NARRATIVE REPORT

1.0 **BUILDING INFORMATION**

Robinson Hall was originally constructed in 1976; there was a 2001 renovation throughout the building.

Robinson Hall is a one-story, 10,402 ft² building which primarily serves as office areas and work areas for veterinary personnel.

The interior floor finishes included concrete, floor tile, and epoxy flooring; the interior wall finishes included gypsum wallboard and concrete block; and the interior ceiling finishes included ceiling tile, gypsum wallboard, and concrete. The roofing system is a combination of a peaked asphalt shingle roof over the north section of the building and a flat rubber membrane roof over the south section of the building 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 and domestic water enter the building via a tunnel into room 115. HVAC systems located in the building consisted of steam radiators and forced air furnaces with heating/cooling coils.

2.0 ASBESTOS SURVEY INFORMATION

Robinson Hall building was surveyed as part of a larger project on NDSU's Fargo, ND Campus. This report is part of "Volume 8" of a nine volume series. This report includes building specific information only; please refer to the opening section of "Volume 8" for methodologies, definitions, and other pertinent supporting information.

A total of 37 samples were collected from suspect asbestos-containing materials (ACM) from Robinson Hall on June 28, 2007, an additional 18 samples were collected on December 12, 2007, and an additional 2 samples were collected on December 27, 2007. Laboratory analysis results indicate 23 of these samples tested positive for asbestos.

2.1 Suspect Materials Identified and Sampled

Gypsum Wallboard (3 types) Floor Tile (2 types) Door Caulk Ceiling Tile (4 types) Baseboard Adhesive (2 types) Exterior Building Seam Caulk Firestop Roof Tarpaper Roofing Felts (old roof) Sink/Counter System Undercoating (2 types) Unknown Pipe Insulation Hard Pack Encapsulant on Fiberglass Insulation Window Glazing (2 types) Joint Compound (2 types) Floor Tile Mastic (2 types) Sink Undercoating (4 types) Black Lab Countertop (2 types) Exterior Window Caulk Encapsulant on Fiberglass Insulation Asphalt Shingle Roof Flashing (old roof) Roof Tarpaper (old roof) Counter Undercoating Tank Insulation Window Glazing on Door (5 types)

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 Asbestos Containing Materials

Joint Compound (2 types) 12" Beige/White Floor Tile and Mastic Black Sink Undercoating (1 type) White Sink Undercoating (1 type) Black Sink/Counter System Undercoating (2 types) Black Counter Undercoating Black Lab Countertop (1 type) Window Glazing on Door (5 types) Window Glazing (2 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 Robinson Hall as follows:

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Joint Compound	7,660 ft ²	\$5.00/ ft ²	\$38,300.00
Asbestos Floor Tile and Mastic	3,176 ft ²	\$4.00/ ft ²	\$12,704.00
Asbestos Undercoating (all types)	5 ea	\$150.00/ ea	\$750.00
Asbestos Black Lab Countertop	1 ea	\$350.00/ ea	\$350.00
Asbestos Window Glazing (all types)	62 ea	\$225.00/ ea	\$13,950.00
Total Estimated Abater	ment Costs:		\$66,054.00

2.4 Survey Notes

As part of the 2001 addition/renovations, a new peaked asphalt shingled roof was added over the north section of the building. The old flat rubber membrane roof remains in the attic spaces that were created above the building during the addition of the peaked asphalt shingled roof. LEGEND sampled the old flat rubber membrane roof system and the new peaked asphalt shingled roof system.

LEGEND No. 0700048 (NDSU) ROBINSON HALL (BUILDING A085)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE	ASSESS. CAT. ¹	NOTES
Room 101							
12" Beige/White Floor Tile and Mastic	3-10% Chrysotile	110 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and the mastic both contain asbestos.
Joint Compound	3% Chrysotile	420 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on all the walls in this room.
toom 102							
12" Beige/White Floor Tile and Mastic	3-10% Chrysotile	780 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and the mastic both contain asbestos.
Joint Compound	3% Chrysotile	1,220 ft ²	Non-Friable	N/A*	N/A*	N/A*	The joint compound is on all the walls in this

Joint compound	S/Cell ySocie	1,220 11	Surfacing		177		room.
Window Glazing on Door	3% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The door is in the northwest corner of the room.

