ASBESTOS AND LEAD PAINT BUILDING MATERIALS SURVEY FOR:
SOUTH BOILER PLANT
MEMORIAL UNIVERSITY OF NEWFOUNDLAND

Prepared for:

Memorial University of Newfoundland

St. John's, NL

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

December 12, 2012

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

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: SOUTH BOILER PLANT

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

A summary of the findings for the South Boiler Plant (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 and potentially friable asbestos-containing building materials were identified in the Site Building, specifically tar mastics.
3. No paint with lead concentrations exceeding 600mg/kg was 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: SOUTH BOILER PLANT

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 between August and September, 2012. The survey, collection of representative bulk samples, and recording of information was performed by Mr. Trent Hardy and Mr. Philip Lowery of PLEL. All accessible areas of the building were inspected for the presence of asbestos containing materials (ACM) and lead based paints (LBP).

A total of fourteen (14) representative bulk samples were collected for analysis for asbestos content,

A total of three (3) 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 applied fireproofing was identified in the site building.

3.2 Mechanical Insulation

Insulating cement, also referred to as "parging cement", present on pipe elbows and pipe straight sections was sampled from room 1018 and contains 15% Chrysotile in the sample (reference samples 02-02-900-S003, 02-02-900-S004 02-02-900-S006). For locations and conditions of this material at the time of the building survey refer to location & data excel document.

Tar mastic around a cut off pipe was sampled from room BR 1002 and contains 2% chrysotile asbestos (reference sample 02-02-900-S006). For locations and conditions of this material at the time of the building survey refer to location & data excel document.

One (1) sample of the straight insulation jacket on heat exchange # 12 was collected supply in room 1002. Analysis of the sample did not identify the presence of asbestos (reference sample 02-02-900-S001).

3.3 Acoustic Ceiling Tiles

One (1) sample of the 2'x2' ACT acoustic ceiling tile distinguished with a pinhole and small fissure pattern was sampled from room 2006. Analysis of the sample did not identify the presence of asbestos (reference sample 02-02-900-S012).

3.4 Drywall, Plaster, and Texture Finishes

Drywall and plaster was used as a wall and ceiling finish throughout the 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 and plaster 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 and plaster was sampled at walls, which were believed to be original to try to define the presence of asbestos content in the original drywall compound.

Three (3) samples of drywall joint compound were collected in the site building. Analysis of these samples did not identify the presence of asbestos (reference samples 02-02-900-S005, S011, and S014).

Ceiling plaster was sampled from room 2007 and analysis of the sample did not identify the presence of asbestos (reference sample 02-02-900-S010).

3.5 Vinyl Flooring Materials

3.5.1 Vinyl Floor Tiles

Two (2) types of vinyl floor tiles were observed in the site building. Analysis of both of these samples did not identify the presence of asbestos. A list of the visually different vinyl floor tiles is provided below:

- One (1) sample of the 12"x12" vinyl floor tile distinguished with white and brown streak was collected from room 1002A. Analysis of this sample did not identify the presence of asbestos (reference sample 02-02-900-S009).
- One (1) sample of the 12"x12" vinyl floor tile distinguished with white and thick brown streak was collected from room 2006. Analysis of this sample did not identify the presence of asbestos (reference sample 02-02-900-S013).

3.6 Asbestos Cement Products

No asbestos cement products were observed in the site building.

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

Two (2) samples were collected of tar mastics on the sinks throughout the site building. Results from one (1) of the two (2) samples indicate the presence of 3% chrysotile asbestos (reference sample 02-02-900-S008). For locations and conditions of this material at the time of the building survey refer to location & data excel document.

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%). All paints observed inside the Site Building were observed in GOOD condition.

5.0 RECOMMENDATIONS

Asbestos containing materials and lead based paints 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;

Non-Friable Materials

Non-friable asbestos containing materials identified inside the Site Building include: tar mastics.

