

NARRATIVE REPORT

1.0 BUILDING INFORMATION

Electrical Engineering was originally constructed in 1965; a 1984 addition extended the building to the north.

Electrical Engineering is a two-story, 29,153 ft² building which primarily serves as classroom and office space for architecture and engineering personnel. Civil Engineering (A066) is attached via a tunnel to the east side of Electrical Engineering and is reported separately, the tunnel is reported with Electrical Engineering; Engineering Administration (A063) is attached via skyway to the east side of Electrical Engineering and is reported separately, the skyway does not contain suspect asbestos containing materials..

The interior floor finishes included floor tile, carpet, and concrete; the interior wall finishes included gypsum wallboard, plaster, brick, and concrete; and the interior ceiling finishes included ceiling tile, concrete, and gypsum wallboard. 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 mag block insulation (with hard fittings) are located in the building. Steam and domestic water enter the building via a tunnel in room 2. HVAC systems located in the building consisted of steam radiators and forced air furnaces with heating/cooling coils.

2.0 ASBESTOS SURVEY INFORMATION

Electrical Engineering was surveyed as part of a larger project on NDSU's Fargo, ND Campus. This report is part of "Volume 6" of a nine volume series. This report includes building specific information only; please refer to the opening section of "Volume 6" for methodologies, definitions, and other pertinent supporting information.

A total of 149 samples were collected from suspect asbestos-containing materials (ACM) from Electrical Engineering on July 31, 2007, an additional 9 samples were collected on April 9, 2008, and an additional 3 samples were collected on May 9, 2008. Laboratory analysis results indicate **52 of these samples tested positive for asbestos.**

2.1 Suspect Materials Identified and Sampled

Floor Tile (7 types)	Floor Tile Mastic (6 types)
Ceiling Tile (7 types)	Glue Pucks
Vermiculite Insulation	Sink Undercoating (3 types)
Baseboard Adhesive (2 types)	Carpet Mastic (2 types)
Coating Material (on support beam)	HVAC Duct Caulk
Building Seam Caulk	Window Caulk (3 types)
Paper Wrap (inside HVAC duct)	HVAC Canvas Connector (2 types)
Ceiling Texture	Wall Texture (4 types)
Hard Plaster- Skimcoat	Hard Plaster- Basecoat
Gypsum Wallboard (5 types)	Joint Compound (5 types)
Spray-On Fireproofing	Mag Block Pipe Insulation
Hard Fittings on Mag Block Insulation	Hard Fittings on Fiberglass Insulation
Tank Insulation (5 types)	Rainleader Bowl Insulation

Encapsulant on Fiberglass Insulation
 Roof Flashing (2 types)
 Exterior Building Seam Caulk
 Exterior Window Glazing (2 types)
 Window Glazing (2 types)
 Window Sill Material

Canvas Wrap (on duct)
 Exterior AHU Caulk
 Exterior Window Caulk (2 types)
 Foundation Coating (2 types)
 Transite Panel (above/below windows)

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 **Asbestos Containing Materials**

Mastic for 12" Tan Floor Tile with Brown and White Streaks
 12" Tan Floor Tile with Red Streaks and Mastic (replacement)
 2'x4' Ceiling Tile with Large and Small Pinholes
 Gray Sink Undercoating
 Blank Sink Undercoating
 Mag Block Pipe Insulation
 Hard Fittings on Mag Block Insulation
 Hard Fittings on Fiberglass Insulation
 Tank Insulation (5 types)
 Rainleader Bowl Insulation
 Foundation Coating (1 type)
 Window Sill Material
 Exterior Window Glazing (1 type)
 Transite Panels (above/below windows)
 9" Floor Tile and Mastic (assumed)
 2'x2' Ceiling Tile with Large and Small Pinholes (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 Electrical Engineering as follows:

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Window Sill Material	26 ea	\$150.00/ea	\$3,900.00
Asbestos Floor Tile and/or Mastic	19,358 ft ²	\$4.00/ft ²	\$77,432.00
Asbestos Window Glazing	20 ea	\$225.00/ea	\$4,500.00
Asbestos Transite Panels	36 ea	\$50.00/ea	\$1,800.00
Asbestos Ceiling Tile (all types)	6,620 ft ²	\$5.00/ft ²	\$33,100.00
Asbestos Hard Fittings on Fiberglass Insulation	402 ea	\$60.00/ea	\$24,120.00
Asbestos Rain leader Bowl Insulation	4 ea	\$60.00/ea	\$240.00
Asbestos Mag Block Pipe Insulation	196 ft	\$25.00/ft	\$4,900.00
Asbestos Hard Fitting on Mag Block Insulation	66 ea	\$25.00/ea	\$1,650.00
Asbestos Tank Insulation (all types)	33 ft ²	\$10.00/ft ²	\$330.00
Asbestos Sink Undercoating	2 ea	\$150.00/ea	\$300.00

Total Estimated Abatement Costs:	\$139,384.00
---	---------------------

2.4 **Survey Notes**

The exterior windows have panels installed above and below them. The panels are small ceramic tile over transite panels over foam insulation. The transite panels below the ceramic tile contain asbestos.

LEGEND identified and sampled 2 separate types (homogeneous areas) of foundation coating on the north end of the 1984 building; the top layer of foundation coating (gray) tested positive for asbestos and the bottom layer of foundation coating (black) tested negative for asbestos. LEGEND noted the ACM foundation coating on the north end of the 1984 building and a small section of the east end of the 1984 building; the ACM foundation coating may be hidden below ground level on the remainder of the 1984 building. LEGEND recommends assuming an additional 100 ft² of the ACM foundation coating is around the entire exterior of the 1984 building.

LEGEND identified 2 types of 2'x2' ceiling tile in Electrical Engineering. LEGEND labeled 1 type 2'x2' Ceiling Tile with Various Pinholes; this type is found in the 1984 building and tested negative for asbestos. LEGEND labeled 1 type 2'x2' Ceiling Tile with Large and Small Pinholes; this type is found in the 1965 building and was assumed to contain asbestos (based on results of identical ceiling tile in Architecture (A064) and Civil Engineering (A066)).

LEGEND identified and sampled a Gritty Wall Texture on the east wall of room 101J in Electrical Engineering on July 31, 2007 (sample #54); it tested positive for asbestos. LEGEND collected confirmatory samples of the Gritty Wall Texture from the east wall of room 101J on April 9, 2007 (sample #155/156); they tested negative for asbestos. LEGEND considers the Gritty Wall Texture to be ACM on the east wall of room 101J.

LEGEND identified and sampled Vermiculite Insulation being used to fill wall cavities in Electrical Engineering; 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.

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

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

Basement (including tunnels)

Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	203 fittings	Friable TSI	Damaged	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1	The asbestos hard fittings on fiberglass insulation are throughout room 2 and the tunnel system.
Mag Block Pipe Insulation	20-25% Amosite	125 ft	Friable TSI	Damaged	Physical Air Erosion Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1	The asbestos mag block pipe insulation runs throughout room 2.
Hard Fittings on Mag Block Insulation	0-10% Chrysotile 20% Amosite	25 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	The asbestos hard fittings on mag block insulation are throughout the room.
Tank # 65-997-03 Insulation	10% Chrysotile 20% Amosite	20 ft ²	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	The asbestos tank insulation is located in the northwest corner of room 2.
Tank # 65-997-02 Insulation Abated January 2012	10% Chrysotile 20% Amosite	165 ft ²	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	The asbestos tank insulation is located in the southwest corner of room 2.
Small Vertical Tank Insulation	10% Chrysotile 20% Amosite	8 ft ²	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	The asbestos tank insulation is located in the northwest corner of room 2.

