

Joyce Ackerman  
On-Scene Coordinator  
U.S. Environmental Protection Agency Region 8  
1595 Wynkoop St.  
Denver, CO 80202

**Subject: Selfridge Abandoned Buildings  
Selfridge, Sioux County, North Dakota  
TD No: 207-2110-07**

Dear Ms. Ackerman,

Tetra Tech, Inc. (Tetra Tech) is pleased to submit the following trip report for the Selfridge Abandoned Buildings Project in Selfridge, Sioux County, North Dakota (Figure 1, Appendix A). On November 9, 2021, the Superfund Technical Assessment Response Team (START) conducted asbestos site sampling and evaluation at the following properties (Figures 2 through 5 Appendix A):

- City Auditorium
- Legion Hall
- Old Motel
- Old Implement Dealer

START was tasked with removal-related support, including sampling for potential asbestos in vacant, former commercial buildings in Selfridge, North Dakota (Figures 2 through 5, Appendix A). As requested by the Environmental Protection Agency (EPA) On-Scene Coordinator (OSC) and as stated in the approved Sampling, Monitoring, and Analysis Plan (SMAP), the sampling protocol did not fully align with the Asbestos Hazard Emergency Response Act (AHERA) guidelines. A full asbestos inspection was not completed; however, START used a combination of search sampling and biased/judgmental sampling to identify and collect suspect asbestos-containing materials (ACM) within the structures. The EPA defines ACM as any material containing greater than 1% asbestos.

Samples of suspect ACM were collected at the four properties identified above. Samples were sent to Eurofins EMLab P&K for analysis by polarized light microscopy (PLM).

Photos of the properties and sampled materials are shown in Appendix B (Photographic Log). A previous contractor conducted asbestos surveys at the old motel and city auditorium. These survey reports identified ACM and are included in Appendix C (Previous Survey Reports). START confirmed and photographed the previously identified ACM. Samples were not collected at the Old Bar due to access limitations. The complete list of materials sampled and analyzed is provided in Appendix D (Laboratory Analytical Results and Validation Report). Table 1 lists ACM identified at the properties.

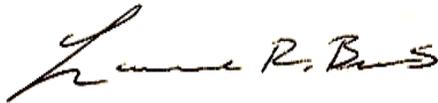
<b>Table 1. Positive ACM Sample Results</b>		
<b>Property</b>	<b>Sample Description</b>	<b>Asbestos Result</b>
City Auditorium	Black mastic Off-white compound	10% Chrysotile 2% Chrysotile
Legion Hall	Roof tar	5% Chrysotile
Old Motel	Yellow sheet flooring/backing Brown floor tile	20% Chrysotile 2% Chrysotile
Old Implement Dealer	Black roofing tar and felt	10% Chrysotile

Note: %      Percent

During sample collection, START documented any signs of deteriorated, structurally unsound, or collapsed structures. Photographic documentation can be found in Appendix B.

If you have any questions concerning the findings of this report, please contact Lawrence Burns, at (570) 777-4860 or by email at [Lawrence.Burns@tetrattech.com](mailto:Lawrence.Burns@tetrattech.com).

Thank you,



R8 START V Project Manager

Enclosures:

Appendix A: Figures

Appendix B: Photographic Documentation

Appendix C: Previous Survey Reports

Appendix D: Laboratory Analytical Results and Validation Report

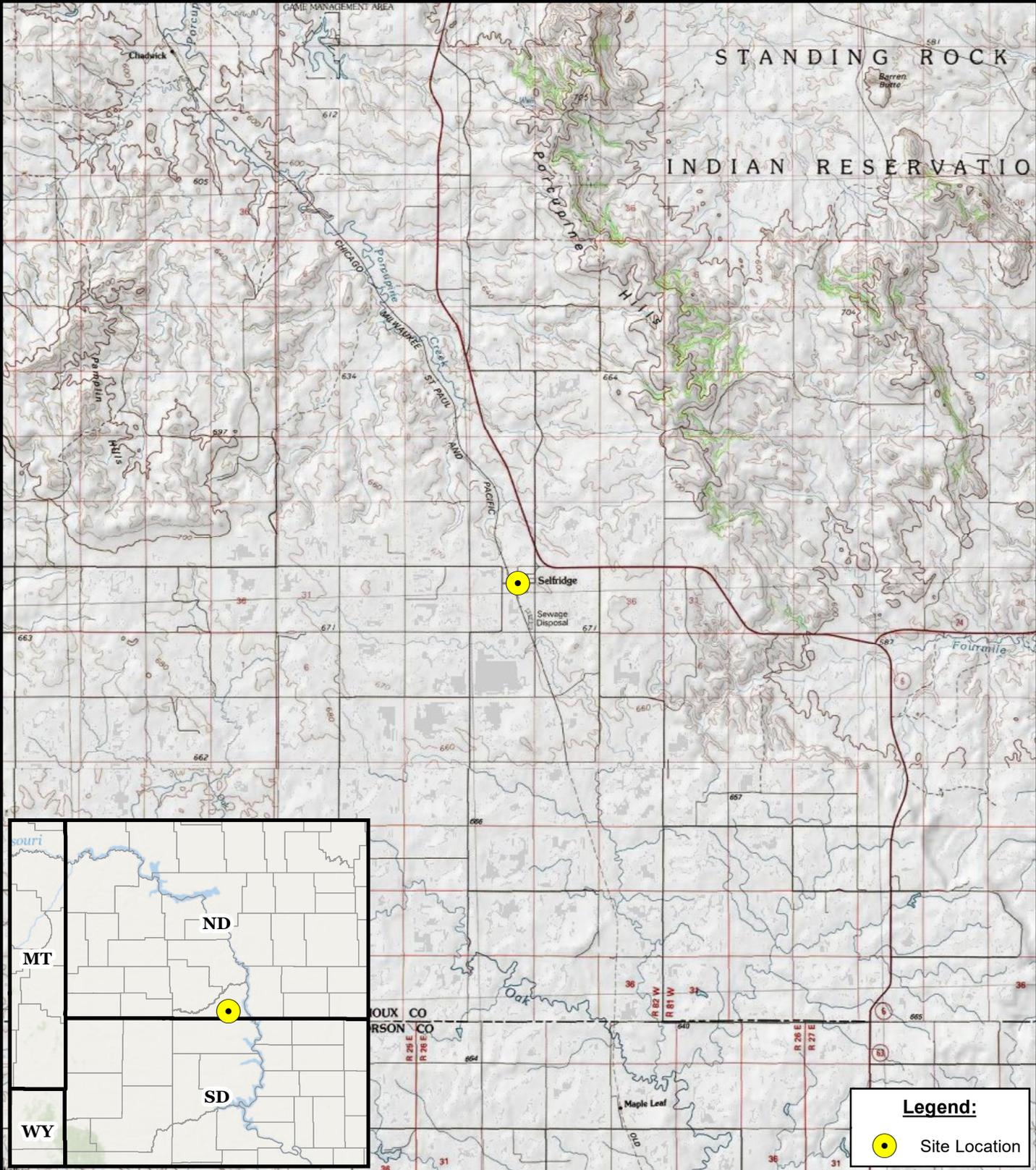
cc: Kevin Scott, Region 8 START V Program Director

APPENDIX A

FIGURES

(5 Pages)

Path: C:\R8\Projects\SelfridgeAbandonedBuildings\ArcGIS\Desktop\Maps\Reports\Figure 1 Selfridge Abandoned Buildings Site Location Map.mxd



**Legend:**

-  Site Location

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere  
 Projection: Mercator Auxiliary Sphere  
 Datum: WGS 1984

**Source:**  
 Background: ESRI USA Topo Maps (2021)



Prepared for:  
 U.S. EPA - Region 8



Contract: 68HE0820D0001  
 TO/TD: 2071-2110-07

Prepared By:  
 Tetra Tech  
 START V  
 1560 Broadway  
 Suite 1400  
 Denver, CO



**FIGURE 1  
 SITE LOCATION MAP  
 SELFRIDGE ABANDONED BUILDINGS  
 SIOUX COUNTY, NORTH DAKOTA**

Date: 11/30/2021



**Legend:**

 Building Outlines

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere  
 Projection: Mercator Auxiliary Sphere  
 Datum: WGS 1984

**Source:**  
 Background: ESRI World Imagery (2021)



Prepared for:  
 U.S. EPA - Region 8



Contract: 68HE0820D0001  
 TO/TD: 63-2101-08

Prepared By:  
 Tetra Tech  
 START V  
 1560 Broadway  
 Suite 1400  
 Denver, CO



**FIGURE 2  
 SITE AREA MAP  
 SELFRIDGE ABANDONED BUILDINGS  
 AUDITORIUM  
 SIOUX COUNTY, NORTH DAKOTA**

Date: 12/6/2021



**Legion Hall**  
**Estimated Vol. (cu. ft.): 26,967**

**Main St**

**1st St**

**Legend:**

 Building Outlines

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere  
 Projection: Mercator Auxiliary Sphere  
 Datum: WGS 1984

**Source:**  
 Background: ESRI World Imagery (2021)



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 U.S. EPA - Region 8



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 Tetra Tech  
 START V  
 1560 Broadway  
 Suite 1400  
 Denver, CO



**FIGURE 3**  
**SITE AREA MAP**  
**SELFRIDGE ABANDONED BUILDINGS**  
**LEGION HALL**  
**SIoux COUNTY, NORTH DAKOTA**

Date: 12/6/2021

Path: C:\R8\Projects\SelfridgeAbandonedBuildings\ArcGIS\Desktop\Maps1\_Reports\Figure 5 Selfridge Abandoned Buildings - Old Motel - Site Area Map.mxd



Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere  
 Projection: Mercator Auxiliary Sphere  
 Datum: WGS 1984

Source:  
 Background: ESRI World Imagery (2021)



Prepared for:  
 U.S. EPA - Region 8



Contract: 68HE0820D0001  
 TO/TD: 63-2101-08

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 Tetra Tech  
 START V  
 1560 Broadway  
 Suite 1400  
 Denver, CO



**Legend:**  
 Building Outlines

**FIGURE 4  
 SITE AREA MAP  
 SELFRIDGE ABANDONED BUILDINGS  
 OLD MOTEL  
 SIOUX COUNTY, NORTH DAKOTA**

Date: 12/6/2021



**Old Implement Dealer**  
**Estimated Vol. (cu. ft.): 33,453**

**Legend:**

 Building Outlines

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere  
 Projection: Mercator Auxiliary Sphere  
 Datum: WGS 1984

**Source:**  
 Background: ESRI World Imagery (2021)



Prepared for:  
 U.S. EPA - Region 8



Contract: 68HE0820D0001  
 TO/TD: 63-2101-08

Prepared By:  
 Tetra Tech  
 START V  
 1560 Broadway  
 Suite 1400  
 Denver, CO



**FIGURE 5**  
**SITE AREA MAP**  
**SELFRIDGE ABANDONED BUILDINGS**  
**OLD IMPLEMENT DEALER**  
**SIOUX COUNTY, NORTH DAKOTA**

Date: 12/6/2021

APPENDIX B  
PHOTOGRAPHIC DOCUMENTATION  
(16 Pages)



<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> City Auditorium	<b>Project No.</b> 2071-2110-07
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**Photo Description:** An exterior view of the former city auditorium in Selfridge, North Dakota.

**Date/Time Taken:** 11/09/2021 11:04:AM

**Photographer:** Burns, Lawrence

**Latitude:** 46.04214167

**Longitude:** -100.92361389

**Photo Direction:** E



<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> City Auditorium	<b>Project No.</b> 2071-2110-07
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**Photo Description:** An exterior photo of a hole in the back wall of the city auditorium in Selfridge, North Dakota.