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;

Paul Staeben
Regional Vice President

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: 02-02-00900

Lab Order ID: 1216455
Analysis ID: 1216455PLM
Date Received: 10/4/2012
Date Reported: 10/9/2012

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
02-02-900-S001 / *1216455PLM_1*	Straight insulation jacket on heat exchange # 12 supply line	None Detected	20% Cellulose 20% Synthetic Fibers Fiber Glass 10%	50% Other	Black, White Fibrous Heterogeneous Dissolved, Teased
02-02-900-S002 / *1216455PLM_2*	Parging cement on elbows/fittings on heat exchange# 12 supply lines	15% Chrysotile		85% Other	White Fibrous Heterogeneous Teased
02-02-900-S003 / *1216455PLM_3*	Pipe elbow parging cement secondary loop lines	15% Chrysotile		85% Other	White Fibrous Heterogeneous Teased
02-02-900-S004 / *1216455PLM_4*	Pipe parging cement on building water lines	15% Chrysotile		85% Other	White Fibrous Heterogeneous Teased
02-02-900-S005 / *1216455PLM_5*	DWJC	None Detected		100% Other	White Non Fibrous Homogeneous Crushed
02-02-900-S006 / *1216455PLM_6*	Tar sealant around cut off pipe *chrysotile on surface*	2% Chrysotile		98% Other	Black Non Fibrous Heterogeneous Dissolved
02-02-900-S007 / *1216455PLM_7*	Sink liner	None Detected	15% Cellulose	85% Other	White Non Fibrous Homogeneous Dissolved
02-02-900-S008 / *1216455PLM_8*	Black sink liner	3% Chrysotile		97% Other	Black Non Fibrous Heterogeneous Dissolved

Bobby Wheatley (16)
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: 02-02-00900

Lab Order ID: 1216455
Analysis ID: 1216455PLM
Date Received: 10/4/2012
Date Reported: 10/9/2012

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
02-02-900-S009 / *1216455PLM_9*	1'X1 VFT white with brown streaks	None Detected		100% Other	White, Non Fibrous, Homogeneous / Dissolved
02-02-900-S010 - A / *1216455PLM_10*	Ceiling plaster / *finish*	None Detected		100% Other	White, Non Fibrous, Homogeneous / Crushed
02-02-900-S010 - B / *1216455PLM_15*	Ceiling plaster / *base*	None Detected		90% Other 10% Vermiculite	Tan, Non Fibrous, Heterogeneous / Crushed
02-02-900-S011 / *1216455PLM_11*	DWJC	None Detected		100% Other	White, Non Fibrous, Homogeneous / Crushed
02-02-900-S012 / *1216455PLM_12*	2'x2' ACT pinhole and small fissure	None Detected	50% Fiber Glass 20% Cellulose 10% Wollastonite	20% Other	Gray, Fibrous, Heterogeneous / Teased
02-02-900-S013 - A / *1216455PLM_13*	1'X1 VFT white with thick brown streaks / *tile*	None Detected		100% Other	White, Non Fibrous, Homogeneous / Dissolved
02-02-900-S013 - B / *1216455PLM_16*	1'X1 VFT white with thick brown streaks / *mastic*	None Detected		100% Other	Black, Non Fibrous, Homogeneous / Dissolved
02-02-900-S014 / *1216455PLM_14*	DWJC	None Detected		100% Other	White, Non Fibrous, Homogeneous / Crushed

Bobby Wheatley (16)
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 #173190

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

Attn: Dawn Benteau
Paul Staeben

Project: 02-02-00900 MUN Asbestos and Lead Survey

Lab Order ID: 1216464
Analysis ID: 1216464_PBP
Date Received: 10/4/2012
Date Reported: 10/8/2012

