

NARRATIVE REPORT

1.0 BUILDING INFORMATION

Agriculture & Biosystems Engineering was originally constructed in 1938; a 1950 addition extended the building to the west and added a 2nd floor over the north end and a 1960 addition added a 2nd floor over the center and south end of the building. Although specific information could not be located, several small renovations are evident.

Agriculture & Biosystems Engineering is a two-story, 27,972 ft² building which primarily serves as office and classroom areas for engineering personnel.

The interior floor finishes included concrete, floor tile, carpet, and epoxy flooring; the interior wall finishes included plaster, concrete, concrete block, gypsum wallboard, and wood; and the interior ceiling finishes included concrete, ceiling tile, and plaster. The roofing system is a flat rubber-membrane roof and the exterior of the structure is brick.

The piping systems were insulated; fiberglass insulation (with and without hard fittings) and aircell insulation are located in the building. Steam and domestic water enter the building via a pit into hallway 188 by room 114. HVAC systems located in the building consisted of steam radiators, steam unit heaters, and forced air furnaces with heating/cooling coils.

2.0 ASBESTOS SURVEY INFORMATION

Agriculture & Biosystems Engineering was surveyed as part of a larger project on NDSU's Fargo, ND Campus. This report is part of "Volume 2" of a nine volume series. This report includes building specific information only; please refer to the opening section of "Volume 2" for methodologies, definitions, and other pertinent supporting information.

A total of 77 samples were collected from suspect asbestos-containing materials (ACM) from Agriculture & Biosystems Engineering on August 15, 2007 and an additional 12 samples were collected on April 10, 2008. Laboratory analysis results indicate **28 of these samples tested positive for asbestos.**

2.1 Suspect Materials Identified and Sampled

| | |
|-----------------------------------|---------------------------------------|
| Floor Tile (2 types) | Floor Tile Mastic (2 types) |
| Baseboard Adhesive (3 types) | Carpet Mastic |
| Joint Compound (3 types) | Gypsum Wallboard (3 types) |
| Vermiculite Ceiling Plaster | Hard Plaster- Skimcoat (2 type) |
| Hard Plaster- Basecoat (2 types) | Hard Plaster- Monocoat |
| Wall Texture (2 types) | Ceiling Texture |
| Ceiling Tile (5 types) | Encapsulant on Fiberglass Insulation |
| HVAC Duct Caulk | Transite Panels (2 types) |
| Stair Tread Adhesive | Window Glazing |
| Sink Undercoating (3 types) | Tarpaper |
| Exterior Window Glazing (3 types) | Exterior Window Caulk (3 types) |
| Exterior Window/Door System Caulk | Hard Fitting on Aircell Insulation |
| Aircell Pipe Insulation | Hard Fitting on Fiberglass Insulation |
| Fume Hood | Window Sill Material (2 types) |
| Exterior Door Caulk | Exterior Penetration Putty |

Exterior Building Seam Caulk

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 Asbestos Containing Materials

Baseboard Adhesive (1 type)
Joint Compound (1 type)
Vermiculite Ceiling Plaster
1' Pegboard Ceiling Tile (gray backing)
Transite Panels (2 types)
Purple Sink Undercoating
Pink Sink Undercoating
Exterior Window Glazing
Exterior Window Caulk (3 types)
Hard Fittings on Aircell Insulation
Aircell Insulation
Hard Fittings on Fiberglass Insulation
Mastic for 12" Brown Floor Tile
Fume Hood
Exterior Door Caulk
9' Floor Tile and Mastic (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 Agriculture & Biosystems Engineering as follows:

| ACM | QUANTITY | UNIT COST | TOTAL COST |
|---|------------------------|------------------------|---------------------|
| Asbestos Baseboard Adhesive | 1,206 ft | \$4.00/ft | \$4,824.00 |
| Asbestos Joint Compound | 504 ft ² | \$5.00/ft ² | \$2,520.00 |
| Asbestos Vermiculite Ceiling Plaster | 8,075 ft ² | \$7.50/ft ² | \$60,562.50 |
| Asbestos Ceiling Tile | 5,735 ft ² | \$5.00/ft ² | \$28,675.00 |
| Asbestos Transite panels | 80 ft ² | \$5.00/ft ² | \$400.00 |
| Asbestos Sink Undercoating (all types) | 2 ea | \$150.00/ea | \$300.00 |
| Asbestos Window Glazing | 67 ea | \$225.00/ea | \$15,075.00 |
| Asbestos Window Caulk (all types) | 93 ea | \$125.00/ea | \$11,625.00 |
| Asbestos Door Caulk | 4 ea | \$125.00/ea | \$500.00 |
| Asbestos Aircell Insulation | 684 ft | \$25.00/ft | \$17,100.00 |
| Asbestos Hard Fittings on Aircell Insulation | 133 ea | \$25.00/ea | \$3,325.00 |
| Asbestos Hard Fittings on Fiberglass Insulation | 44 ea | \$60.00/ea | \$2,640.00 |
| Asbestos Floor Tile and/or Mastic (all types) | 10,030 ft ² | \$4.00/ft ² | \$40,120.00 |
| Asbestos Fume Hood | 1 ea | \$350.00/ea | \$350.00 |
| Total Estimated Abatement Costs: | | | \$188,016.00 |

2.4 Survey Notes

Agriculture & Biosystems Engineering was constructed in several different years (refer to section 1.0 for dates of construction); each construction section was considered an independent homogeneous area. During the building survey, each suspect material was sampled in each separate homogeneous area. Therefore, materials that may seem identical throughout building will vary from ACM to non-ACM in different homogenous areas as indicated by the asbestos bulk sample results.

