

NARRATIVE REPORT

1.0 BUILDING INFORMATION

Burgum Hall was originally constructed in 1961; the building has had no major renovations.

Burgum Hall is a four-story, 35,266 ft² building which primarily serves as dormitory areas for students.

The interior floor finishes included ceramic tile, floor tile, concrete, and carpet; the interior wall finishes included ceramic tile, plaster, concrete, gypsum wallboard, concrete block, and brick; and the interior ceiling finishes included ceiling tile, concrete, plaster, 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 (both with and without hard fittings) is located in the building. Steam enters the building via a tunnel into room 6 and domestic water enters the building in room 8. HVAC systems located in the building consisted of steam radiators and a forced air furnace equipped with heating/cooling coils.

2.0 ASBESTOS SURVEY INFORMATION

Burgum Hall 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.

LEGEND was granted full access to Burgum Hall during the initial walk-through and sampling of the building. During subsequent walk-throughs of the building, for resampling and reporting purposes, LEGEND was granted access to the common areas and to 2-4 dormitory rooms per floor, only. For the remainder of the dormitory rooms, LEGEND identified the locations of ACMs using survey notes taken during the initial walk-through of the building.

A total of 80 samples were collected from suspect asbestos-containing materials (ACM) from Burgum Hall on June 11, 2007 and an additional 4 samples were collected on February 26, 2008. Laboratory analysis results indicate **10 of these samples tested positive for asbestos.**

2.1 Suspect Materials Identified and Sampled

Hard Fittings on Fiberglass Insulation (2 types)	Encapsulant on Fiberglass Insulation
Floor Tile (5 types)	Floor Tile Mastic (5 types)
Ceiling Tile (5 types)	Sink Undercoating (2 types)
Fiberglass Panel Adhesive	Baseboard Adhesive (4 types)
Carpet Mastic (2 types)	Window Caulk
Sandy Material (pouring out of wall)	Acoustical Texture
Wall Patch Material	Hard Plaster- Skimcoat (3 types)
Hard Plaster- Basecoat (3 types)	Tar Pipe Wrap
Joint Compound	Gypsum Wallboard
Exterior Door Caulk	Exterior Overhand Surfacing
Exterior Building Seam Caulk	Exterior Window Caulk
Hard Pack on Fiberglass Insulation	

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 **Asbestos Containing Materials**

Hard Fittings on Fiberglass Insulation (1 type)
Mastic for 12" Pink Floor Tile
Mastic for 12" Tan/Gray/Brown Mottled Floor Tile
Black Sink Undercoating
Mastic for 12" Gray Floor Tile with Dark Gray Marks
Mastic for 12" Beige Floor Tile with Gray/White Streaks
9" Floor Tile and Mastic (assumed)

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

2.3 **Cost Estimates**

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

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Hard Fittings on Fiberglass Insulation	26 ea	\$60.00/ea	\$1,560.00
Asbestos Floor Tile and/or Mastic	28,732 ft ²	\$4.00/ft ²	\$114,928.00
Asbestos Sink Undercoating	1 ea	\$150.00/ea	\$150.00
Total Estimated Abatement Costs:			\$116,638.00

2.4 **Survey Notes**

LEGEND sampled Hard Fittings on Fiberglass Insulation on domestic water pipes, steam pipes, and chilled water pipes. The domestic water pipes and steam pipes were installed in 1961 during the construction of the building; they were positive for asbestos. The chilled water pipes were installed in 1966 during an HVAC upgrade; they were negative for asbestos.

During the survey, LEGEND identified a small area on the building diagram on 1st, 2nd, and 3rd floors that is now inaccessible. The area is in the east hallway on each floor next to the north stairway; it may have been an old telephone booth. The areas have since been closed up with gypsum wallboard. LEGEND anticipates 9" floor tile and mastic will be identified in these areas (10 ft² each) during renovation activities.