Room 101 **Abated October 2021**

Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	4 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input checked="" 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"/> <input type="checkbox"/>	7	The asbestos hard fittings on fiberglass insulation are in the center of the room.
9" Floor Tile and Mastic	Assumed	486 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs; they are under carpet.
Gray Sink Undercoating	10% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos undercoating is on a sink along the south wall.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

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

Room 101A Abated October 2021

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	108 ft ²	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
9" Floor Tile and Mastic	Assumed	108 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs; they are under carpet.
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	3 fittings	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	1	The asbestos hard fittings on fiberglass insulation are above the ceiling tile along the east wall.
					Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		

Room 101B

9" Floor Tile and Mastic	Assumed	270 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs; they are under carpet.
	Abated October 2021							
Window Sill Material	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.
	Abated June 2018							
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	9 fittings	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	1	The asbestos hard fittings on fiberglass insulation are above the ceiling tile along the south and east walls.
	Abated October 2021				Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		

Room 101C

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	130 ft ²	Friable Miscellaneous	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None
	Abated October 2021				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	130 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
	Abated October 2021							
Window Sill Material	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.
	Abated June 2018							

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	4 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the south side of the room.
Abated October 2021								

Room 101D

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	128 ft ²	Friable Miscellaneous	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
9" Floor Tile and Mastic	Assumed	128 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Window Sill Material	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos window sill material is under the window along the south wall.
Abated June 2018								
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	4 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the south side of the room.

Room 101E

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	128 ft ²	Friable Miscellaneous	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
9" Floor Tile and Mastic	Assumed	128 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Window Sill Material	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos window sill material is under the window along the south wall.
Abated June 2018								
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	6 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the south side of the room.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

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

Room 101F

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	128 ft ²	Friable Miscellaneous	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None
9" Floor Tile and Mastic	Assumed	128 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 101G

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Chrysotile	122 ft ²	Friable Miscellaneous	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None
9" Floor Tile and Mastic	Assumed	122 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	6 fittings	Friable TSI	Good	Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the south side of the room.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 101H

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	130 ft ²	Friable Miscellaneous	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None
9" Floor Tile and Mastic	Assumed	130 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	4 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the south side of the room.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 101J

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	131 ft ²	Friable Miscellaneous	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
Gritty Wall Texture	0-2% Chrysotile	120 ft ²	Friable Surfacing	Good	Physical Air Erosion Vibration	□□■ ■□□ ■□□	6	The asbestos texture is on the east wall.
9" Floor Tile and Mastic	Assumed	131 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	3 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the south side of the room.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 101K

9" Floor Tile and Mastic	Assumed	110 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	4 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the south side of the room.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 101L

Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	8 fittings	Friable TSI	Good	Physical	■□□	7	The asbestos hard fittings on fiberglass insulation are above ceiling tile on the south side of the room.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 101M

Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	2 fittings	Friable TSI	Good	Physical	■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the south and west sides of the room.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 101P

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	100 ft ²	Friable Miscellaneous	Good	Physical	□□■	6	None
9" Floor Tile and Mastic	Assumed	100 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.

Room 101R

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	146 ft ²	Friable Miscellaneous	Good	Physical	□□■	6	None
--	-------------	---------------------	--------------------------	------	----------	-----	---	------

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
 ELECTRICAL ENGINEERING (BUILDING A065)

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

Room 101S

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	120 ft ²	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
9" Floor Tile and Mastic	Assumed	120 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.

Room 101T

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	122 ft ²	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
9" Floor Tile and Mastic	Assumed	122 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.

Room 101U

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	130 ft ²	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
9" Floor Tile and Mastic	Assumed	130 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.

Room 101V

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	185 ft ²	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
9" Floor Tile and Mastic	Assumed	185 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

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

Room 103

9" Floor Tile and Mastic	Assumed	106 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
--------------------------	---------	---------------------	------------------------------	------	------	--	------	--

Room 105

Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	10 fittings	Friable TSI	Good	Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Air Erosion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		7	The hard fittings are above the ceiling tile on the north and west sides of the room.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the north wall.