LEGEND collected samples of vermiculite ceiling plaster throughout the building using available architectural drawings to define homogenous areas. A review of the results indicates the vermiculite ceiling plaster contains asbestos. The vermiculite ceiling plaster was used throughout the 1950 addition, on both the 1st and 2nd floors; refer to the ACM Locations Diagrams for further information. In rooms 101, 113, 115, 117, 119, and 120 a non-ACM popcorn ceiling texture was applied over the ACM vermiculite ceiling plaster and in room 203 1' Pegboard Ceiling Tile (yellow backing) was installed concealing the vermiculite ceiling plaster (a 2'x4' ceiling tile was also installed concealing the 1' ceiling tile).

LEGEND identified and sampled a 1' Pegboard Ceiling Tile (gray backing) throughout the 1960 addition; it contains asbestos. In room 203 a 1' Pegboard Ceiling Tile (yellow backing) was identified and sampled; it does not contain asbestos.

LEGEND identified and sampled 12" tan floor tile and 12" brown floor tile in a checkered pattern in room 108; the floor tile are also below the carpet in rooms 104, 105, 106, 107, and 188B. The 12" brown floor tile contains asbestos; the 12" tan floor tile and the mastics do not contain asbestos.

LEGEND identified and sampled a baseboard adhesive in room 203; it contained asbestos. The baseboard adhesive was used throughout the 1950 addition, on both the 1st and 2nd floors; refer to the ACM Locations Diagrams for further information. The ACM baseboard adhesive is black and appears very similar to the mastic used beneath the 9" floor tile throughout the 1950 and 1960 additions. LEGEND used available architectural drawings to identify the walls where the ACM baseboard adhesive may be present and then conducted a visual inspection on each wall to verify the presence of the material. LEGEND noted a majority of the walls had the ACM baseboard adhesive present as a residual layer below the current baseboard adhesive. Therefore, it is not possible to identify the ACM baseboard adhesive by the baseboard installed.

LEGEND observed transite panels being used as a mobile workbench in the east end of room 210. These transite panels are not building materials and were not quantified by LEGEND during the asbestos survey. LEGEND sampled these materials during the survey (sample #58), a review of the results indicate these transite panels (workbenches) contain asbestos.

Building abated December 2023 for demolition

LEGEND TECHNICAL SERVICES, INC.

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)

AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSESS. CAT. ¹ | NOTES |
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|------------------------------|-------|
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|------------------------------|-------|

Room 100 **Abated December 2023**

| | | | | | | | | |
|--|------------------------------|---------------------|------------------------------|---------|--------------------------------------|-------------------|------|---|
| Aircell Pipe Insulation | 50% Chrysotile | 52 ft | Friable TSI | Damaged | Physical Air Erosion Vibration | ■□□ □■□ □■□ | 1 | The asbestos aircell pipe insulation above ceiling tile runs along the north and west walls. |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 11 fittings | Friable TSI | Good | Physical Air Erosion Vibration | ■□□ □■□ □■□ | 5 | None |
| Vermiculite Ceiling Plaster | 2% Chrysotile | 629 ft ² | Friable Surfacing | Good | Physical Air Erosion Vibration | ■□□ □■□ □■□ | 5 | The asbestos vermiculite ceiling plaster is above ceiling tile. |
| 9" Floor Tile and Mastic | Assumed | 629 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |
| Baseboard Adhesive | 3% Chrysotile | 97 ft | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos baseboard adhesive is on the north, west (under wood paneling), and east (south half under wallpaper) walls. |

Room 101

| | | | | | | | | |
|---|------------------------------|---------------------|------------------------------|------|--------------------------------------|-------------------|------|--|
| Aircell Pipe Insulation Abated June 2012 | 50% Chrysotile | 17 ft | Friable TSI | Good | Physical Air Erosion Vibration | □□■ □■□ ■□□ | 6 | The asbestos aircell pipe insulation runs along the west wall. |
| Hard Fittings on Aircell Insulation Abated June 2012 | 60% Chrysotile 5% Amosite | 3 fittings | Friable TSI | Good | Physical Air Erosion Vibration | □□■ □■□ ■□□ | 6 | None |
| Vermiculite Ceiling Plaster Abated December 2023 | 2% Chrysotile | 169 ft ² | Friable Surfacing | Good | Physical Air Erosion Vibration | □□■ □■□ ■□□ | 6 | None |
| 9" Floor Tile and Mastic Abated June 2012 | Assumed | 169 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSES. CAT. ¹ | NOTES |
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|-----------------------------|-------|
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|-----------------------------|-------|

| | | | | | | | | |
|-------------------------------|---------------|-------|------------------------------|------|------|--|------|--|
| Baseboard Adhesive | 3% Chrysotile | 38 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the west, south, and east walls. |
| Abated June 2012 | | | | | | | | |