**Date/Time Taken:** 11/09/2021 10:59:AM

**Photographer:** Burns, Lawrence

**Latitude:** 46.04215556

**Longitude:** -100.92333056

**Photo Direction:** W



<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> City Auditorium	<b>Project No.</b> 2071-2110-07
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**Photo Description:** An interior view of the former city auditorium in Selfridge, North Dakota. The building has structural damage, and sections of the roof have partially collapsed.

**Date/Time Taken:** 11/09/2021 11:00:AM

**Photographer:** Burns, Lawrence

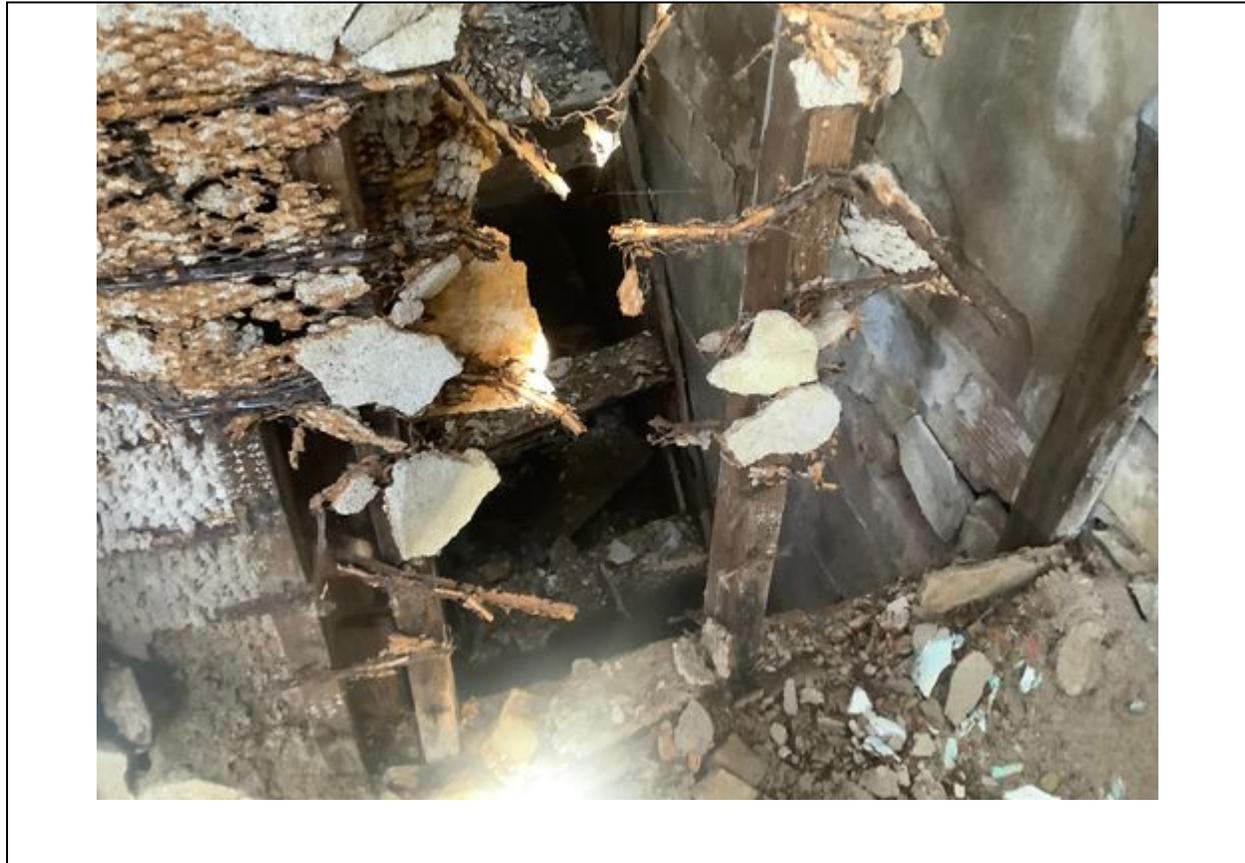
**Latitude:** 46.04218611

**Longitude:** -100.9235

**Photo Direction:** NA



<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> City Auditorium	<b>Project No.</b> 2071-2110-07
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**Photo Description:** An interior view of the city auditorium in Selfridge, North Dakota. Standing water was observed in the basement.

<b>Date/Time Taken:</b> 11/09/2021 11:02:AM	<b>Photographer:</b> Burns, Lawrence
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<b>Latitude:</b> 46.04222222	<b>Longitude:</b> -100.92341667	<b>Photo Direction:</b> NA
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<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> City Auditorium	<b>Project No.</b> 2071-2110-07
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**Photo Description:** An interior view of the roof at the city auditorium in Selfridge, North Dakota. The roof is damaged and partially collapsed.

**Date/Time Taken:** 11/09/2021 11:00:AM

**Photographer:** Burns, Lawrence

**Latitude:** 46.04218611

**Longitude:** -100.92343056

**Photo Direction:** NA



<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> Old Implement Dealer	<b>Project No.</b> 2071-2110-07
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**Photo Description:** A southwest view of the former implement dealer in Selfridge, North Dakota. The building has been demolished.

<b>Date/Time Taken:</b> 11/09/2021 8:51:AM	<b>Photographer:</b> Burns, Lawrence
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<b>Latitude:</b> 46.04129944	<b>Longitude:</b> -100.92334756	<b>Photo Direction:</b> S
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<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> Old Implement Dealer	<b>Project No.</b> 2071-2110-07
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**Photo Description:** A western view of former implement dealer. The building has been demolished.

**Date/Time Taken:** 11/09/2021 8:54:AM

**Photographer:** Burns, Lawrence

**Latitude:** 46.04120941

**Longitude:** -100.92326458

**Photo Direction:** SW



<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> Old Implement Dealer	<b>Project No.</b> 2071-2110-07
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**Photo Description:** A northeastern view of the former implement dealer. The building has been demolished and debris has been placed into two piles.

**Date/Time Taken:** 11/09/2021 8:54:AM

**Photographer:** Burns, Lawrence

**Latitude:** 46.0410669

**Longitude:** -100.92328591

**Photo Direction:** W



<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> Old Implement Dealer	<b>Project No.</b> 2071-2110-07
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**Photo Description:** A northeastern view of the demolished implement dealer in Selfridge, North Dakota.

**Date/Time Taken:** 11/09/2021 8:55:AM

**Photographer:** Burns, Lawrence

**Latitude:** 46.04113513

**Longitude:** -100.92353856

**Photo Direction:** NE

<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> Legion Hall	<b>Project No.</b> 2071-2110-07
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**Photo Description:** A view of the southern exterior of the legion hall in Selfridge, North Dakota. The building appears to have been subject to trespassing and vandalism.

**Date/Time Taken:** 11/09/2021 10:02:AM

**Photographer:** Burns, Lawrence

**Latitude:** 46.04147778

**Longitude:** -100.92414167

**Photo Direction:** N



<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> Legion Hall	<b>Project No.</b> 2071-2110-07
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**Photo Description:** A view of the west side of the legion hall in Selfridge, North Dakota. A piece of the side wall has collapsed on itself and the building does not appear to be structurally sound.

<b>Date/Time Taken:</b> 11/09/2021 10:00:AM	<b>Photographer:</b> Burns, Lawrence
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<b>Latitude:</b> 46.04148611	<b>Longitude:</b> -100.92420278	<b>Photo Direction:</b> N
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<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> Legion Hall	<b>Project No.</b> 2071-2110-07
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**Photo Description:** A view of the collapsed roofing and missing section of the side wall from the legion hall in Selfridge, North Dakota.

<b>Date/Time Taken:</b> 11/09/2021 10:17:AM		<b>Photographer:</b> Burns, Lawrence
<b>Latitude:</b> 46.04161303	<b>Longitude:</b> -100.92419615	<b>Photo Direction:</b> N



<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> Old Motel	<b>Project No.</b> 2071-2110-07
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**Photo Description:** A southwestern view of the old motel in Selfridge, North Dakota.

<b>Date/Time Taken:</b> 11/09/2021 9:31:AM	<b>Photographer:</b> Burns, Lawrence
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<b>Latitude:</b> 46.04135629	<b>Longitude:</b> -100.92333419	<b>Photo Direction:</b> S
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<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> Old Motel	<b>Project No.</b> 2071-2110-07
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**Photo Description:** A view of the western side of the motel in Selfridge, North Dakota. Doors and windows have been boarded up to prevent trespassing and vandalism.

**Date/Time Taken:** 11/09/2021 9:32:AM

**Photographer:** Burns, Lawrence

**Latitude:** 46.04138836

**Longitude:** -100.92316205

**Photo Direction:** S



<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> Old Motel	<b>Project No.</b> 2071-2110-07
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**Photo Description:** A northern view of the back exterior of the motel in Selfridge, North Dakota.

**Date/Time Taken:** 11/09/2021 9:33:AM

**Photographer:** Burns, Lawrence

**Latitude:** 46.04101872

**Longitude:** -100.92303626

**Photo Direction:** N



<b>Project Name:</b> Selfridge Abandoned Buildings	<b>Site Location:</b> Old Motel	<b>Project No.</b> 2071-2110-07
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**Photo Description:** A southwestern view of debris from the old motel and adjacent trailers in yard in Selfridge, North Dakota.

<b>Date/Time Taken:</b> 11/09/2021 9:34:AM		<b>Photographer:</b> Burns, Lawrence
<b>Latitude:</b> 46.04119022	<b>Longitude:</b> -100.92331206	<b>Photo Direction:</b> S

APPENDIX C  
PREVIOUS SURVEY REPORTS  
(47 Pages)

# Badlands Environmental Consultants, Inc.

Mark E. Emter  
President

James D. McGurran  
Chief Executive Officer

April 22, 2016

Mr. Andrew Deason  
City Of Selfridge  
PO Box 12  
Selfridge, ND 58568

RE: P16-0215 ASBESTOS BULK SAMPLE COLLECTION & ANALYSIS REPORT  
VACANT COMMERCIAL PROPERTY  
1<sup>ST</sup> STREET  
SELFRIDGE, ND 58568

Dear Mr. Deason:

Attached please find the results of the fifteen (15) bulk samples of suspect asbestos-containing building materials, collected by a Badlands Environmental Consultants, Inc. (BEC) representative on April 15, 2016, from throughout the interior and exterior of the Commercial Property located on 1<sup>st</sup> Street in Selfridge, ND (Site). It is our understanding the Site building is scheduled for demolition.

The field representative for BEC was Environmental Specialist, Kayla Hardy, who is accredited by the Environmental Protection Agency (EPA) and is certified by the North Dakota Department of Health as an Asbestos Building Inspector.

### **ASBESTOS BULK SAMPLE COLLECTION & ANALYTICAL PROCEDURES**

The samples of suspect ACM were collected in accordance the EPA Guidance Document, Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials (EPA 560/5.85-030a, October 1985).

The bulk sample collected was analyzed utilizing the Environmental Protection Agency's Method for the Determination of Asbestos in Bulk Building Materials. (EPA-600/R-93/116).

The samples were analyzed by Crisp Analytical, L.L.C. (Crisp) in Carrollton, TX. Crisp is accredited by the American Industrial Hygiene Association (AIHA) through their involvement in the National Laboratory Voluntary Accreditation Program (NVLAP) Bulk Asbestos Samples Quality Assurance Programs.

## **RESULTS**

Results of the PLM analysis indicated four (4) of the fifteen (15) bulk samples contain greater than one percent (>1%) asbestos. The EPA and OSHA define an asbestos containing material as one that contains >1% asbestos.