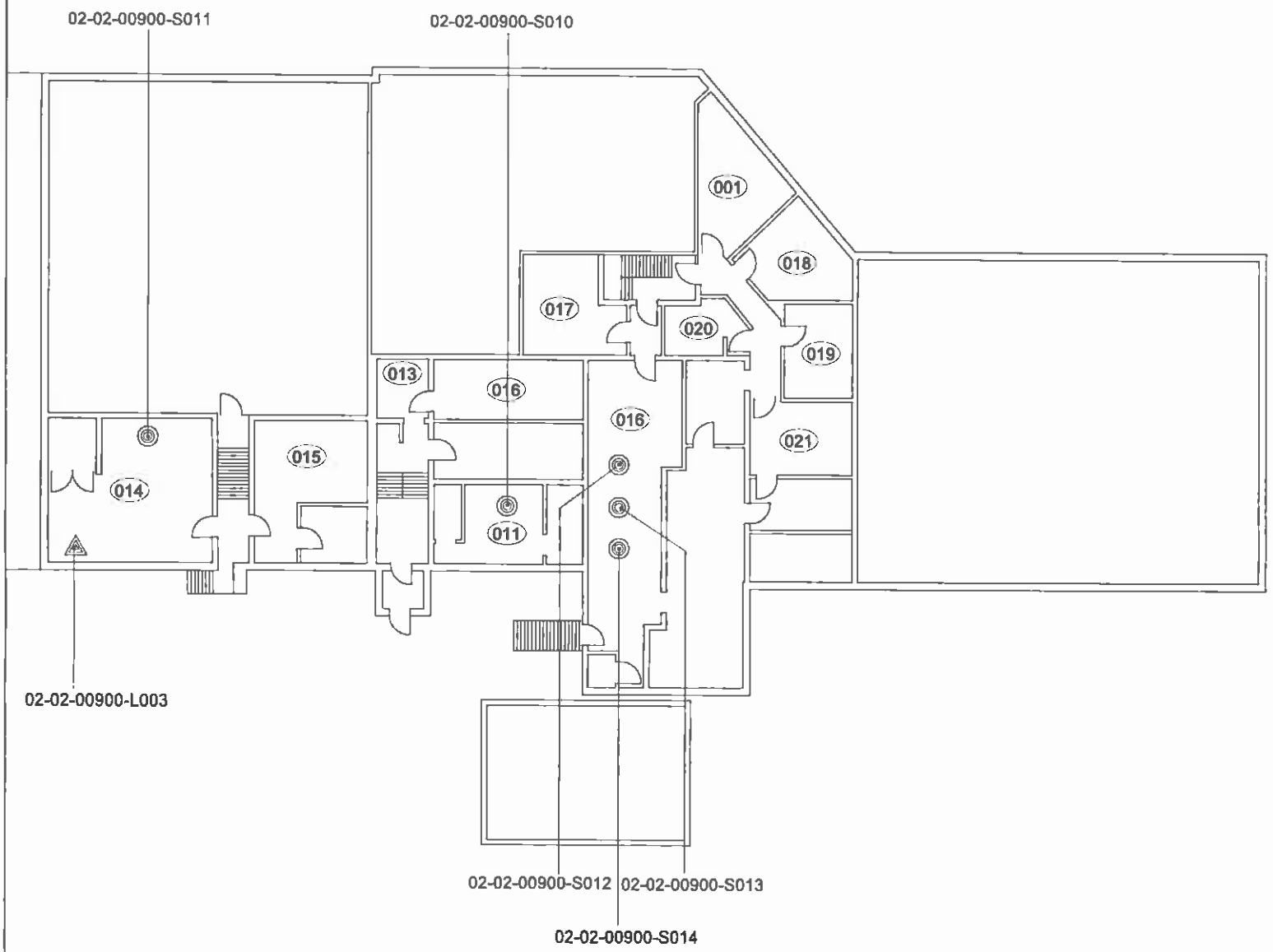
Sample ID *Lab Sample ID*	Description *Lab Notes*	Mass *(g)*	Analytical Sensitivity *(% by weight)*	Concentration *(% by weight)*
02-02-900-L001 1216464PBP_1	Yellow floor paint	0.0575	0.002%	**0.043%**
02-02-900-L002 1216464PBP_2	White floor paint	0.0649	0.002%	**0.012%**
02-02-900-L003 1216464PBP_3	Grey floor paint	0.0627	0.002%	**0.009%**

Melissa Sharps (3)
Analyst

Laboratory Director

APPENDIX III

SITE DRAWINGS



PINCHIN LEBLANC ENVIRONMENTAL

LEGEND:

XXX	PINCHIN LOCATION NUMBER
◎	ASBESTOS SAMPLE ID NUMBER
⚠	LEAD SAMPLE ID NUMBER
N/A	NOT ACCESSIBLE

N

CLIENT:

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

PROJECT:

ASBESTOS AND LEAD PAINT BUILDING MATERIALS SURVEY

SITE ADDRESS:

SOUTH BOILER PLANT,
ST. JOHN'S CAMPUS,
NEWFOUNDLAND AND LABRADOR

DRAWING NAME:

SAMPLE LOCATIONS
LEVEL 2

REFERENCE:

PLEL SITE SURVEY

DATE: OCTOBER 2012	PROJECT #: 02 - 02 - 00900
SCALE: N.T.S.	FIGURE #: 2
DRAWN BY: A. ANISCIKLI	
CHECKED BY: T. HARDY	

APPENDIX IV

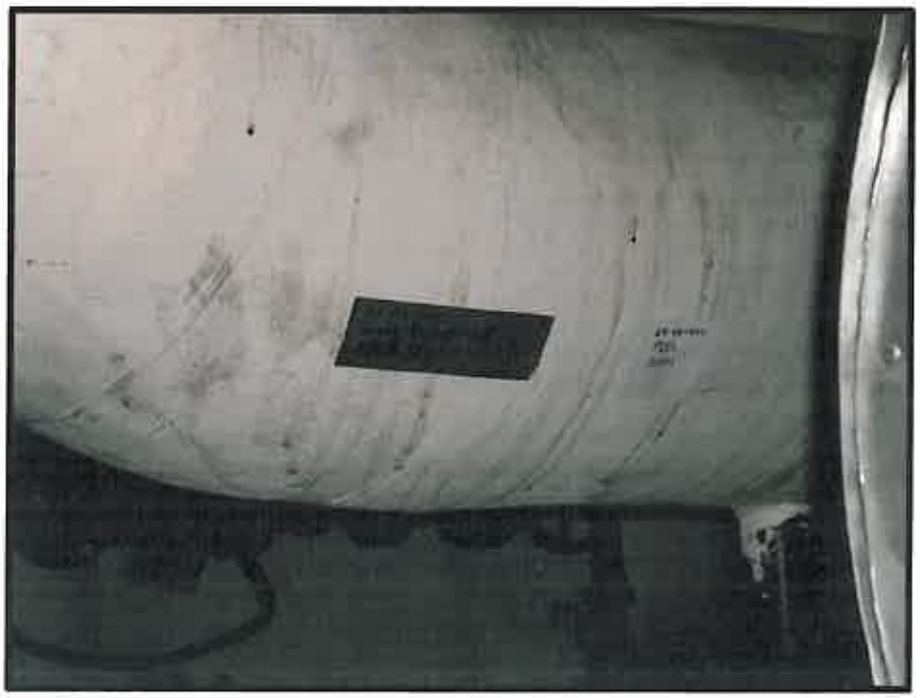
SAMPLE LOG

ASBESTOS BULK SAMPLING FORM

Sample #:	S001	**Date Sampled:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	001, room 1002	**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
☐ Tank Insulation	☐ Transite Panel	☐ Acoustic Tile (Dropped)		
X Pipe Wrap	☐ Textured Wall	☐ Acoustic Tile (Glued-on)		
HVAC	☐ Plaster	☐ Mastic	Miscellaneous: Straight insulation jacket	
☐ 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:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	001, room 1002	**Analysis:**	SAI - PLM
MUN Project #:	02-02-900	**Work Order #:**	