LEGEND was able to visually quantify hard fittings on fiberglass insulation throughout the basement on steam and domestic water pipes. However, on floors 1-3 inaccessible ceilings and pipe chases prevented LEGEND from verifying the presence of possible additional hard fittings. LEGEND assumes additional hard fittings will be discovered during renovation or demolition activities on the water pipes supplying the laundry rooms, custodial rooms, and bathrooms. LEGEND recommends assuming an additional 50-100 hard fittings on fiberglass insulation on each of the 1st, 2nd, and 3rd floors.

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

LEGEND No. 0700048 (NDSU)
Burgum Hall (BUILDING A056)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Room 2 (and basement hallway) Abated Summer 2015

Hard Fittings on Fiberglass Insulation	25% Chrysotile	7 fittings	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	The hard fittings on fiberglass insulation run along the east and south walls.
					Air Erosion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
					Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9" Floor Tile and Mastic	Assumed	1,073 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Black Sink Undercoating	10% Chrysotile	1 sink	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos containing sink undercoating is on the west wall.

Room 2B

Hard Fittings on Fiberglass Insulation	25% Chrysotile	6 fittings	Friable TSI	Good	Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		6	The hard fittings on fiberglass insulation are above the ceiling tile.
9" Floor Tile and Mastic	Assumed	130 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.

Room 4 Abated Summer 2015

9" Floor Tile and Mastic	Assumed	90 ft ²	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 5 Abated Summer 2015

9" Floor Tile and Mastic	Assumed	64 ft ²	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

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ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
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Room 6

Hard Fittings on Fiberglass Insulation	25% Chrysotile	1 fitting	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	6	The hard fitting on fiberglass line is along the south wall.
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Room 7

Hard Fittings on Fiberglass Insulation	25% Chrysotile	4 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	6	The hard fittings on fiberglass line are along the northwest wall.
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Room 8

Hard Fittings on Fiberglass Insulation	25% Chrysotile	8 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	The hard fittings on fiberglass line are along the east wall.
9" Floor Tile and Mastic	Assumed	240 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.

Abated Summer 2015

Basement Stairway

9" Floor Tile and Mastic	Assumed	32 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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Room 100

Abated Summer 2015

9" Floor Tile and Mastic	Assumed	176 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet in this room.
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Dorm Rooms 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, and 123

Abated Summer 2015

9" Floor Tile and Mastic	Assumed	176 ft ² each	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic in the dorm rooms were assumed to be ACMs.
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* = Non-Friable materials were not assessed

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ACMS LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
Burgum Hall (BUILDING A056)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
Dorm Room 110 Now room 127 May 2012								
9" Floor Tile and Mastic	Assumed	358 ft ²	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 this room.
9" Floor Tile and Mastic	Assumed	25 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under a layer of 12" floor tile in the bathroom.
Mastic for 12" Pink Floor Tile	8% Chrysotile	60 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The mastic contains asbestos; the floor tile is negative in the kitchen.
Dorm Room 124 Abated Summer 2015								
9" Floor Tile and Mastic	Assumed	297 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic in the dorm rooms were assumed to be ACMs.
Dorm Room 125 Abated Summer 2015								
9" Floor Tile and Mastic	Assumed	120 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic in the dorm rooms were assumed to be ACMs.
Room 126 Abated March 2008								
9" Floor Tile and Mastic	Assumed	440 ft ²	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 this room.
Room 128 Abated June 2015								
9" Floor Tile and Mastic	Assumed	25 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.