Room 102 **Abated December 2023**

| | | | | | | | | |
|-------------------------------------|---------|---------------------|------------------------------|------|------|--|------|---|
| 9" Floor Tile and Mastic | Assumed | 123 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | NoneThe asbestos 9" floor tile and mastic are assumed to be ACMs. |
|-------------------------------------|---------|---------------------|------------------------------|------|------|--|------|---|

Room 103 **Abated December 2023**

| | | | | | | | | |
|--|------------------------------|---------------------|------------------------------|---------|--|--|------|--|
| Aircell Pipe Insulation | 50% Chrysotile | 39 ft | Friable TSI | Damaged | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 1 | The asbestos aircell pipe insulation runs along the north and east walls. |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 11 fittings | Friable TSI | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
| Vermiculite Ceiling Plaster | 2% Chrysotile | 141 ft ² | Friable Surfacing | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
| 9" Floor Tile and Mastic | Assumed | 141 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |
| Baseboard Adhesive | 3% Chrysotile | 48 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the north, south, east, and west walls. |

Room 104 **Abated December 2023**

| | | | | | | | | |
|------------------------------------|----------------|-------|----------------|------|---|--|---|---|
| Aircell Pipe Insulation | 50% Chrysotile | 23 ft | Friable TSI | Good | Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | 5 | The asbestos aircell pipe insulation above ceiling tile runs along the north wall and through the middle of the room. |
| | | | | | Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | | |
| | | | | | Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | | |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSES. CAT. ¹ | NOTES |
|--|------------------------------|---------------------|------------------------------|-----------------------|--------------------------------------|--------------------|-----------------------------|---|
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 5 fittings | Friable TSI | Good | Physical Air Erosion Vibration | ■□□ □■□ □■□ | 5 | None |
| 12" Brown Floor Tile | 3% Chrysotile | 120 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The 12" floor tile contains asbestos; the mastic does not. They are under the carpet; see note in section 2.4 "Survey Notes". |

Room 105 Abated December 2023

| | | | | | | | | |
|--|------------------------------|---------------------|------------------------------|------|--------------------------------------|-------------------|------|---|
| Aircell Pipe Insulation | 50% Chrysotile | 6 ft | Friable TSI | Good | Physical Air Erosion Vibration | ■□□ □■□ □■□ | 5 | The asbestos aircell pipe insulation above ceiling tile runs along the north wall. |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 3 fittings | Friable TSI | Good | Physical Air Erosion Vibration | ■□□ □■□ □■□ | 5 | None |
| 12" Brown Floor Tile | 3% Chrysotile | 104 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The 12" floor tile contains asbestos; the mastic does not. They are under the carpet; see note in section 2.4 "Survey Notes". |

Room 106 Abated December 2023

| | | | | | | | | |
|--|------------------------------|--------------------|------------------------------|------|--------------------------------------|-------------------|------|---|
| Aircell Pipe Insulation | 50% Chrysotile | 10 ft | Friable TSI | Good | Physical Air Erosion Vibration | ■□□ □■□ □■□ | 5 | The asbestos aircell pipe insulation above ceiling tile runs along the north wall. |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 3 fittings | Friable TSI | Good | Physical Air Erosion Vibration | ■□□ □■□ □■□ | 5 | None |
| 12" Brown Floor Tile | 3% Chrysotile | 97 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The 12" floor tile contains asbestos; the mastic does not. They are under the carpet; see note in section 2.4 "Survey Notes". |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSES. CAT. ¹ | NOTES |
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|-----------------------------|-------|
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|-----------------------------|-------|

Room 107 Abated December 2023

| | | | | | | | | |
|---|----------------------------------|---------------------|------------------------------|---------|-------------|------|------|---|
| Aircell Pipe Insulation | 50% Chrysotile | 16 ft | Friable TSI | Damaged | Physical | ■□□ | 1 | The asbestos aircell pipe insulation runs along the south wall above ceiling tile. |
| Hard Fittings on Fiberglass Insulation | 0-20% Chrysotile 0-5% Amosite | 5 fittings | Friable TSI | Good | Air Erosion | □■□ | 5 | The asbestos hard fittings on fiberglass insulation are above ceiling tile along the south wall. |
| 12" Brown Floor Tile | 3% Chrysotile | 171 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The 12" floor tile contains asbestos; the mastic does not. They are under the carpet; see note in section 2.4 "Survey Notes". |

Room 108 Abated December 2023

| | | | | | | | | |
|---|----------------|---------------------|------------------------------|------|------|------|------|--|
| Joint Compound | 3% Chrysotile | 468 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos joint compound is on the north, south, east, and west walls. |
| Purple Sink Undercoating | 10% Chrysotile | 1 sink | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos sink undercoating is along the south wall. |
| 12" Brown Floor Tile | 3% Chrysotile | 171 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The 12" floor tile contains asbestos; the mastic does not. See note in section 2.4 "Survey Notes". |