- Rock pattern linoleum flooring - South Entry (Sample #8)
- 12" x 12" white floor tile and associated black mastic - Kitchen (Sample #9)
- Sheetrock with taping mud - Bathroom (Sample #11)
- Roofing material - black tar and black paper - Exterior roof (Sample #12)

Building materials that were determined to be asbestos free or contain less than one percent asbestos include:

- Plaster - Throughout (Sample #'s 1-7)
- Brick mortar - Middle room (Sample #10)
- Plaster/Stucco - Exterior (Sample #'s 13-15)

Please refer to the attached Crisp Laboratory Analysis Report dated April 21, 2016 for complete results.

### **3.0 INSPECTOR COMMENTS**

The asbestos containing 12" x 12" floor tiles, black mastic, and linoleum flooring materials were located throughout the entire Site. These materials were all located beneath building debris from the building deteriorating. These materials were in poor condition at the time of this assessment.

The asbestos containing sheetrock with taping mud was located in the bathroom area. This material is also deteriorating.

The asbestos containing roofing material was falling into the building at the time of this assessment and was located on the floor throughout the building.

### **CONCLUSIONS/RECOMMENDATIONS**

Asbestos containing floor tiles & associated mastics, linoleum flooring, and built-up roofing are classified as Category I non-friable materials by the EPA (cannot be crumbled or reduced to powder by hand pressure when dry). These materials are considered to be regulated due to the significant damage which classifies them as friable. These materials must be abated from the Site along with any debris that is mixed in with these materials prior to demolition. The remaining roof must also be separated from the rest of the building and disposed with the other asbestos containing or contaminated materials in an EPA approved landfill and in accordance with EPA NESHAPS, OSHA Class II, and State of North Dakota abatement regulations.

Asbestos-containing sheetrock taping mud is considered a friable material by the EPA (can be crumbled or reduced to powder by hand pressure when dry). This material should also be abated and disposed in accordance with EPA NESHAPS, OSHA Class II, and State of North Dakota abatement regulations.

A Notice of Intent for Demolition/Renovation must be filed with the North Dakota Department of Health ten working days prior to the start of any renovation project if the project will involve the disturbance of greater than 160 square feet or 260 lineal feet of regulated asbestos containing materials or if the building is scheduled for demolition.

If any suspect building materials are uncovered during the demolition project, which were not previously identified for the presence or absence of asbestos by this survey, immediately stop work and notify BEC to evaluate the suspect materials.

If you have any questions or feel you need any additional information, please do not hesitate to contact me at (701) 223-7335.

Sincerely,

BADLANDS ENVIRONMENTAL CONSULTANTS, INC.

A handwritten signature in blue ink that reads "James D. McGurren". The signature is written in a cursive style with a large initial "J" and "M".

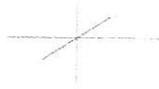
James McGurren  
Chief Executive Officer

Attachments

# **APPENDIX A**

**Crisp Analytical, L.L.C.**

**Materials Characterization – Bulk  
Asbestos Analysis Report**

**CA Labs**Dedicated to  
Quality**Crisp Analytical, L.L.C.**1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798**CA Labs, L.L.C.**12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634**Materials Characterization - Bulk Asbestos Analysis****Laboratory Analysis Report - Polarized Light****Badlands Environmental Consultants**1008 East Central Avenue  
Bismarck, ND 58501

Customer Project: P16-0215, City of Selfridge Vacant Bldg 1st St

Reference #: CAL16042653CB

Date: 4/21/2016

**Analysis and Method**

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

**Discussion**

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as ≤1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

**Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235  
AIHA LAP, LLC Laboratory #102929

**CA Labs**  
Dedicated to  
Quality

**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798



**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project:		P16-0215, City of Selfridge Vacant Bldg 1st St		CA Labs Project #:	CAL16042653CB
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
8	8-1	Rock Pattern Linoleum/ gray patterned linoleum	23% Chrysotile	gray patterned linoleum tan streaked thin floor tile black mastic and black felt	
9	9-1	12x12 White Floor Tile/ tan streaked thin floor tile	3% Chrysotile	white surfaced tan compound composite of layers 1 and 2 black tar and black felt	
	9-2	black mastic and black felt	25% Chrysotile		
11	11-1	Sheetrock w/Taping Mud/ white surfaced tan compound	2% Chrysotile		
	11-3	composite of layers 1 and 2	<1% Chrysotile		
12	12-2	black tar and black felt	3% Chrysotile		

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235  
AIHA LAP, LLC Laboratory #102929

*Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):*

ca - carbonate	pe - perlite	lg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastonite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

**CA Labs**

Dedicated to  
Quality

**Crisp Analytical, L.L.C.**

1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798

**CA Labs, L.L.C.**

12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

### Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: **Badlands Environmental Consultants**  
1008 East Central Avenue  
Bismarck, ND 58501

Customer Project: P16-0215, City of Selfridge  
Vacant Bldg 1st St  
Turnaround Time: 3 Days

CA Labs Project #: CAL16042653CB

Date: 4/21/2016

Samples Received: 4/18/16 10:30am

Date Of Sampling: 4/15/16

Purchase Order #:

Phone # 701-223-7335

Fax # 701-223-7340

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
1		1-1	Plaster/ gray plaster	y	None Detected	1% sy	99% qu,ca
2		2-1	Plaster/ off-white surfaced gray plaster	n	None Detected	1% sy	99% qu,bi,ca
3		3-1	Plaster/ off-white surfaced gray plaster	n	None Detected	2% sy	98% qu,bi,ca
4		4-1	Plaster/ off-white surfaced gray plaster	n	None Detected	1% sy	99% qu,bi,ca
5		5-1	Plaster/ off-white surfaced gray plaster	n	None Detected	1% sy	99% qu,bi,ca
6		6-1	Plaster/ off-white surfaced gray plaster	n	None Detected	1% sy	99% qu,bi,ca
7		7-1	Plaster/ off-white surfaced gray plaster	n	None Detected	1% sy	99% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Chad Lytle  
Analyst

QAC  
Leslie Crisp, P.G.

Technical Manager  
Chad Lytle

1. Fire Damage: significant fiber damage - reported percentages reflect unaltered fibers  
 2. Fire Damage: no significant fiber damage affecting fibrous percentages  
 3. Actinolite in association with Vermiculite  
 4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
 5. Not enough sample to analyze

6. Amphibyllite in association with Fibrous Talc  
 7. Contamination suspected from other building materials  
 8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
 9. < 1% Result point counted positive  
 10. TEM analysis suggested

**CA Labs**

Dedicated to Quality

**Crisp Analytical, L.L.C.**

1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798

**CA Labs, L.L.C.**

12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

**Polarized Light Asbestiform Materials Characterization**

Customer Info: Attn: **Badlands Environmental Consultants**  
1008 East Central Avenue  
Bismarck, ND 58501

Customer Project: P16-0215, City of Selfridge  
Vacant Bldg 1st St  
Turnaround Time: 3 Days

CA Labs Project #: CAL16042653CB  
Date: 4/21/2016  
Samples Received: 4/18/16 10:30am  
Date Of Sampling: 4/15/16  
Purchase Order #:

Phone # 701-223-7335  
Fax # 701-223-7340

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
8		8-1	Rock Pattern Linoleum/ gray patterned linoleum	y	23% Chrysotile		77% qu,ma
4		8-2	tan mastic and debris				
9		9-1	12x12 White Floor Tile/ tan streaked thin floor tile	y	3% Chrysotile		97% qu,ca
		9-2	black mastic and black felt	y	25% Chrysotile	35% ce	40% qu,bi
10		10-1	Brick Mortar/ brown bricking	y	None Detected		100% qu,ca,ma
		10-2	gray mortar	y	None Detected		100% qu,ca
11		11-1	Sheetrock w/Taping Mud/ white surfaced tan compound	n	2% Chrysotile		98% mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ol - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Chad Lytle  
Analyst

OAC  
Leslie Crisp, P.G.

Technical Manager  
Chad Lytle

1. Fine Damage significant fiber damage - reported percentages reflect unfiltered fibers
2. Fine Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthrophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**CA Labs**  
Dedicated to  
Quality

**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
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Phone 972-242-2754  
Fax 972-242-2798



**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

## Polarized Light Asbestiform Materials Characterization

**Customer Info:** Attn: **Badlands Environmental Consultants**  
1008 East Central Avenue  
Bismarck, ND 58501

**Customer Project:**  
P16-0215, City of Selfridge  
Vacant Bldg 1st St  
**Turnaround Time:**  
3 Days

**CA Labs Project #:**  
CAL16042653CB

**Date:** 4/21/2016

**Phone #** 701-223-7335  
**Fax #** 701-223-7340

**Samples Received:** 4/18/16 10:30am  
**Date Of Sampling:** 4/15/16  
**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		11-2		tan drywall with brown paper	n	None Detected	25% ce 1% fg	74% qu.gy
		11-3		composite of layers 1 and 2	n	<1% Chrysotile	12% ce	88% qu.gy,bi,ca
12		12-1		Asphalt & Shingle w/Tar Paper/ black roofing shingle with green gravel	y	None Detected	24% ce	76% qu,bi
		12-2		black tar and black felt	n	3% Chrysotile	55% ce	42% qu,bi
13		13-1		Plaster Exterior/ white surfaced white finishing plaster	n	None Detected		100% qu,bi,ca
		13-2		gray plaster	y	None Detected	1% sy	99% qu,ca
14		14-1		Plaster Exterior/ white surfaced off-white finishing plaster	n	None Detected		100% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

### AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93-116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gyo - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Chad Lytle  
Analyst

OAC  
Leslie Crisp, P.G.

Technical Manager  
Chad Lytle

1. Fine Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fine Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**CA Labs**

Dedicated to  
Quality

**Crisp Analytical, L.L.C.**

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Phone 972-242-2754  
Fax 972-242-2798

**CA Labs, L.L.C.**

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Phone 225-751-5632  
Fax 225-751-5634

### Polarized Light Asbestiform Materials Characterization

**Customer Info: Attn:**  
**Badlands Environmental Consultants**  
1008 East Central Avenue  
Bismarck, ND 58501

**Customer Project:**  
P16-0215, City of Selfridge  
Vacant Bldg 1st St  
**Turnaround Time:**  
3 Days

**CA Labs Project #:**  
CAL16042653CB

**Date:** 4/21/2016

**Phone #** 701-223-7335  
**Fax #** 701-223-7340

**Samples Received:** 4/18/16 10:30am

**Date Of Sampling:** 4/15/16

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Subsample	Description of	Homo- geneo- us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
14-2	gray plaster				y	None Detected	1% ce 1% sy	98% qu,ca
				Plaster Exterior/ white surfaced off-white finishing				
15		15-1	plaster		n	None Detected		100% qu,bi,ca
		15-2	gray plaster		y	None Detected		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

#### AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-900, R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Chad Lytle  
Analyst

QAC  
Leslie Crisp, P.G.

