

## NARRATIVE REPORT

### 1.0 BUILDING INFORMATION

Civil Engineering was originally constructed in 1965; the building has had no major renovations.

Civil Engineering is a two-story, 29,148 ft<sup>2</sup> building which primarily serves as office areas and classroom areas for engineering personnel. Construction Management Engineering (A094) is attached to the east side of Civil Engineering, Electrical Engineering (A065) is attached to the west side of Civil Engineering, and engineering Administration (A063) is attached via skyway to the south side of Civil Engineering; each is reported separately.

The interior floor finishes included floor tile, epoxy flooring, carpet, and concrete; the interior ceiling finishes included ceiling tile, metal, concrete, and plaster; and the interior wall finishes included gypsum wallboard, plaster, ceramic tile, concrete, and concrete block. 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), neoprene, and mag block insulation (with hard fittings) and are located in the building. Steam and domestic water enter the building via a tunnel into room 88. HVAC systems located in the building consisted of steam radiators and forced air furnaces equipped with heating/cooling coils.

### 2.0 ASBESTOS SURVEY INFORMATION

Civil Engineering was surveyed as part of a larger project on NDSU's Fargo, ND Campus. This report is part of "Volume 7" of a nine volume series. This report includes building specific information only; please refer to the opening section of "Volume 7" for methodologies, definitions, and other pertinent supporting information.

A total of 83 samples were collected from suspect asbestos-containing materials (ACM) from Civil Engineering on July 27, 2007, an additional 14 samples were collected on March 7, 2008, and an additional 2 samples were collected on March 26, 2008. Laboratory analysis results indicate **38 of these samples tested positive for asbestos.**

#### 2.1 Suspect Materials Identified and Sampled

Hard Plaster- Basecoat	Hard Plaster- Skimcoat
Joint Compound (4 types)	Gypsum Wallboard
Wall Texture (2 types)	Floor Tile (8 types)
Floor Tile Mastic (8 types)	Carpet Mastic
Baseboard Adhesive (3 types)	Sink Undercoating (2 types)
Black Lab Countertop (4 types)	Exterior Window Glazing
Fireproofing	Tank Insulation (3 types)
Encapsulant on Fiberglass Insulation (2 types)	Mag Block Pipe Insulation
Hard Fittings on Mag Block Pipe Insulation	Hard Fittings on Fiberglass Insulation
HVAC Canvas Connector	Ceiling Tile (6 types)
Exterior Building Seam Caulk	Exterior Window Caulk
Exterior Door Caulk	Window Sill Material
Gray Lab Sink	Fume Hood
Exterior Transite Panels (above/below windows)	Window Caulk

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

## 2.2 Asbestos Containing Materials

Spray Wall Texture  
 Mastic for 12" Off-White Floor Tile with Gray Specks  
 Mastic for 12" Tan/Brown/Beige Mottled Floor Tile  
 Purple Sink Undercoating  
 Black Lab Countertop (3 types)  
 Window Glazing  
 Tank Insulation (3 types)  
 Mag Block Pipe Insulation  
 Hard Fittings on Mag Block Insulation  
 Hard Fittings on Fiberglass Insulation  
 Rainleader Bowl Insulation  
 2'x2' Ceiling Tile with Large and Small Pinholes (assumed)  
 2'x4' Ceiling Tile with Large and Small Pinholes  
 Window Sill Material  
 Gray Sink Undercoating  
 Exterior Transite Panels (above/below windows)  
 Exterior Window Glazing  
 9" Floor and Mastic (assumed)

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

## 2.3 Cost Estimates

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

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Hard Fittings on Fiberglass Insulation	739 ea	\$60.00/ea	\$44,340.00
Asbestos Rainleader Bowl Insulation	4 ea	\$60.00/ea	\$240.00
Asbestos Mag Block Pipe Insulation	140 ft	\$25.00/ft	\$3,500.00
Asbestos Hard Fittings on Mag Block Insulation	26 ea	\$25.00/ea	\$650.00
Asbestos Tank Insulation (all types)	53 ft <sup>2</sup>	\$50.00/ft <sup>2</sup>	\$2,650.00
Asbestos Sink Undercoating (all types)	3 ea	\$150.00/ea	\$450.00
Asbestos Window Glazing (all types)	73 ea	\$225.00/ea	\$16,425.00
Asbestos Wall Texture	1,282 ft <sup>2</sup>	\$7.50/ea	\$9,615.00
Asbestos Floor Tile and/or Mastic (all types)	17,165 ft <sup>2</sup>	\$4.00/ft <sup>2</sup>	\$68,660.00
Asbestos Black Lab Table/Countertop	8 ea	\$350.00/ea	\$2,800.00
Asbestos Transite Panels	52 ea	\$50.00/ea	\$2,600.00
Asbestos Ceiling Tile (all types)	10,950 ft <sup>2</sup>	\$5.00/ft <sup>2</sup>	\$54,750.00
Asbestos Window Sill Material	33 ea	\$150.00/ea	\$4,950.00

