ASBESTOS AND LEAD PAINT BUILDING MATERIALS SURVEY FOR:
FIELD HALL
MEMORIAL UNIVERSITY OF NEWFOUNDLAND

Prepared for:

Memorial University of Newfoundland

St. John's, NL

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

June 19, 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: FIELD HALL

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

A summary of the findings for the Field Hall building (hereafter referred to as "Site Building") 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, tank insulation and ceiling stucco.
2. Paints containing greater than 600 mg/kg of lead were identified in the Site Building, specifically the green paint as observed on a door in Room PE-4001, the brown paint as observed in Room 3012, the green paint as observed in Room 2006 and the black paint as observed on the exterior.

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 Ltd. (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: FIELD HALL

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 February 27th, 2013. The survey, collection of representative bulk samples, and recording of information was performed by Mr. Andy Mitchell and Ms. Angela Stagg of 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 seventeen (17) representative bulk samples were collected for analysis for asbestos content. Multiple phases within various samples were analyzed independently, as a result, a total of twenty-one (21) analyses were performed.

A total of six (6) 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 sprayed or trowelled fireproofing and thermal insulation were observed.

3.2 Mechanical Insulation

Insulating cement, also referred to as "parging cement", present on pipe elbows and fittings was sampled in the site building and contains 30% Chrysotile asbestos (reference sample 02-02-900-S005). For locations and conditions of this material at the time of the building survey refer to location & data excel document.

Insulating cement, also referred to as "mag block", present on tanks was sampled in the site building and contains 20% chrysotile and 5% amosite asbestos (reference sample 02-02-900-S017). For locations and conditions of this material at the time of the building survey refer to location & data excel document.

Tar paper used on insulation was collected in the site building. Analysis of the sample did not identify the presence of asbestos (reference sample 02-02-900-S006).

Insulating insulation, also referred to as "Aircell" was collected from the basement (Room GH-001). Analysis of the sample did not identify the presence of asbestos (reference samples 02-02-900-S007-A and 02-02-900-S007-B).

3.3 Acoustic Ceiling Tiles

Two (2) samples were collected of acoustic ceiling tiles observed in the site building. A description of the ceiling tiles sample is summarized below:

- The 2"x4" acoustic ceiling tile distinguished with a deep pinhole square pattern was collected from Room GH-1000 (reference sample 02-02-900-S002). Analysis of the sample did not identify the presence of asbestos.

- The 2"x2" acoustic ceiling tile distinguished with a pinhole and fleck pattern was collected from Room GH-2019 (reference sample 02-02-900-S008). Analysis of the sample did not identify the presence of asbestos.

3.4 Drywall, Plaster, and Texture Finishes

Drywall 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 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.

Five (5) samples of drywall joint compound were collected in the site building. Analysis of these samples did not identify the presence of asbestos.

Two (2) samples of friable textured ceiling stucco were collected from Room GH-1000 and GH-2S01 . Multiple phases within the first sample were analyzed independently, as a result, a total of two (2) analyses were performed. Results identified the presence of 6% chrysotile asbestos (reference sample 02-02-900-S003-A) in the texture coat and 3% chrysotile asbestos (reference sample 02-02-900-S015). Analysis of the sample did not identify the presence of asbestos in the base portion of the sample. For locations and conditions of this material at the time of the building survey refer to location & data excel document.

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 these samples did not identify the presence of asbestos. A list of the two (2) visually different vinyl floor tiles is provided below:

- One (1) sample of the 12"x12" vinyl floor tile identified as green with grey flecks was collected from the laundry room (Room GH-2012). Analysis of the sample did not identify the presence of asbestos (reference samples 02-02-900-S009-A and 02-02-0900-S009-B).
- One (1) sample of the 12"x12" vinyl floor tile identified as green with white flecks was collected from the second floor hallway (Room GH-2C01 and 2C02). Analysis of the sample did not identify the presence of asbestos (reference samples 02-02-900-S010-A and 02-02-0900-S010-B).

3.5.2 Vinyl Sheet Flooring

Two (2) types of vinyl sheet flooring were observed in the site building. Analysis of the samples did not identify the presence of asbestos. A summary of the visually different non-asbestos containing vinyl sheet flooring is provided it the table below:

3.5.2.1 Non-Asbestos Containing Vinyl Sheet Flooring

Non-Asbestos Containing Vinyl Sheet Flooring **Field Hall**		
Sample Number	Location	Description
02-02-900-S004-A 02-02-900-S004-B	Room GH-1000	Green with White Streaks (flooring and mastic)
02-02-900-S012	Room GH-2005	Blue with White Streaks
For additional locations of these materials at the time of the building survey refer to location & data excel document (Location and Data Report).		

3.6 Asbestos Cement Products

No asbestos cement products were observed.

3.7 Vermiculite Insulation

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

4.0 LBP SURVEY FINDINGS

Analytical results indicate that two (2) 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%). The off white paint as observed in Room GH-1003 (reference sample 02-02-900-L004) contains 5.8% and the bluish grey paint as observed on the floor in Room GH-001 (reference sample 02-02-900-L005) contains 0.094% and the same paint colours located elsewhere, should be managed as lead-containing.

Results indicate that were detected, all other paint samples contain less than 0.06% lead.

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 and ceiling stucco.

1. Type III (high risk) asbestos abatement procedures should be carried out for the scheduled removal of greater than 1 ft^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 1 ft^2 of material.

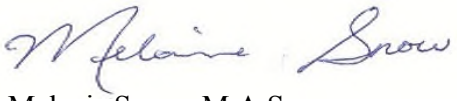
Lead Based Paints

Any painted surfaces visually matching the identified paint colors should be managed as lead containing and necessary precautions (i.e.: worker protection) should be employed prior to the disturbance to these materials.

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;



Melanie Snow, M.A.Sc.
Group Manager
Assessment & Remediation
msnow@pinchinleblanc.com

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: 1303840
Analysis ID: 1303840_PLM
Date Received: 3/5/2013
Date Reported: 3/8/2013

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
02-02-900-S001 / *1303840PLM_1*	DWJC	**None Detected**		**100% Other**	White, Non Fibrous, Homogeneous / Crushed
02-02-900-S002 / *1303840PLM_2*	2"x4" acoustic ceiling tile, deep pinhole square pattern	**None Detected**	**50% Cellulose** **30% Mineral Wool**	**10% Perlite** **10% Other**	White, Fibrous, Heterogeneous / Teased
02-02-900-S003 - A / *1303840PLM_3*	Textured cement *texture coat*	**6% Chrysotile**		**50% Perlite** **44% Other**	White, Fibrous, Heterogeneous / Crushed
02-02-900-S003 - B / *1303840PLM_15*	Textured cement *base*	**None Detected**		**70% Other** **30% Perlite**	Gray, Non Fibrous, Heterogeneous / Crushed
02-02-900-S004 - A / *1303840PLM_4*	vinyl sheet flooring, green with white streaks *sheet flooring*	**None Detected**		**100% Other**	Green, Non Fibrous, Homogeneous / Ashed
02-02-900-S004 - B / *1303840PLM_16*	vinyl sheet flooring, green with white streaks *mastic*	**None Detected**		**100% Other**	Yellow, Non Fibrous, Homogeneous / Dissolved
02-02-900-S005 / *1303840PLM_5*	parging cement	**30% Chrysotile**		**70% Other**	White, Fibrous, Homogeneous / Teased
02-02-900-S006 / *1303840PLM_6*	tar paper on pipe	**None Detected**	**10% Cellulose** **10% Fiber Glass**	**80% Other**	Black, Non Fibrous, Heterogeneous / Dissolved

Sharon Donald (19)

Analyst

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

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Paul Staeben

Project: 02-02-00900

Lab Order ID: 1303840
Analysis ID: 1303840_PLM
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Date Reported: 3/8/2013