Technical Manager  
Chad Lytle

1. Fine Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fine Damage no significant fiber damage affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthrophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested



Crisp Analytical Laboratories, L.L.C.  
1923 Old Denton Rd.  
Carmillion, TX 75006

Phone: 972-242-2751  
Fax: 972-242-2796  
Mobile: 409-223-6967

### Chain of Custody

Client Name: <u>Badlands Environmental</u>	CA Labs job # <u>CAL 16012653</u>
Client Address: <u>1609 E. Central Ave. Bismarck, ND 58501</u>	Billing Address: _____ (if different)
Phone number: <u>701-223-7335</u>	P.O. #: <u>City of Selfridge</u>
Fax number: <u>701-223-7340</u>	Project Name: <u>vacant Bld. 1st St.</u>
Email: <u>badlands_email@comcast.com</u>	Project Number: <u>PI6-0215</u>
Contact: _____	Reports Results
Total # Samples Submitted: <u>15</u>	Total # Samples to be Analyzed: <u>15</u>
VIA: <input type="checkbox"/> EMAIL <input type="checkbox"/> FAX <input type="checkbox"/> VERBAL	
Material Matrix: <u>Air</u> / Bulk / Water	

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>			
ASHERA	4 hour	Improved	4 hour	PCM: NIOSH 7400	Note TAT
EPA Level II	8 hour	Interim	8 hour	Allergen Particle:	21 hour
Drinking Water	16 hour		16 hour	tape/bulk swab	2 days
Wipe	24 hour	ASHERA	24 hour	Cyclex-d cassettes	3 days
Micro-vac	2 days		2 days	Air-c-cell cassettes	5-10 days
NIOSH 7402	3 days	Point Count -	3 days	Anderson cultures	Specify
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bulk/swab cultures	Mold or
				Bacteria cultures	bacteria

*Please indicate appropriate turn around time. (minimum turnaround - 24 hrs for Lead TCLP and water)*

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	
TA Time:	8 hour	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
	<u>see Attached COC</u>		
	<u>Do Composite if sheetrock contains</u>		

Custody Information:

Samples relinquished: [Signature] 4-15-16 4:00 Signature Date Time

Samples received: [Signature] 4-15-16 10:30am Signature Date Time

Samples relinquished: \_\_\_\_\_ Signature Date Time

Samples received: \_\_\_\_\_ Signature Date Time

One Leaf 2653

BADLANDS ENVIRONMENTAL CONSULTANTS, INC.  
1008 East Central Avenue, Bismarck, ND 58501  
Phone: (701) 223-7335 FAX: (701) 223-7340

BULK ASBESTOS SAMPLING/CHAIN OF CUSTODY RECORD

Project Identification Number

City of Selfridge - Vacant Bld. 1st Street - Selfridge, ND  
Person Sampling: Kayla Hardy

Turnaround Required:

4 hour

24 hour

48 hour

1 day Standard

Sample No.	Sample Date	Material Description/Location	Friable (F) or Non-Friable (NF)
1	4-15-16	Plaster - wall - S. entry	
2			
3		- middle room - S. side	
4		↓ - N. side	
5		↓ - Kitchen	
6		Ceiling - S. entry	
7		↓ - middle room	
8		↓ - Kitchen	
9		rock pattern inoleum - S. entry	
10		12 x 12 white floor tile - Kitchen	
11		Brick mortar - middle room	
12		Sheetrock w/ taping mud - bathroom	
		Asphalt Shingle w/ tar paper - Roof	

Relinquished by: *[Signature]*  
Date: 4-15-16

Received By: *[Signature]*  
Date: 4-16-16

Relinquished by: \_\_\_\_\_  
Date: \_\_\_\_\_

Received By: \_\_\_\_\_  
Date: \_\_\_\_\_



Mr. Andrew Deason  
City of Selfridge  
Po Box 1  
Selfridge, ND 58568

RE: P19-0459 ASBESTOS BULK SAMPLE COLLECTION & ANALYSIS REPORT  
FORMER MOTEL & IMPLEMENT DEALERSHIP  
SOUTH MAIN STREET  
SELFRIDGE, ND 58568

Dear Mr. Deason:

Attached please find the results of forty-six (46) bulk samples of suspect asbestos-containing materials collected by a Badlands Environmental Consultants, Inc. (BEC) representative on September 11, 2019, from the above-referenced location (Site).

The field representative for BEC was Environmental Specialist Josh Cooper, who is accredited by the Environmental Protection Agency (EPA) and is certified by the North Dakota Department of Environmental Quality (NDDEQ) as an Asbestos Building Inspector.

### **ASBESTOS BULK SAMPLE COLLECTION & ANALYTICAL PROCEDURES**

The samples of suspect ACM were collected in accordance the EPA Guidance Document, Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials (EPA 560/5.85-030a, October 1985).

The bulk samples were analyzed utilizing the Environmental Protection Agency's Method for the Determination of Asbestos in Bulk Building Materials. (EPA-600/R-93/116).

The samples were analyzed by Crisp Analytical, L.L.C. (Crisp) in Carrollton, TX. Crisp is accredited by the American Industrial Hygiene Association (AIHA) through their involvement in the National Laboratory Voluntary Accreditation Program (NVLAP) Bulk Asbestos Samples Quality Assurance Programs.

### **RESULTS**

Results of the PLM analysis indicates twelve (12) of the forty-six (46) bulk samples contain asbestos. The EPA and OSHA define an asbestos containing material as one that contains >1% asbestos.

Building materials that were determined to contain asbestos:

- Yellow Linoleum- Paper backing –2<sup>nd</sup> Floor Bathroom – **Motel** – 22% Chrysotile Asbestos (Sample 4)
- Tan Linoleum- Paper backing– 2<sup>nd</sup> Floor Bathroom– **Motel** – 23% Chrysotile Asbestos (Sample 5)
- Tan/Brown Floor tile – Main Level Entry – **Motel** – 2% Chrysotile Asbestos (Sample 12)
- Gray/White Floor tile & Associated Brown Glue – Old Kitchen- **Motel** - 2% Chrysotile Asbestos (Sample 14)
- Red Floor tile – Northwest Room – Main Level – **Motel** - 2% Chrysotile Asbestos (Sample 15)
- Green Floor tile - Northwest Room – Main Level – **Motel** - 2% Chrysotile Asbestos (Sample 16)
- Sink Undercoating/ Black Sealant – Under Sink – Kitchen – **North Trailer** -2% Chrysotile Asbestos (Sample 32)
- Green Linoleum Floor tile – Bathroom – **North Trailer** - 20% Chrysotile Asbestos (Sample 34)
- Gold and Brown Linoleum Floor tile – Bathroom – **North Trailer** - 20% Chrysotile Asbestos (Sample 35)
- Gray Wall Plaster/Tan Stucco – South End of **Implement Dealer**- Sample contains Vermiculite (Sample 38)
- Gray Wall Plaster/Tan Stucco – West End of **Implement Dealer**- Sample contains Vermiculite (Sample 39)
- Sheetrock with associated Tan Compound- South Office - **Implement Dealer** – 2% Chrysotile Asbestos (Sample 44-1)
- Tan Compound Under Sheetrock – South Office - **Implement Dealer** – 3% Chrysotile Asbestos (Sample 44-2)

Please refer to the attached Crisp Laboratory Analysis Report dated September 16, 2019 for complete results.

### INSPECTOR COMMENTS

There were two types of asbestos-containing linoleum floor covering located on the second floor in the bathroom of the motel. These materials were in poor condition at the time of this assessment.

There was 12" x 12" asbestos-containing floor tile located throughout most of the main floor of the motel. This material was poor condition at the time of this assessment.

The asbestos-containing sink undercoating was located in a trailer house (north trailer), which was located to the west of the motel. The sink itself was in good condition during the time of this assessment.

The asbestos-containing green floor tile and brown linoleum were located in the bathroom of the north trailer. These materials were in poor condition at the time of this assessment.

The gray plaster and tan stucco sample, which is located on the exterior and interior of the implement dealership, contain vermiculite in the matrix of the material. This material was in poor condition at the time of this assessment. Quantities for this material are unknown as half of the building is no longer standing. The structure is in extremely poor condition (See Attached Photos).

There was also some asbestos-containing sheetrock in the implement dealership located in the south office of the implement dealership. The sheetrock itself was in good condition at the time of this assessment, however the building itself is in extremely poor condition.

Most of the materials that were surveyed at the time of this assessment were in poor condition, delaminating and falling apart. The implement dealership and the south trailer were not structurally sound. There were two other buildings that the City of Selfridge wanted assessed, however we determined that these structures were unsafe to enter. The first location was located at 79 N. Main Street., this property was unsafe because most of The main level floor had collapsed . The other property was located at 69 N. Main. The supporting wall was almost completely caved in (See Attached Photos).

#### **SUMMARY & RECOMMENDATIONS**

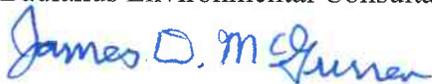
Vermiculite insulation is considered to be a regulated friable material by the EPA (can be crumbled or reduced to powder by hand pressure when dry). If this material is present within the matrix of a sample or as a loose material, then it must be presumed to be a regulated asbestos-containing material (RACM). This material is located within the matrix of the gray plaster/stucco, therefore it will need to be abated from the Site, in accordance with EPA NESHAPS, OSHA Class I, and North Dakota Department of Environmental Quality (NDDEQ) abatement regulations.

The asbestos-containing floor tile, linoleum and sink undercoating are classified as Category I non-friable materials by the EPA. These materials are non-regulated and can remain in the building during a demolition project provided they are not disturbed by the demolition activities. However, they would need to be separated from the rest of the building demolition debris and placed in an EPA approved asbestos landfill.

If any suspect building materials are uncovered during the demolition project, which were not previously identified for the presence or absence of asbestos by this limited survey, immediately stop work and notify BEC to evaluate the suspect materials.

If you have any questions or feel you need any additional information, please do not hesitate to contact me at (701) 223-7335.

Sincerely,  
Badlands Environmental Consultants, Inc.



James D. McGurren  
President/CEO

Attachment

# Site Photos

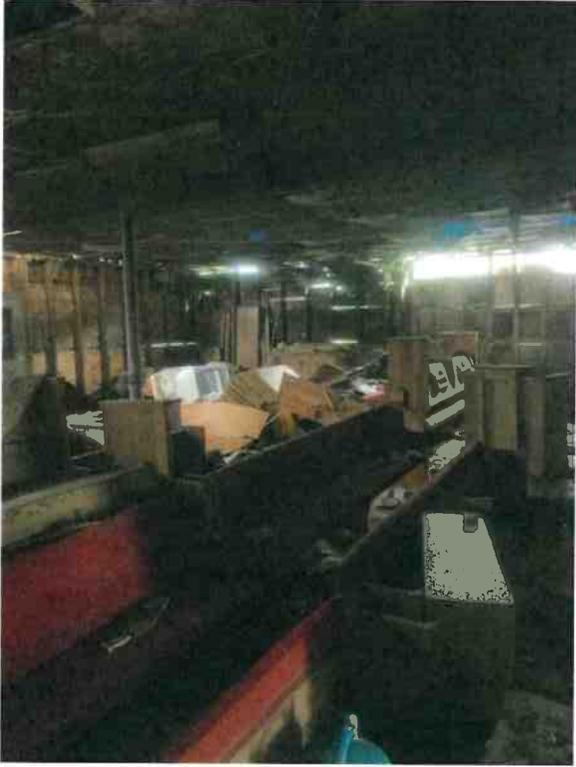


Photo 1- Implement Dealership- North and West facing walls

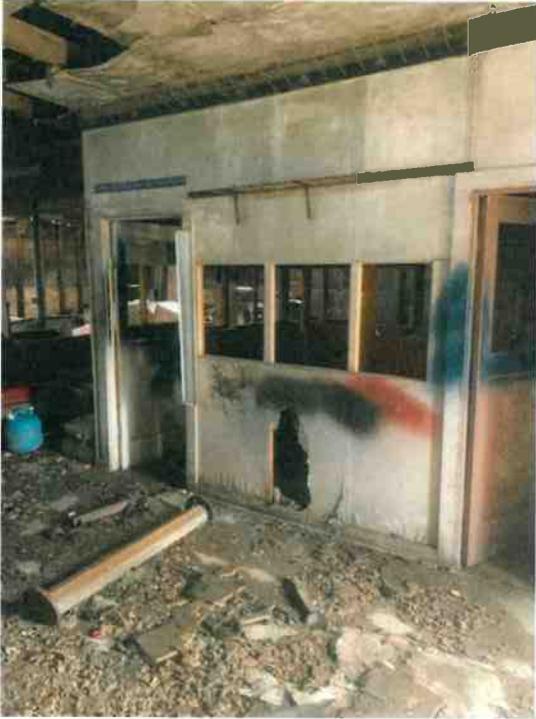


Photo 2- Implement Dealership- Office area- North office



Photo 3- Implement Dealership- South end of the Property

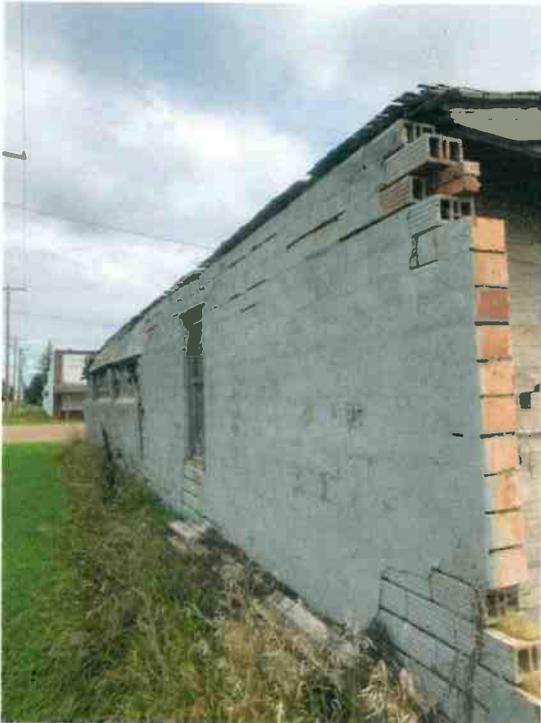


Photo 4- Implement Dealership- Exterior photo of the west side of the building



Photo 5- North Trailer- Located to the west of the motel.

