

# NARRATIVE REPORT

## 1.0 BUILDING INFORMATION

Residence Life Facility Services was originally constructed in 1967; a 1968 addition extended the building to the west. There was a 2000 renovation throughout the building.

Residence Life Facility Services is a single-story, 3,283 ft<sup>2</sup> building which primarily serves as work and office areas for maintenance personnel.

The interior floor finishes included ceramic tile, wood, carpet, floor tile, and concrete; the interior wall finishes included gypsum wallboard, ceramic block, and wood; and the interior ceiling finishes included ceiling tile, concrete, and metal. The roofing system is a flat rubber-membrane roof over the east end of the building and a peaked metal roof over the west end of the building; the exterior of the structure is brick on the east end of the building and metal on the west end of the building.

The piping systems were insulated; fiberglass insulation (without hard fittings) is located throughout the building. Domestic water enters the building in room 101 inside a chase; steam enters the building via a tunnel into room 105A1. HVAC systems located in the building consisted of forced air furnaces equipped with heating/cooling coils and steam unit heaters.

## 2.0 ASBESTOS SURVEY INFORMATION

Residence Life Facility Services 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 49 samples were collected from suspect asbestos-containing materials (ACM) from Residence Life Facility Services on October 5, 2007. Laboratory analysis results indicate **5 of these samples tested positive for asbestos.**

### 2.1 Suspect Materials Identified and Sampled

Gypsum Wallboard (2 types)	Joint Compound (2 types)
Wall Texture (2 types)	Ceiling Tile
Carpet Mastic (with residual black mastic)	Baseboard Adhesive (2 types)
HVAC Duct Caulk	Encapsulant on Fiberglass Insulation
Floor Filler	Penetration Putty (2 types)
Penetration Cement	Floor Tile (2 types)
Floor Tile Mastic (2 types)	Window Caulk
Exterior Penetration Putty (4 types)	Exterior Door Caulk
Roof Caulk (west end)	Roof Flashing (east end)

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

## 2.2 Asbestos Containing Materials

Carpet Mastic (with residual black mastic)  
Exterior Penetration Putty (3 types)

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 Residence Life Facility Services as follows:

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Carpet Mastic	1,238 ft <sup>2</sup>	\$4.00/ ft <sup>2</sup>	\$4,952.00
Asbestos Penetration Putty (all types)	4 ea	\$60.00/ ea	\$240.00
<b>Total Estimated Abatement Costs:</b>			<b>\$5,192.00</b>

## 2.4 Survey Notes

Using non-destructive sampling techniques, LEGEND pulls the carpet back in at least one corner (approx 6") in every room and randomly selects a few rooms to collect samples from. LEGEND noted residual black mastic mixed with new carpet mastic in rooms 100, 101, 101A, 102, 103, 104, and 105; this mix tested positive for asbestos (NDSU records indicate the residual black mastic should have been abated throughout the building). LEGEND recommends assuming all carpeted areas in these rooms to have ACM residual black mastic until a destructive survey can be conducted to verify if the residual black mastic is only in the corners/edges. At that time if the residual black mastic is only in the corners/edges, LEGEND recommends sampling the carpet mastic that does not have residual black mastic under it to verify if it is/isn't an ACM (LEGEND was unable to collect a sample of carpet mastic without the residual black mastic under it).

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

LEGEND No. 0700048 (NDSU)  
RESIDENCE LIFE FACILITY SERVICES (BUILDING A060)

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

**Room 100**

Carpet Mastic (with residual black mastic)	5% Chrysotile	255 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	Appears to be residual mastic from a previous floor tile installation. Refer to section 2.4 Survey Notes for more information.
--	---------------	---------------------	------------------------------	------	------	--	------	--

**Room 101**

Carpet Mastic (with residual black mastic)	5% Chrysotile	154 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	Appears to be residual mastic from a previous floor tile installation. Refer to section 2.4 Survey Notes for more information.
--	---------------	---------------------	------------------------------	------	------	--	------	--

**Room 101A**

Carpet Mastic (with residual black mastic)	5% Chrysotile	119 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	Appears to be residual mastic from a previous floor tile installation. Refer to section 2.4 Survey Notes for more information.
--	---------------	---------------------	------------------------------	------	------	--	------	--

**Room 102**

Carpet Mastic (with residual black mastic)	5% Chrysotile	240 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	Appears to be residual mastic from a previous floor tile installation. Refer to section 2.4 Survey Notes for more information.
--	---------------	---------------------	------------------------------	------	------	--	------	--

**Room 103**

Carpet Mastic (with residual black mastic)	5% Chrysotile	110 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	Appears to be residual mastic from a previous floor tile installation. Refer to section 2.4 Survey Notes for more information.
--	---------------	---------------------	------------------------------	------	------	--	------	--

**Room 104**

Carpet Mastic (with residual black mastic)	5% Chrysotile	120 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	Appears to be residual mastic from a previous floor tile installation. Refer to section 2.4 Survey Notes for more information.
--	---------------	---------------------	------------------------------	------	------	--	------	--

\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
RESIDENCE LIFE FACILITY SERVICES (BUILDING A060)

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

**Room 105**

Carpet Mastic (with residual black mastic)	5% Chrysotile	240 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	Appears to be residual mastic from a previous floor tile installation. Refer to section 2.4 Survey Notes for more information.
--	---------------	---------------------	------------------------------	------	------	--	------	--

**Exterior**

Penetration Putty (on electric conduit)	20% Chrysotile	4 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	There is 1 on the east end, 1 on the west end, and 2 in the center (between the metal and brick exteriors) of the building.
---	----------------	------	------------------------------	------	------	--	------	---

<sup>1</sup>Assessment Categories:

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

**End**