Room 105A

Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	1 fitting	Friable TSI	Good	Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Air Erosion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		7	The asbestos hard fitting is above the ceiling tile on the north and west sides of the room.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the north wall.

105B

Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	8 fittings	Friable TSI	Damaged	Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Air Erosion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the north side of the room.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the north wall.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

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

Room 107

Hard Fittings on Mag Block Insulation	0-10% Chrysotile 20% Amosite	16 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on mag block insulation are throughout the room.
Mag Block Pipe Insulation	20-25% Amosite	39 ft	Friable TSI	Damaged	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The mag block pipe insulation are throughout the room.

Room 113

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	370 ft ²	Friable Miscellaneous	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
9" Floor Tile and Mastic	Assumed	370 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs (a section of 9" floor tile and mastic is below 12" floor tile in the cooler).
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	7 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ □■□ ■□□	5	The asbestos hard fittings on fiberglass insulation are located throughout the room.

Room 117 Abated March 2015

9" Floor Tile and Mastic	Assumed	35 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
---	---------	--------------------	------------------------------	------	------	------	------	--

Room 119 Abated March 2015

9" Floor Tile and Mastic	Assumed	35 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
---	---------	--------------------	------------------------------	------	------	------	------	--

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

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

Room 121

Hard Fittings on Fiberglass Insulation Abated December 2021	0-15% Chrysotile 3-20% Amosite	8 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ □■□ ■□□	5	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the south side of the room.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos window sill material is under the window along the north wall.

Room 121B

9" Floor Tile and Mastic Abated March 2013	Assumed	560 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Hard Fittings on Fiberglass Insulation Abated March 2013	0-15% Chrysotile 3-20% Amosite	7 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the west side of the room.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos window sill material is under the window along the north wall.

Room 123

Mastic for 12" Tan Floor Tile w/ Brown and White Streaks	15% Chrysotile	918 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The mastic contains asbestos, the floor tile is negative.
Window Glazing	3% Chrysotile	2 windows	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos glazing is on the two windows along the south end of the room; they are concealed by newer construction.

Room 125 **Abated December 2014**

Mastic for 12" Tan Floor Tile w/ Brown and White Streaks	15% Chrysotile	928 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The mastic contains asbestos, the floor tile is negative.
---	----------------	---------------------	------------------------------	------	------	------	------	---

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

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

Hallway 188 (includes all hallways on the 1st floor)

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite Abated December 2014	1,539 ft ²	Friable Miscellaneous	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	Refer to ACM Locations Map for further information.
9" Floor Tile and Mastic	Assumed Abated June 2016	1,501 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs; refer to ACM Locations Map for further information.
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	40 fittings	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	5	Refer to ACM Locations Map for further information.
Mastic for 12" Tan Floor Tile w/ Brown and White Streaks	15% Chrysotile Abated June 2016	1,836 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The mastic contains asbestos, the floor tile is negative; refer to ACM Locations Map for further information.

Room 201 **Abated March 2013**

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	275 ft ²	Friable Miscellaneous	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
9" Floor Tile and Mastic	Assumed	275 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMS
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	12 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input checked="" 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"/> <input type="checkbox"/>	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the north side of the room.
Rainleader Bowl Insulation	5% Chrysotile 5% Amosite	1 each	Friable TSI	Good	Physical Air Erosion Vibration	<input checked="" 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"/> <input type="checkbox"/>	7	The asbestos rainleader bowl is above the ceiling tile on the west side of the room.

Room 201A **Abated March 2013**

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	71 ft ²	Friable Miscellaneous	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
---	-------------	--------------------	--------------------------	------	--------------------------------------	---	---	------

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
9" Floor Tile and Mastic	Assumed	71 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.