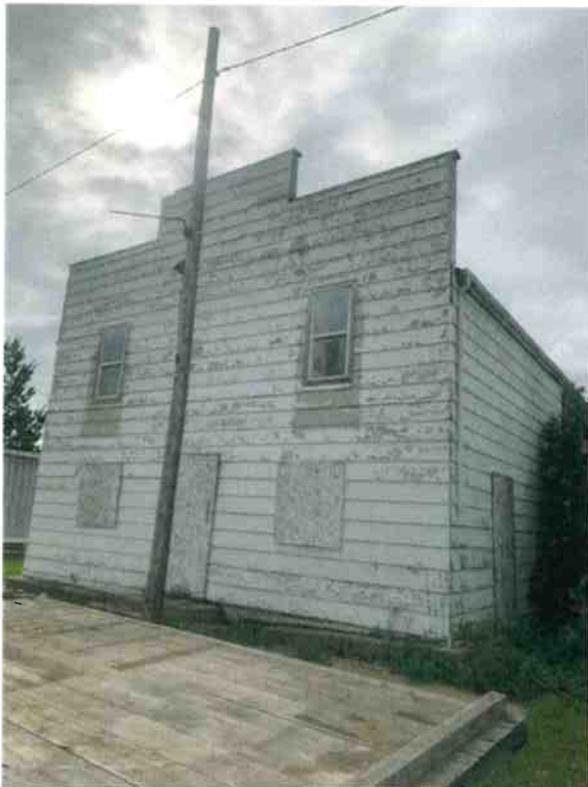


Photo 6- Exterior of the motel- North End



Photo 7- South Trailer- South of the Motel



Photo 8 – 1<sup>st</sup> Floor of the Motel interior

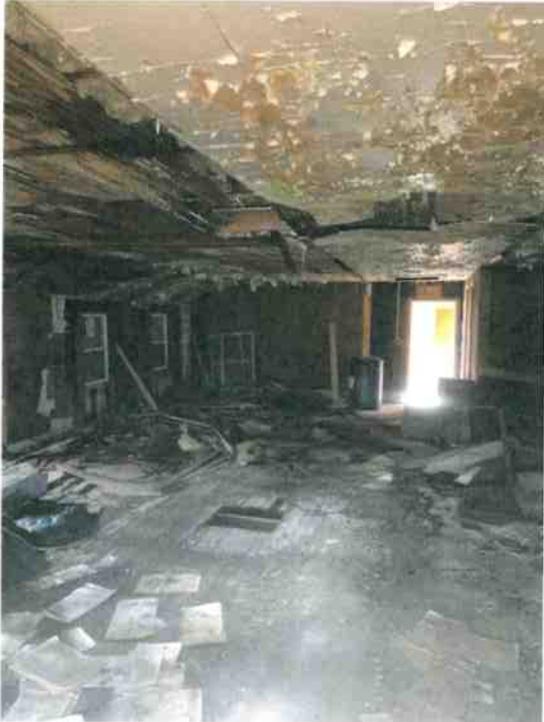


Photo 9- 2<sup>nd</sup> Floor of the Motel facing North



Photo 10- Building across the street from the implement dealership 67 North Main Street



Photo 11- Floor of Building located at 67 North Main Street



Photo 12- Picture of the west side of 72 N Main Street



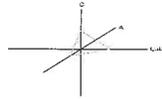
Photo 13- Inside 72 North Main Street for West wall.

# **Crisp Analytical, L.L.C.**

Materials Characterization – Bulk  
Asbestos Analysis Report

**CA Labs**  
Dedicated to  
Quality

**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
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**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **Badlands Environmental Consultants**

1008 East Central Avenue  
Bismarck, ND 58501

Customer Project: P19-0459 62 South Main Street, City of Selfridge  
Reference #: CAL19096256RL Date: 9/16/2019

#### **Analysis and Method**

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

#### **Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

*Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235*  
**AIHA LAP, LLC Laboratory #102929**

Overview of Project Sample Material Containing Asbestos

<b>Customer Project:</b>		P19-0459 62 South Main Street, City of Selfridge		<b>CA Labs Project #:</b> CAL19096256RL	
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
4	4-1	<b>Yellow linoleum and paper backing/ tan linoleum</b>	<b>22% Chrysotile</b>	<b>tan linoleum yellow linoleum tan flooring</b>	
5	5-1	<b>Tan linoleum and paper backing/ yellow linoleum</b>	<b>23% Chrysotile</b>	<b>brown floor tile red floor tile green floor tile</b>	
12	12-1	<b>Tan and brown linoleum floor tiles/ tan flooring</b>	<b>2% Chrysotile</b>	<b>black sealant brown linoleum</b>	
14	14-1	<b>Gray with white dashes floor tile and associated brown glue/ brown floor tile</b>	<b>2% Chrysotile</b>	<b>tan stucco gray surfaced tan stucco* brown surfaced tan compound* tan compound (beneath tape)</b>	
15	15-2	<b>red floor tile</b>	<b>2% Chrysotile</b>	<b>*sample contains Vermiculite</b>	
16	16-2	<b>green floor tile</b>	<b>2% Chrysotile</b>		
32	32-1	<b>Sink undercoating/ black sealant</b>	<b>2% Chrysotile</b>		
34	34-1	<b>Linoleum tile - green/ yellow linoleum</b>	<b>20% Chrysotile</b>		

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235  
**AIHA LAP, LLC Laboratory #102929**

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

## Polarized Light Asbestiform Materials Characterization

**Customer Info: Attn:**  
**Badlands Environmental Consultants**  
1008 East Central Avenue  
Bismarck, ND 58501

**Customer Project:**  
P19-0459 62 South Main  
Street, City of Selfridge  
**Turnaround Time:**  
3 Days

**CA Labs Project #:**  
CAL19096256RL

Phone # 701-223-7335  
Fax # 701-223-7340

**Date:** 9/16/2019  
**Samples Received:** 9/12/19 10:30am  
**Date Of Sampling:** 9/11/2019  
**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		8-2		off-white plaster	y	None Detected		100% qu,ca
9		9-1		White and tan plaster/ white surfaced white stucco	n	None Detected		100% qu,ca,bi
		9-2		white plaster	y	None Detected		100% qu,ca
10		10-1		White and tan plaster/ brown plaster	y	None Detected	2% ce	98% qu,ca
11		11-1		White and tan plaster/ tan surfaced white stucco	n	None Detected		100% qu,ca,bi
		11-2		brown plaster	y	None Detected		100% qu,ca
12		12-1		Tan and brown linoleum floor tiles/ tan flooring	y	2% Chrysotile		98% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

### AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

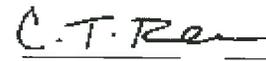
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

  
\_\_\_\_\_  
Jeremy Ayars  
Analyst

  
\_\_\_\_\_  
Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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**Polarized Light Asbestiform Materials Characterization**

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Bismarck, ND 58501

**Customer Project:**  
P19-0459 62 South Main  
Street, City of Selfridge  
**Turnaround Time:**  
3 Days

**CA Labs Project #:**  
CAL19096256RL  
**Date:** 9/16/2019  
**Samples Received:** 9/12/19 10:30am  
**Date Of Sampling:** 9/11/2019  
**Purchase Order #:**

Phone # 701-223-7335  
Fax # 701-223-7340

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		12-2		<i>tan mastic</i>	y	<b>None Detected</b>		100% gy,bi
				<b>White and tan floor tiles with associated brown glue/ tan</b>				
13		13-1		<i>floor tile</i>	y	<b>None Detected</b>		100% qu,ca
		13-2		<i>tan mastic</i>	y	<b>None Detected</b>		100% gy,bi
				<b>Gray with white dashes floor tile and associated brown</b>				
14		14-1		<b>glue/ brown floor tile</b>	y	<b>2% Chrysotile</b>		98% qu,ca
		14-2		<i>tan mastic</i>	y	<b>None Detected</b>		100% gy,bi
15		15-1		<b>Linoleum tile - red/ tan mastic</b>	y	<b>None Detected</b>		100% gy,bi
		15-2		<i>red floor tile</i>	y	<b>2% Chrysotile</b>		98% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

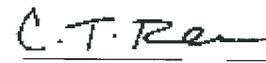
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gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

  
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Analyst

  
Tanner Rasmussen  
Senior Analyst  
Julio Robles

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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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**Polarized Light Asbestiform Materials Characterization**

**Customer Info: Attn:**  
**Badlands Environmental Consultants**  
1008 East Central Avenue  
Bismarck, ND 58501

**Customer Project:**  
P19-0459 62 South Main  
Street, City of Selfridge  
**Turnaround Time:**  
3 Days

**CA Labs Project #:**  
CAL19096256RL

**Date:** 9/16/2019  
**Samples Received:** 9/12/19 10:30am  
**Date Of Sampling:** 9/11/2019  
**Purchase Order #:**

Phone # 701-223-7335  
Fax # 701-223-7340

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
16		16-1	<b>Linoleum tile - yellow/ tan mastic</b>	y	<b>None Detected</b>		100% gy,bi
		16-2	green floor tile	y	<b>2% Chrysotile</b>		98% qu,ca
		16-3	tan mastic	y	<b>None Detected</b>		100% gy,bi
17		17-1	<b>Sheetrock with taping compound/ white compound</b>	y	<b>None Detected</b>		100% qu,ca
		17-2	white drywall with brown paper	n	<b>None Detected</b>	18% ce	82% qu,gy
18		18-1	<b>Sheetrock with taping compound/ white drywall</b>	y	<b>None Detected</b>		100% qu,gy
19		19-1	<b>Sheetrock with taping compound/ white compound</b>	y	<b>None Detected</b>		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

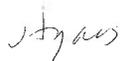
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

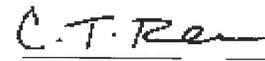
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

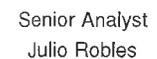
identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

  
Jeremy Ayars  
Analyst

  
Technical Manager  
Tanner Rasmussen

  
Senior Analyst  
Julio Robles

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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested





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## Polarized Light Asbestiform Materials Characterization

