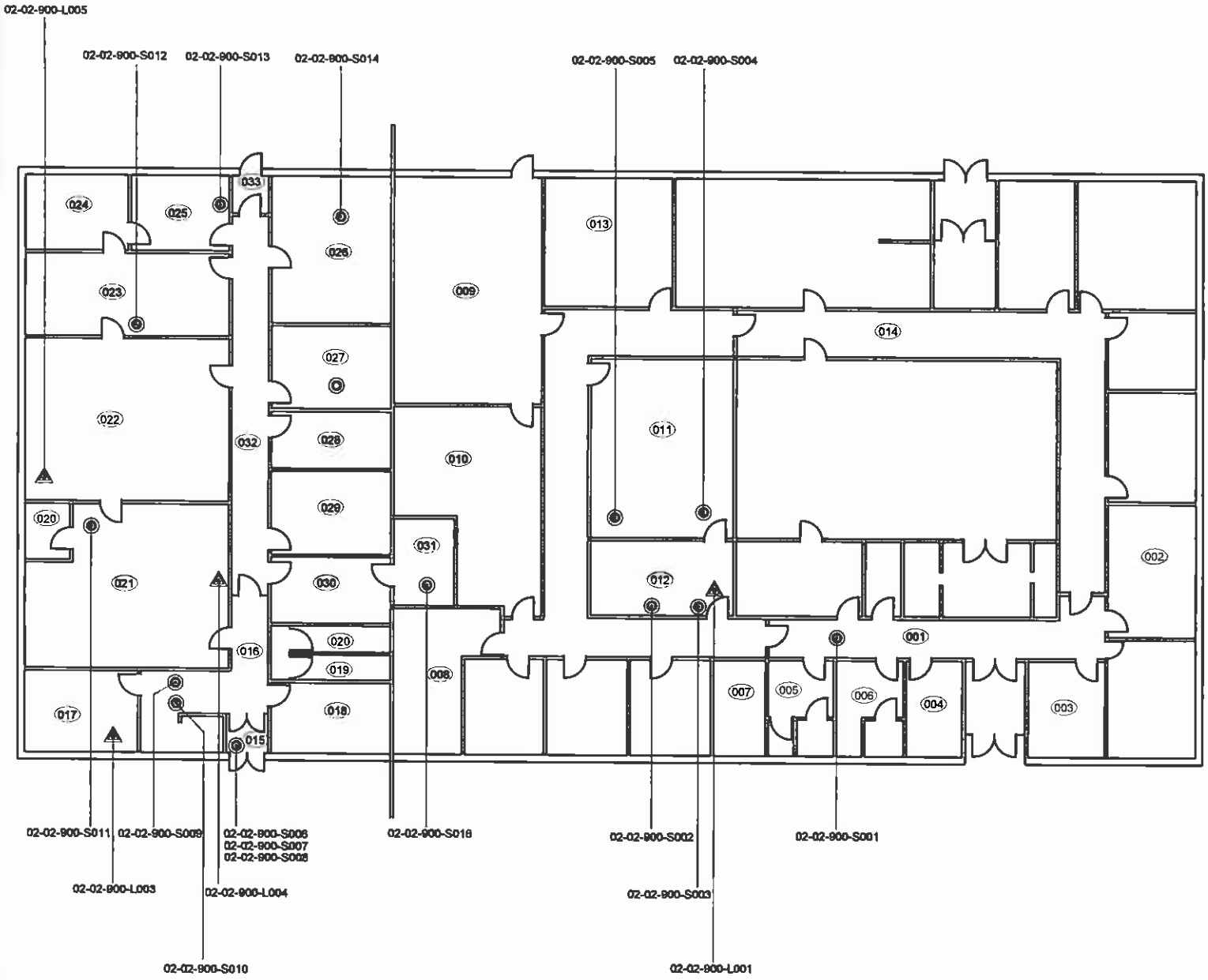
Laboratory Director



Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

# APPENDIX III

# SITE DRAWINGS




PINCHIN LEBLANC ENVIRONMENTAL

LEGEND:

- XXX — PINCHIN LOCATION NUMBER
- ASBESTOS SAMPLE ID NUMBER
- LEAD SAMPLE ID NUMBER

CLIENT:

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

PROJECT:

ASBESTOS AND LEAD PAINT BUILDING MATERIALS SURVEY

SITE ADDRESS:

MT. SCIO ROAD RESEARCH LABS, ST. JOHN'S CAMPUS, NEWFOUNDLAND AND LABRADOR

DRAWING NAME:

SAMPLE LOCATIONS LEVEL 1

REFERENCE:

PLEL SITE SURVEY

| DATE: | PROJECT #: |
|---|---|
| MARCH 2013 | 02 - 02 - 00900 |
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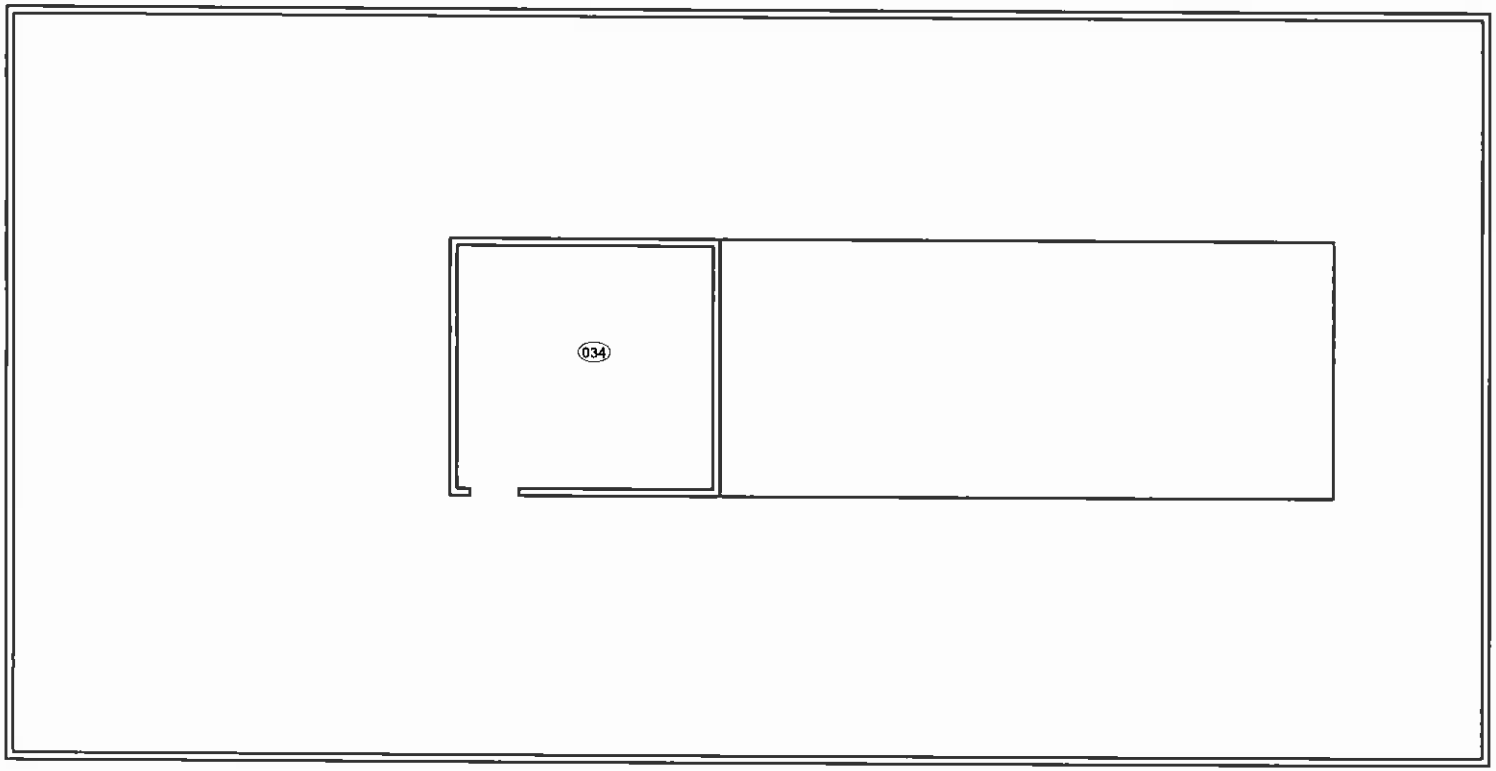
| DRAWN BY: A. ANISCIKLI | |
| CHECKED BY: P. STAEBEN | |