Room 201B

2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite Abated March 2013	71 ft ²	Friable Miscellaneous	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
9" Floor Tile and Mastic	Assumed Abated March 2013	71 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Hard Fittings on Fiberglass insulation	0-15% Chrysotile 3-20% Amosite Abated March 2013	1 fitting	Friable TSI	Good	Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Air Erosion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		7	The asbestos Hard Fittings on Fiberglass Insulation is above the ceiling tile on the west side of the room.
Window Sill Material	15% Chrysotile Abated June 2018	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 203

9" Floor Tile and Mastic	Assumed	441 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Window Sill Material	15% Chrysotile Abated June 2018	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 205

9" Floor Tile and Mastic	Assumed	470 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
--------------------------	---------	---------------------	------------------------------	------	------	--	------	--

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 207

9" Floor Tile and Mastic	Assumed	475 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 209

9" Floor Tile and Mastic	Assumed	301 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 211

9" Floor Tile and Mastic	Assumed	211 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	2 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ □■□ ■□□	5	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the west side of the room.
Rainleader Bowl Insulation	5% Chrysotile 5% Amosite	1 ea	Friable TSI	Good	Physical Air Erosion Vibration	■□□ □■□ ■□□	5	The asbestos rainleader bowl is above the ceiling tile on the west side of the room.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

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

Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.
--	----------------	------	------------------------------	------	------	--	------	---

Room 213

9" Floor Tile and Mastic	Assumed	575 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

Room 215

9" Floor Tile and Mastic	Assumed	75 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
--------------------------	---------	--------------------	------------------------------	------	------	--	------	--

Room 215A

9" Floor Tile and Mastic	Assumed	116 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
--------------------------	---------	---------------------	------------------------------	------	------	--	------	--

Room 215B

9" Floor Tile and Mastic	Assumed	138 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the window along the south wall.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

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

Room 215C Abated March 2013

9" Floor Tile and Mastic	Assumed	138 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
2'x4' Ceiling Tile w/ Large and Small Pinholes	10% Amosite	138 ft ²	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	2 fittings	Friable TSI	Good	Physical	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile on the west side of the room.
					Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Rainleader Bowl Insulation	5% Chrysotile 5% Amosite	1 ea	Friable TSI	Good	Physical	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	7	The asbestos rainleader bowl is above the ceiling tile on the west side of the room.
					Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 217

Black Sink undercoating	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The sink is located on the south wall.
----------------------------	---------------	------	------------------------------	------	------	--	------	--

Room 219

Hard Fittings on Mag Block Insulation	0-10% Chrysotile 20% Amosite	16 fittings	Friable TSI	Good	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	5	The asbestos hard fittings on mag block insulation are throughout the room.
					Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Mag Block Pipe Insulation	20-25% Amosite	42 ft	Friable TSI	Good	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	5	The asbestos mag block pipe insulation is throughout the room.
					Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	12 fittings	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	5	The asbestos hard fittings on fiberglass insulation are throughout the room.
					Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
Small Vertical Tank Insulation	10% Chrysotile 20% Amosite	8ft ²	Friable TSI	Good	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	5	The asbestos tank insulation is located on the east side of the room.
					Air Erosion	<input checked="" type="checkbox"/> <input 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.
ACMS LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

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

Tank #65-212-03 Insulation	10% Chrysotile 20% Amosite	20 ft ²	Friable TSI	Good	Physical Air Erosion Vibration	<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"/> <input type="checkbox"/>	5	The asbestos tank insulation is located on the east side of the room.
-------------------------------	-------------------------------	--------------------	----------------	------	--------------------------------------	---	---	---

Room 221

9" Floor Tile and Mastic	Assumed	634 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos window sill material is under the window along the north wall.

Room 223

9" Floor Tile and Mastic	Assumed	460 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Window Sill Material Abated June 2018	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos window sill material is under the window along the north wall.

Room 225

9" Floor Tile and Mastic	Assumed	634 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.	
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	10 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<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"/> <input type="checkbox"/>	5	The asbestos hard fittings on fiberglass insulation are located through out the room.