Bulk Sampling Parameters

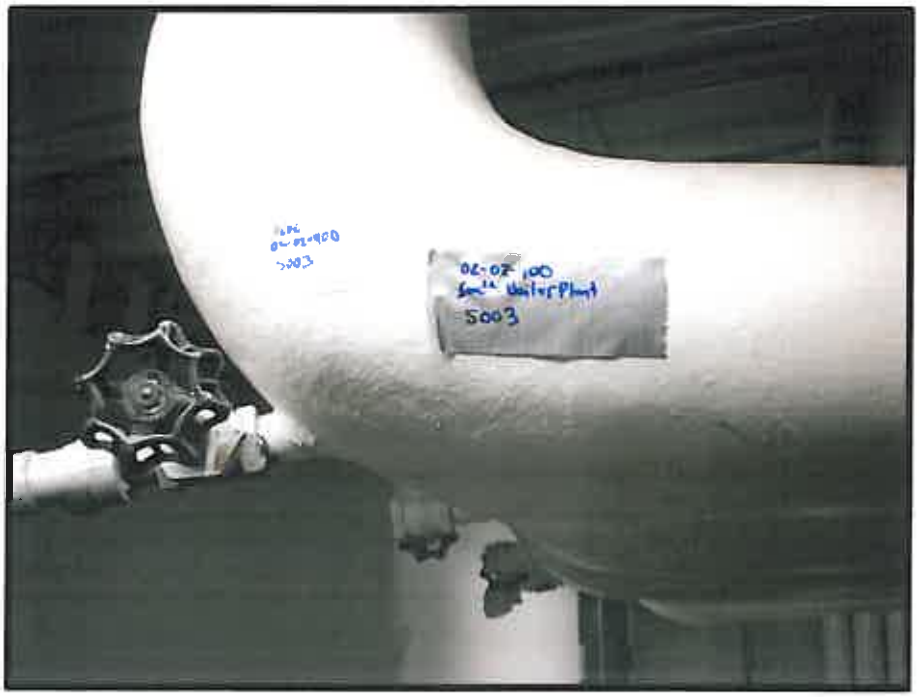
Pipe/Tank	Flooring	Ceiling	Roofing	Location
X Insulation	☐12'x12' Tile	☐ Textured	☐ Shingle	☐ Floor
X Elbow	☐ 9'x9'Tile	☐ Stucco	☐ Rolled	☐ Wall Orientation
☐ Fitting	☐ Vinyl Sheet	☐ Popcorn	☐ Felt	☐ Ceiling
☐ Transite Pipe	☐ Mastic	☐ DWJC	☐ Tar	☐ Above Ceiling
☐ Gasket	**Wall**	☐ Plaster		X Other
☐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

ASBESTOS BULK SAMPLING FORM

Sample #:	S003	**Date Sampled:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	001, room 1002	**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		X Other
☐ Tank Insulation	☐ Transite Panel	☐ Acoustic Tile (Dropped)		
☐ Pipe Wrap	☐ Textured Wall	☐ Acoustic Tile (Glued-on)		
HVAC	☐ Plaster	☐ Mastic	Miscellaneous: Second co-op line	
☐ Insulation	☐ DWJC	**Structural**		
☐ Tape		☐ Steel F. P. ing	No. of Phases: _____	
☐ Paper Wrap		☐ Deck F. P. ing	Colour: _____	