**Customer Info: Attn:**  
**Badlands Environmental Consultants**  
1008 East Central Avenue  
Bismarck, ND 58501

**Customer Project:**  
P19-0459 62 South Main  
Street, City of Selfridge  
**Turnaround Time:**  
3 Days

**CA Labs Project #:**  
CAL19096256RL

**Date:** 9/16/2019  
**Samples Received:** 9/12/19 10:30am  
**Date Of Sampling:** 9/11/2019  
**Purchase Order #:**

Phone # 701-223-7335  
Fax # 701-223-7340

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- gene- us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
29		29-1	<i>White texture on sheetrock/ white drywall with brown paper</i>	n	<b>None Detected</b>	18% ce	82% qu,gy
30		30-1	<i>White texture on sheetrock/ white surfaced white compound</i>	n	<b>None Detected</b>		100% mi,ca,bi
		30-2	<i>white drywall with brown paper</i>	n	<b>None Detected</b>	20% ce	80% qu,gy
31		31-1	<i>White texture on sheetrock/ white surfaced white compound</i>	n	<b>None Detected</b>		100% mi,ca,bi
		31-2	<i>white drywall with brown paper</i>	n	<b>None Detected</b>	20% ce	80% qu,gy
32		32-1	<i>Sink undercoating/ black sealant</i>	y	<b>2% Chrysotile</b>		98% gy,bi
33		33-1	<i>Brown tile with clear glue/ brown self-adhesive floor tile</i>	y	<b>None Detected</b>		100% gy,ma,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

### AIHA LAP, LLC Laboratory #102929

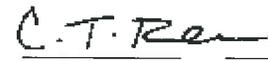
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

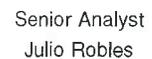
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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Approved Signatories:

  
Jeremy Ayars  
Analyst

  
Tanner Rasmussen  
Senior Analyst

  
Julio Robles

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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Overview of Project Sample Material Containing Asbestos

<b>Customer Project:</b>	P19-0459 62 South Main Street, City of Selfridge		<b>CA Labs Project #:</b>	CAL19096256RL
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

35	35-1	<b>Linoleum tile - gold with brown stripes/ brown linoleum</b>	<b>20% Chrysotile</b>
38	38-1	<b>Gray wall plaster/ tan stucco</b>	<b>Sample Contains Vermiculite</b>
39	39-1	<b>Gray wall plaster/ gray surfaced tan stucco</b>	<b>Sample Contains Vermiculite</b>
44	44-1	<b>Sheetrock with associated paint - brown/ brown surfaced tan compound</b>	<b>2% Chrysotile</b>
	44-2	<b>tan compound (beneath tape)</b>	<b>3% Chrysotile</b>

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235  
**AIHA LAP, LLC Laboratory #102929**

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
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ot - other		ka - kaolin (clay)	

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**Polarized Light Asbestiform Materials Characterization**

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**Turnaround Time:**  
3 Days

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**Date:** 9/16/2019  
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**Date Of Sampling:** 9/11/2019  
**Purchase Order #:**

Phone # 701-223-7335  
Fax # 701-223-7340

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent	
		43-2	yellow ceiling tile	y	<b>None Detected</b>	100% fg		
			<b>Sheetrock with associated paint - brown/ brown surfaced</b>					
44		44-1	tan compound	n	<b>2% Chrysotile</b>		98% mi,ca,bi	
		44-2	tan compound (beneath tape)	y	<b>3% Chrysotile</b>		97% mi,ca	
		44-3	gray drywall with brown paper	n	<b>None Detected</b>	22% ce	78% qu,gy	
			<b>Sheetrock with associated paint - yellow/ orange</b>					
45		45-1	surfacing	y	<b>None Detected</b>		100% qu,bi	
		45-2	gray drywall with brown paper	n	<b>None Detected</b>	22% ce	78% qu,gy	
			<b>Sheetrock with associated paint - gray/ gray surfacing</b>					
46		46-1	gray surfacing	y	<b>None Detected</b>		100% qu,bi	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

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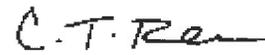
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Approved Signatories:

  
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Analyst

  
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Senior Analyst  
Julio Robles

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 Phone 972-242-2754  
 Fax 972-242-2798

**CA Labs, L.L.C.**  
 12232 Industriplex, Suite 32  
 Baton Rouge, LA 70809  
 Phone 225-751-5632  
 Fax 225-751-5634

**Polarized Light Asbestiform Materials Characterization**

**Customer Info: Attn:**  
**Badlands Environmental Consultants**  
 1008 East Central Avenue  
 Bismarck, ND 58501

**Customer Project:**  
 P19-0459 62 South Main  
 Street, City of Selfridge  
**Turnaround Time:**  
 3 Days

**CA Labs Project #:**  
 CAL19096256RL  
**Date:** 9/16/2019  
**Samples Received:** 9/12/19 10:30am  
**Date Of Sampling:** 9/11/2019  
**Purchase Order #:**

Phone # 701-223-7335  
 Fax # 701-223-7340

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
46-2				gray drywall with brown paper	n	None Detected	22% ce	78% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

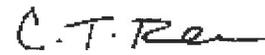
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

  
 \_\_\_\_\_  
 Jeremy Ayars  
 Analyst

  
 \_\_\_\_\_  
 Technical Manager  
 Tanner Rasmussen

  
 \_\_\_\_\_  
 Senior Analyst  
 Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested



Crisp Analytical Laboratories, L.L.C  
1923 Old Denton Rd.  
Carrollton, TX 75006

Phone: 972-242-2754  
Fax: 972-242-2798  
Mobile: 214-564-8368

Chain of Custody

Client Name: Badlands Environmental CA Labs job # CAL 19096256  
Client Address: 1008 E. Central Ave. Billing Address: \_\_\_\_\_  
Bismarck, ND 58501 (if different) \_\_\_\_\_

Phone number: 701-223-7335 P.O. #: City of Selfridge  
Fax number: 701-223-7340 Project Name: 62 South Main Street, Selfridge, ND  
Email: badlands@midconetwork.com Project Number: P19-0459 58568  
Reports Results

Contact: James McGovern VIA: EMAIL  FAX  VERBAL   
Total # Samples Submitted: 46 Total # Samples to be Analyzed: 46 Material Matrix:  
Air / Bulk / Water

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>	<u>2 hour</u>	PCM: NIOSH 7400	Note TAT
AHERA	4 hour	<u>Improved</u>	4 hour	Allergen Particle:	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	AHERA	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	<u>3 days</u>	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	<u>5 days</u>	Bacteria cultures	bacteria

*Please indicate appropriate turn around time. (minimum turnaround - 24 hrs for Lead TCLP and water)*

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	
TA Time:	<u>8 hour</u>	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
<u>See Attached</u>	<u>COC</u>		

Custody Information:

Samples relinquished: [Signature] 9-11-19 12:45 pm Signature / Date / Time  
Samples received: \_\_\_\_\_ Signature / Date / Time  
Samples relinquished: \_\_\_\_\_ Signature / Date / Time  
Samples received: [Signature] 9-12-19 10:30 AM Signature / Date / Time

ENVIRONMENTAL CONSULTANTS, INC.  
 1008 East Central Avenue, Bismarck, ND 58501  
 Phone: (701) 223-7335 FAX: (701) 223-7340

REC 9-12-19  
 AHA

CAL 17096256

BULK ASBESTOS SAMPLING CHAIN OF CUSTODY RECORD

Project Identification Number: P19-0459

62 South Main Street Selfridge, ND 58568 Hotel

Person Sampling: JWC

Turnaround Required: (circle one) 4 hour 24 hour 48 hour 3-5 day Standard

Sample No.	Sample Date	Material Description/Location	Friable (F) or Non-Friable (NF)
1	9-11-19	Exterior Paneling - <del>Stucco</del> White & grey paint - South side	
2			
3			
4		- West side	
5		Yellow linoleum + Paper backing - Upstairs Bathroom	
6		Tan linoleum ↓	
7		White + Gold Wood Panel with Black Backing - Upstairs Bathroom	
8		White + Tan Plaster - Upstairs - Bathroom	
9		- Common	
10		- Stairwell	
11		1st floor - Commons	
12		- Men Restroom	
13		Tan + Brown linoleum Floor Tiles - Main level Entry -	
		White and Tan Floor Tiles with associated - Brown Glue - Old Kitchen	

Relinquished by:  9-11-19 Date

Received By:  Date: 9-12-19 10:30 AM

Relinquished by:  Date: 9-12-19 10:30 AM

BULK ASBESTOS SAMPLING/CHAIN OF CUSTODY RECORD

Project Identification Number: P19-0459

62<sup>South</sup> Main Street Selfridge, ND 58568

Hotel

Person Sampling: JWC

Turnaround Required: (circle one) 4 hour 24 hour 48 hour 3-5 day Standard

Sample No.	Sample Date	Material Description/Location	Friable (F) or Non-Friable (NF)
14	9-11-19	Grey with white dashes floor tile and associated Brown Glue - Old Kitchen	
15		linoleum tile - Red - NW Room - Main floor	
16		- Yellow - NW Room - Main floor	
17		Sheetrock with Taping Compound - Main floor - North side	
18		- South side	
19		- West side	
20		- East side	
21		- Ceiling	
22		White + Tan linoleum - Bathroom - South Trailer	
23		Blue + Grey linoleum - Living Room - No Glue	
24		White + Grey linoleum - Kitchen -	
25		White linoleum - Hallway -	
26		White texture on wood panel - Bedroom - South Trailer	

Relinquished by:  Date: 9-11-19

Received By:  Date: 9-12-19 10:30AM

BULK ASBESTOS SAMPLING/CHAIN OF CUSTODY RECORD

62 South Main Street Selfridge, ND 58568

Project Identification Number: P19-0459

Person Sampling: JWC

Turnaround Required: (circle one) 4 hour 24 hour 48 hour 3-5 day Standard

Sample No.	Sample Date	Material Description/Location	Friable (F) Non-Friable
27	9-11-19	White texturing - on Panels - Bedroom - West - South Trailer	
28		↓ - Kitchen - South - ↓	
29		White texture on <sup>Skotch</sup> ceiling - South. Bedroom - Ceiling - North Trailer	
30		↓ Living Room ↓	
31		↓ Kitchen ↓	
32		Sink Undercoating - Back - Kitchen - North Trailer	
33		Brown tile - with clear glue - Kitchen - North Trailer	
34		linoleum tile - Green with paper backing - Bathroom - North Trailer	
35		↓ - Gold with brown stripes - with associated mastic - Bathroom	
36		↓ - Blue <sup>tile</sup> with associated Mastic - Bathroom	
37		Gray wall plaster - North End - Implement Dealer -	
38		↓ - South End - ↓	
39		↓ - West End - ↓	

Relinquished by 

9-11-19 Date

Received By \_\_\_\_\_ Date \_\_\_\_\_

Received By 

9-12-19 10:30 Date

Date

Relinquished by

BADLANDS ENVIRONMENTAL CONSULTANTS, INC.  
 1008 East Central Avenue, Bismarck, ND 58501  
 Phone: (701) 223-7335 FAX: (701) 223-7340

CM 19090256

BULK ASBESTOS SAMPLING/CHAIN OF CUSTODY RECORD

Project Identification Number: 819-0459

Person Sampling: JWC

Split Mileage  
 White 79 N Main St  
 67 W Main St  
 Selfridges, ND 58566

Sample No.	Sample Date	Material Description/Location	4 hour	24 hour	48 hour	3-5 day Standard	Friable (F) or Non-Friable (NF)
40	9-11-19	Plaster Ceiling - Gray - East End - Implement Dealer					
41		↓					
42		2x4' Ceiling Tiles - Middle of Ceiling - Implement Dealer					
43		↓ White Middle of Ceiling					
44		↓ Dot and fissure - White					
45		Sheet rock with associated paint - Brown - South office					
46		↓ Yellow - North office					
47		↓ Gray - Outside North Office					
48							
49							
50							
51							
52							

Relinquished by  Date 9-11-19

Received By \_\_\_\_\_ Date \_\_\_\_\_  
 Received By C. Miller Date 9-12-19 10:30 AM  
 Received By \_\_\_\_\_ Date \_\_\_\_\_

# **North Dakota Department of Health**

## **Vermiculite Letter**



MEMO TO : North Dakota Licensed Asbestos Contractors

FROM : Terry L. O'Clair, P.E.  
Director  
Division of Air Quality *TLO*

RE : ND Department of Health Vermiculite Policy

DATE : June 11, 2018

Vermiculite is a naturally-occurring mineral composed of shiny flakes. A mine near Libby, Montana, was the source of over 70 percent of all vermiculite sold in the United States from 1919 to 1990. There was also a deposit of asbestos at that mine, so the vermiculite from Libby was contaminated with asbestos. Vermiculite from Libby was used in the majority of vermiculite insulation in the United States and was often sold under the brand name Zonolite.