* = Non-Friable materials were not assessed

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LEGEND No. 0700048 (NDSU)
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ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
Room 129 Abated Summer 2015								
Mastic for 12" Gray Floor Tile w/ Dark Gray Marks	5% Chrysotile	145 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The mastic contains asbestos; the floor tile was negative.
Room 131 Abated Summer 2015								
Mastic for 12" Gray Floor Tile w/ Dark Gray Marks	5% Chrysotile	35 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The mastic contains asbestos; the floor tile was negative.
Room 132 Abated June 2014								
9" Floor Tile and Mastic	Assumed	1,250 ft ²	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 this room.
Room 142								
9" Floor Tile and Mastic	Assumed	279 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Room 144								
9" Floor Tile and Mastic	Assumed	220 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Room 146								
9" Floor Tile and Mastic	Assumed	96 ft ²	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 150 Abated Summer 2015								
9" Floor Tile and Mastic	Assumed	72 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Room 156 Abated Summer 2015								
9" Floor Tile and Mastic	Assumed	28 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Room 158 Abated Summer 2015								
9" Floor Tile and Mastic	Assumed	54 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Room 160 Abated Summer 2015								
9" Floor Tile and Mastic	Assumed	42 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
1st. Floor Elevator Entry Abated Summer 2015								
9" Floor Tile and Mastic	Assumed	24 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Hallway 188 (including all hallways and entry vestibules on 1st floor and the storage closet by room 111) Abated April 2008 Abated Summer 2015								
9" Floor Tile and Mastic	Assumed	2,182 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.

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Dorm Rooms 201, 215, and 230

9" Floor Tile and Mastic	Assumed	297 ft ² each	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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Dorm Rooms 202, 203, 204, 205, 206, 208, 209, 210, 211, 212, 213, 214, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, and 229

9" Floor Tile and Mastic	Assumed	176 ft ² each	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 207

Mastic for 12" Tan/Gray/Brown Mottled Floor Tile	5% Chrysotile	176 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The mastic contains asbestos; the floor tile is negative.
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Room 216

Mastic for 12" Beige Floor Tile with Gray/White Streaks	5% Chrysotile	297 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The mastic contains asbestos; the floor tile is negative.
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Room 231

9" Floor Tile and Mastic	Assumed	440 ft ²	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 this room.
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Room 242

9" Floor Tile and Mastic	Assumed	279 ft ²	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

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Room 244

9" Floor Tile and Mastic	Assumed	220 ft ²	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 246

9" Floor Tile and Mastic	Assumed	96 ft ²	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 250

9" Floor Tile and Mastic	Assumed	72 ft ²	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 252

9" Floor Tile and Mastic	Assumed	10 ft ²	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 254

9" Floor Tile and Mastic	Assumed	28 ft ²	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 256

9" Floor Tile and Mastic	Assumed	54 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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2nd Floor Elevator Entry

9" Floor Tile and Mastic	Assumed	24 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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Hallway 288

9" Floor Tile and Mastic	Assumed	1,040 ft ²	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 this room.
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Dorm Rooms 301, 315, 316, and 330

9" Floor Tile and Mastic	Assumed	297 ft ² each	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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Dorm Rooms 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, and 329

9" Floor Tile and Mastic	Assumed	176 ft ² each	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 331

9" Floor Tile and Mastic	Assumed	440 ft ²	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 this room.
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Room 342

9" Floor Tile and Mastic	Assumed	297 ft ²	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 344

9" Floor Tile and Mastic	Assumed	304 ft ²	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 346

9" Floor Tile and Mastic	Assumed	96 ft ²	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 350

9" Floor Tile and Mastic	Assumed	72 ft ²	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 352

9" Floor Tile and Mastic	Assumed	10 ft ²	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 354

9" Floor Tile and Mastic	Assumed	28 ft ²	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 358

9" Floor Tile and Mastic	Assumed	54 ft ²	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

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3rd Floor Elevator Entry

9" Floor Tile and Mastic	Assumed	24 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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Hallway 388

9" Floor Tile and Mastic	Assumed	1,040 ft ²	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 this room.
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North Stairway (1st through 3rd floors)

9" Floor Tile and Mastic	Assumed	504 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs, includes stairwell.
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South Stairway (1st through 3rd floors)

9" Floor Tile and Mastic	Assumed	316 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs, includes stairwell.
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Elevator

9" Floor Tile and Mastic	Assumed	30 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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¹Assessment Categories:

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

End

* = Non-Friable materials were not assessed