<b>Total Estimated Abatement Costs:</b>	<b>\$211,630.00</b>
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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 observed black lab countertops in the building being used as mobile workbenches. These black lab countertops are not building materials and were not sampled or quantified by LEGEND during the asbestos survey. LEGEND recommends assuming these materials to be ACM.

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
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**Basement (including room 88 and the tunnels)**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	208 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<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"/> <input type="checkbox"/>	5	The asbestos hard fittings are throughout room 88 and the tunnels.
Mag Block Pipe Insulation	20% Amosite	72 ft	Friable TSI	Good	Physical Air Erosion Vibration	<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"/> <input type="checkbox"/>	5	The asbestos mag block pipe insulation is throughout room 88.
Hard Fittings on Mag Block Insulation	20% Amosite	13 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<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"/> <input type="checkbox"/>	5	None
Tank #66-997-03 Insulation	15% Chrysotile 15% Amosite	18 ft <sup>2</sup>	Friable TSI	Good	Physical Air Erosion Vibration	<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"/> <input type="checkbox"/>	5	The asbestos tank insulation is on the large water heater in the northwest corner of room 88.
Tank #66-997-04 Insulation	15% Chrysotile 15% Amosite	12 ft <sup>2</sup>	Friable TSI	Good	Physical Air Erosion Vibration	<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"/> <input type="checkbox"/>	5	The asbestos tank insulation is on the heater exchanger in the northeast corner of room 88.
Small Vertical Tank Insulation	15% Chrysotile 15% Amosite	5 ft <sup>2</sup>	Friable TSI	Good	Physical Air Erosion Vibration	<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"/> <input type="checkbox"/>	5	The asbestos tank insulation is on the small vertical tank in the northeast corner of room 88.

**Room 101**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	38 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 along the west and north wall.
2'x4' Ceiling Tiles with Large and Small Pinholes	15% Amosite	950 ft <sup>2</sup>	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
Mastic for 12" Off- White Floor Tile with Gray Specks	5% Chrysotile	950 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The mastic for 12" off-white floor tile contains asbestos; the floor tile is negative.

\* = Non-Friable materials were not assessed

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
Window Sill Material	5% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the two west windows.

**Room 102**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	32 fittings	Friable TSI	Good	Physical	■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile along the west wall.
2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	950 ft <sup>2</sup>	Friable Surfacing	Good	Physical	□□■	6	None
9" Floor Tile and Mastic	Assumed	950 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the two west windows.

**Room 104**

<del>Hard Fittings on Fiberglass Insulation</del>	5-25% Amosite <b>Abated June 2016</b>	22 fittings	Friable TSI	Good	Physical	□□■	6	The asbestos hard fittings on fiberglass insulation run along the west wall.
Window Sill Material	5% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the three west windows.

**Room 106**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	11 fittings	Friable TSI	Good	Physical	■□□	5	The asbestos hard fittings on fiberglass insulation are above ceiling tile and run along the west wall.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
Window Sill Material	5% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the two west windows.

**Room 107**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	2 fittings	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	The asbestos hard fittings on fiberglass insulation are in the southwest corner of the room.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the west window.

**Room 108**

<del>Hard Fittings on Fiberglass Insulation</del>	5-25% Amosite <b>Abated June 2016</b>	58 fittings	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	The asbestos hard fittings on fiberglass insulation run along the east and south walls.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the northeast window.
Window Glazing	3% Chrysotile	2 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window glazing is on the two windows around the exterior door on the east wall.

**Room 108A** **Abated July 2011**

<del>Hard Fittings on Fiberglass Insulation</del>	5-25% Amosite	30 fittings	Friable TSI	Good	Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		5	The asbestos hard fittings on fiberglass insulation are above the ceiling tile along the east and north wall.
<del>Mastic for 12" Off- White Floor Tile with Gray Specks</del>	5% Chrysotile	945 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	Only the mastic for 12" off-white floor tile contains asbestos.