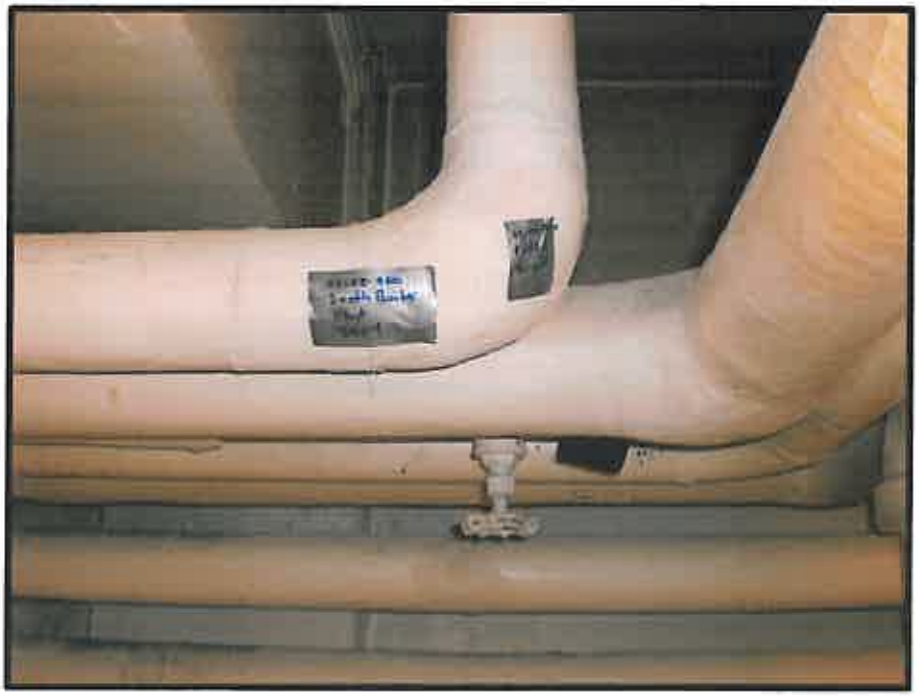


ASBESTOS BULK SAMPLING FORM

Sample #:	S004	**Date Sampled:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	001, room 1002	**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		X Other
☐ Tank Insulation	☐ Transite Panel	☐ Acoustic Tile (Dropped)		
☐ Pipe Wrap	☐ Textured Wall	☐ Acoustic Tile (Glued-on)		
HVAC	☐ Plaster	☐ Mastic	Miscellaneous: Building water line	
☐ Insulation	☐ DWJC	**Structural**		
☐ Tape		☐ Steel F. P. ing	No. of Phases: _____	
☐ Paper Wrap		☐ Deck F. P. ing	Colour: _____	



MEMORIAL UNIVERSITY

ASBESTOS BULK SAMPLING FORM

Sample #:	S005	**Date Sampled:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	001, room 1002	**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: _____	

MEMORIAL UNIVERSITY

ASBESTOS BULK SAMPLING FORM

Sample #:	S006	**Date Sampled:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	001, room 1002	**Analysis:**	SAI - PLM
MUN Project #:	02-02-900	**Work Order #:**	

Bulk Sampling Parameters

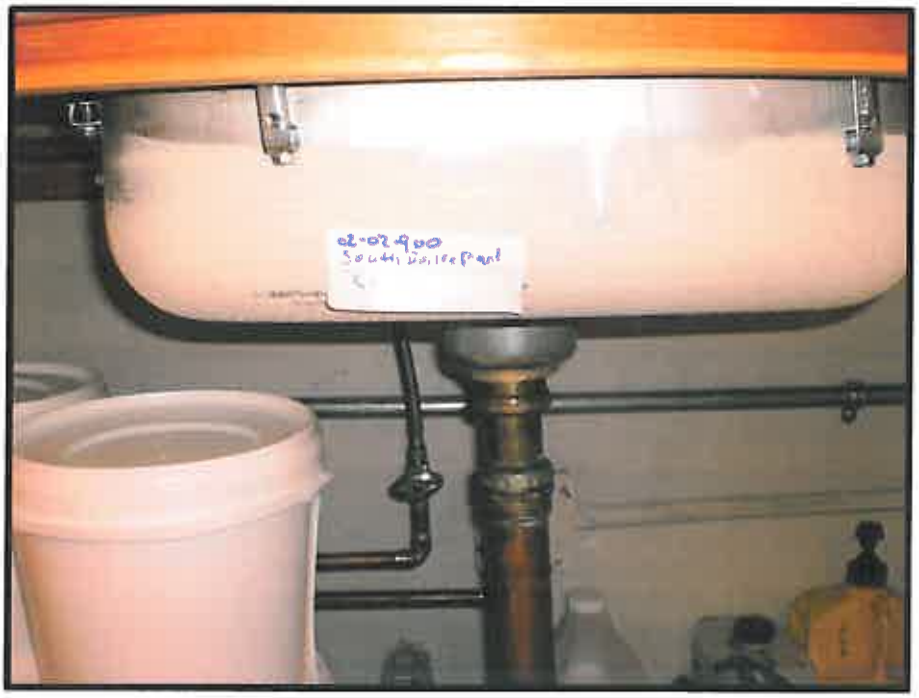
Pipe/Tank	Flooring	Ceiling	Roofing	Location
☐ Insulation	☐ 12'x12' Tile	☐ Textured	☐ Shingle	☐ Floor
☐ Elbow	☐ 9'x9'Tile	☐ Stucco	☐ Rolled	X Wall Orientation
☐ Fitting	☐ Vinyl Sheet	☐ Popcorn	☐ Felt	☐ Ceiling
☐ Transite Pipe	☐ Mastic	☐ DWJC	☐ Tar	☐ Above Ceiling
☐ Gasket	**Wall**	☐ Plaster		☐ Other
☐ 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 #:	S007	**Date Sampled:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	003, room 1003	**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 (kitchen sink)
☐ Tank Insulation	☐ Transite Panel	☐ Acoustic Tile (Dropped)		
☐ Pipe Wrap	☐ Textured Wall	☐ Acoustic Tile (Glued-on)		
HVAC	☐ Plaster	☐ Mastic	Miscellaneous: Kitchen sink liner	
☐ Insulation	☐ DWJC	**Structural**		
☐ Tape		☐ Steel F. P. ing	No. of Phases: _____	
☐ Paper Wrap		☐ Deck F. P. ing	Colour: _____	