The ND Department of Health is in agreement with the current EPA stance that there are currently no validated and approved analytical methodologies to accurately analyze and quantify asbestos concentrations in vermiculite.

EPA has also determined that vermiculite is not a Category I or Category II asbestos-containing material (ACM). Rather, it is a friable ACM. Therefore, vermiculite that will be disturbed during demolition or renovation activities, such as vermiculite attic insulation, block fill, packing material, etc., must be treated as a Regulated Asbestos-Containing Material (RACM). The vermiculite must be assumed as RACM, identified as RACM in the written survey report, and managed as RACM in accordance with all the requirements of the ND Air Pollution Control Rules, 33-15-13-02, Emission Standards for Asbestos. The Department will not accept current testing methods that may classify vermiculite as non-ACM.

TLO/JKK:saj

APPENDIX D

LABORATORY ANALYTICAL RESULTS AND VALIDATION REPORT

(14 Pages)

Report for:

**Lawrence Burns**  
**Tetra Tech: SA-Region 8**  
1560 Broadway  
Suite 1400  
Denver, CO 80202

---

Regarding: Project: Selfridge Abandoned Buildings  
EML ID: 2785834

Approved by:

Dates of Analysis:  
Asbestos PLM: 11-17-2021



Approved Signatory  
Amber Rutter

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)  
NVLAP Lab Code 500053-0

---

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Tetra Tech: SA-Region 8  
 C/O: Lawrence Burns  
 Re: Selfridge Abandoned Buildings

Date of Receipt: 11-12-2021  
 Date of Report: 11-17-2021

**ASBESTOS PLM REPORT**

<b>Total Samples Submitted:</b>	18
<b>Total Samples Analyzed:</b>	18
<b>Total Samples with Layer Asbestos Content &gt; 1%:</b>	9

**Location: S-I-DWJC-01, Drywall and joint compound**

Lab ID-Version‡: 13335050-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Off-White Joint Compound	2% Chrysotile
<b>Composite Asbestos Fibrous Content:</b>	< 1% Asbestos
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Comments:** Composite content provided for this analysis has been performed by following the NESHAP guidelines.

**Location: S-I-ST01, Stucco**

Lab ID-Version‡: 13335051-1

Sample Layers	Asbestos Content
White Stucco	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: S-I-RT01, Roof tar**

Lab ID-Version‡: 13335052-1

Sample Layers	Asbestos Content
Black Roofing Tar and Felt	10% Chrysotile
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: S-I-RF01, Roof felt**

Lab ID-Version‡: 13335053-1

Sample Layers	Asbestos Content
Black Roofing Felt	ND
<b>Composite Non-Asbestos Content:</b>	55% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Tetra Tech: SA-Region 8  
 C/O: Lawrence Burns  
 Re: Selfridge Abandoned Buildings

Date of Receipt: 11-12-2021  
 Date of Report: 11-17-2021

**ASBESTOS PLM REPORT**

**Location: S-A-FT01, Floor tile**

Lab ID-Version‡: 13335054-1

Sample Layers	Asbestos Content
Beige Floor Tile	ND
Black Mastic	10% Chrysotile
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: S-A-DW01, Drywall**

Lab ID-Version‡: 13335055-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Off-White Compound	2% Chrysotile
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: S-M-SF01, Sheet flooring**

Lab ID-Version‡: 13335056-1

Sample Layers	Asbestos Content
Yellow Sheet Flooring with Fibrous Backing	20% Chrysotile
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b> Good	

**Location: S-M-FT01, Floor tile**

Lab ID-Version‡: 13335057-1

Sample Layers	Asbestos Content
Brown Floor Tile	2% Chrysotile
Yellow Mastic	ND
<b>Sample Composite Homogeneity:</b> Moderate	

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‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Tetra Tech: SA-Region 8  
 C/O: Lawrence Burns  
 Re: Selfridge Abandoned Buildings

Date of Receipt: 11-12-2021  
 Date of Report: 11-17-2021

**ASBESTOS PLM REPORT**

**Location: S-M-FT02, Floor tile**

Lab ID-Version‡: 13335058-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Red Floor Tile	2% Chrysotile
Semi-Transparent Mastic	ND
<b>Sample Composite Homogeneity:</b> Poor	

**Location: S-M-FT03, Floor tile**

Lab ID-Version‡: 13335059-1

Sample Layers	Asbestos Content
Brown Floor Tile	2% Chrysotile
Yellow Mastic	ND
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: S-L-RT01, Roofing tar**

Lab ID-Version‡: 13335060-1

Sample Layers	Asbestos Content
Multicolored Roofing Tar	5% Chrysotile
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: S-L-PL02, Plaster**

Lab ID-Version‡: 13335061-1

Sample Layers	Asbestos Content
Gray Plaster	ND
<b>Sample Composite Homogeneity:</b> Good	

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Tetra Tech: SA-Region 8  
 C/O: Lawrence Burns  
 Re: Selfridge Abandoned Buildings

Date of Receipt: 11-12-2021  
 Date of Report: 11-17-2021

**ASBESTOS PLM REPORT**

**Location: S-L-ST01, Stucco**

Lab ID-Version‡: 13335062-1

Sample Layers	Asbestos Content
Gray Stucco	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: S-L-BM01, Brick and mortar**

Lab ID-Version‡: 13335063-1

Sample Layers	Asbestos Content
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: S-L-BM02, Brick and mortar**

Lab ID-Version‡: 13335064-1

Sample Layers	Asbestos Content
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: S-L-BM03, Brick and mortar**

Lab ID-Version‡: 13335065-1

Sample Layers	Asbestos Content
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b> Good	

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Tetra Tech: SA-Region 8  
 C/O: Lawrence Burns  
 Re: Selfridge Abandoned Buildings

Date of Receipt: 11-12-2021  
 Date of Report: 11-17-2021

**ASBESTOS PLM REPORT**

**Location: S-L-PL01, Plaster**

Lab ID-Version‡: 13335066-1

Sample Layers	Asbestos Content
Gray Plaster	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: S-L-WM01, Wall mastic**

Lab ID-Version‡: 13335067-1

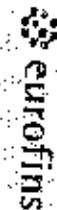
Sample Layers	Asbestos Content
Black Mastic	ND
<b>Sample Composite Homogeneity:</b> Good	

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

CHAIN OF CUSTODY



EML35 P&K

www.EMLabPR.com  
 Marlton, NJ: 3000 Lincoln Dr E. Ste. A Marlton, NJ 08053 \* (966) 871-1984  
 Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 \* (800) 651-4802  
 SFF, CA: 6000 Shoreline Ct, Ste. 206, S. San Francisco, CA 94060 \* (966) 888-6653

WEATHER:		Fog	Rain	Snow	Wind	Clear
None						
Light						
Moderate						
Heavy						

**CONTACT INFORMATION**

Company: Tetra Tech SA-Region 8 (59310)  
 Address: 1560 Broadway Suite 1400 Denver, CO 80202  
 Contact: Lawrence Butts  
 Phone: 570-777-4880  
 Special Instructions:

**PROJECT INFORMATION**

Project ID: *Schroder's Abandoned Buildings*  
 Project Description: *Schroder's Abandoned Buildings*  
 Project Code: *MD - Next Business Day*  
 Z/S Code: *SO - Same Business Day*  
 PO Number: *WH - Weekend/holiday/SAP*

**TURNAROUND TIME CODES - (TAT)**

STD - Standard (Default)  
 MD - Next Business Day  
 SO - Same Business Day  
 WH - Weekend/holiday/SAP

Notes: Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

SAMPLE ID	DESCRIPTION	Sample Type (below)	TAT (Approx)	Total Volume/Area (as applicable)	NOTES (Time of day, Temp, RH, etc)
SI-DUSCO1	Department & Scent comparison	B	STD		collected 2/1/21
SI-STO1	Shed				
SI-VTO1	Leaking Tank				
SI-PTO1	Leaking Tank				

**SAMPLE TYPE CODES**

BC - Biocassette	CP - Oxidized Plate	T - Tape	O - Other
AIS - Andersen	ST - Spore Trap	SW - Swab	
SAS - Surface Air Sampler	B - Bulk	SO - Soil	
NP - Non-potable Water	P - Potable Water	D - Dust	

REQUISITIONED BY: *[Signature]*  
 DATE & TIME: *2/1/21*

RECEIVED BY: *[Signature]*  
 DATE & TIME: *2/1/21*

**REQUESTED SERVICES**

Non-Culturable: Spore Trap, Swab, BU

Culturable: Andersen, SAS, Dust, Soil

Other Requests:

Spore Trap Analysis

Clear biological particles - *002785834*

Direct Microscopic Exam

Quantitative spore count

Dust Characterization

T-Media Surface Fungi

Culturable Air Fungi

Gram Stain and Counts (Culturable)

Legionella culture

Total Coliform, E.coli (Presence/Absence)

Quant/Tray-Sewage Screen

OTHER: (please specify test)

Asbestos in Air - PCM Asbestos Fiber Count (NIOSH 7400)

Asbestos Bulk - PLM

Lead (Pb) - Flame AA

PCR (please specify test)

Allergens (please specify test)

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at <http://www.emlab.com/terms-of-service>

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CHAIN OF CUSTODY  EMLab P&K  
www.EMLabPK.com

Marlton, NJ: 8000 Lincoln Dr E, Ste. A, Marlton, NJ 08053 \* (856) 871-1984  
Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 \* (602) 551-4802  
SSF, CA: 6000 Shoreline Ct Ste. 205, S. San Francisco, CA 94080 \* (986) 888-8553

WEATHER:	Fog	Rain	Snow	Wind	Clear
None					
Light					
Moderate					
Heavy					

REQUESTED SERVICES	
Non-Culturable	Culturable
Spore Trap	BioCassette "A" or "B" Swab, Water, Bulk
Tap, Swab, Bulk	Other Requests

**CONTACT INFORMATION**

Company: Tetra Tech: SA-Region 8 (39310) Address: 1560 Broadway Suite 1400 Denver, CO 80202

Contact: Lawrence Burns Special Instructions:

Phone: 570-777-4860

**PROJECT INFORMATION**

Project ID: Selfridge Aberdeen Buildings

Project Description: Sampling Date/Time: 9/14/21 Sampled By: [Signature]

PO Number: [Blank]

SAMPLED	DESCRIPTION	Sample Type (Below)	TAT (Above) (For application)	Total Volume/Avg (For application)	NOTES (Time of day, temp, RH, etc.)	TURN AROUND TIME CODES - (TAT)	
						STD - Standard (Default)	ND - Next Business Day
SA-H101	Flour pile	B	STD		collected 9/14/21		
SA-D101	Dry room	B	STD				

**SAMPLE TYPE CODES**

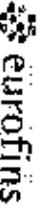
BC - BioCassette	CP - Contact Plate	T - Tape	O - Other
A19 - Andersen	ST - Spore Trap	SW - Swab	
SAS - Surface Air Sampler	B - Bulk	SO - Soil	
NP - Non-potable Water	P - Potable Water	D - Dust	