Room 113 Abated December 2023

| | | | | | | | | |
|--|------------------------------|---------------------|----------------------|------|-------------|-----|---|---|
| Aircell Pipe Insulation | 50% Chrysotile | 19 ft | Friable TSI | Good | Physical | ■□□ | 1 | The asbestos aircell pipe insulation above ceiling tile runs along the west wall. |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 4 fittings | Friable TSI | Good | Air Erosion | □■□ | 5 | None |
| Vermiculite Ceiling Plaster | 2% Chrysotile | 124 ft ² | Friable Surfacing | Good | Vibration | □■□ | 5 | The asbestos vermiculite ceiling plaster is above ceiling tile and a popcorn ceiling texture. |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSES. CAT. ¹ | NOTES |
|-------------------------------------|---------------|---------------------|------------------------------|-----------------------|---------------------|--------------------|-----------------------------|---|
| 9" Floor Tile and Mastic | Assumed | 124 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |
| Baseboard Adhesive | 3% Chrysotile | 43 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the north, south (under wood paneling), east, and west walls. |

Room 114 Abated December 2023

| | | | | | | | | |
|--|---------------|--------------------|------------------------------|------|--|--|------|---|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 10 ft ² | Friable Surfacing | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | 6 | None |
| Baseboard Adhesive | 3% Chrysotile | 5 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the south wall. |

Room 115 Abated December 2023

| | | | | | | | | |
|--|------------------------------|---------------------|------------------------------|---------|--|--|------|---|
| Aircell Pipe Insulation | 50% Chrysotile | 16 ft | Friable TSI | Damaged | Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | 1 | The asbestos aircell pipe insulation above ceiling tile runs along the west wall. |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 3 fittings | Friable TSI | Good | Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | 5 | None |
| Vermiculite Ceiling Plaster | 2% Chrysotile | 406 ft ² | Friable Surfacing | Good | Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | 5 | The asbestos vermiculite ceiling plaster is above ceiling tile and a popcorn ceiling texture. |
| 9" Floor Tile and Mastic | Assumed | 406 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |
| Baseboard Adhesive | 3% Chrysotile | 79 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the north (under wood paneling), south (under wood paneling), east, and west walls. |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSES. CAT. ¹ | NOTES |
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|-----------------------------|-------|
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|-----------------------------|-------|

Room 115A Abated December 2023

| | | | | | | | | |
|--|---------------|--------------------|---------------------------|------|-------------|-----|------|--|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 15 ft ² | Friable Surfacing | Good | Physical | ■□□ | 5 | None |
| | | | | | Air Erosion | □■□ | | |
| | | | | | Vibration | □■□ | | |
| 9" Floor Tile and Mastic | Assumed | 15 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |

Room 117 Abated December 2023

| | | | | | | | | |
|--|------------------------------|---------------------|---------------------------|------|-------------|-----|------|---|
| Aircell Pipe Insulation | 50% Chrysotile | 42 ft | Friable TSI | Good | Physical | ■□□ | 5 | The asbestos aircell pipe insulation above ceiling tile runs along the west and south walls. |
| | | | | | Air Erosion | □■□ | | |
| | | | | | Vibration | □■□ | | |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 8 fittings | Friable TSI | Good | Physical | ■□□ | 5 | None |
| | | | | | Air Erosion | □■□ | | |
| | | | | | Vibration | □■□ | | |
| Vermiculite Ceiling Plaster | 2% Chrysotile | 169 ft ² | Friable Surfacing | Good | Physical | ■□□ | 5 | The asbestos vermiculite ceiling plaster is above ceiling tile and a popcorn ceiling texture. |
| | | | | | Air Erosion | □■□ | | |
| | | | | | Vibration | □■□ | | |
| 9" Floor Tile and Mastic | Assumed | 169 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |
| Baseboard Adhesive | 3% Chrysotile | 54 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the north (under wood paneling), south, east, and west walls. |

Room 119 Abated December 2023

| | | | | | | | | |
|--|------------------------------|------------|-------------|------|-------------|-----|---|--|
| Aircell Pipe Insulation | 50% Chrysotile | 18 ft | Friable TSI | Good | Physical | ■□□ | 5 | The asbestos aircell pipe insulation above ceiling tile runs along the south wall. |
| | | | | | Air Erosion | □■□ | | |
| | | | | | Vibration | □■□ | | |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 3 fittings | Friable TSI | Good | Physical | ■□□ | 5 | None |
| | | | | | Air Erosion | □■□ | | |
| | | | | | Vibration | □■□ | | |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSES. CAT. ¹ | NOTES |
|-------------------------------------|---------------|---------------------|---------------------------|-----------------------|---------------------|--------------------|-----------------------------|---|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 158 ft ² | Friable Surfacing | Good | Physical | ■□□ | 5 | The asbestos vermiculite ceiling plaster is above ceiling tile and a popcorn ceiling texture. |
| 9" Floor Tile and Mastic | Assumed | 158 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | □■□ | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |
| Baseboard Adhesive | 3% Chrysotile | 49 ft | Non-Friable Miscellaneous | N/A* | N/A* | □■□ | N/A* | The asbestos baseboard adhesive is on the north, south, east, and west walls. |

Room 120 Abated December 2023

| | | | | | | | | |
|--|------------------------------|---------------------|---------------------------|------|----------|-----|------|--|
| Aircell Pipe Insulation | 50% Chrysotile | 26 ft | Friable TSI | Good | Physical | ■□□ | 5 | The asbestos aircell pipe insulation above ceiling tile runs along the south wall and the south half of the west wall. |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 7 fittings | Friable TSI | Good | Physical | ■□□ | 5 | None |
| Vermiculite Ceiling Plaster | 2% Chrysotile | 157 ft ² | Friable Surfacing | Good | Physical | ■□□ | | The asbestos vermiculite ceiling plaster is above ceiling tile and a popcorn ceiling texture. |
| 9" Floor Tile and Mastic | Assumed | 157 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | □■□ | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |
| Baseboard Adhesive | 3% Chrysotile | 50 ft | Non-Friable Miscellaneous | N/A* | N/A* | □■□ | N/A* | The asbestos baseboard adhesive is on the north, south, east, and west walls. |