PINCHIN LEBLANC ENVIRONMENTAL

LEGEND:

XXX PINCHIN LOCATION NUMBER

CLIENT:

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

PROJECT:

ASBESTOS AND LEAD PAINT BUILDING MATERIALS SURVEY

SITE ADDRESS:

MT. SCIO ROAD RESEARCH LABS, ST. JOHN'S CAMPUS, NEWFOUNDLAND AND LABRADOR

DRAWING NAME:

SAMPLE LOCATIONS
LEVEL 2 - PENTHOUSE

REFERENCE:

PLEL SITE SURVEY

| DATE: | PROJECT #: |
|---|---|
| MARCH 2013 | 02 - 02 - 00900 |
| SCALE: N.T.S. | FIGURE #: 2 |
| DRAWN BY: A. ANISCIKLI | |
| CHECKED BY: P. STAEBEN | |

# APPENDIX IV

# SAMPLE LOG

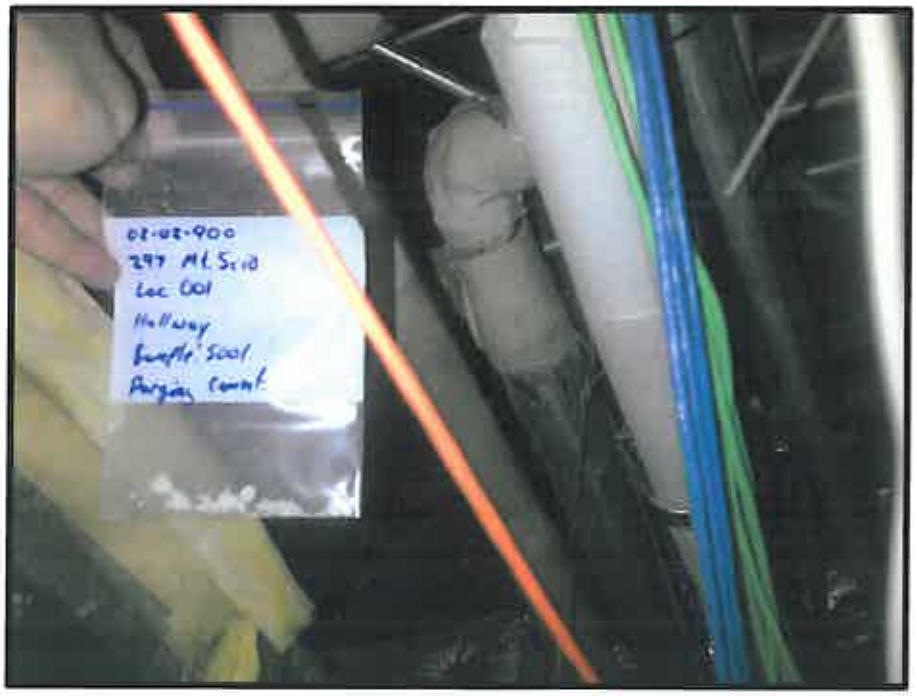
MEMORIAL UNIVERSITY

# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S001 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 001, room MS 1C01 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐12'x12' Tile | ☐ Textured | ☐ Shingle | ☐ Floor |
| X Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | ☐ Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: Parging | |
| ☐ Insulation | ☐ DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: | |



# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S002 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 012, room 1018 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | X12'x12' Tile | ☐ Textured | ☐ Shingle | X Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | ☐ Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: _____ | |
| ☐ Insulation | ☐ DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: White with black streaks | |

# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S003 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 012, room 1018 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐ 12'x12' Tile | ☐ Textured | ☐ Shingle | ☐ Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | X Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: _____ | |
| ☐ Insulation | X DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: _____ | |

# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S004 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 013, room 1010 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

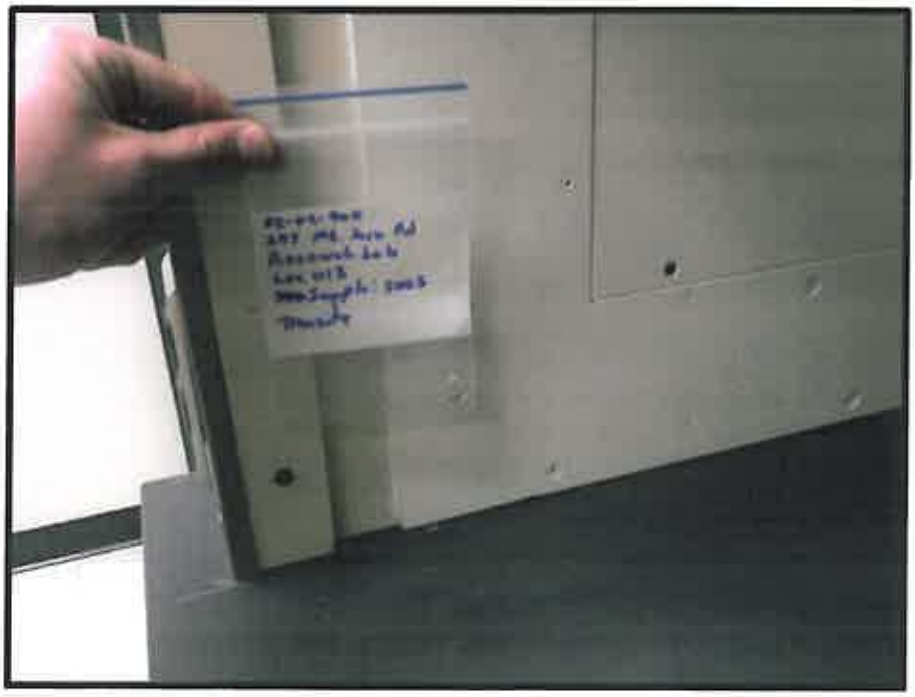
| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | X12'x12' Tile | ☐ Textured | ☐ Shingle | X Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | ☐ Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: _____ | |
| ☐ Insulation | ☐ DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: White with large grey streaks | |

# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S005 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 013, room 1010 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐12'x12' Tile | ☐ Textured | ☐ Shingle | ☐ Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | X Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | X Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: _____ | |
| ☐ Insulation | ☐ DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: | |



# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S006 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 015, room 1V03 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