\* = Non-Friable materials were not assessed

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
<del>Window Sill Material</del>	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under east window.
Window Glazing	3% Chrysotile	2 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window glazing is on the two exterior windows in the northwest corner of the room.

**Room 109**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	53 fittings	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	The asbestos hard fittings on fiberglass insulation run along the east and south walls.
					Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>			
					Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>			

**Room 110**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	25 fittings	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None
					Air Erosion <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			
					Vibration <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			
Mag Block Pipe Insulation	20% Amosite	50 ft	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None
					Air Erosion <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			
					Vibration <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			
Hard Fittings on Mag Block Insulation	20% Amosite	6 fittings	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None
					Air Erosion <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			
					Vibration <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			
Tank #66-110-03 Insulation	15% Chrysotile 15% Amosite	12 ft <sup>2</sup>	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	The asbestos tank insulation is on the heat exchanger in the northwest corner of the room.
					Air Erosion <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			
					Vibration <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			
Small Vertical Tank Insulation	15% Chrysotile 15% Amosite	6 ft <sup>2</sup>	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	The asbestos tank insulation is on the small vertical tank in the northwest corner of the room.
					Air Erosion <input type="checkbox"/> <input type="checkbox"/> <input checked="" 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)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
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**Room 112**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	18 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile along the east wall.
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**Room 113**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	42 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile along the east wall.
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**Room 113A**

2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	110 ft <sup>2</sup>	Friable Surfacing	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
9" Floor Tile and Mastic	Assumed	110 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.

**Room 113B**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	4 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile along the middle of the room.
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**Room 113B2**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	6 fittings	Friable TSI	Good	Physical Air Erosion Vibration	□□■ □■□ □■□	6	The asbestos hard fittings on fiberglass insulation run along the east wall.
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**Hallway 188 (including all hallways and entry vestibules on 1<sup>st</sup> floor)**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	84 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile throughout hallways and vestibules.
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\* = Non-Friable materials were not assessed



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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
<del>2'x2' Ceiling Tiles with Large and Small Pinholes</del>	15% Amosite <b>Abated June 2016</b>	1,077 ft <sup>2</sup>	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	The asbestos 2'x2' ceiling tile is in the north and south entry vestibules and the hallway section leading to electrical engineering.
<del>2'x4' Ceiling Tiles with Large and Small Pinholes</del>	15% Amosite <b>Abated June 2016</b>	815 ft <sup>2</sup>	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	The asbestos 2'x4' ceiling tile is in the main hallway section.
<del>9" Floor Tile and Mastic</del>	Assumed <b>Abated June 2016</b>	2,125 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Glazing	3% Chrysotile	24 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	Refer to the ACM Locations Map for further information.
<del>Mastic for 12" Tan/Brown/Beige Mottled Floor Tile</del>	5% Chrysotile <b>Abated June 2016</b>	233 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The mastic for the 12" tan/brown/beige mottled floor tile contains asbestos; the floor tile is negative. They are in the hallway by room 113.

**Room 201 (including the small hallway to the north)**

<del>2'x4' Ceiling Tile with Large and Small Pinholes</del>	15% Amosite <b>Abated June 2016</b>	255 ft <sup>2</sup>	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	The asbestos 2'x4' ceiling tile is in the small hallway from room 201B to 201G.
<del>9" Floor Tile and Mastic</del>	Assumed <b>Abated June 2016</b>	645 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet in room 201 and exposed in the small hallway.
<del>Spray Wall Texture</del>	3% Chrysotile <b>Abated June 2016</b>	330 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos spray wall texture is on the gypsum wallboard along the north, south, and west walls of room 201 and at the north end of the hallway.
Window Glazing	3% Chrysotile	1 window	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window glazing is on an exterior window along the south wall.

\* = Non-Friable materials were not assessed

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

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**Room 201A**

9" Floor Tile and Mastic	Assumed	273 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet.
Spray Wall Texture	3% Chrysotile	171 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos spray wall texture is on the gypsum wallboard along the east wall.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the west window.

**Room 201B**

2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	131 ft <sup>2</sup>	Friable Surfacing	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None
9" Floor Tile and Mastic	Assumed	131 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		N/A*	The asbestos window sill material is under the west window.

