NARRATIVE REPORT

1.0 **BUILDING INFORMATION**

Old Main was originally constructed in 1891; a 1919 addition extended the building to the north, a 1928 addition extended the building to the northwest, a 1941 addition completed the middle of the building, a 1950 addition extended the building to the north, and a 1991 addition extended the building to the north.

Old Main is a five-story, 35,827 ft² building which primarily serves as office areas for administrative personnel.

The interior floor finishes included floor tile, carpet, ceramic tile, wood, sheet vinyl flooring, and concrete; the interior wall finishes included gypsum wallboard, concrete, concrete block, wood, and plaster; and the interior ceiling finishes included ceiling tile, gypsum wallboard, wood, and concrete. The roofing system is a peaked-cedar shingled roof over the south end of the building and a flat rubber-membrane roof over the north end of the building; the exterior of the structure is brick and concrete.

The piping systems were insulated; fiberglass insulation (without hard fittings) and aircell insulation (with hard fittings) are located in the building. Steam and domestic water enter the building in room 15. HVAC systems located in the building consisted of steam radiators and forced air furnaces equipped with heating/cooling coils.

2.0 **ASBESTOS SURVEY INFORMATION**

Old Main was surveyed as part of a larger project on NDSU's Fargo, ND Campus. This report is part of "Volume 1" of a nine volume series. This report includes building specific information only; please refer to the opening section of "Volume 1" for methodologies, definitions, and other pertinent supporting information.

A total of 123 samples were collected from suspect asbestos-containing materials (ACM) from Old Main on April 19, 2007, an additional 4 samples were collected on July 3, 2007, an additional 1 sample was collected on December 27, 2007, and an additional 7 samples were collected on April 2 2008. Laboratory analysis results indicate 30 of these samples tested positive for asbestos.

2.1 Suspect Materials Identified and Sampled

Stair Tread Adhesive Hard Fittings on Aircell Insulation Floor Tile Mastic (3 types)

Gypsum Wallboard (6 types) Baseboard Adhesive (4 types)

Carpet Mastic (5 types)

Sheet Vinyl Flooring Adhesive (3 types) Underlayment Paper for Linoleum

Floor Filler Material Residual Black Mastic Ceiling Texture

Hard Plaster- Basecoat

Aircell Pipe Insulation Floor Tile (3 types) Ceiling Tile (7 types) Joint Compound (5 types)

Glue Puck

Sheet Vinyl Flooring (4 types)

Linoleum Wall Texture

Paper Wrap (on duct) HVAC Duct Caulk (2 types) Hard Plaster- Skimcoat Hard Plaster- Monocoat Vermiculite Insulation
Exterior Building Seam Caulk (2 types)
Encapsulant on Fiberglass Insulation
Ceramic Tile Adhesive

Exterior Window Caulk (2 types)
Exterior Penetration Putty
Roof Tarpaper
Sink Undercoating (2 types)

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 <u>Asbestos Containing Materials</u>

Aircell Pipe Insulation
Hard Fittings on Aircell Insulation
12" Ceiling Tile with Fissures and Pinholes
2'x4' White Ceiling Tile with Widthwise Fissures and Pinholes
2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes
Joint Compound
Black Sink Undercoating
Unknown Green Floor Tile
9" Floor Tile and Mastic (assumed)
Transite Panels (assumed)

The ACM Locations/ Friable Materials Assessments Table includes ACM locations data.