Room 122 Abated December 2023

| | | | | | | | | |
|------------------------------------|----------------|-------|-------------|---------|----------|-----|---|---|
| Aircell Pipe Insulation | 50% Chrysotile | 62 ft | Friable TSI | Damaged | Physical | ■□□ | 1 | The asbestos aircell pipe insulation above ceiling tile runs throughout the room. |
|------------------------------------|----------------|-------|-------------|---------|----------|-----|---|---|

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSES. CAT. ¹ | NOTES |
|--|------------------------------|------------------|----------------|-----------------------|--------------------------------------|--------------------|-----------------------------|-------|
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 11 fittings | Friable TSI | Good | Physical Air Erosion Vibration | ■□□ □■□ □■□ | 5 | None |

Room 123 Abated December 2023

| | | | | | | | | |
|---|----------------------------------|-------------|----------------|---------|--------------------------------------|-------------------|---|---|
| Aircell Pipe Insulation | 50% Chrysotile | 130 ft | Friable TSI | Damaged | Physical Air Erosion Vibration | □□■ □■□ □□■ | 1 | The asbestos aircell pipe insulation runs along the north and south walls. |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 16 fittings | Friable TSI | Good | Physical Air Erosion Vibration | □□■ □■□ □□■ | 6 | None |
| Hard Fittings on Fiberglass Insulation | 0-20% Chrysotile 0-5% Amosite | 17 fittings | Friable TSI | Good | Physical Air Erosion Vibration | □□■ □■□ □□■ | 6 | The asbestos hard fittings on fiberglass insulation are along the east half of the north and south walls and the west wall. |

Room 124 Abated December 2023

| | | | | | | | | |
|---|----------------------------------|--------------------|------------------------------|---------|--------------------------------------|-------------------|------|--|
| Aircell Pipe Insulation | 50% Chrysotile | 12 ft | Friable TSI | Damaged | Physical Air Erosion Vibration | □□■ □■□ □□■ | 1 | The asbestos aircell pipe insulation runs along the west half of the north wall. |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 9 fittings | Friable TSI | Good | Physical Air Erosion Vibration | □□■ □■□ □□■ | 6 | None |
| Hard Fittings on Fiberglass Insulation | 0-20% Chrysotile 0-5% Amosite | 14 fittings | Friable TSI | Good | Physical Air Erosion Vibration | □□■ □■□ □□■ | 6 | The asbestos hard fittings on fiberglass insulation are along the north, west, and southeast corner walls. |
| Transite Panels | 10% Chrysotile | 80 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos transite panels are along the north wall; the interior walls of the welding hood. |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSES. CAT. ¹ | NOTES |
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|-----------------------------|-------|
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|-----------------------------|-------|

Room 125 Abated December 2023

| | | | | | | | | |
|-------------------------------------|----------------|---------------------|------------------------------|------|------|--|------|---|
| 9" Floor Tile and Mastic | Assumed | 588 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs. |
| Purple Sink Undercoating | 10% Chrysotile | 1 sink | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos sink undercoating is along the east wall. |

Room 127 Abated December 2023

| | | | | | | | | |
|---|----------------------------------|-------------|----------------|---------|--|--|---|---|
| Aircell Pipe Insulation | 50% Chrysotile | 90 ft | Friable TSI | Damaged | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 1 | The asbestos aircell pipe insulation runs along the north and south walls. |
| Hard Fittings on Aircell insulation | 60% Chrysotile 5% Amosite | 16 fittings | Friable TSI | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
| Hard Fittings on Fiberglass insulation | 0-20% Chrysotile 0-5% Amosite | 6 fittings | Friable TSI | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | The asbestos hard fittings on fiberglass insulation are along the south wall. |

Room 127A Abated December 2023

| | | | | | | | | |
|--|------------------------------|------------|------------------------------|---------|--|--|------|---|
| Aircell Pipe Insulation | 50% Chrysotile | 38 ft | Friable TSI | Damaged | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 1 | The asbestos aircell pipe insulation runs along the north and south walls. |
| Hard Fittings on Aircell insulation | 60% Chrysotile 5% Amosite | 5 fittings | Friable TSI | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
| Fume Hood | 5% Chrysotile | 1 ea | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos transite fume hood is along the northeast corner of room 127A. |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSESS. CAT. ¹ | NOTES |
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|------------------------------|-------|
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|------------------------------|-------|

Hallway 188 Abated December 2023

| | | | | | | | | |
|--|---------------|---------------------|---------------------------|-----------------------|--------------------------------------|---|------|---|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 524 ft ² | Friable Surfacing | Good | Physical Air Erosion Vibration | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 6 | None |
| Baseboard Adhesive | 3% Chrysotile | 64 ft | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos baseboard adhesive is on all of the walls throughout the hallway. |
| 9" Floor Tile and Mastic | Assumed | 4 ft ² | Friable Miscellaneous | Significantly Damaged | Physical Air Erosion Vibration | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | 4 | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are in a small section east of room 114. |