**Room 201C**

2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	131 ft <sup>2</sup>	Friable Surfacing	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None
9" Floor Tile and Mastic	Assumed	131 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		N/A*	The asbestos window sill material is under the west window.

\* = Non-Friable materials were not assessed

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 201D**

Hard Fittings on Fiberglass Insulation	5% Amosite	2 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are along the northwest corner of the room.
Rainleader Bowl Insulation	5% Amosite	1 ea	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos rainleader bowl insulation is on the northwest end of the room.
2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	131 ft <sup>2</sup>	Friable Surfacing	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
9" Floor Tile and Mastic	Assumed	131 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos window sill material is under the west window.

**Room 201E**

2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	131 ft <sup>2</sup>	Friable Surfacing	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
9" Floor Tile and Mastic	Assumed	131 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos window sill material is under the west window.

**Room 201F**

2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	131 ft <sup>2</sup>	Friable Surfacing	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
9" Floor Tile and Mastic	Assumed	131 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the west window.

**Room 201G**

2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	131 ft <sup>2</sup>	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	131 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the west window.

**Room 201H**

9" Floor Tile and Mastic	Assumed	136 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the west window.

**Room 201J**

9" Floor Tile and Mastic	Assumed	177 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the west window.

**Room 201K**

9" Floor Tile and Mastic	Assumed	136 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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**Room 201M**

2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	153 ft <sup>2</sup>	Friable Surfacing	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None	
9" Floor Tile and Mastic	Assumed	153 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.

**Room 201N**

2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	95 ft <sup>2</sup>	Friable Surfacing	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None	
9" Floor Tile and Mastic	Assumed	95 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.

**Room 201P**

<del>2'x4' Ceiling Tile with Large and Small Pinholes</del>	15% Amosite	86 ft <sup>2</sup>	Friable Surfacing	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None	
	<b>Abated June 2016</b>				Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<del>9" Floor Tile and Mastic</del>	Assumed	86 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*		N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
	<b>Abated June 2016</b>							

\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
<del>Purple Sink Undercoating</del>	10% Chrysotile	1 sink	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos sink undercoating is along the east wall.
		<b>Abated June 2016</b>						

**Room 201Q**

9" Floor Tile and Mastic	Assumed	119 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet.
Spray Wall Texture	3% Chrysotile	340 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos spray wall texture is on the gypsum wallboard along the north, south, east, and west walls.

**Room 202 (including the small hallway to the north)**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	6 fittings	Friable TSI	Good	Physical	■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile adjacent to room 202F.
2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	284 ft <sup>2</sup>	Friable Surfacing	Good	Physical	□□■	6	The asbestos ceiling tile is in the small hallway between rooms 202F and <b>202J</b>
		<b>Portion Abated June 2015</b>						
9" Floor Tile and Mastic	Assumed	730 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet in room 202 and exposed in the small hallway.
		<b>Portion Abated June 2015</b>						
<del>Spray Wall Texture</del>	3% Chrysotile	153 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos spray wall texture is on the gypsum wallboard along the south and east walls in room 202.
		<b>Abated June 2015</b>						

**Room 202A **Abated June 2015****

<del>9" Floor Tile and Mastic</del>	Assumed	78 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
<del>Spray Wall Texture</del>	3% Chrysotile	170 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos spray wall texture is on the gypsum wallboard along the north, south, and east walls.
<del>Purple Sink Undercoating</del>	10% Chrysotile	1 sink	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos sink undercoating is along the north wall.

**Room 202B** Abated June 2015

<del>2'x4' Ceiling Tile with Large and Small Pinholes</del>	15% Amosite	140 ft <sup>2</sup>	Friable Surfacing	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None
<del>9" Floor Tile and Mastic</del>	Assumed	140 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet.
<del>Spray Wall Texture</del>	3% Chrysotile	297 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		N/A*	The asbestos spray wall texture is on the gypsum wallboard along the south, east, and west walls.
<del>Gray Sink Undercoating</del>	10% Chrysotile	1 sink	Non-friable Miscellaneous	N/A*			N/A*	The asbestos sink undercoating is along the north wall.

**Room 202C** Abated June 2015

<del>2'x4' Ceiling Tile with Large and Small Pinholes</del>	15% Amosite	199 ft <sup>2</sup>	Friable Surfacing	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None
<del>9" Floor Tile and Mastic</del>	Assumed	199 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		N/A*	The 9" floor tile and mastic were assumed to be ACMs.