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
02-02-900-S007 - A	aircell insulation	None Detected	70% Cellulose	30% Other	Black Fibrous Heterogeneous
1303840PLM_7	*felt*				Teased
02-02-900-S007 - B	aircell insulation	None Detected	90% Cellulose	10% Other	Brown Fibrous Heterogeneous
1303840PLM_17	*paper layers*				Teased
02-02-900-S008	2"x2" acoustic ceiling tiles, pinhole with fleck	None Detected	50% Cellulose 30% Mineral Wool	10% Perlite 10% Other	White Fibrous Heterogeneous
1303840PLM_8					Teased
02-02-900-S009 - A	12"x12" vinyl floor tiles, green with grey fleck	None Detected		100% Other	Green Non Fibrous Heterogeneous
1303840PLM_9	*tile*				Dissolved
02-02-900-S009 - B	12"x12" vinyl floor tiles, green with grey fleck	None Detected		100% Other	Black Non Fibrous Homogeneous
1303840PLM_18	*mastic*				Dissolved
02-02-900-S010 - A	12"x12" vinyl floor tiles, line green with white fleck	None Detected		100% Other	Green Non Fibrous Heterogeneous
1303840PLM_10	*tile*				Dissolved
02-02-900-S010 - B	12"x12" vinyl floor tiles, line green with white fleck	None Detected		100% Other	Black Non Fibrous Homogeneous
1303840PLM_19	*mastic*				Dissolved
02-02-900-S011	DWJC	None Detected		100% Other	White Non Fibrous Homogeneous
1303840PLM_11					Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommended that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Sharon Donald (19)

Analyst

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: 1303840
Analysis ID: 1303840_PLM
Date Received: 3/5/2013
Date Reported: 3/8/2013

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
02-02-900-S012 *1303840PLM_12*	vinyl sheet flooring, blue with white streaks	**None Detected**		**100% Other**	Blue Non Fibrous Heterogeneous Dissolved
02-02-900-S013 *1303840PLM_13*	DWJC	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
02-02-900-S014 *1303840PLM_14*	DWJC	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed

Sharon Donald (19)

Analyst

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: Field Hall; 02-02-00900

Lab Order ID: 1308149
Analysis ID: 1308149_PLM
Date Received: 5/2/2013
Date Reported: 5/7/2013

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
02-02-900-S0015 *1308149PLM_1*	Textured Ceiling Coat	**3% Chrysotile**		**77% Other** **20% Perlite**	White Fibrous Heterogeneous Teased
02-02-900-S0016 *1308149PLM_2*	Drywall Joint Compound	**None Detected**		**100% Other**	White Non Fibrous Heterogeneous Teased
02-02-900-S0017 *1308149PLM_3*	Tank Insulation	**20% Chrysotile** **5% Amosite**		**75% Other**	Gray, White Fibrous Heterogeneous Teased

Ired Gulley (3)

Analyst

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 LAB #173190

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: 1303843
Analysis ID: 1303843_PBP
Date Received: 3/5/2013
Date Reported: 3/7/2013

Sample ID *Lab Sample ID*	Description *Lab Notes*	Mass *(g)*	Analytical Sensitivity *(% by weight)*	Concentration *(% by weight)*
02-02-900-L001 1303843PBP_1	chocolate brown	0.0636	0.002%	**< 0.006%**
02-02-900-L002 1303843PBP_2	brown	0.0504	0.003%	**< 0.008%**
02-02-900-L003 1303843PBP_3	orange	0.0696	0.002%	**< 0.006%**
02-02-900-L004 1303843PBP_4	off white	0.0765	0.011%	**5.8%**
02-02-900-L005 1303843PBP_5	blueish grey floor paint	0.0535	0.003%	**0.094%**
02-02-900-L006 1303843PBP_6	green wall paint	0.0483	0.003%	**< 0.008%**

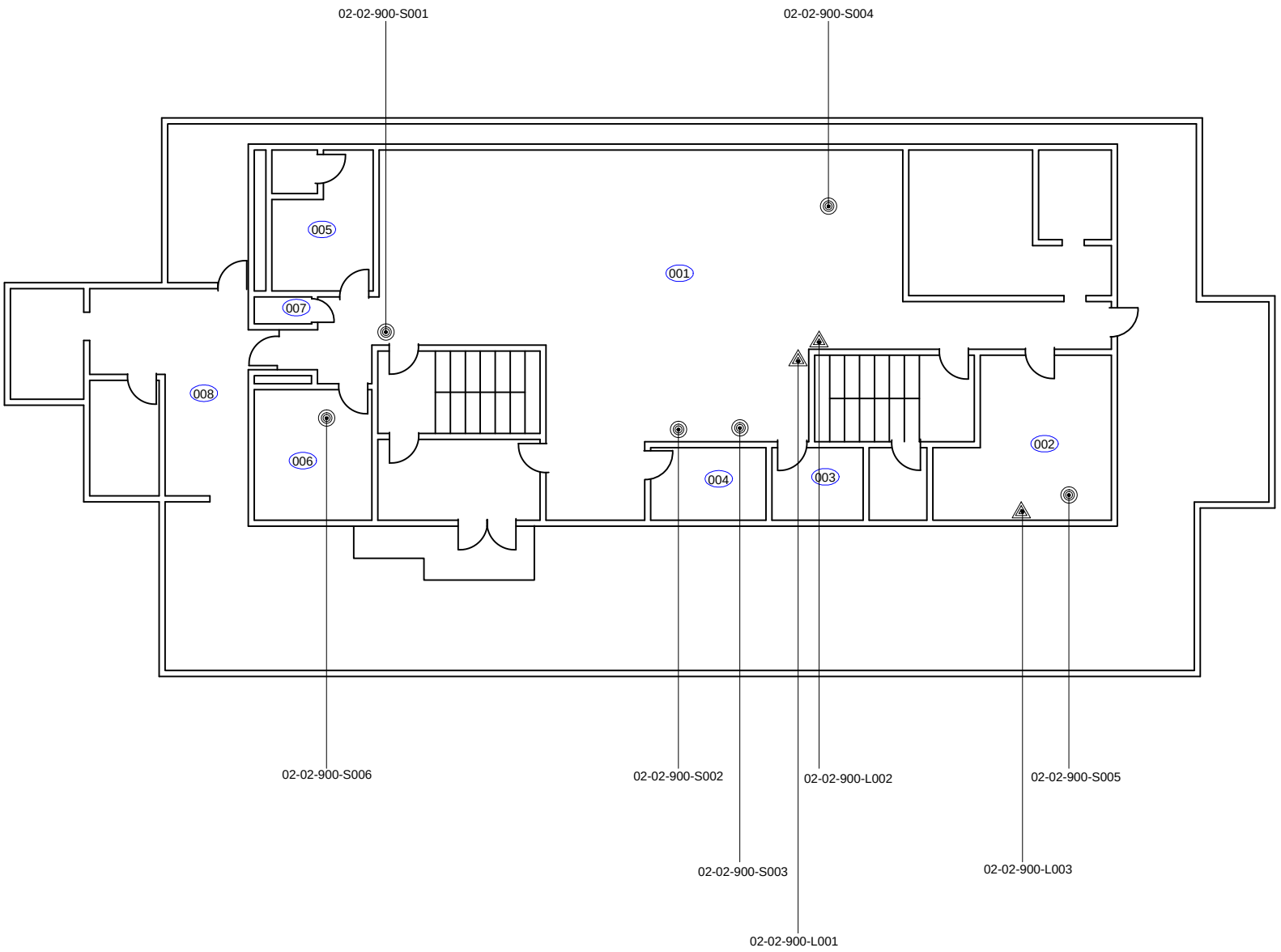
Robert Duke (6)

Analyst

Laboratory Director

APPENDIX III

SITE DRAWINGS



PINCHIN LEBLANC ENVIRONMENTAL

LEGEND:

XXX PINCHIN LOCATION NUMBER

ASBESTOS SAMPLE ID NUMBER

LEAD SAMPLE ID NUMBER

N

CLIENT:

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

PROJECT:

ASBESTOS AND LEAD PAINT BUILDING MATERIALS SURVEY

SITE ADDRESS:

FIELD HALL BUILDING,
ST. JOHN'S CAMPUS,
NEWFOUNDLAND AND LABRADOR

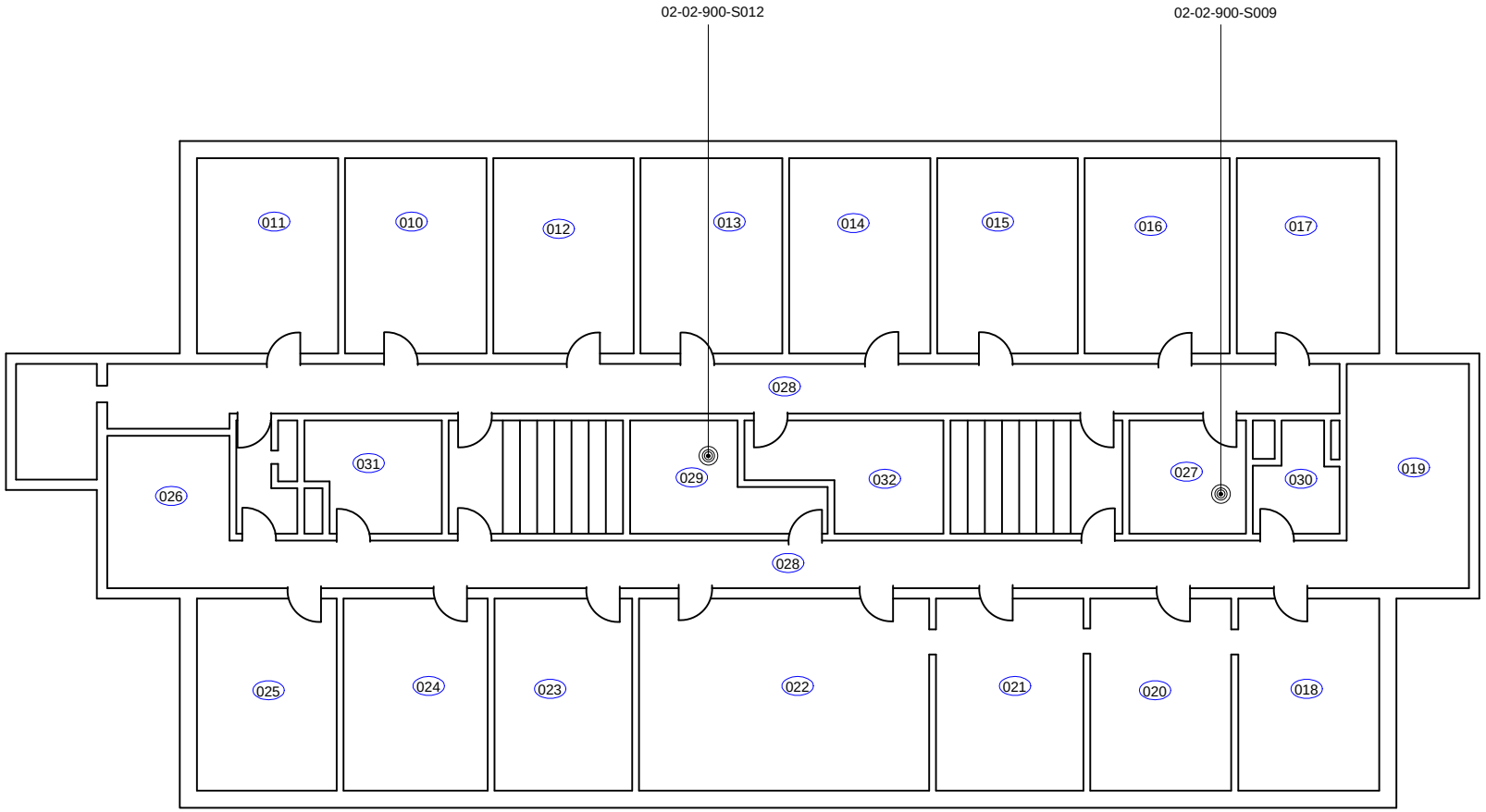
DRAWING NAME:

SAMPLE LOCATIONS
LEVEL 1

REFERENCE:

PLEL SITE SURVEY

DATE:	PROJECT #:
MARCH 2013	02 - 02 - 00900
SCALE: N.T.S.	FIGURE #: 1
DRAWN BY: A. ANISCIKLI	
CHECKED BY: P. STAEBEN	



PINCHIN LEBLANC ENVIRONMENTAL

LEGEND:

XXX PINCHIN LOCATION NUMBER

ASBESTOS SAMPLE ID NUMBER

N

CLIENT:

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

PROJECT:

ASBESTOS AND LEAD PAINT BUILDING MATERIALS SURVEY

SITE ADDRESS:

FIELD HALL BUILDING,
ST. JOHN'S CAMPUS,
NEWFOUNDLAND AND LABRADOR

DRAWING NAME:

SAMPLE LOCATIONS
LEVEL 2

REFERENCE:

PLEL SITE SURVEY

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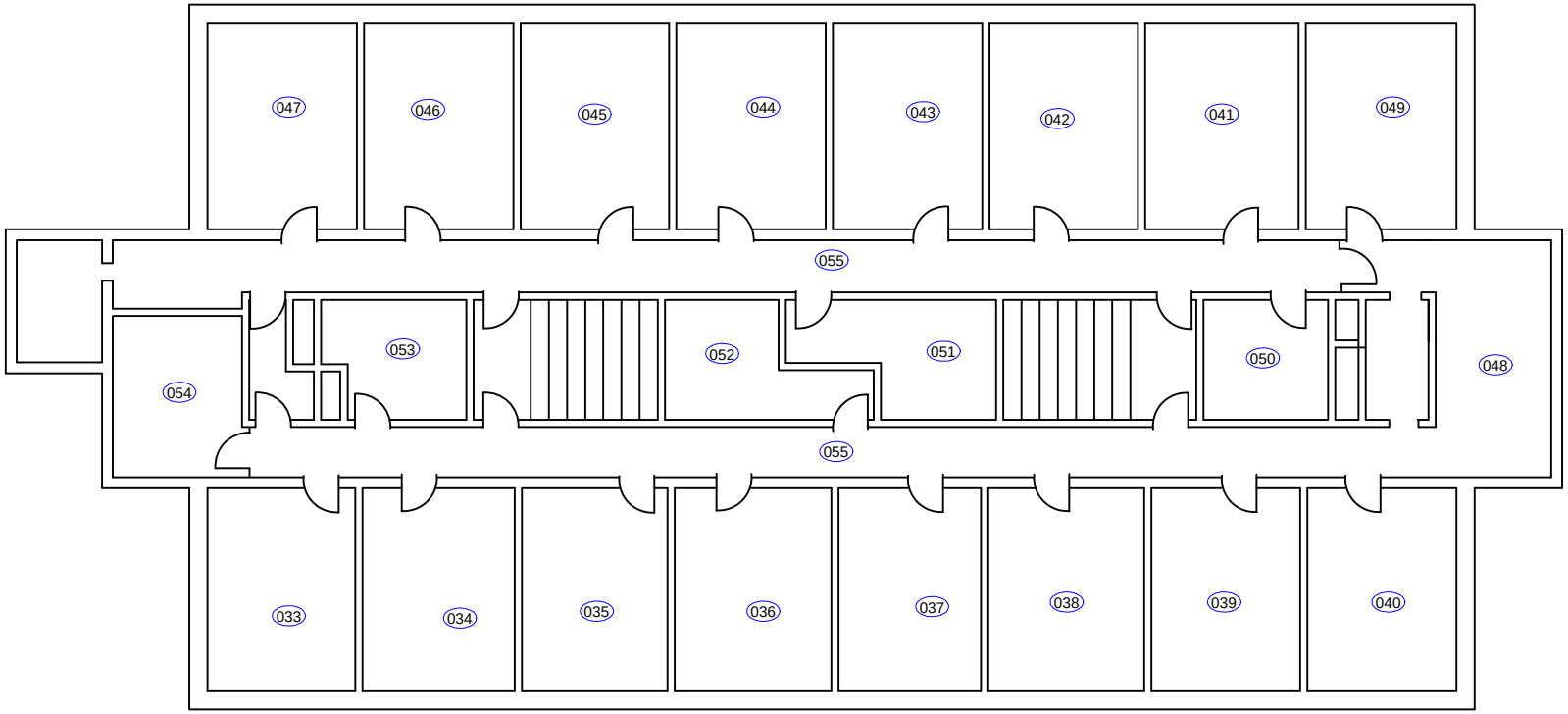
DRAWN BY: A. ANISCIKLI	
CHECKED BY: P. STAEBEN	



PINCHIN LEBLANC ENVIRONMENTAL

LEGEND:

XXX PINCHIN LOCATION NUMBER

N

CLIENT:

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

PROJECT:

ASBESTOS AND LEAD PAINT BUILDING MATERIALS SURVEY

SITE ADDRESS:

FIELD HALL BUILDING,
ST. JOHN'S CAMPUS,
NEWFOUNDLAND AND LABRADOR

DRAWING NAME:

SAMPLE LOCATIONS
LEVEL 3

REFERENCE:

PLEL SITE SURVEY

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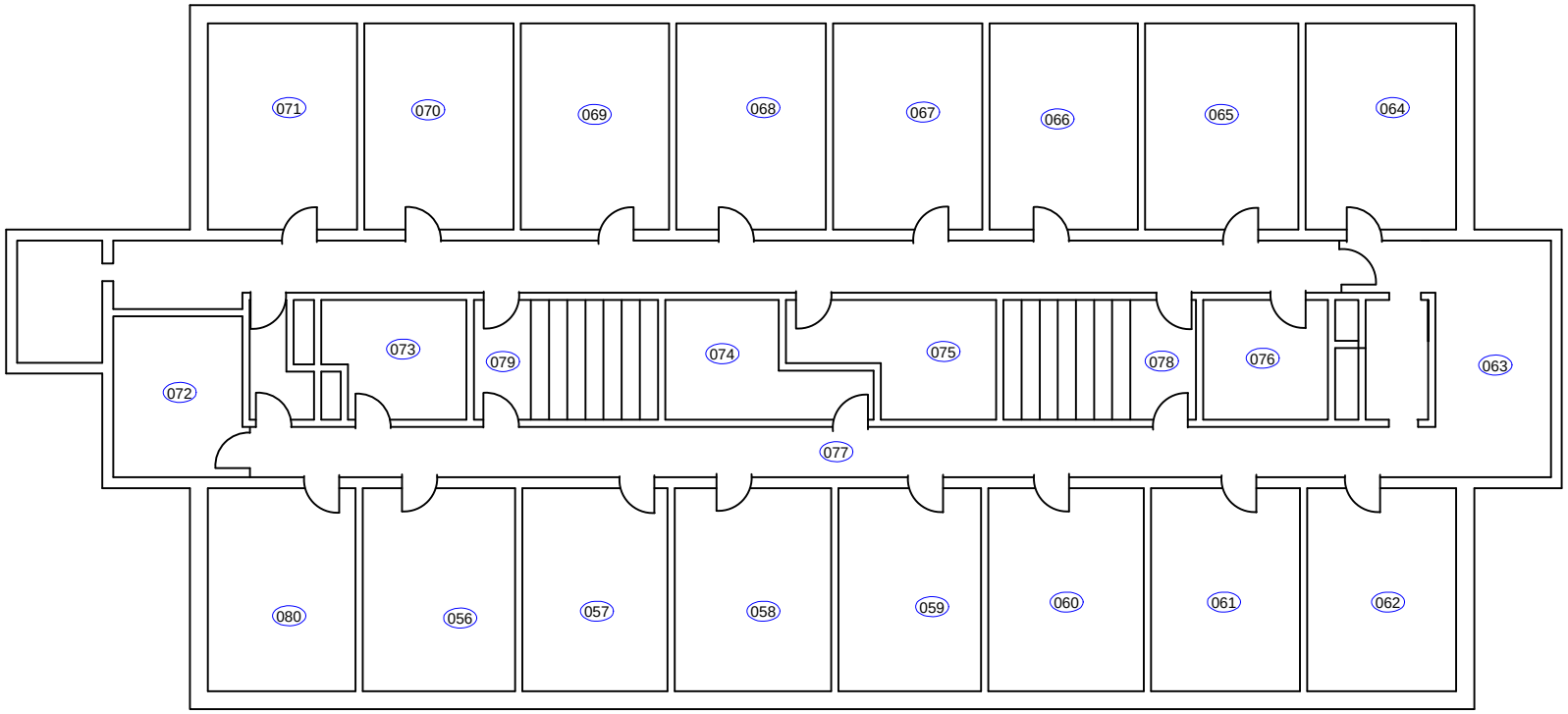
DRAWN BY: A. ANISCIKLI	
CHECKED BY: P. STAEBEN	



PINCHIN LEBLANC ENVIRONMENTAL

LEGEND:

XXX PINCHIN LOCATION NUMBER

N

CLIENT:

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

PROJECT:

ASBESTOS AND LEAD PAINT BUILDING MATERIALS SURVEY

SITE ADDRESS:

FIELD HALL BUILDING,
ST. JOHN'S CAMPUS,
NEWFOUNDLAND AND LABRADOR

DRAWING NAME:

SAMPLE LOCATIONS
LEVEL 4

REFERENCE:

PLEL SITE SURVEY

DATE:	PROJECT #:
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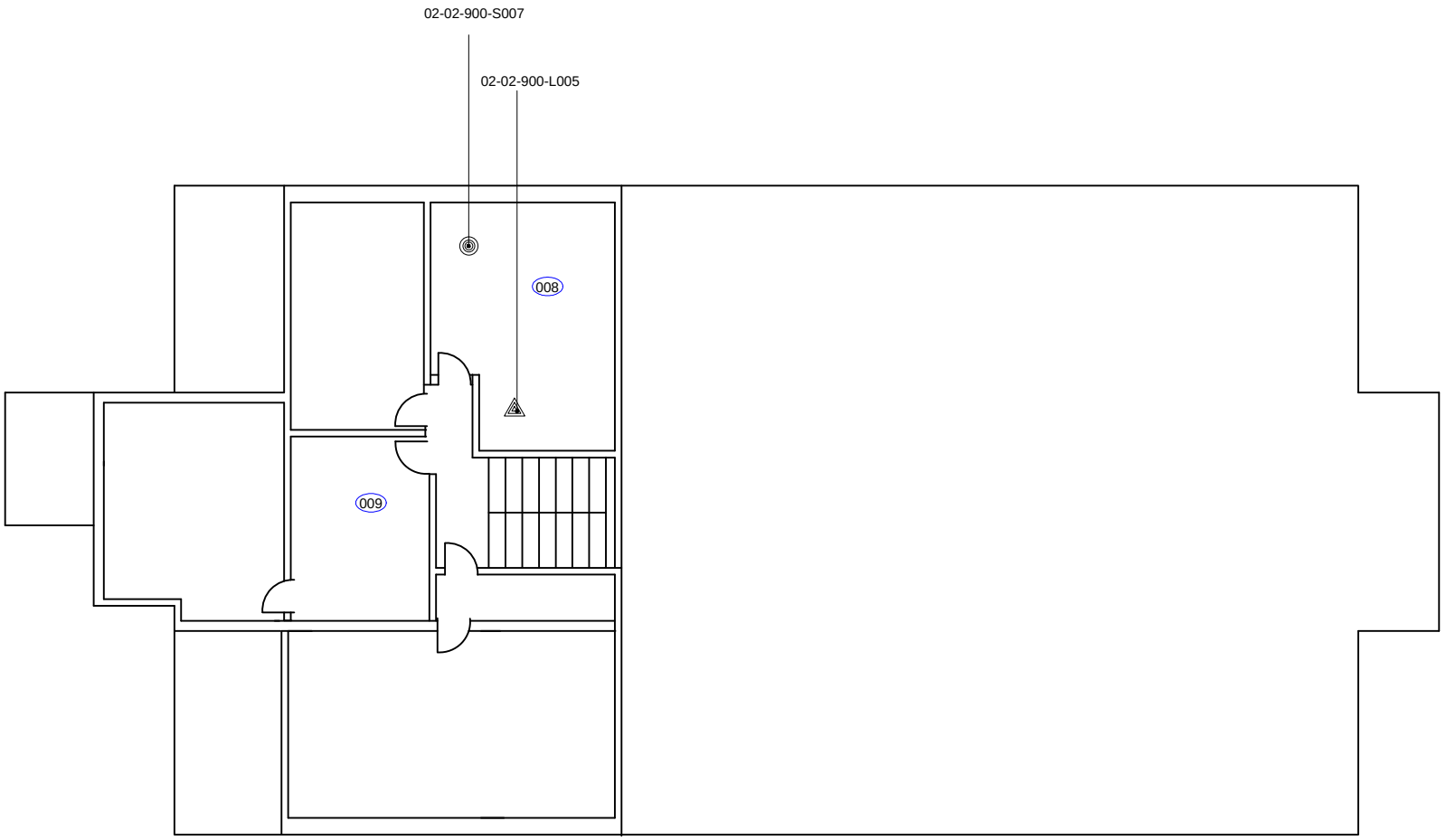
CHECKED BY: P. STAEBEN	



PINCHIN LEBLANC ENVIRONMENTAL

LEGEND:

XXX PINCHIN LOCATION NUMBER

ASBESTOS SAMPLE ID NUMBER

LEAD SAMPLE ID NUMBER

N

CLIENT:

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

PROJECT:

ASBESTOS AND LEAD PAINT BUILDING MATERIALS SURVEY

SITE ADDRESS:

FIELD HALL BUILDING,
ST. JOHN'S CAMPUS,
NEWFOUNDLAND AND LABRADOR

DRAWING NAME:

SAMPLE LOCATIONS
BASEMENT

REFERENCE:

PLEL SITE SURVEY

DATE:	PROJECT #:
MARCH 2013	02 - 02 - 00900
SCALE: N.T.S.	FIGURE #: 5
DRAWN BY: A. ANISCIKLI	
CHECKED BY: P. STAEBEN	

APPENDIXI V

PHOTO SAMPLE LOG

ASBESTOS BULK SAMPLING FORM

Sample #:	S001	**Date Sampled:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	001, room 1000	**Analysis:**	SAI - PLM
MUN Project #:	02-02-900	**Work Order #:**	