Room 188A Abated December 2023

| | | | | | | | | |
|--|------------------------------|--------------------|---------------------------|------|--------------------------------------|---|------|---|
| Aircell Pipe Insulation | 50% Chrysotile | 10 ft | Friable TSI | Good | Physical Air Erosion Vibration | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 6 | The asbestos aircell pipe insulation is in the northwest and southwest corners of the room. |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 2 fittings | Friable TSI | Good | Physical Air Erosion Vibration | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 6 | None |
| Vermiculite Ceiling Plaster | 2% Chrysotile | 90 ft ² | Friable Surfacing | Good | Physical Air Erosion Vibration | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 6 | None |
| Baseboard Adhesive | 3% Chrysotile | 20 ft | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos baseboard adhesive is on the north and south walls. |

Hallway 188B Abated December 2023

| | | | | | | | | |
|------------------------------------|----------------|---------------------|---------------------------|------|--------------------------------------|---|------|---|
| Aircell Pipe Insulation | 50% Chrysotile | 4 ft | Friable TSI | Good | Physical Air Erosion Vibration | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | 5 | The asbestos aircell pipe insulation above ceiling tile runs through the hallway by room 104. |
| 12" Brown Floor Tile | 3% Chrysotile | 116 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The 12" floor tile contains asbestos; the mastic does not. They are under the carpet; see note in section 2.4 "Survey Notes". |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSESS. CAT. ¹ | NOTES |
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|------------------------------|-------|
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|------------------------------|-------|

Room 199M (including the storage room north of main bathroom) Abated December 2023

| | | | | | | | | |
|---|----------------------------------|--------------------|------------------------------|---------|-------------|------|------|--|
| Aircell Pipe Insulation | 50% Chrysotile | 33 ft | Friable TSI | Good | Physical | ■□□ | 5 | The asbestos aircell pipe insulation above ceiling tile runs along the south wall and through the middle of the main bathroom. |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 4 fittings | Friable TSI | Good | Physical | ■□□ | 5 | None |
| Hard Fittings on Fiberglass Insulation | 0-20% Chrysotile 0-5% Amosite | 2 fittings | Friable TSI | Good | Physical | ■□□ | 5 | The asbestos hard fittings on fiberglass insulation are above ceiling tile in the storage room. |
| 9" Floor Tile and Mastic | Assumed | 59 ft ² | Friable Miscellaneous | Damaged | Physical | □□■ | 4 | None |
| | | | | | Air Erosion | □■□ | | |
| | | | | | Vibration | □■□ | | |
| Joint Compound | 3% Chrysotile | 36 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos joint compound is on the middle of the north wall in the storage room. |

Room 200 Abated December 2023

| | | | | | | | | |
|--|---------------|---------------------|------------------------------|------|----------|------|------|---|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 125 ft ² | Friable Surfacing | Good | Physical | □□■ | 6 | None |
| Baseboard Adhesive | 3% Chrysotile | 42 ft | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos baseboard adhesive is on the north, south, east, and west walls. |
| 9" Floor Tile and Mastic | Assumed | 125 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs. |

Room 201 Abated December 2023

| | | | | | | | | |
|--|---------------|---------------------|----------------------|------|-------------|-----|---|------|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 908 ft ² | Friable Surfacing | Good | Physical | □□■ | 6 | None |
| | | | | | Air Erosion | □■□ | | |
| | | | | | Vibration | ■□□ | | |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSES. CAT. ¹ | NOTES |
|-------------------------------|---------------|------------------|------------------------------|-----------------------|---------------------|--------------------|-----------------------------|---|
| Baseboard Adhesive | 3% Chrysotile | 118 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the north, south, east, and west walls. |

Room 202 Abated December 2023

| | | | | | | | | |
|--|---------------|---------------------|------------------------------|------|--|--|------|--|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 135 ft ² | Friable Surfacing | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
| Baseboard Adhesive | 3% Chrysotile | 48 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the north, south, east, and west walls. |
| 9" Floor Tile and Mastic | Assumed | 135 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |

Room 203 Abated December 2023

| | | | | | | | | |
|--|---------------|---------------------|------------------------------|------|--|--|------|--|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 284 ft ² | Friable Surfacing | Good | Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | 7 | The asbestos vermiculite ceiling plaster is above 2'x4' ceiling tile and 1' pegboard ceiling tile. |
| Baseboard Adhesive | 3% Chrysotile | 68 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the north, south, east, and west walls. |
| 9" Floor Tile and Mastic | Assumed | 284 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |

Room 204 Abated December 2023

| | | | | | | | | |
|--|---------------|---------------------|----------------------|------|--|--|---|------|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 144 ft ² | Friable Surfacing | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
|--|---------------|---------------------|----------------------|------|--|--|---|------|

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSES. CAT. ¹ | NOTES |
|-------------------------------------|---------------|---------------------|------------------------------|-----------------------|---------------------|--------------------|-----------------------------|--|
| Baseboard Adhesive | 3% Chrysotile | 48 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the north, south, east, and west walls. |
| 9" Floor Tile and Mastic | Assumed | 144 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |

Room 205 Abated December 2023

| | | | | | | | | |
|--|---------------|---------------------|------------------------------|------|-------------|---|------|--|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 160 ft ² | Friable Surfacing | Good | Physical | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 6 | None |
| | | | | | Air Erosion | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | |
| | | | | | Vibration | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |
| Baseboard Adhesive | 3% Chrysotile | 23 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the south and west walls. |
| 9" Floor Tile and Mastic | Assumed | 160 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |

Room 206 Abated December 2023

| | | | | | | | | |
|--|---------------|---------------------|------------------------------|------|-------------|---|------|--|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 237 ft ² | Friable Surfacing | Good | Physical | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 6 | None |
| | | | | | Air Erosion | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | |
| | | | | | Vibration | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |
| Baseboard Adhesive | 3% Chrysotile | 31 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the north and west walls. |
| 9" Floor Tile and Mastic | Assumed | 237 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSESS. CAT. ¹ | NOTES |
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|------------------------------|-------|
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|------------------------------|-------|

Room 207 Abated December 2023

| | | | | | | | | |
|--|---------------|---------------------|------------------------------|------|--|--|------|--|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 252 ft ² | Friable Surfacing | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
| Baseboard Adhesive | 3% Chrysotile | 45 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the north, east, and south walls. |
| 9" Floor Tile and Mastic | Assumed | 252 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |

Room 208 Abated December 2023

| | | | | | | | | |
|--|---------------|---------------------|------------------------------|------|--|--|------|---|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 847 ft ² | Friable Surfacing | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
| Baseboard Adhesive | 3% Chrysotile | 120 ft | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos baseboard adhesive is on the north, south, east, and west walls. |
| 9" Floor Tile and Mastic | Assumed | 847 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs. |

Room 208A Abated December 2023

| | | | | | | | | |
|--|---------------|--------------------|----------------------|------|--|--|---|------|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 47 ft ² | Friable Surfacing | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
|--|---------------|--------------------|----------------------|------|--|--|---|------|

Room 210 Abated December 2023

| | | | | | | | | |
|--|---------------|-----------------------|----------------------|------|--|--|---|------|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 1,098 ft ² | Friable Surfacing | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
|--|---------------|-----------------------|----------------------|------|--|--|---|------|

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSES. CAT. ¹ | NOTES |
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|-----------------------------|-------|
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|-----------------------------|-------|

Room 210B Abated December 2023

| | | | | | | | | |
|--|------------|---------------------|----------------------|------|-------------|---|---|------|
| 1' Pegboard Ceiling Tile (gray backing) | 2% Amosite | 881 ft ² | Friable Surfacing | Good | Physical | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 6 | None |
| | | | | | Air Erosion | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | |
| | | | | | Vibration | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |

Room 210B1 Abated December 2023

| | | | | | | | | |
|--|------------|--------------------|----------------------|------|-------------|---|---|------|
| 1' Pegboard Ceiling Tile (gray backing) | 2% Amosite | 58 ft ² | Friable Surfacing | Good | Physical | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 6 | None |
| | | | | | Air Erosion | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | |
| | | | | | Vibration | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |

Room 210C Abated December 2023

| | | | | | | | | |
|--|---------------|---------------------|----------------------|------|-------------|---|---|------|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 593 ft ² | Friable Surfacing | Good | Physical | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 6 | None |
| | | | | | Air Erosion | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | |
| | | | | | Vibration | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |

Room 215 Abated December 2023

| | | | | | | | | |
|--|------------|---------------------|------------------------------|------|-------------|---|------|---|
| 1' Pegboard Ceiling Tile (gray backing) | 2% Amosite | 462 ft ² | Friable Surfacing | Good | Physical | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 6 | None |
| | | | | | Air Erosion | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | |
| | | | | | Vibration | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |
| 9" Floor Tile and Mastic | Assumed | 462 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs. |

Room 216 Abated December 2023

| | | | | | | | | |
|---|---------|--------------------|------------------------------|------|------|------|------|---|
| 9" Floor Tile and Mastic | Assumed | 16 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs. |
|---|---------|--------------------|------------------------------|------|------|------|------|---|

Room 217 Abated December 2023

| | | | | | | | | |
|--|------------|---------------------|----------------------|------|-------------|---|---|------|
| 1' Pegboard Ceiling Tile (gray backing) | 2% Amosite | 463 ft ² | Friable Surfacing | Good | Physical | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 6 | None |
| | | | | | Air Erosion | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | |
| | | | | | Vibration | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSESS. CAT. ¹ | NOTES |
|-------------------------------------|---------------|---------------------|------------------------------|-----------------------|---------------------|--------------------|------------------------------|---|
| 9" Floor Tile and Mastic | Assumed | 463 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs. |

Room 221 Abated December 2023

| | | | | | | | | |
|--|------------|---------------------|------------------------------|------|--|--|------|--|
| 1' Pegboard Ceiling Tile (gray backing) | 2% Amosite | 575 ft ² | Friable Surfacing | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
| 9" Floor Tile and Mastic | Assumed | 575 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |

Room 222 Abated December 2023

| | | | | | | | | |
|--|------------|---------------------|------------------------------|------|--|--|------|--|
| 1' Pegboard Ceiling Tile (gray backing) | 2% Amosite | 570 ft ² | Friable Surfacing | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
| 9" Floor Tile and Mastic | Assumed | 570 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs; they are under the carpet. |