2.3 **Cost Estimates**

Legend Technical Services Inc. estimates abatement costs (removal & disposal) of ACM for Old Main as follows:

| ACM | QUANTITY | UNIT COST | TOTAL COST | | | | |
|---|-----------------------|-------------------------|-------------|--|--|--|--|
| Asbestos Aircell Pipe Insulation | 158 ft | \$25.00/ft | \$3,950.00 | | | | |
| Asbestos Hard Fittings on Aircell Insulation | 29 ea | \$25.00/ea | \$725.00 | | | | |
| Asbestos Floor Tile and/or Mastic (all types) | 3,835 ft ² | \$4.00/ft ² | \$15,340.00 | | | | |
| Asbestos Ceiling Tile (all types) | 6,130 ft ² | \$5.00/ft ² | \$30,650.00 | | | | |
| Asbestos Joint Compound | 7,771 ft ² | \$5.00/ ft ² | \$38,855.00 | | | | |
| Asbestos Black Sink Under Coating | 1 ea | \$150.00/ea | \$150.00 | | | | |
| Asbestos Transite Panel | 21 ft ² | \$5.00/ ft ² | \$105.00 | | | | |
| Total Abatement Cost | Total Abatement Cost | | | | | | |

2.4 **Survey Notes**

LEGEND identified and collected samples from numerous separate types (homogeneous areas) of joint compound on gypsum wallboard in Old Main from multiple separate addition or renovation vintages. Joint compound used in a 1969 renovation throughout the basement, 1st, and 2nd floors tested positive for asbestos, only. LEGEND visually quantified the ACM joint compound from the 1969 renovation using available architectural drawings where applicable; the ACM joint compound is a white/light gray color and is installed on a yellow papered gypsum wallboard. Areas identified by LEGEND to contain the ACM joint compound are indicated in the ACM Locations Tables and Diagrams.

LEGEND identified and sampled Vermiculite Insulation being used to fill wall cavities in Old Main; it tested <1% for asbestos. EPA regulations concerning vermiculite insulation are expected to be revised in the near future; LEGEND anticipates new analytical methods will replace current methods for the bulk analysis of vermiculite insulation for asbestos. If new analytical methods are eventually required, the vermiculite insulation will need to be resampled and analyzed using the updated methods.

NDSU records indicate ACM insulation was identified by prior sampling in room 310A1. The material was 80% Amosite, 5% Chrysotile, and 15% other. LEGEND was unable to locate this material; NDSU records indicate the material is in an access panel in the floor (above the 2nd floor ceiling). As per conversations with the NDSU Safety and Police Office, the ACM insulation is believed to be in a sealed access panel in the floor in room 310A1 to the east of room 310B (close to the northeast corner of room 310B).

Summer 2014 Provost office remodeling revealed exterior wall chases with Aircell TSI on the covered portions of the piping.