ASBESTOS BULK SAMPLING FORM

Sample #:	S008	**Date Sampled:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	008, room 1001A	**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 (sink)
☐ Tank Insulation	☐ Transite Panel	☐ Acoustic Tile (Dropped)		
☐ Pipe Wrap	☐ Textured Wall	☐ Acoustic Tile (Glued-on)		
HVAC	☐ Plaster	☐ Mastic	Miscellaneous: Sink liner	
☐ 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:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	010, room 1002A	**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 brown streaks	

ASBESTOS BULK SAMPLING FORM

Sample #:	S010	**Date Sampled:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	011, room 2007AB	**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	X Plaster	☐ Mastic	Miscellaneous: HWP	
☐ Insulation	☐ DWJC	**Structural**		
☐ Tape		☐ Steel F. P. ing	No. of Phases: _____	
☐ Paper Wrap		☐ Deck F. P. ing	Colour: _____	

MEMORIAL UNIVERSITY

ASBESTOS BULK SAMPLING FORM

Sample #:	S011	**Date Sampled:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	014, room 2012	**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 #:	S012	**Date Sampled:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	016, room 2006	**Analysis:**	SAI - PLM
MUN Project #:	02-02-900	**Work Order #:**	

Bulk Sampling Parameters

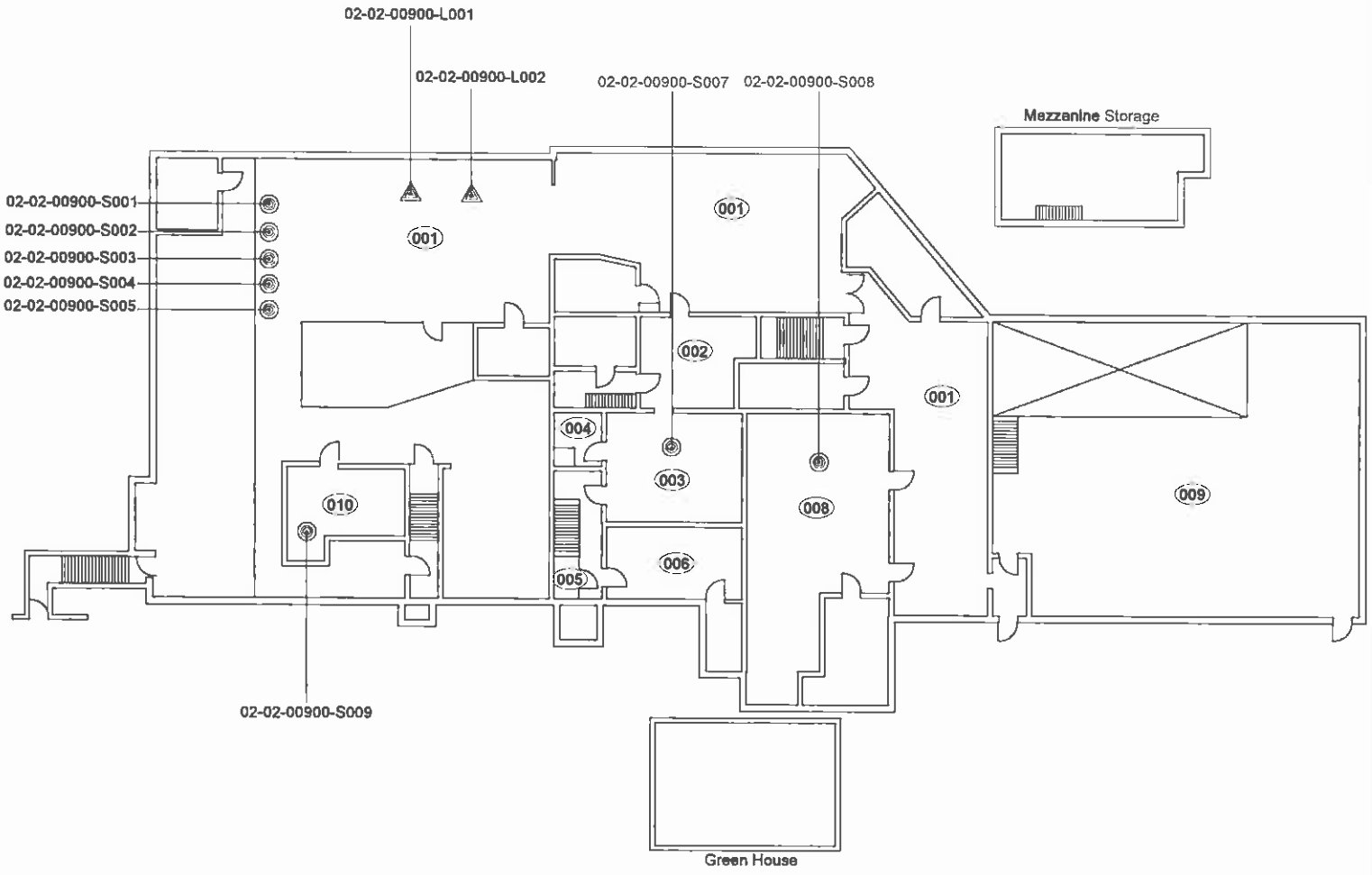
Pipe/Tank	Flooring	Ceiling	Roofing	Location
☐ Insulation	X12'x12' Tile	☐ Textured	☐ Shingle	X Floor
☐ Elbow	☐ 9'x9'Tile	☐ Stucco	☐ Rolled	☐ Wall Orientation
☐ Fitting	☐ Vinyl Sheet	☐ Popcorn	☐ Felt	☐ Ceiling
☐ Transite Pipe	☐ Mastic	☐ DWJC	☐ Tar	☐ Above Ceiling
☐ Gasket	**Wall**	☐ Plaster		☐ Other
☐ 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 thick brown streak	

ASBESTOS BULK SAMPLING FORM

Sample #:	S013	**Date Sampled:**	September 21, 2012
Building :	South Campus Boiler Plant	**Sampler:**	Trent Hardy Andy Mitchell
Location:	016, room 2006	**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 2' pinhole with small fissure	
☐ Insulation	☐ DWJC	**Structural**		
☐ Tape		☐ Steel F. P. ing	No. of Phases: _____	
☐ Paper Wrap		☐ Deck F. P. ing	Colour:	



PINCHIN LEBLANC ENVIRONMENTAL

LEGEND:

(XXX)	PINCHIN LOCATION NUMBER
◎	ASBESTOS SAMPLE ID NUMBER
▲	LEAD SAMPLE ID NUMBER
N/A	NOT ACCESSIBLE

CLIENT:

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

PROJECT:

ASBESTOS AND LEAD PAINT BUILDING MATERIALS SURVEY

SITE ADDRESS:

SOUTH BOILER PLANT,
ST. JOHN'S CAMPUS,
NEWFOUNDLAND AND LABRADOR

DRAWING NAME:

SAMPLE LOCATIONS
LEVEL 1

REFERENCE:

PLEL SITE SURVEY

DATE: OCTOBER 2012	PROJECT #: 02 - 02 - 00900
SCALE: N.T.S.	FIGURE #: 1
DRAWN BY: A. ANISCIKLI	
CHECKED BY: T. HARDY	