Room 227

9" Floor Tile and Mastic	Assumed	332 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
-----------------------------	---------	---------------------	------------------------------	------	------	------	--

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
Hard Fittings on Fiberglass Insulation	0-15% Chrysotile 3-20% Amosite	10 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<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"/> <input type="checkbox"/>	5	The asbestos hard fittings on fiberglass insulation are located in the center of the room.
Room 227A Now Part of 223A--Floor Plan Update July 2010								
9" Floor Tile and Mastic	Assumed	251 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Room 229								
9" Floor Tile and Mastic	Assumed	148 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Room 231								
9" Floor Tile and Mastic	Assumed	92 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Room 233								
9" Floor Tile and Mastic	Assumed	567 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Room 235 Abated June 2016								
Mastic for 12" Tan Floor Tile w/ Brown and White Streaks	15% Chrysotile	512 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The mastic contains asbestos, the floor tile is negative.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

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

Room 237

Mastic for 12" Tan Floor Tile w/ Brown and White Streaks	15% Chrysotile	600 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The mastic contains asbestos, the floor tile is negative.
--	----------------	---------------------	------------------------------	------	------	--	------	---

Room 239

Mastic for 12" Tan Floor Tile w/ Brown and White Streaks	15% Chrysotile	567 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The mastic contains asbestos, the floor tile is negative.
12" Tan Floor Tile w/ Red Steaks and Mastic	2-15% Chrysotile	25 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	This is a replacement floor tile; it is in the southeast end of the room.

Room 241

Mastic for 12" Tan Floor Tile w/ Brown and White Streaks	15% Chrysotile	432 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The mastic contains asbestos, the floor tile is negative.
--	----------------	---------------------	------------------------------	------	------	--	------	---

Hallway 288 (includes all hallways on 2nd floor)

2'x4' Ceiling Tile w/ Large and Small Pinholes Abated December 2014	10% Amosite	853 ft ²	Friable Miscellaneous	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	Refer to ACM Locations Map for further information.
2'x2' Ceiling Tile w/ Large and Small Pinholes Abated December 2014	Assumed	873 ft ²	Friable Miscellaneous	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	Refer to ACM Locations Map for further information.
Hard Fittings on Fiberglass Insulation Abated June 2017	0-15% Chrysotile 3-20% Amosite	42 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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		5	Refer to ACM Locations Map for further information.
Rainleader Bowl Insulation Abated June 2017	5% Chrysotile 5% Amosite	1 ea	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		5	The asbestos hard pack rainleader bowl is above the ceiling tile by to room 233.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
ELECTRICAL ENGINEERING (BUILDING A065)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
9" Floor Tile and Mastic Abated June 2015	Assumed	1,718 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACM; refer to ACM Locations Map for further information.
Mastic for 12" Tan Floor Tile w/ Brown and White Streaks Abated June 2015	15% Chrysotile	170 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The mastic contains asbestos, the floor tile is negative; refer to ACM Locations Map for further information.
East Stairway (1st -3rd floor) 2nd floor Abated June 2017								
9" Floor Tile and Mastic	Assumed	141 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.
2'x2' Ceiling Tile w/ Large and Small Pinholes Abated June 2015	Assumed	136 ft ²	Friable Miscellaneous	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	Refer to ACM Locations Map for further information.
West Stairway (1st -2nd floor) Abated June 2015								
9" Floor Tile and Mastic	Assumed	61 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.
2'x2' Ceiling Tile w/ Large and Small Pinholes Abated December 2014	Assumed	125 ft ²	Friable Miscellaneous	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	Refer to ACM Locations Map for further information.
Exterior								
Foundation Coating	10% Chrysotile	52 ft	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The foundation coating is located along the north side of the 1984 building. See note in section 2.4 "Survey Notes".
Window Glazing Abated June 2018	3% Chrysotile	18 windows	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos glazing is on the north and south exterior windows.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
 ELECTRICAL ENGINEERING (BUILDING A065)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
Transite Panels	15% Chrysotile	36 ea 2 remain	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite panels are located under the black ceramic tiles/ wood boards above and below the exterior windows.
Accessible panels removed and disposed whole Summer 2008								

¹Assessment Categories:

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

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

End