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE 5 5 5 F | ASSESS. CAT. ¹ | NOTES |
|--|-------------------|---------------------|------------------------------|--------------------|--|------------------------------|---|
| Room 8 | | | | | | | |
| Joint Compound | 2-3% Chrysotile | 217 ft ² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the south and east walls. |
| Room 9 Abated w | //Purchasing Rei | model July | 2007 | | • | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 112 ft² | Friable Miscellaneous | Good | Physical □□■ Air Erosion □■□ Vibration ■□□ | 6 | None |
| Room 10 | | | | | | | |
| 9" Floor Tile and Mastic | Assumed | 64 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| Room 11 Abated F | ebruary 2009 | | 1 | 1 | 1 | 1 | |
| 2'x4' Ceiling Tile with tengthwise Fissures and Pinholes | | 160 | Friable Miscellaneous | Damaged | Physical □□■ Air Erosion □■□ Vibration ■□□ | 4 | None |
| Aircell Pipe Insulation | 25-50% Chrysotile | 43 ft | Friable TSI | Damaged | Physical □■□ Air Erosion ■□□ Vibration ■□□ | 1 | The asbestos aircell pipe insulation is above the ceiling tile. |
| Hard Fittings on Aircell Insulation | 30-40% Chrysotile | 10 fittings | Friable TSI | Damaged | Physical □■□ Air Erosion □□□ Vibration □□□ | 1 | None |
| toint Compound | 2-3% Chrysotile | 213 ft² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the north wall and the east wall near the entrance of room 11E. |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | HIGH | ASSESS. CAT. ¹ | NOTES |
|--|-------------------|------------------|--------------------------|--------------------|--------------------------------------|------|------------------------------|---|
| Room 11B Abated F | ebruary 2009 | | | | | | | |
| Aircell Pipe Insulation | 25-50% Chrysotile | 20 ft | Friable TSI | Good | Physical Air Erosion Vibration | | 5 | The aircell pipe insulation is above the ceiling tile. |
| Hard Fittings on Aircell Insulation | 30-40% Chrysotile | 5 fittings | Friable TSI | Good | Physical Air Erosion Vibration | | 5 | None |
| Room 11C Abated | February 2009 | | | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 130 ft² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| Aircell Pipe Insulation | 25-50% Chrysotile | 24 ft | Friable TSI | Good | Physical Air Erosion Vibration | | 5 | The aircell pipe insulation is above the ceiling tile. |
| Hard Fittings on Aircell Insulation | 30-40% Chrysotile | 6 fittings | Friable TSI | Good | Physical Air Erosion Vibration | | 5 | None |
| Room 11D Abated I | February 2009 | | | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 168 ft² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| Aircell Pipe Insulation | 25-50% Chrysotile | 6 ft | Friable TSI | Good | Physical Air Erosion Vibration | | 5 | The asbestos aircell pipe insulation is above the ceiling tile. |
| toint Compound | 2-3% Chrysotile | 167 ft² | Non-Friable Surfacing | N/A* | N/A | * | N/A* | The asbestos joint compound is on the west and south walls. |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE 5 S POTENTIAL | ASSESS. CAT. ¹ | NOTES |
|--|---------------------------------|--|------------------------------------|--------------------|--|---------------------------|---|
| Room 13 Abated | w/Purchasing Re | | 2007 | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 72 ft ² | Friable Miscellaneous | Good | Physical □□□ Air Erosion □■□ Vibration ■□ | | None |
| Room 14 | | | | | | | |
| 12" Ceiling Tile with Fissures and Pinholes Ceiling | 2-3% Amosite Abated, Still con | ^{264 ft²} tains one s | Friable Miscellaneous ink with ACM | Good undercoat | Physical □□□ Air Erosion □■□ Vibration ■□ | | None |
| Room 15 | | | | | | | |
| 2'x4' White Ceiling Tile with Widthwise Fissures | 3-5% Amosite | 144 ft² | Friable Miscellaneous | Damaged | Physical □□□ Air Erosion □■□ Vibration □■□ | | None |
| Room 16 | | | | | | · | |
| 9" Floor Tile and Mastic Abated J | Assumed Uly 2007 | 240 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| Joint Compound | 2-3% Chrysotile 50 s.f. a | 235 ft² as of 07/07 | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is located on the east, south, and south half of the west wall. |
| Room 17 Abated v | v/Purchasing Rer | nodel July | 2007 | | | | |
| 9" Floor Tile and Mastic | Assumed | 516 ft² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| 2'x4' White Ceiling Tile with Widthwise Fissures | 3-5% Amosite | 516 ft² | Friable Miscellaneous | Damaged | Physical □□□ Air Erosion □■□ Vibration □■□ | | None |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE 5 5 € E POTENTIAL | ASSESS. | NOTES |
|--|--|------------------|------------------------------|-----------------------|--|---------|--|
| Room 17B Abated | w/Purchasing R | emodel July | 2007 | | | | |
| 9" Floor Tile and Mastic | Assumed | 77 ft² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| Room 17C Abated | w/Purchasing R | temodel July | / 2007 | | | | |