Bulk Sampling Parameters

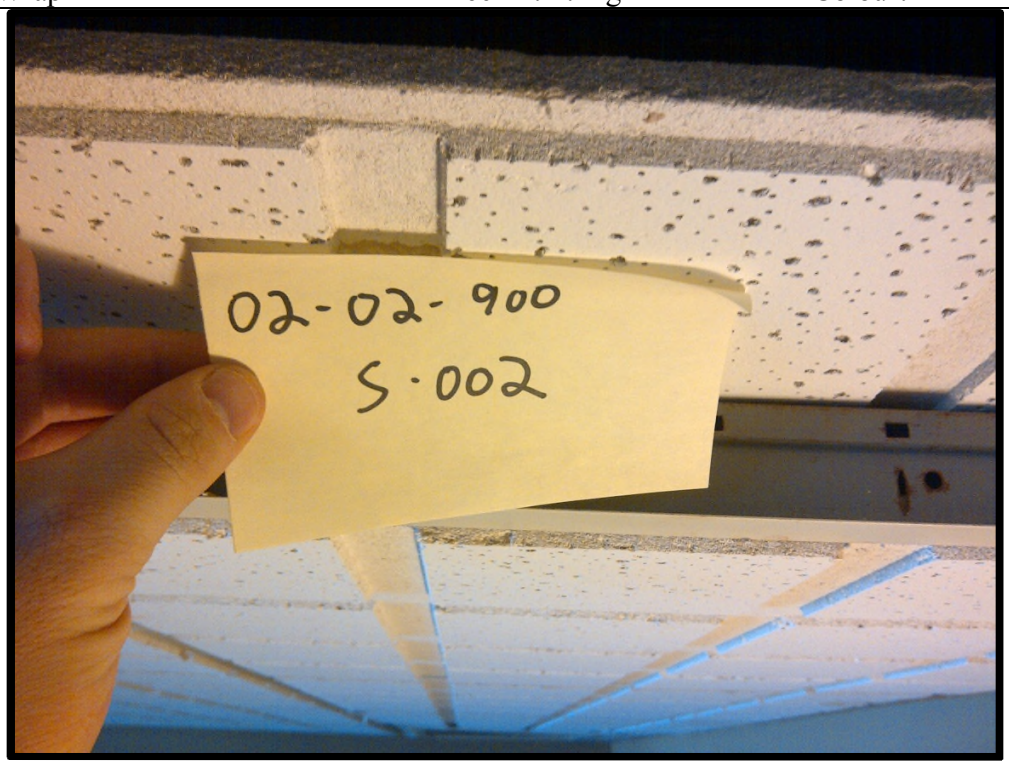
Pipe/Tank	Flooring	Ceiling	Roofing	Location
☐ Insulation	☐12'x12' Tile	☐ Textured	☐ Shingle	☐ Floor
☐ Elbow	☐ 9'x9'Tile	☐ Stucco	☐ Rolled	X Wall Orientation
☐ Fitting	☐ Vinyl Sheet	☐ Popcorn	☐ Felt	☐ Ceiling
☐ Transite Pipe	☐ Mastic	☐ DWJC	☐ Tar	☐ Above Ceiling
☐ Gasket	**Wall**	☐ Plaster		☐ Other
☐ Tank Insulation	☐ Transite Panel	☐ Acoustic Tile (Dropped)		
☐ Pipe Wrap	☐ Textured Wall	☐ Acoustic Tile (Glued-on)		
HVAC	☐ Plaster	☐ Mastic	Miscellaneous: No picture	
☐ Insulation	X 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:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	001, room 1000	**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 square	
☐ 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:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	001, room 1000	**Analysis:**	SAI - PLM
MUN Project #:	02-02-900	**Work Order #:**	

Bulk Sampling Parameters

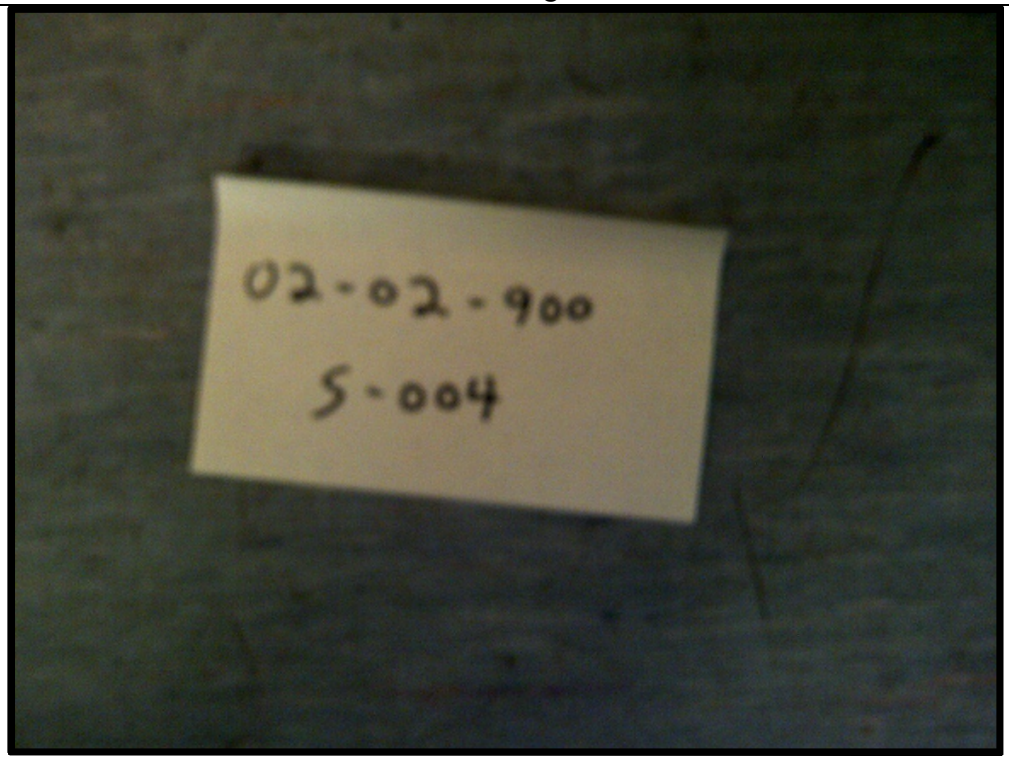
Pipe/Tank	Flooring	Ceiling	Roofing	Location
☐ Insulation	☐12'x12' Tile	☐ Textured	☐ Shingle	☐ Floor
☐ Elbow	☐ 9'x9'Tile	☐ Stucco	☐ Rolled	☐ Wall Orientation
☐ Fitting	☐ Vinyl Sheet	☐ Popcorn	☐ Felt	☐ Ceiling
☐ Transite Pipe	☐ Mastic	☐ DWJC	☐ Tar	X Above Ceiling
☐ Gasket	**Wall**	☐ Plaster		☐ Other
☐ Tank Insulation	☐ Transite Panel	☐ Acoustic Tile (Dropped)		
☐ Pipe Wrap	☐ Textured Wall	☐ Acoustic Tile (Glued-on)		
HVAC	☐ Plaster	☐ Mastic	Miscellaneous: Textured cement	
☐ 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:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	001, room 1000	**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: Green with white streaks	