\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
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**Room 202E**

9" Floor Tile and Mastic	Assumed	92 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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**Room 202F**

2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	154 ft <sup>2</sup>	Friable Surfacing	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None
9" Floor Tile and Mastic	Assumed	154 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the east window.

**Room 202G**

9" Floor Tile and Mastic	Assumed	199 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the east window.

**Room 202J**

Hard Fittings on Fiberglass Insulation	5-25% 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 and northeast end of the room.
Rainleader Bowl Insulation	5% Amosite	1 ea	Friable TSI	Good	Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		7	The asbestos rainleader bowl insulation is on the northeast end of the room.

\* = Non-Friable materials were not assessed



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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
9" Floor Tile and Mastic	Assumed	207 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the east window.

**Room 202K**

2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	132 ft <sup>2</sup>	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	132 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the east window.

**Room 202L**

<del>2'x4' Ceiling Tile with Large and Small Pinholes</del>	15% Amosite	132 ft <sup>2</sup>	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	132 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the east window.

**Abated July 2014**

\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 202M**

2'x4' Ceiling Tile with Large and Small Pinholes	15% Amosite	176 ft <sup>2</sup>	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None
9" Floor Tile and Mastic	Assumed	176 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A*	The asbestos window sill material is under the east window.

**Room 202N**

<del>2'x4' Ceiling Tile with Large and Small Pinholes</del> Abated June 2015	15% Amosite	229 ft <sup>2</sup>	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None
<del>9" Floor Tile and Mastic</del> Abated June 2015	Assumed	229 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A*	The asbestos window sill material is under the east window.
<del>Spray Wall Texture</del> Abated June 2015	3% Chrysotile	118 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos spray wall texture is on the gypsum wallboard along the west wall.

**Room 203**

Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos window sill material is under the west window.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 205**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	2 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are along the northwest corner of the room.
Rainleader Bowl Insulation	5% Amosite	1 ea	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos rainleader bowl insulation is on the northwest end of the room.
9" Floor Tile and Mastic	Assumed	573 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos window sill material is under the west window.

**Room 207**

9" Floor Tile and Mastic	Assumed	582 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs..
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos window sill material is under the west window.

**Room 208**

Mag Block Pipe Insulation	20% Amosite	18 ft	Friable TSI	Good	Physical Air Erosion Vibration	□□■ □□■ □□■	6	The asbestos mag block pipe insulation runs along the south and east walls.
Hard Fittings on Mag Block Insulation	20% Amosite	7 fittings	Friable TSI	Good	Physical Air Erosion Vibration	□□■ □□■ □□■	6	None

\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
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**Room 210**

Hard Fittings on Fiberglass Insulation	5-25% Amosite	8 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile along the middle of the room.
9" Floor Tile and Mastic	Assumed	563 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.

**Room 212** Abated March 2013

<del>Hard Fittings on Fiberglass Insulation</del>	5-25% Amosite	14 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile along the middle of the room.
<del>2'x4' Ceiling Tile with Large and Small Pinholes</del>	15% Amosite	564 ft <sup>2</sup>	Friable Surfacing	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
<del>9" Floor Tile and Mastic</del>	Assumed	564 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.

**Room 214**

<del>Hard Fittings on Fiberglass Insulation</del>	5-25% Amosite	5 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile along the west side of the room by the entrance.
<del>2'x4' Ceiling Tile with Large and Small Pinholes</del>	15% Amosite	1,821 ft <sup>2</sup>	Friable Surfacing	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
<del>9" Floor Tile and Mastic</del>	Assumed	1,821 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
<del>Black Lab Countertops</del>	10% Chrysotile	5 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	4 asbestos countertops run along the east end of the room (3'x 8' each) and 1 is under a fume hood in the sw corner of the room (4'x3').

\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
Window Sill Material	5% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the two east windows.

**Room 214A**

<del>9" Floor Tile and Mastic</del> Abated April 2013	Assumed	373 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
<del>Black Lab Countertop</del> Abated April 2013	20% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos lab counter top runs along the west side of the room and measure approx. 3'x 8'.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the east window.