| 2'x4' Ceiling Tile with tengthwise Fissures and Pinholes | 2% Amosite | 216 ft² | Friable Miscellaneous | Good | Physical □□■ Air Erosion □■□ Vibration ■□□ | 6 | None |
| 9" Floor Tile and Mastic | Assumed | 216 ft² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| Room 18 | | • | | | | | |
| Unknown Green Floor Tile | 5% Chrysotile | 432 ft² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The unknown floor tile contains asbestos; the floor tile mastic is negative. |
| Room 18A | | • | | | | | |
| Unknown Green Floor Tile | 5% Chrysotile | 168 ft² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The unknown floor tile contains asbestos; the floor tile mastic is negative. The floor tile is under the carpet. |
| Room 18B | | | | | | 1 | |
| Unknown Green Floor Tile | 5% Chrysotile | 112 ft² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The unknown floor tile contains asbestos; the floor tile mastic is negative. The floor tile is under the carpet. |
| Room 18C | <u>, </u> | · | | • | • | • | • |
| Joint Compound | 2-3% Chrysotile | 140 ft² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the west wall and the north wall of the room entrance. |
| | | | | | | | |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| | | | | | | | | T |
|--|---------------------------|-----------------------|--------------------------|--------------------|--------------------------------------|-------------|------------------------------|---|
| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | HIGH MOD | ASSESS. CAT. ¹ | NOTES |
| Hallway 88C (includi | ng the mechanical o | loset on the | south end of the | e hallway) | | | | |
| Aircell Pipe Insulation | _ | 65 ft | Friable | Good | Physical | | 5 | Please refer to ACM Locations Map for further |
| | 25 50% Cm y50thc | 0510 | TSI | Good | Air Erosion | | | information. |
| July 2007 | | | 131 | | Vibration | | | inormation. |
| Joint Compound | 2-3% Chrysotile | 1,410 ft ² | Non-Friable | N/A* | N/A | * | N/A* | Refer to ACM Locations Map for further |
| Portion removed | July 2007 | ጎ | Surfacing | | | | | information. |
| 1 Official Territored | July 2007 | - | | | | | | |
| Hard Fittings on | 30-40% Chrysotile | 8 fittings | Friable | | Physical | | 6 | None |
| Aircell Insulation | | | TSI | | Air Erosion | | | |
| July 2007 | | | | | Vibration | | | |
| Room 100 Joint Compound | 2-3% Chrysotile | 141 ft ² | Non-Friable Surfacing | N/A* | N/A | * | N/A* | The asbestos joint compound is on the south wall. |
| Room 100C Abate 2'x4' Ceiling Tile with tengthwise Fissures and Pinholes | ed May 2014 2% Amosite | 160 ft² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| Room 100D Abated | | 112 ft ² | Friable | Good | Physical | | 6 | None |
| Lengthwise Fissures and Pinholes | | | Miscellaneous | | Air Erosion Vibration | | | |
| Room 100F Abate | d May 2014 | | | | | | | |
| KOOIII TOOF | | | | | | | | |
| 2'x4' Ceiling Tile with | 2% Amosite | 130ft² | Friable | Good | Physical | | 6 | None |
| 100111 1001 | 2% Amosite | 130ft² | Friable Miscellaneous | Good | Physical Air Erosion | | 6 | None |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE 5 € G POTENTIAL | ASSESS. | NOTES |
|--|---------------------|--------------------|------------------------------|--------------------|--|---------|--|
| Room 101 Abated | July 2009 | | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | | 750 ft² | Friable Miscellaneous | Good | Physical | 6 | None |
| 9" Floor Tile and Mastic | Assumed | 30 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The 9" floor tile and mastic are assumed ACMs; they are in the northeast corner of the room. |
| Room 101A Abated | July 2009 | | | • | | • | |
| 9" Floor Tile and Mastic | Assumed | 392 ft² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| Room 101B Abated | July 2009 | 1 | | 1 | 1 | 1 | 1 |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | | 150 ft² | Friable Miscellaneous | Good | Physical □□■ Air Erosion □■□ Vibration ■□□ | 6 | None |
| Room 101C Abated | l July 2009 | | | | | | |
| 9" Floor Tile and Mastic | Assumed | 24 ft² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| Room 102A1 Abate | d July 2009 | 1 | | 1 | 1 | 1 | , |
| 12" Ceiling Tile with Fissures and Pinholes | 2-3% Amosite | 16ft² | Friable Miscellaneous | Good | Physical □□■ Air Erosion □■□ Vibration ■□□ | 6 | None |
| Room 103 (including | small hallwav to th | e north of ro | om 103) Abate | ed May 2014 | | • | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 88 ft ² | Friable Miscellaneous | Good | Physical | 6 | The asbestos ceiling tile is in the hallway by rooms 103B-103D. |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE 5 S POTENTIAL | ASSESS. CAT. ¹ | NOTES |
|--|---------------------------------------|-----------------------|------------------------------|-----------------------|--------------------------------------|---------------------------|---|