Room 223 & 224

| | | | | | | | | |
|--|------------|-----------------------|------------------------------|------|--|--|------|---|
| 1' Pegboard Ceiling Tile (gray backing) | 2% Amosite | 1,690 ft ² | Friable Surfacing | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | None |
| 9" Floor Tile and Mastic | Assumed | 1,690 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs. |

Hallway 288 (including all hallways on 2nd floor) Abated December 2023

| | | | | | | | | |
|--|---------------|---------------------|----------------------|------|--|--|---|---|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 564 ft ² | Friable Surfacing | Good | Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | 6 | Refer to the ACM Locations Map for further information. |
|--|---------------|---------------------|----------------------|------|--|--|---|---|

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSES. CAT. ¹ | NOTES |
|--|---------------|-----------------------|------------------------------|-----------------------|---------------------|---|-----------------------------|---|
| 1" Pegboard Ceiling Tile (gray backing) | 2% Amosite | 466 ft ² | Friable Surfacing | Good | Physical | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 6 | Refer to the ACM Locations Map for further information. |
| Baseboard Adhesive | 3% Chrysotile | 84 ft | Non-Friable Miscellaneous | N/A* | N/A* | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | N/A* | Refer to the ACM Locations Map for further information. |
| 9" Floor Tile and Mastic | Assumed | 1,030 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs. |

Room 299M Abated December 2023

| | | | | | | | | |
|--------------------|---------------|-------|------------------------------|------|------|------|------|--|
| Baseboard Adhesive | 3% Chrysotile | 32 ft | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos baseboard adhesive is on the north, south, east, and west walls throughout the bathroom entrance and main bathroom. |
|--------------------|---------------|-------|------------------------------|------|------|------|------|--|

Room 299W Abated December 2023

| | | | | | | | | |
|---|---------|--------------------|------------------------------|------|------|------|------|---|
| 9" Floor Tile and Mastic | Assumed | 56 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos 9" floor tile and mastic are assumed to be ACMs. |
|---|---------|--------------------|------------------------------|------|------|------|------|---|

Room 299WA Abated December 2023

| | | | | | | | | |
|---|---------|--------------------|------------------------------|------|------|------|------|---|
| 9" Floor Tile and Mastic | Assumed | 31 ft ² | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | N/A* | The asbestos 9" floor tile and mastic are assumed ACMs. |
|---|---------|--------------------|------------------------------|------|------|------|------|---|

North Stairway (1st- 2nd Floors) Abated December 2023

| | | | | | | | | |
|--|------------------------------|-------------|--------------------------|---------|-------------|---|---|--|
| Aircell Pipe Insulation | 50% Chrysotile | 21 ft | Friable Miscellaneous | Damaged | Physical | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 1 | The asbestos aircell pipe insulation runs along the north wall on the 1 st floor level. |
| Hard Fittings on Aircell Insulation | 60% Chrysotile 5% Amosite | 12 fittings | Friable Miscellaneous | Good | Physical | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 6 | None |
| | | | | | Air Erosion | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | |
| | | | | | Vibration | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | | |

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
AGRICULTURE & BIOSYSTEMS ENGINEERING (BUILDING A014)

| ROOM/ ACM | ASBESTOS TYPE | EST. QUANTITY | ACM TYPE | MATERIAL CONDITION | DAMAGE POTENTIAL | LOW MOD HIGH | ASSESS. CAT. ¹ | NOTES |
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|------------------------------|-------|
|--------------|---------------|------------------|----------|-----------------------|---------------------|--------------------|------------------------------|-------|

West Stairway (1st - 2nd Floors) Abated December 2023

| | | | | | | | | |
|--|---------------|--------------------|-------------------|------|-------------|---|---|---|
| Vermiculite Ceiling Plaster | 2% Chrysotile | 89 ft ² | Friable Surfacing | Good | Physical | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 6 | The vermiculite ceiling plaster is above the stairway on the 2 nd floor level. |
| | | | | | Air Erosion | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | |
| | | | | | Vibration | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |

Exterior

| | | | | | | | |
|---|---------------|---|---------------------------|------|------|------|---|
| Door Caulk | 3% Chrysotile | 4 doors | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | Refer to the ACM Locations Map for further information. |
| Abated December 2023 | | | | | | | |
| Window Caulk | 3% Chrysotile | 1 windows | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | Refer to the ACM Locations Map for further information. |
| 1 window remains, rest abated June 2012 | | Last window abated October 2016 | | | | | |
| Window Glazing | 3% Chrysotile | 67 windows | Non-Friable Miscellaneous | N/A* | N/A* | N/A* | Refer to the ACM Locations Map for further information. |
| Abated June 2012 | | | | | | | |

¹Assessment Categories:

- | | |
|---|---|
| 1) Damaged or Significantly Damaged TSI ACM | 5) ACM with Potential for Damage |
| 2) Damaged Friable Surfacing ACM | 6) ACM with Potential for Significant Damage |
| 3) Significantly Damaged Friable Surfacing ACM | 7) Any Remaining Friable ACM or Friable Suspected ACM |
| 4) Damaged or Significantly Damaged Friable Miscellaneous ACM | |

End