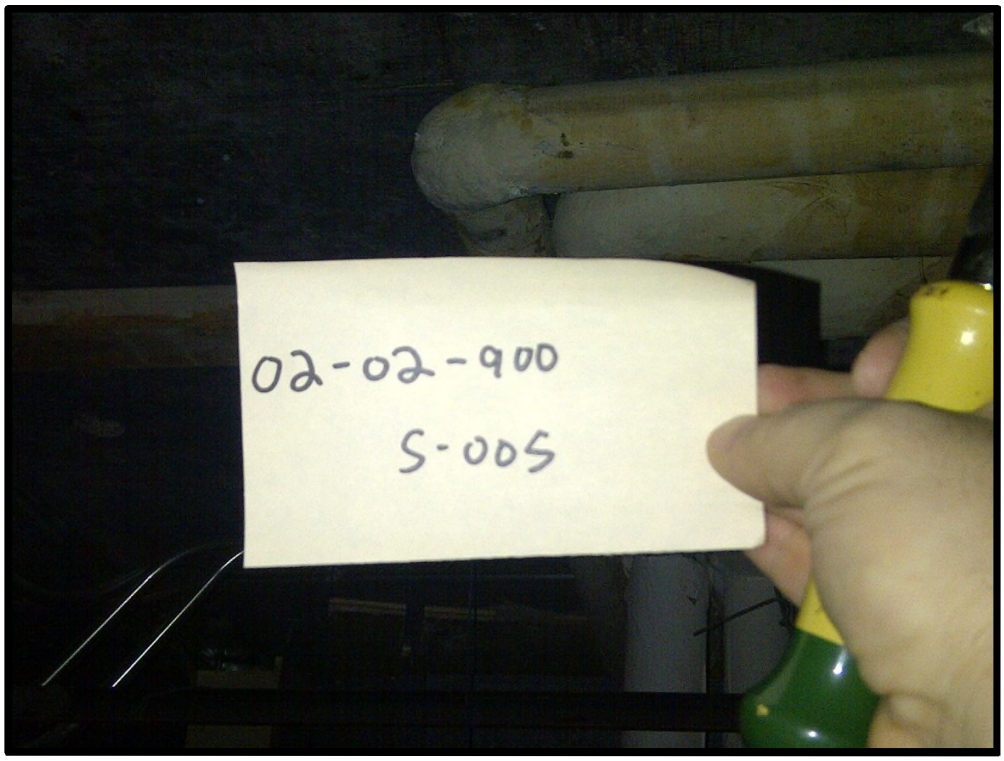


ASBESTOS BULK SAMPLING FORM

Sample #:	S005	**Date Sampled:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	002, 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
X Elbow	☐ 9'x9'Tile	☐ Stucco	☐ Rolled	☐ Wall Orientation
☐ Fitting	☐ Vinyl Sheet	☐ Popcorn	☐ Felt	☐ Ceiling
☐ Transite Pipe	☐ Mastic	☐ DWJC	☐ Tar	X 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: _____	

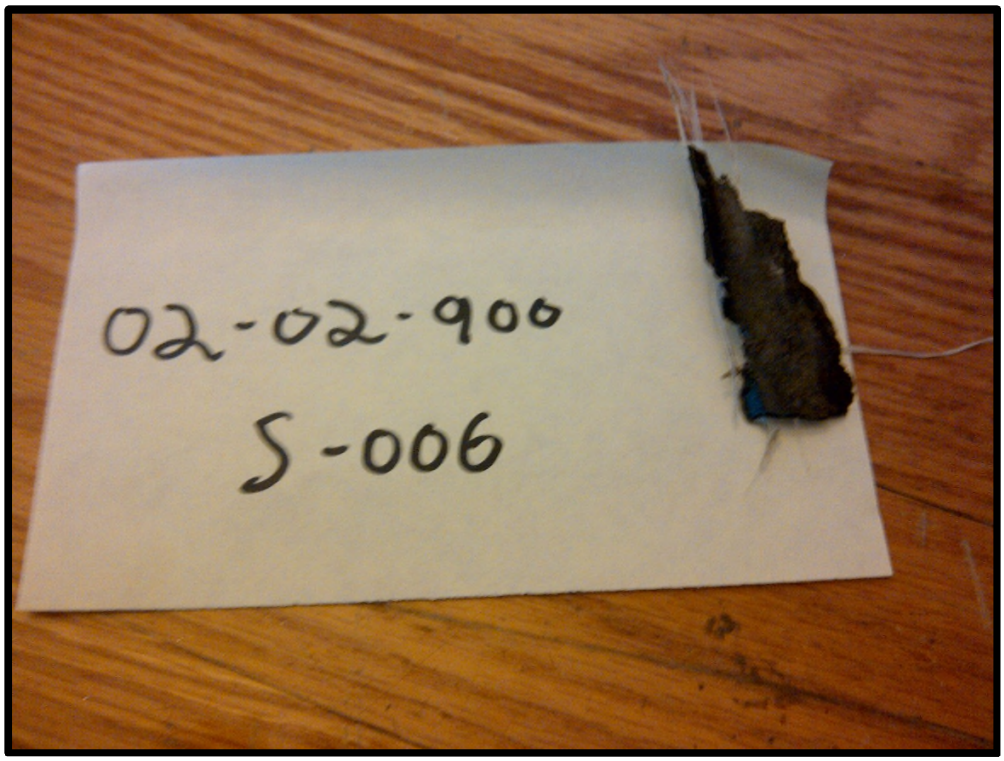


ASBESTOS BULK SAMPLING FORM

Sample #:	S006	**Date Sampled:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	006, room 1008	**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	X 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 Paper	
☐ Insulation	☐ DWJC	**Structural**		
☐ Tape		☐ Steel F. P. ing	No. of Phases: _____	
☐ Paper Wrap		☐ Deck F. P. ing	Colour: _____	

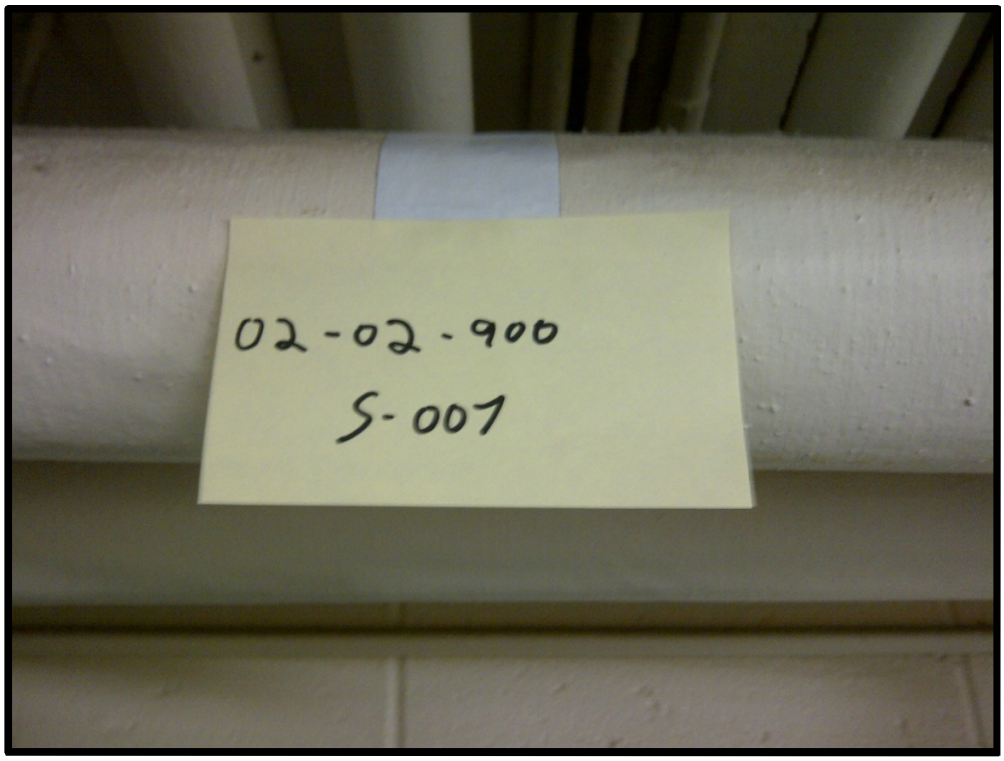


ASBESTOS BULK SAMPLING FORM

Sample #:	S007	**Date Sampled:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	008, room 001	**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
☐ Elbow	☐ 9'x9'Tile	☐ Stucco	☐ Rolled	☐ Wall Orientation
☐ Fitting	☐ Vinyl Sheet	☐ Popcorn	☐ Felt	☐ Ceiling
☐ Transite Pipe	☐ Mastic	☐ DWJC	☐ Tar	X 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: Air Cell	
☐ Insulation	☐ DWJC	**Structural**		
☐ Tape		☐ Steel F. P. ing	No. of Phases: _____	
☐ Paper Wrap		☐ Deck F. P. ing	Colour: _____	