**REINQUISHED BY** [Signature] **DATE & TIME** 9/14/21

**RECEIVED BY** [Signature] **DATE & TIME**



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WEATHER		Fog	Rain	Snow	Wind	Clear
None						
Light						
Moderate						
Heavy						

CONTRACT INFORMATION

Company: Tetr Tech SA-Region 8 (39310) Address: 1560 Broadway Suite 1400 Denver, CO 80202  
 Contact: Lawrence Burns Special Instructions:  
 Phone: 370-777-4860

PROJECT INFORMATION

Project ID: Selridge abandoned Buildings  
 Description: Selridge abandoned Buildings  
 Project: Selridge abandoned Buildings  
 Zip Code: [Blank]  
 PO Number: [Blank]

RETURN AROUND TIME CODES - (TAT)

STD - Standard (Default) Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.  
 ND - Next Business Day  
 SD - Same Business Day  
 WH - Weekend/Holiday/SAP

SAMPLE ID	DESCRIPTION	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	NOTES (Time of day, Temp, RH, etc.)
S-M-SE01	Swab Floor	ASB	STD		collected 8/21
S-M-F101	Floor tile				
S-M-F102	Floor tile				
S-M-F108	Floor tile				

REQUESTED SERVICES	
Non-Culturable	Spore Trap Analysis
	Other biological particles - supplement
	Direct Microscopic Exam (Qualitative)
	Quantitative spore count direct exam
	Dust Characterization
Culturable	1-Meth Surface Fungi (Genus ID + Asp. spp.)
	Culturable Air Fungi (Genus ID + Asp. spp.)
	Gram Stain and Co. (Genus ID + Surface Bacteria)
	Lagowalls
	Total Coli
	Quant
	OTHER:
Other Requests	Asbestos & Air - PCM ATP
	Asbestos Bulk - PCM
	Lead (Pb) - Flame AA
	PCR (please specify test)
	Aerogens (please specify test)

SAMPLE TYPE CODES

BC - BioCassette™	CP - Contact Plate	T - Tape	O - Other
A15 - Andersen	ST - Spore Trap	SW - Swab	
SAS - Surface Air Sampler	B - Bulk	SO - Soil	
NP - Non-splorable Water	P - Potable Water	D - Dust	

RELINQUISHED BY

[Signature]

DATE & TIME

8/10/21

RECEIVED BY

[Signature]

DATE & TIME

8/10/21



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 SF, CA: 6000 Shoreline Ct, Ste. 205, S. San Francisco, CA 94080 \* (661) 886-6653

WEATHER:	Fog	Rain	Snow	Wind	Clear
None					
Light					
Moderate					
Heavy					

CONTACT INFORMATION

Company: Terra Tech, SA-Region 8 (39510) Address: 1260 Broadway Suite 1400 Denver, CO 80202  
 Contact: Lawrence Barrs  
 Phone: 370-777-4860 Special Instructions:

PROJECT INFORMATION

Project ID: S-1003  
 Project Description: Selfridge Abandoned Bldg. Kings  
 Project Address: Kings  
 Project Zip Code: 55  
 Project PO Number: 55

TURNAROUND TIME CODES - (TATT)

STD - Standard (Default)  
 ND - Next Business Day  
 SD - Same Business Day  
 WH - Weekend/Holiday/SAP  
 Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

SAMPLE ID	DESCRIPTION	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	NOTES (Time of day, Temp, etc.)
S-L-1001	Booby Tr	B	STD		Collected Mar 21
S-L-1002	Duster				
S-L-1001	Swab				
S-L-1001	BioC & Mox				
S-L-1002	BioC & Mox				
S-L-1003	BioC & Mox				
S-L-1001	Plaster				
S-L-1001	Wash waste				

SAMPLE TYPE CODES

BC - BioCassette  
 AT - Andersen  
 SAS - Surface Air Sampler  
 NP - Non-potable Water

CF - Contact Plate  
 ST - Spore Trap  
 B - Bulk  
 P - Potable Water

T - Tape  
 SW - Swab  
 SO - Soil  
 D - Dust

O - Other

REINQUISHED BY

DATE & TIME

RECEIVED BY

DATE & TIME

REQUESTED SERVICES

Spore Trap Analysis	Non-Quantitative	Spore Trap	Biocassette Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plate
Other biological particles - supplement	Quantitative	Tape, Swab, Bulk	Culturable
Direct Microscopic Exam (Qualitative)	Other		Other Requests
Quantitative spore count direct exam			
Dust Characterization			
1-Media Surface Fungi (Genus ID + Asp. spp.)			
Culturable Air Fungi (Genus ID + Asp. spp.)			
Gram Stain and Counts (Genus ID + Surface Bacteria)			
Legionella cult			
Total Colb			
Quant Tray			
OTHER (please specify)			
Asbestos in Air - PCM Air			
Asbestos Bulk - PLM			
Lead (Pb) - Flame AA			
PCR (please specify test)			
Allergens (please specify test)			



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December 3, 2021

Ms. Joyce Ackerman  
On-Scene Coordinator  
U.S. Environmental Protection Agency, Region 8  
Superfund and Emergency Management Division  
1595 Wynkoop Street  
Denver, CO 80202

**Subject: Data Validation Report  
Selfridge Abandoned Buildings Site  
EPA Contract No.: 68HE0820D0001  
Task Order/Technical Direction No.: 2071-2110-07  
Document Tracking No. 0572a**

Dear Ms. Joyce Ackerman:

Tetra Tech, Inc. (Tetra Tech) is submitting this data validation report for eighteen building materials samples collected at the Selfridge Abandoned Buildings Site. The samples were collected November 9, 2021 and were analyzed for asbestos by Eurofins EMLab P&K. The final laboratory data package was received on November 17, 2021.

Analytical data were evaluated in general accordance with the Tetra Tech Programmatic Quality Assurance Project Plan for Emergency Response and Site Assessment Task Orders and the EPA *NFG for Inorganic Superfund Methods Data Review* (January 2017).

No results were rejected or qualified in this data package. The results may be used as reported by the laboratory based on the findings of this validation effort.

If you have any questions regarding this data validation report, please call me at (612) 419-7266.

Sincerely,

A handwritten signature in black ink that reads 'Talaidh Isaacs'.

Talaidh Isaacs  
Environmental Chemist

Enclosure

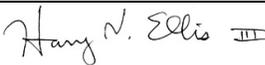
cc: Kevin Scott, Tetra Tech Program Manager  
Lawrence Burns, Tetra Tech Project Manager  
Clayton Longest, Tetra Tech Project Document Control Coordinator  
TO/TD File

Tetra Tech, Inc.  
1560 Broadway, Suite 1400, Denver, CO 80202  
Tel 303.312.8800  
[www.tetrattech.com](http://www.tetrattech.com)

**ATTACHMENT**

**DATA VALIDATION REPORT  
EUROFINS EMLAB P&K REPORT NO. 2785834**

**DATA VALIDATION CHECKLIST – STAGE 2A  
EPA REGION 8 START CONTRACT**

<b>Site Name</b>	Selfridge Abandoned Buildings Site	<b>TO/TD No.</b>	68HE0820D0001/2071-2110-07
<b>Document Tracking No.</b>	0572a	<b>Technical Reviewer (signature and date)</b>	 1 December 2021
<b>Data Reviewer (signature and date)</b>	 Nov 30 2021	<b>Laboratory</b>	Eurofins – EMLab P&K, Arvada CO
<b>Laboratory Report No.</b>	2785834		
<b>Analyses</b>	Asbestos by EPA Method 600/R-90-116		
<b>Samples and Matrix</b>	Eighteen bulk building materials samples		
<b>Field Duplicate Pairs</b>	NA		
<b>Field QC Blanks</b>	NA		

**INTRODUCTION**

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Programmatic Quality Assurance Project Plan for Emergency Response and Site Assessment Task Orders, Superfund Technical Assessment and Response Team (START V), EPA Region 8, Revision 4* (May 2021), and the EPA *NFGs for Inorganic Superfund Methods Data Review* (November 2020).

**OVERALL EVALUATION**

No results were rejected or qualified in this data package. The results may be used as reported by the laboratory.

**Data completeness:**

Within Criteria	Exceedance/Notes
Y	The reported results were reviewed for completeness and accuracy based on data provided.

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
Y	

**DATA VALIDATION CHECKLIST – STAGE 2A  
EPA REGION 8 START CONTRACT**

**Method blanks:**

Within Criteria	Exceedance/Notes
NA	

**Field blanks:**

Within Criteria	Exceedance/Notes
NA	

**Surrogates and labeled compounds:**

Within Criteria	Exceedance/Notes
NA	

**MS/MSDs:**

Within Criteria	Exceedance/Notes
NA	

**Laboratory duplicates:**

Within Criteria	Exceedance/Notes
NA	

**Field duplicates:**

Within Criteria	Exceedance/Notes
NA	

**DATA VALIDATION CHECKLIST – STAGE 2A  
EPA REGION 8 START CONTRACT**

**LCSs/LCSDs:**

Within Criteria	Exceedance/Notes
NA	

**Sample dilutions:**

Within Criteria	Exceedance/Notes
NA	

**Re-extraction and reanalysis:**

Within Criteria	Exceedance/Notes
NA	

**MDLs/RLs:**

Within Criteria	Exceedance/Notes
NA	

**Tentatively identified compounds:**

Within Criteria	Exceedance/Notes
NA	

**Other [specify]:**

Within Criteria	Exceedance/Notes
NA	

## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 8 START CONTRACT

### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

SELFRIDGE ABANDONED BUILDINGS SITE BUILDING MATERIALS ANALYTICAL RESULTS SUMMARY  
EUROFINS EMLAB P+K REPORT NO. 12269516

Sample ID	Sample Color	Sample Description	Homogeneity	Asbestos Type	Lab Result	Lab Qual	Units	Val Result	Val Qual
S-I-DWJC-01	White	Drywall with Brown Paper	Moderate		ND		%		U
S-I-DWJC-01	Off-White	Joint Compound	Moderate	Chrysotile	2		%	2	
S-I-ST01	White	Stucco	Good		ND		%		U
S-I-RT01	Black	Roofing Tar and Felt	Moderate	Chrysotile	10		%	10	
S-I-RF01	Black	Roofing Felt	Good		ND		%		U
S-A-FT01	Beige	Floor Tile	Moderate		ND		%		U
S-A-FT01	Black	Mastic	Moderate	Chrysotile	10		%	10	
S-A-DW01	White	Drywall with Brown Paper	Moderate		ND		%		U
S-A-DW01	Off-White	Compound	Moderate	Chrysotile	2		%	2	
S-M-SF01	Yellow	Sheet Flooring with Fibrous Backing	Good	Chrysotile	20		%	20	
S-M-FT01	Brown	Floor Tile	Moderate	Chrysotile	2		%	2	
S-M-FT01	Yellow	Mastic	Moderate		ND		%		U
S-M-FT02	Yellow	Mastic	Poor		ND		%		U
S-M-FT02	Red	Floor Tile	Poor	Chrysotile	2		%	2	
S-M-FT02	Semi-Transparent	Mastic	Poor		ND		%		U
S-M-FT03	Brown	Floor Tile	Moderate	Chrysotile	2		%	2	
S-M-FT03	Yellow	Mastic	Moderate		ND		%		U
S-L-RT01	Multicolored	Roofing Tar	Moderate	Chrysotile	5		%	5	
S-L-PL02	Gray	Plaster	Good		ND		%		U
S-L-ST01	Gray	Stucco	Good		ND		%		U
S-L-BM01	Gray	Mortar	Good		ND		%		U
S-L-BM02	Gray	Mortar	Good		ND		%		U
S-L-BM03	Gray	Mortar	Good		ND		%		U
S-L-PL01	Gray	Plaster	Good		ND		%		U
S-L-WM01	Black	Mastic	Good		ND		%		U