| 9" Floor Tile and Mastic | Assumed bated May 2014 | 500 ft² 4Hallway R | Non-Friable emains | N/A* | N/A* | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| Joint Compound | 2-3% Chrysotile Abated May 201 | 499 ft² | Non-Friable | N/A* | N/A* | N/A* | The asbestos joint compound is on the west wall by room 103A and the east wall of the small hallway by rooms 103D and 103E. |
| Room 103A Abate | · · · · · · · · · · · · · · · · · · · | 2206/2 | Ta | | | _ | T., |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 320ft² | Friable Miscellaneous | Good | Physical □□ Air Erosion □■ Vibration | | None |
| 9" Floor Tile and Mastic | Assumed | 320ft² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| Joint Compound | 2-3% Chrysotile | 115ft² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the north end of the east wall. |
| Room 103B Abat | ted May 2014 | | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 194 f²t | Friable Miscellaneous | Good | Physical □□ Air Erosion □■ Vibration | | None |
| 9" Floor Tile and Mastic | Assumed | 194 ft² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| toint Compound | 2-3% Chrysotile | 136 ft² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the north wall. |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | HIGH MOD | ASSESS. CAT. ¹ | NOTES |
|--|----------------------------|---------------------|------------------------------|--------------------|--------------------------------------|-------------|------------------------------|--|
| Room 103C | | | | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite Abated May 2014 | 168 ft² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| 9" Floor Tile and Mastic | Assumed | 168 ft² | Non-Friable Miscellaneous | N/A* | N/A | * | N/A | The 9" floor tile and mastic are assumed ACMs. |
| Joint Compound | 2-3% Chrysotile | 136ft² | Non-Friable Surfacing | N/A* | N/A | * | N/A* | The asbestos joint compound is on the south wall. |
| Room 103D | | | | | | | 1 | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite bated May 2014 | 65 ft² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| 9" Floor Tile and Mastic | Assumed | 65 ft² | Non-Friable Miscellaneous | N/A* | N/A | * | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| Joint Compound | 2-3% Chrysotile | 130 ft² | Non-Friable Surfacing | N/A* | N/A | * | N/A* | The asbestos joint compound is on the east wall. |
| Room 103E | | | | • | | | | |
| 9" Floor Tile and Mastic | Assumed | 117 ft² | Non-Friable Miscellaneous | N/A* | N/A | * | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| Joint Compound | 2-3% Chrysotile | 336 ft ² | Non-Friable Surfacing | N/A* | N/A | * | N/A* | The asbestos joint compound is on the north, east, and west walls. |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | HIGH MOD | ASSESS. CAT. ¹ | NOTES |
|--|-------------------|---------------------|------------------------------|--------------------|--------------------------------------|-------------|------------------------------|--|
| Hallway 188 Now 1 | 88A | | | | | | | |
| 9" Floor Tile and Mastic | Assumed | 520 ft ² | Non-Friable Miscellaneous | N/A* | N/A | * | N/A* | The 9" floor tile and mastic are assumed ACMs; refer to ACM Locations Map for further information. |
| 12" Ceiling Tile with Fissures and Pinholes | 2-3% Amosite | 520 ft ² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | Refer to ACM Locations Map for further information. |
| Room 201 (including | the small hallway | to the south c | or room 201) | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 256 ft ² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| Joint Compound | 2-3% Chrysotile | 504 ft ² | Non-Friable Surfacing | N/A* | N/A | * | N/A* | Refer to ACM Locations Map for further information. |
| Room 201A | <u> </u> | | I | | | | 1 | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 96 ft² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| Joint Compound | 2-3% Chrysotile | 112 ft² | Non-Friable Surfacing | N/A* | N/A | * | N/A* | The asbestos joint compound is on the east wall. |
| Room 201B | | | | | | | <u> </u> | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 96 ft² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| Joint Compound | 2-3% Chrysotile | 224 ft² | Non-Friable Surfacing | N/A* | N/A | * | N/A* | The asbestos joint compound is on the east and west walls. |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE 5 € EG POTENTIAL | ASSESS. | NOTES |
|--|-----------------|---------------------|--------------------------|--------------------|--|---------|--|
| Room 201C | | | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 180 ft² | Friable Miscellaneous | Good | Physical □□■ Air Erosion □■□ Vibration ■□□ | 6 | None |
| Joint Compound | 2-3% Chrysotile | 171 ft² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the west wall and the west end of the south wall. |
| Room 201D | | • | | • | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 84 ft ² | Friable Miscellaneous | Good | Physical □□■ Air Erosion □■□ Vibration ■□□ | 6 | None |