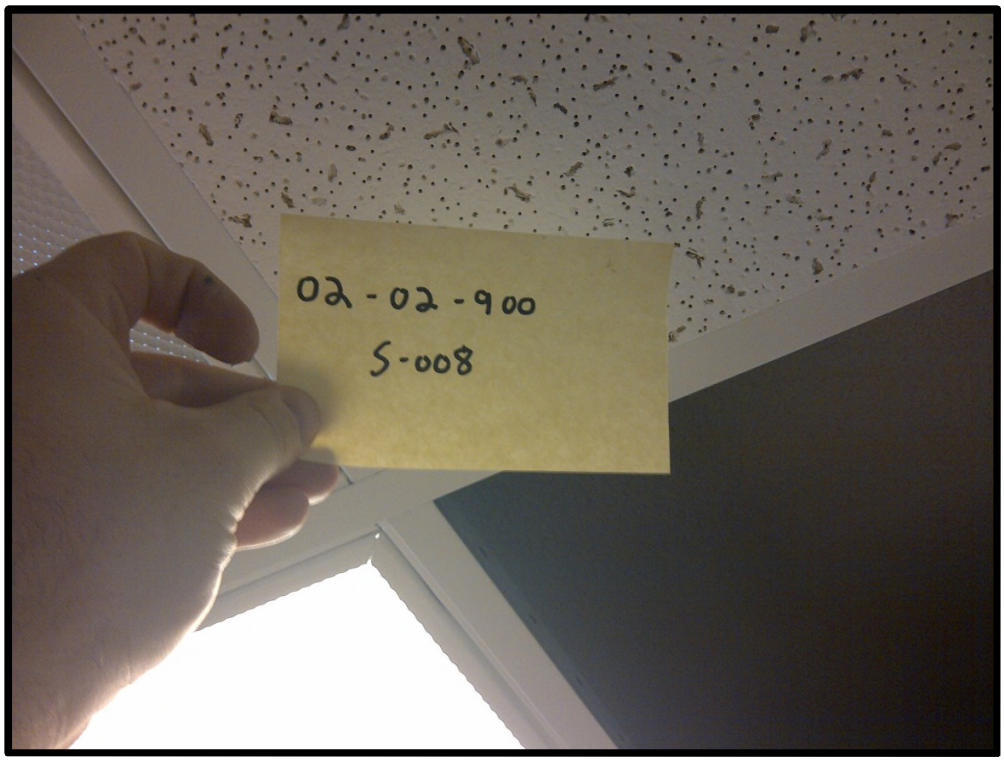


ASBESTOS BULK SAMPLING FORM

Sample #:	S008	**Date Sampled:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	010, room 2019	**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 fleck	
☐ Insulation	☐ DWJC	**Structural**		
☐ Tape		☐ Steel F. P. ing	No. of Phases: _____	
☐ Paper Wrap		☐ Deck F. P. ing	Colour: _____	

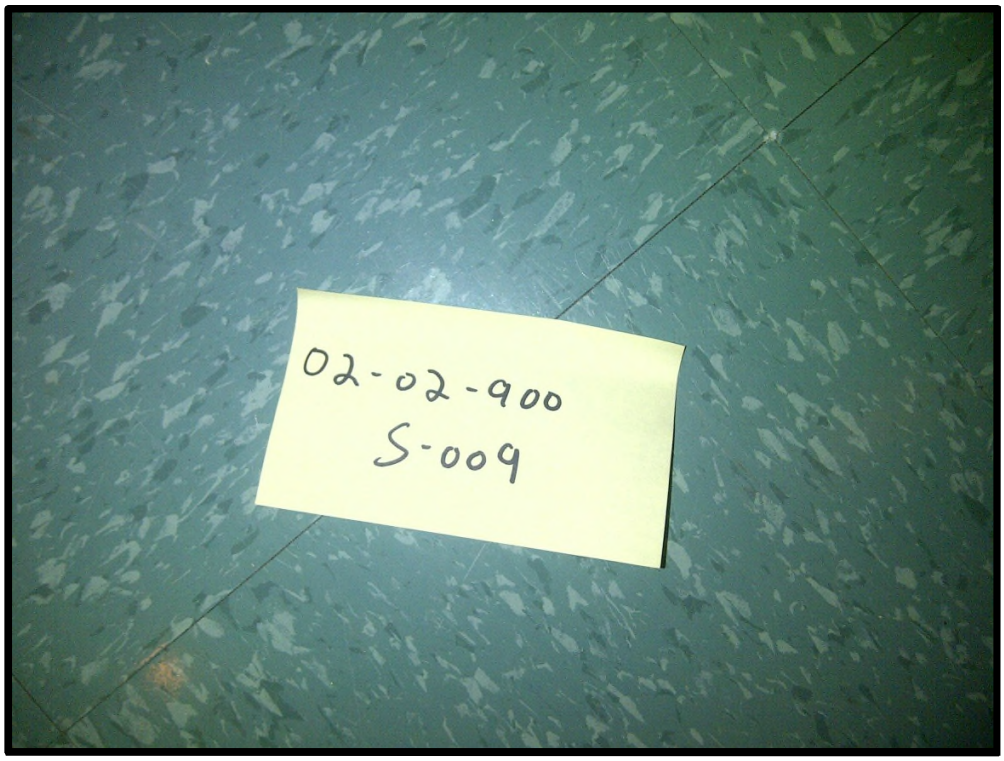


ASBESTOS BULK SAMPLING FORM

Sample #:	S009	**Date Sampled:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	027, room 2012	**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: Green with light fleck	

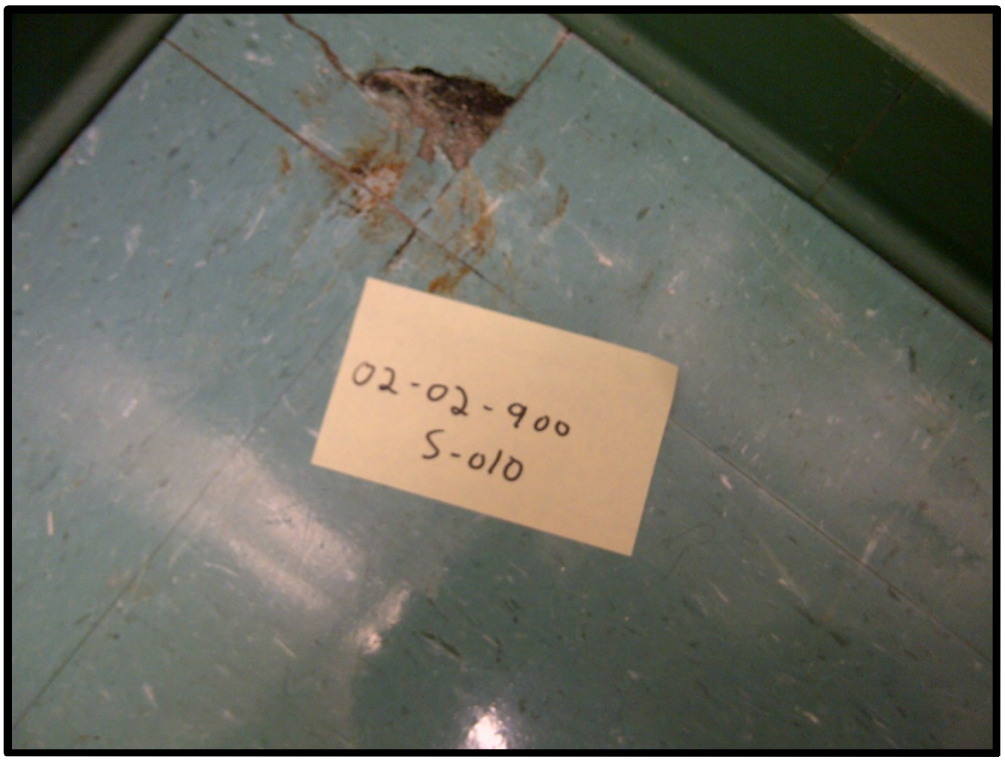


ASBESTOS BULK SAMPLING FORM

Sample #:	S010	**Date Sampled:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	028, room 1C01	**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: Light green with light fleck	