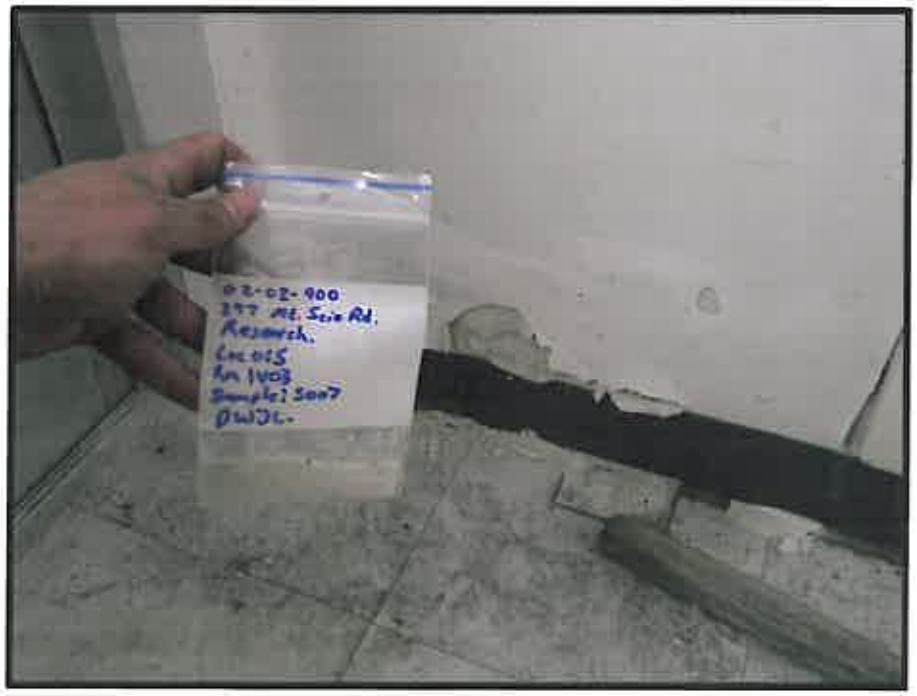
| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | X12'x12' Tile | ☐ Textured | ☐ Shingle | X Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | ☐ Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: _____ | |
| ☐ Insulation | ☐ DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: White with grey flecks | |

# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S007 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 015, room 1V03 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐12'x12' Tile | ☐ Textured | ☐ Shingle | ☐ Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | X Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: _____ | |
| ☐ Insulation | X DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: _____ | |



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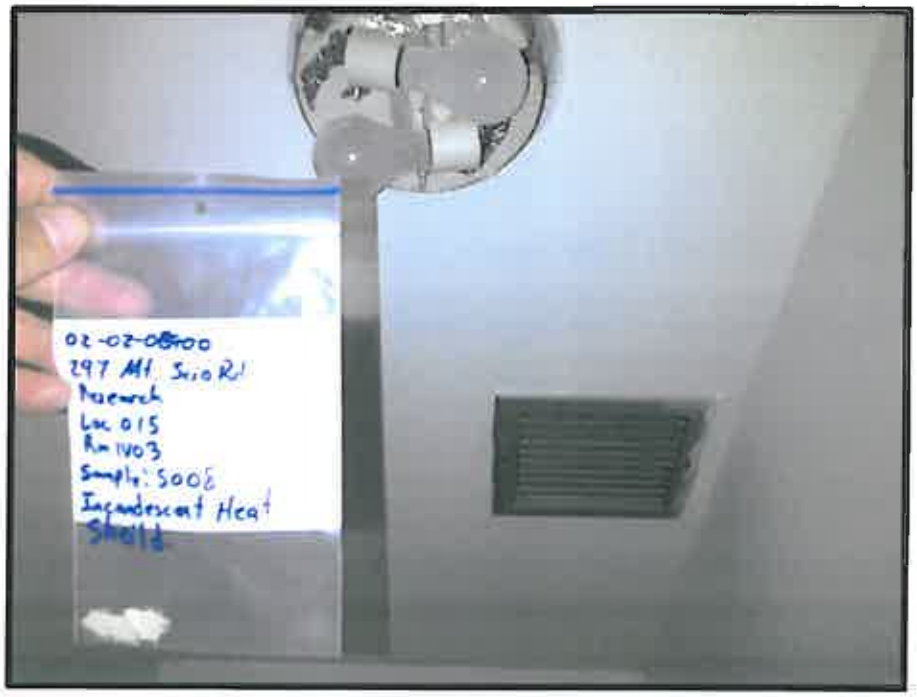
# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S008 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 015, room 1V03 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐ 12'x12' Tile | ☐ Textured | ☐ Shingle | ☐ Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | ☐ Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | X Other (light) |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: Incandescent heat shield | |
| ☐ Insulation | ☐ DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: _____ | |



# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S009 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 016, room 1C01 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

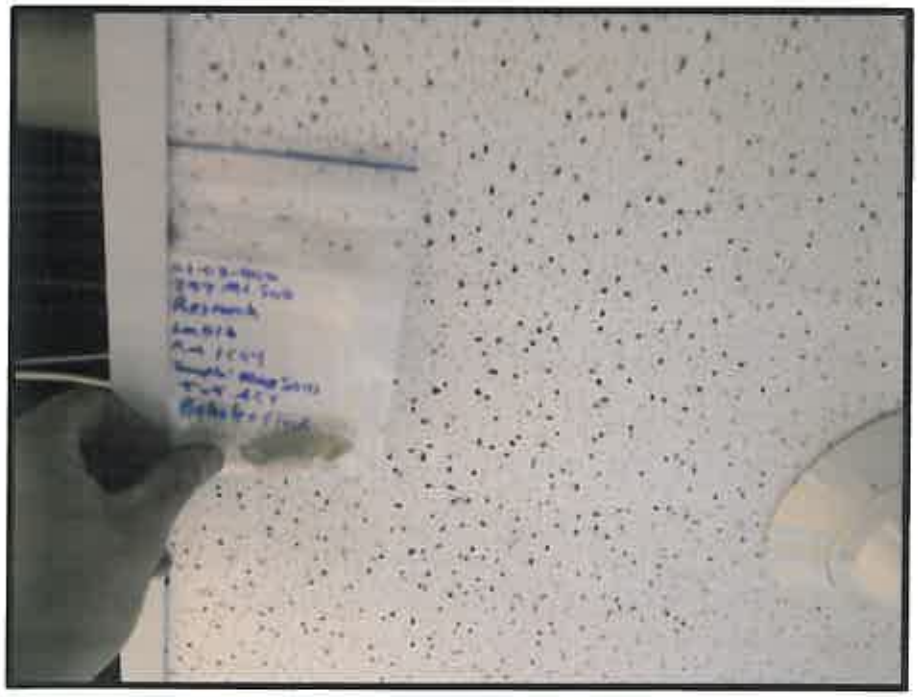
| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐12'x12' Tile | ☐ Textured | ☐ Shingle | ☐ Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | ☐ Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: Tar debris above ceiling | |
| ☐ Insulation | ☐ DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: _____ | |

# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S010 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 016, room 1C04 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐ 12'x12' Tile | ☐ Textured | ☐ Shingle | ☐ Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | ☐ Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | X Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | X Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: 2' x 4' pinhole fleck | |
| ☐ Insulation | ☐ DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: _____ | |



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# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S011 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 021, room 1104 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐ 12'x12' Tile | ☐ Textured | ☐ Shingle | ☐ Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | X Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: _____ | |
| ☐ Insulation | X DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: _____ | |

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# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S012 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 023, room 1110 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐12'x12' Tile | ☐ Textured | ☐ Shingle | X Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | ☐ Wall Orientation |
| ☐ Fitting | X Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: _____ | |
| ☐ Insulation | ☐ DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: White with grey streak | |

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# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S013 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 025, room 1112A | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