| Joint Compound | 2-3% Chrysotile | 213 ft ² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the south wall, west wall, and west end of the north wall. |
| Room 201E | | 1 | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 120 ft² | Friable Miscellaneous | Good | Physical □□■ Air Erosion □■□ Vibration ■□□ | 6 | None |
| Joint Compound | 2-3% Chrysotile | 265 ft ² | Non-Friable | N/A* | N/A* | N/A* | The asbestos joint compound is on the north, south, and west walls. |
| Room 201F | | I | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 96 ft² | Friable Miscellaneous | Good | Physical □□■ Air Erosion □■□ Vibration ■□□ | 6 | None |
| Joint Compound | 2-3% Chrysotile | 265 ft ² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the north, south, and west walls. |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | HIGH MOD HIGH | ASSESS. CAT. ¹ | NOTES |
|--|--------------------------|---------------------|------------------------------|--------------------|--------------------------------------|---------------------|------------------------------|---|
| Room 201L | | | | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 180 ft² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| Joint Compound | 2-3% Chrysotile | 247 ft ² | Non-Friable Surfacing | N/A* | N/A | k | N/A* | The asbestos joint compound is on the north and east walls. |
| Room 202 | | | | | 1 | | • | |
| Joint Compound | 2-3% Chrysotile | 400 ft ² | Non-Friable Surfacing | N/A* | N/A | k | N/A* | Refer to ACM Locations Map for further information. |
| Room 202A | | | <u>l</u> | | | | | |
| 2'x4' Ceiling Tile with tengthwise Fissures and Pinholes | 2% Amosite Abated Septem | 84 ft² ber 2011 | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| 9" Floor Tile and Mastic | Assumed | 84 ft² | Non-Friable Miscellaneous | N/A* | N/A | * | N/A* | The 9" floor tile and mastic are assumed ACMs. |
| Joint Compound | 2-3% Chrysotile | 253 ft² | Non-Friable Surfacing | N/A* | N/A | k | N/A* | The asbestos joint compound is located on all walls. |
| | | | | | | | | |
| Room 202B | | | | | | | | |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE 5 S E S POTENTIAL | ASSESS. | NOTES |
|--|-----------------------|---------------------|------------------------------|--------------------|--|---------|---|
| Room 202C | | | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures | 2% Amosite | 50 ft ² | Friable Miscellaneous | Good | Physical □□■ Air Erosion □■□ | 6 | None |
| and Pinholes | Abated September 2011 | | iviiscendileous | | Vibration ■□□ | | |
| Joint Compound | 2-3% Chrysotile | 96 ft² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The asbestos joint compound is on the east wall. |
| Room 202D Abated | October 2011 | 1 | | | ı | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 150 ft² | Friable Miscellaneous | Good | Physical □□■ Air Erosion □■□ Vibration | 6 | None |
| Room 202E | | | | | | | |
| Joint Compound | 2-3% Chrysotile | 130 ft² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | The asbestos joint compound is on the south wall. |
| Room 203 | <u> </u> | | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 192 ft ² | Friable Miscellaneous | Good | Physical □□■ Air Erosion □■□ Vibration | 6 | None |
| Room 204 East | | | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 128 ft ² | Friable Miscellaneous | Good | Physical □□■ Air Erosion □■□ Vibration | 6 | None |
| Room 204 West | | | | | | | |
| Joint Compound | 2-3% Chrysotile | 213 ft ² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the south and west walls. |
| * New Fuickle weeks | | <u> </u> | | | | | Dog 12 of 15 |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU) OLD MAIN (BUILDING A001)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE 5 S E S POTENTIAL | ASSESS. CAT. ¹ | NOTES |
|----------------|-----------------|---------------------|--------------------------|--------------------|--------------------------|------------------------------|---|
| Room 204A | | | | | | | |
| Joint Compound | 2-3% Chrysotile | 198 ft² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on all walls. |
| Room 204B | | - | | | 1 | | |
| Joint Compound | 2-3% Chrysotile | 204 ft ² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the north and west walls. |
| Room 204C | | | | | | | |
| Joint Compound | 2% Chrysotile | 205 ft ² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the north and east walls. |
| Room 204D | | | | | | | 1 |
| Joint Compound | 2-3% Chrysotile | 285 ft ² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the north, south, and east walls. |
| Room 204F | | | 1 | <u> </u> | ·I | | |
| Joint Compound | 2-3% Chrysotile | 105 ft ² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the south wall. |
| Room 204E | | | I | l | | _1 | 1 |
| Joint Compound | 2-3% Chrysotile | 149 ft² | Non-Friable Surfacing | N/A* | N/A* | N/A* | The asbestos joint compound is on the north and east walls. |

* = Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | HIGH MOD | ASSESS. CAT. ¹ | NOTES |
|--|-----------------|---------------------|------------------------------|--------------------|--------------------------------------|-------------|------------------------------|---|
| Room 205A | | | | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 24 ft² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| Room 205B | | | | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 120 ft² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| Joint Compound | 2-3% Chrysotile | 60ft² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos joint compound is on the west wall. |
| Room 205B1 | <u> </u> | | l | <u> </u> | <u> </u> | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 77 ft² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| Room 205B2 | | • | • | | | | | |
| 2'x4' Ceiling Tile with Lengthwise Fissures and Pinholes | 2% Amosite | 96 ft² | Friable Miscellaneous | Good | Physical Air Erosion Vibration | | 6 | None |
| Joint Compound | 2-3% Chrysotile | 104 ft² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos joint compound is on the south wall. |
| Hallway 288 | 1 | | I | | 1 | | 1 | |
| 9" Floor Tile and Mastic | Assumed | 400 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | k | N/A* | Refer to ACM Locations Map for further information. |

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU) OLD MAIN (BUILDING A001)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | HIGH HIGH | ASSESS. CAT. ¹ | NOTES |
|-----------------------|----------------------------------|---------------------|------------------------------|-----------------------|---------------------|--------------|------------------------------|---|
| Room 310A1 | | | | | | | | |
| Transite Panel | Assumed | 21 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The transite panel is on the east end of the room; it is assumed ACM. |
| Central Stairway (Ba | asement - 1 st Floor) | | | | | | | |
| 12" Ceiling Tile with | 2-3% Amosite | 142 ft ² | Friable | Good | Physical | | 6 | None |
| Fissures and Pinholes | ز | | Miscellaneous | | Air Erosion | | | |
| | | | | | Vibration | | | |

- 1) Damaged or Significantly Damaged TSI ACM
- 2) Damaged Friable Surfacing ACM
- 3) Significantly Damaged Friable Surfacing ACM
- 4) Damaged or Significantly Damaged Friable Miscellaneous ACM

- 5) ACM with Potential for Damage
- 6) ACM with Potential for Significant Damage
- 7) Any Remaining Friable ACM or Friable Suspected ACM

* = Non-Friable materials were not assessed

¹Assessment Categories:

End