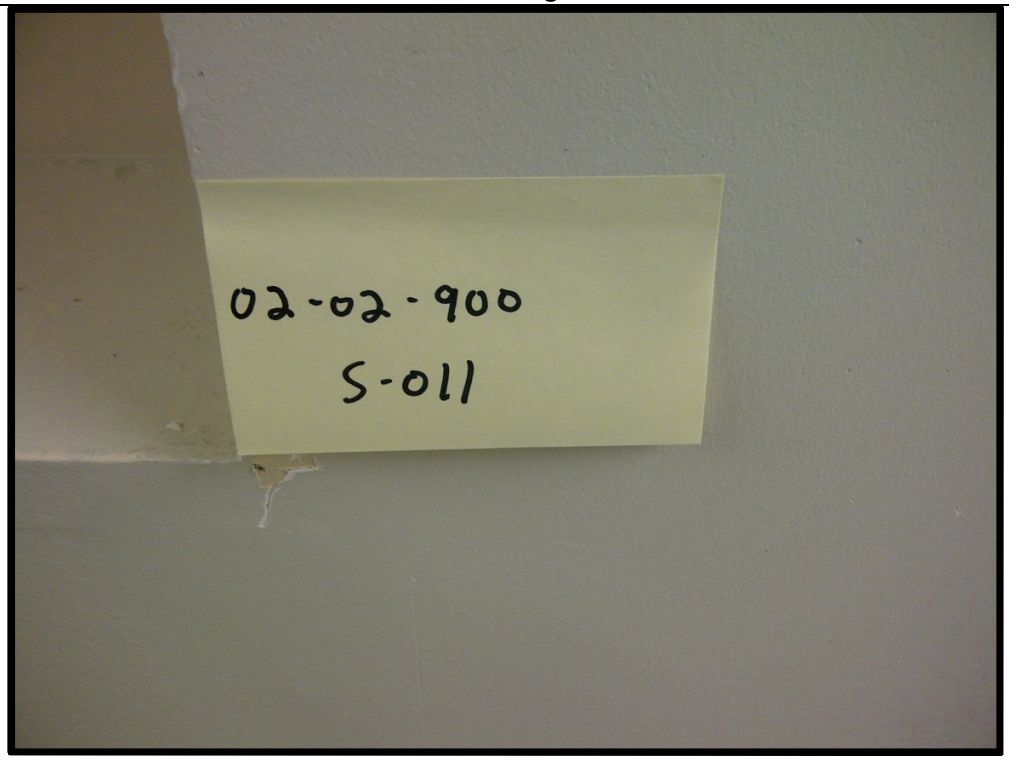


ASBESTOS BULK SAMPLING FORM

Sample #:	S011	**Date Sampled:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	028, room 2C01	**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:	

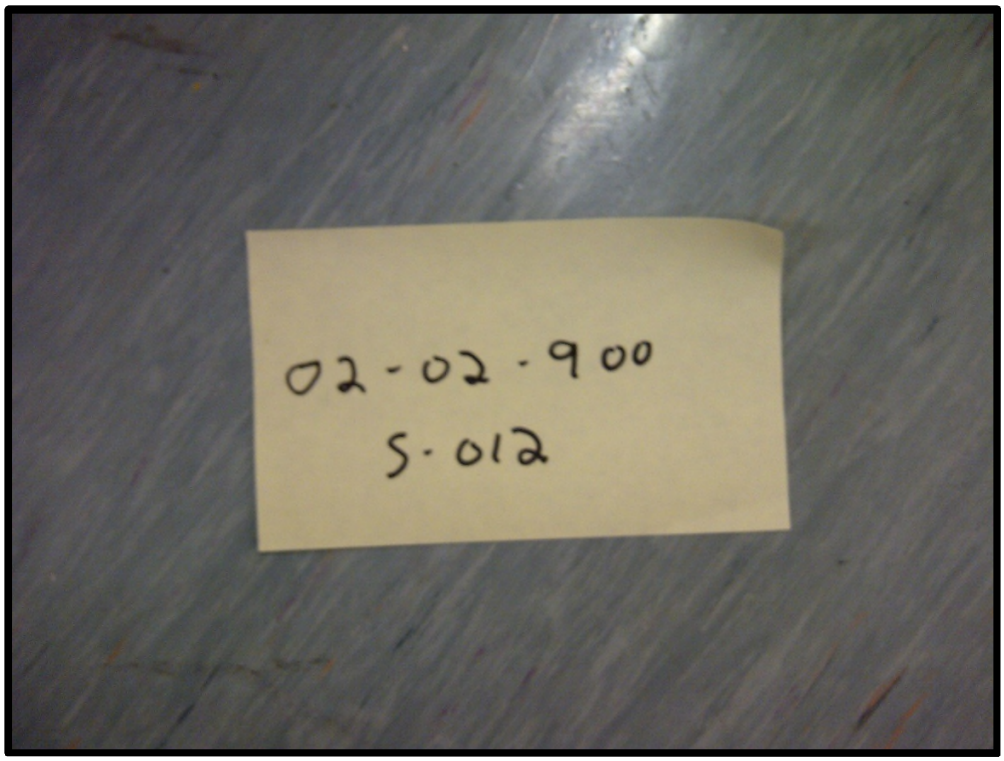


ASBESTOS BULK SAMPLING FORM

Sample #:	S012	**Date Sampled:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	029, hallway 2005	**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: Blue with light streaks	



ASBESTOS BULK SAMPLING FORM

Sample #:	S013	**Date Sampled:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	048, room 3010	**Analysis:**	SAI - PLM
MUN Project #:	02-02-900	**Work Order #:**	

Bulk Sampling Parameters

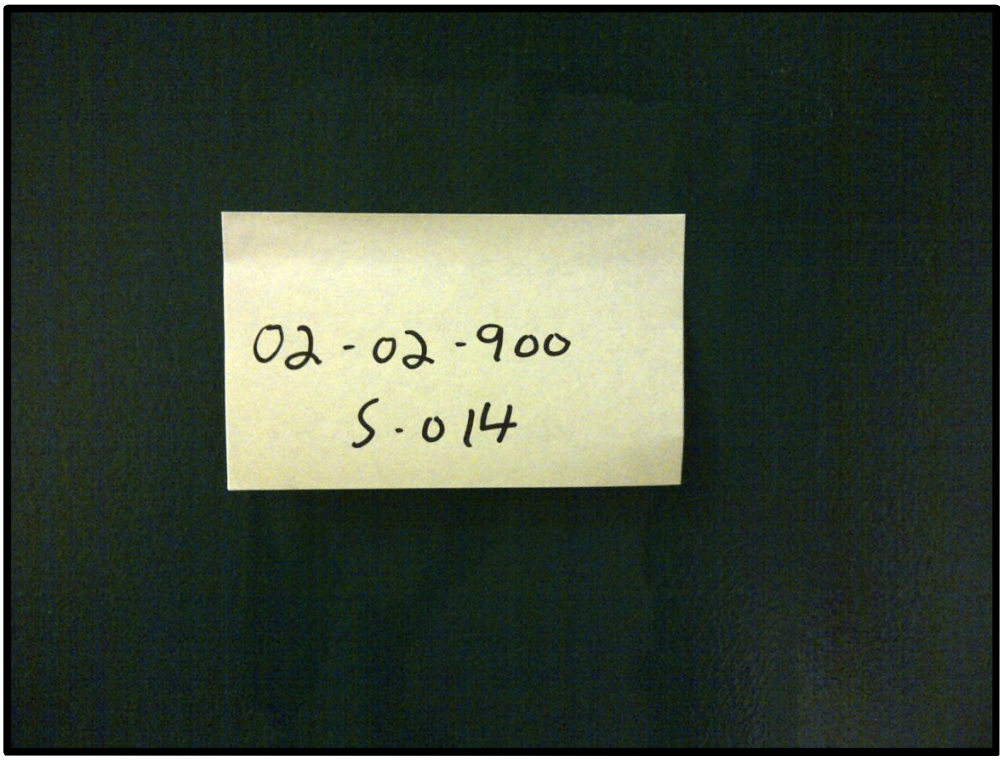
Pipe/Tank	Flooring	Ceiling	Roofing	Location
☐ Insulation	☐12'x12' Tile	☐ Textured	☐ Shingle	☐ Floor
☐ Elbow	☐ 9'x9'Tile	☐ Stucco	☐ Rolled	X Wall Orientation
☐ Fitting	☐ Vinyl Sheet	☐ Popcorn	☐ Felt	☐ Ceiling
☐ Transite Pipe	☐ Mastic	☐ DWJC	☐ Tar	☐ Above Ceiling
☐ Gasket	**Wall**	☐ Plaster		☐ Other
☐ Tank Insulation	☐ Transite Panel	☐ Acoustic Tile (Dropped)		
☐ Pipe Wrap	☐ Textured Wall	☐ Acoustic Tile (Glued-on)		
HVAC	☐ Plaster	☐ Mastic	Miscellaneous: No picture	
☐ 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:**	August 8, 2012
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	078, room 4S02	**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 #:	S015	**Date Sampled:**	May 2, 2013
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	Room 2S01	**Analysis:**	SAI - PLM
MUN Project #:	02-02-900	**Work Order #:**	

Bulk Sampling Parameters

Pipe/Tank	Flooring	Ceiling	Roofing	Location
☐ Insulation	☐12'x12' Tile	X 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	☐ 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 #:	S016	**Date Sampled:**	May 2, 2013
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	1S01	**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 #:	S017	**Date Sampled:**	May 2, 2013
Building :	Field Hall	**Sampler:**	Trent Hardy
Location:	Room 004	**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
X 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: _____