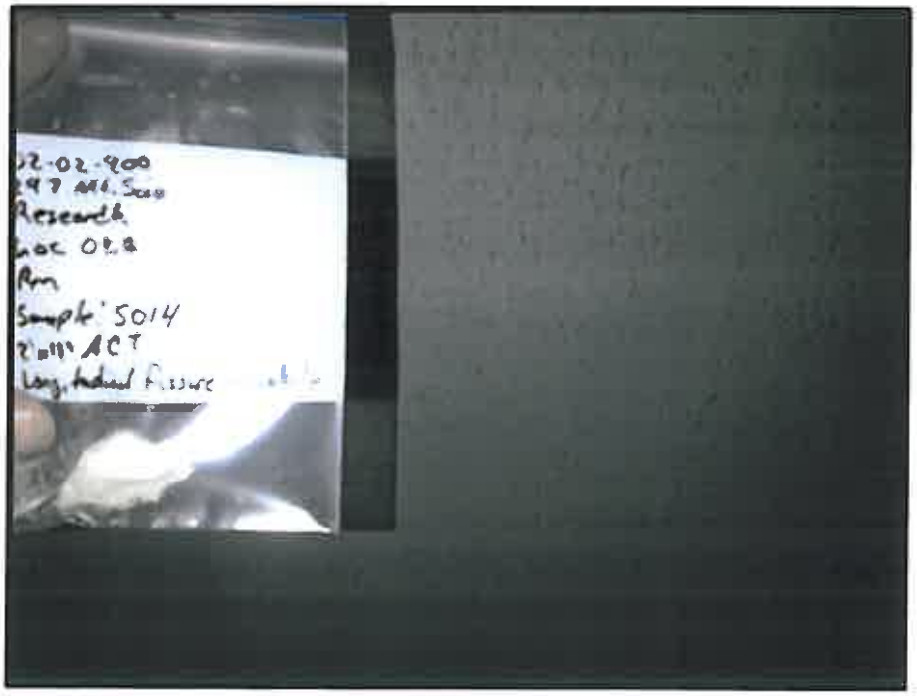
| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐ 12'x12' Tile | ☐ Textured | ☐ Shingle | ☐ Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | X Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: _____ | |
| ☐ Insulation | X DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: _____ | |

# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S014 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 026, room 1111 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐ 12'x12' Tile | ☐ Textured | ☐ Shingle | ☐ Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | ☐ Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | X Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | X Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: 2' x 4' longitudinal fissure and pinhole | |
| ☐ Insulation | ☐ DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: _____ | |



# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S015 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 027, room 1108 | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐12'x12' Tile | ☐ Textured | ☐ Shingle | ☐ Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | X Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: _____ | |
| ☐ Insulation | X DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: _____ | |

# ASBESTOS BULK SAMPLING FORM

| | | | |
|---|---|---|---|
| **Sample #:** | S016 | **Date Sampled:** | January 16, 2013 |
| **Building :** | Mount Scio Research Lab | **Sampler:** | Trent Hardy |
| **Location:** | 031, room 1105A | **Analysis:** | SAI - PLM |
| **MUN Project #:** | 02-02-900 | **Work Order #:** | |

**Bulk Sampling Parameters**

| Pipe/Tank | Flooring | Ceiling | Roofing | Location |
|---|---|---|---|---|
| ☐ Insulation | ☐12'x12' Tile | ☐ Textured | ☐ Shingle | ☐ Floor |
| ☐ Elbow | ☐ 9'x9'Tile | ☐ Stucco | ☐ Rolled | X Wall Orientation |
| ☐ Fitting | ☐ Vinyl Sheet | ☐ Popcorn | ☐ Felt | ☐ Ceiling |
| ☐ Transite Pipe | ☐ Mastic | ☐ DWJC | ☐ Tar | ☐ Above Ceiling |
| ☐ Gasket | **Wall** | ☐ Plaster | | ☐ Other |
| ☐ Tank Insulation | ☐ Transite Panel | ☐ Acoustic Tile (Dropped) | | |
| ☐ Pipe Wrap | ☐ Textured Wall | ☐ Acoustic Tile (Glued-on) | | |
| **HVAC** | ☐ Plaster | ☐ Mastic | Miscellaneous: _____ | |
| ☐ Insulation | X DWJC | **Structural** | | |
| ☐ Tape | | ☐ Steel F. P. ing | No. of Phases: _____ | |
| ☐ Paper Wrap | | ☐ Deck F. P. ing | Colour: _____ | |