**Room 214B**

<del>Hard Fittings on Fiberglass Insulation</del> Abated April 2013	5-25% Amosite	1 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fitting on fiberglass insulation is above the ceiling tile along the north end of the room.
<del>2'x4' Ceiling Tile with Large and Small Pinholes</del> Abated April 2013	15% Amosite	91 ft <sup>2</sup>	Friable Surfacing	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
<del>9" Floor Tile and Mastic</del> Abated April 2013	Assumed	91 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Sill Material	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window sill material is under the east window.

\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
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**Room 214C** Abated April 2013

<del>Hard Fittings on Fiberglass Insulation</del>	5-25% Amosite	1 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fitting on fiberglass insulation is above the ceiling tile along the north end of the room.
<del>Rainleader Bowl Insulation</del>	5% Amosite	1 ea	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos rainleader bowl insulation is on the north end of the room.
<del>2'x4' Ceiling Tile with Large and Small Pinholes</del>	15% Amosite	95 ft <sup>2</sup>	Friable Surfacing	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
<del>9" Floor Tile and Mastic</del>	Assumed	95 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.

**Room 214D** Abated April 2013

<del>Hard Fittings on Fiberglass Insulation</del>	5-25% Amosite	13 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile along the east end of the room.
<del>2'x4' Ceiling Tile with Large and Small Pinholes</del>	15% Amosite	127 ft <sup>2</sup>	Friable Surfacing	Good	Physical Air Erosion Vibration	□□■ □■□ ■□□	6	None
<del>9" Floor Tile and Mastic</del>	Assumed	127 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
<del>Black Lab Countertop</del>	20% Chrysotile	1 ea.	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos lab counter top runs along then north side of the room and measure approx. 3'x 8'.

**Room 214E** Abated April 2013

<del>Hard Fittings on Fiberglass Insulation</del>	5-25% Amosite	7 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The asbestos hard fittings on fiberglass insulation are above the ceiling tile along the east end of the room.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
<del>2'x4' Ceiling Tile with Large and Small Pinholes</del>	15% Amosite	133 ft <sup>2</sup>	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None
<del>9" Floor Tile and Mastic</del>	Assumed	133 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
<del>Black Lab Countertop</del>	20% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A*	The asbestos lab counter top runs along then south side of the room and measure approx. 3'x 8'.

**Hallway 288 (including all hallways and entry vestibules on 2<sup>nd</sup> floor)**

<del>Hard Fittings on Fiberglass insulation</del>	5-25% Amosite <b>Abated June 2017</b>	43 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 throughout the main hallway.
<del>2'x2' Ceiling Tiles with Large and Small Pinholes</del>	15% Amosite <b>Abated June 2017</b>	328 ft <sup>2</sup>	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	The asbestos 2'x2' ceiling tile is in the north vestibule.
<del>2'x4' Ceiling Tiles with Large and Small Pinholes</del>	15% Amosite <b>Abated June 2017</b>	1,068 ft <sup>2</sup>	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	The asbestos 2'x4' ceiling tile is in the main hallway section.
<del>9" Floor Tile and Mastic</del>	Assumed <b>Abated June 2016</b>	1,851 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Glazing	3% Chrysotile	23 windows	Non-friable Miscellaneous	N/A*	N/A*	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A*	Refer to the ACM Locations Map for further information.

**North Stairway (1<sup>st</sup> to 2<sup>nd</sup> Floor)**

9" Floor Tile and Mastic	Assumed	96 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
CIVIL ENGINEERING (BLDG A066)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**South Stairway (Basement to 2<sup>nd</sup> Floor)**

9" Floor Tile and Mastic	Assumed	192 ft <sup>2</sup>	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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**Exterior**

<del>Transite Panels</del> (above/below windows)	10% Chrysotile	52 ea	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.
Panels removed and disposed whole, Summer 2009								
Window Glazing	3% Chrysotile	26 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window glazing is on the west and east exterior windows.

<sup>1</sup>Assessment Categories:

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1) Damaged or Significantly Damaged TSI ACM</li> <li>2) Damaged Friable Surfacing ACM</li> <li>3) Significantly Damaged Friable Surfacing ACM</li> <li>4) Damaged or Significantly Damaged Friable Miscellaneous ACM</li> </ul> | <ul style="list-style-type: none"> <li>5) ACM with Potential for Damage</li> <li>6) ACM with Potential for Significant Damage</li> <li>7) Any Remaining Friable ACM or Friable Suspected ACM</li> </ul> |
|--|---|

**End**