Room 102A

12" Beige/White Floor Tile and Mastic	3-10% Chrysotile	132 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and the mastic both contain asbestos; they are under the 12" Gray with dark gray and white floor tile.
Joint Compound	3% Chrysotile	480 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on all the walls in this room.
White Sink Undercoating	10% Chrysotile	1 sink	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The sink is along the north wall.
Black Counter Undercoating	10% Chrysotile	1 counter	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The counter is along the south wall.

* = Non-Friable materials were not assessed

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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE 등 록 표 POTENTIAL ^동 응	ASSESS. CAT. ¹	NOTES
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Room 102A1

12" Beige/White	3-10% Chrysotile	132 ft ²	Non-Friable	N/A*	N/A*	N/A*	The floor tile and the mastic both contain
Floor Tile and Mastic			Miscellaneous				asbestos; they are under the 12" Gray with dark gray and white floor tile.
Joint Compound	3% Chrysotile	480 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on all the walls in this room.

Room 103

12" Beige/White	3-10% Chrysotile	110 ft ²	Non-Friable	N/A*	N/A*	N/A*	The floor tile and the mastic both contain
Floor Tile and Mastic			Miscellaneous				asbestos.
Joint Compound	3% Chrysotile	420 ft ²	Non-Friable	N/A*	N/A*	N/A*	The joint compound is on all the walls in this
			Surfacing				room.

Room 104

12" Beige/White Floor Tile and Mastic	3-10% Chrysotile	120 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and the mastic both contain asbestos; they are under the 12" Gray with dark gray and white floor tile.
Joint Compound	3% Chrysotile	440 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on all the walls in this room.
Window Glazing on Door	3% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The door is on the north end of the room.

Room 105

12" Beige/White	3-10% Chrysotile	88 ft ²	Non-Friable	N/A*	N/A*	N/A*	The floor tile and the mastic both contain
Floor Tile and Mastic			Miscellaneous				asbestos.

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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE 등 록 프 POTENTIAL ^{또 한 한} 한	ASSESS. CAT. ¹	NOTES
Joint Compound	3% Chrysotile	88 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on the ceiling in this room.

Room 106

12" Beige/White	3-10% Chrysotile	726 ft ²	Non-Friable	N/A*	N/A*	N/A*	The floor tile and the mastic both contain
Floor Tile and Mastic			Miscellaneous				asbestos.
Laint Canana and		1 100 ft ²	New Frieble	N1 / A *	N1 / A *	N1/A*	
Joint Compound	3% Chrysotile	1,100 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on all the walls in this room.
Window Glazing on Door	3% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The door is in the northeast corner of the room.

Room 107

12" Beige/White Floor Tile and Mastic	3-10% Chrysotile	110 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and the mastic both contain asbestos.
Joint Compound	3% Chrysotile	110 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on the south wall in this room.

Room 108

Joint Compound	3% Chrysotile	88 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on the ceiling in this room.
Window Glazing on Door	3% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The door is in the northeast corner of the room.

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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE 다 전 비율 POTENTIAL ^{도 전 한} 만 바	ASSESS. CAT. ¹	NOTES
Room 108A							
Joint Compound	3% Chrysotile	187 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on the ceiling in this room.
Window Glazing on Door	3% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The door is in the northeast corner of the room.
Window Glazing	2% Chrysotile	3 windows	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The three windows are on the east wall.

Room 108B

Joint Compound	3% Chrysotile	99 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on the ceiling in this room.
Window Glazing on Door	3% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The door is in the northeast corner of the room.
Black Sink/Counter System Undercoating	10% Chrysotile	1 sink/ counter system	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The counter/sink system is along the north wall.

Room 109

12" Beige/White Floor Tile and Mastic	3-10% Chrysotile	88 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and the mastic both contain asbestos.
Joint Compound	3% Chrysotile	88 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on the ceiling in this room.

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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE 등 종 표 POTENTIAL ^중 용 표	ASSESS. CAT. ¹	NOTES				
Room 111 Abated	oom 111 Abated Feb 2013										
12" Beige/White Floor Tile and Mastic	3-10% Chrysotile	110 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and the mastic both contain asbestos.				
Joint Compound	3% Chrysotile	420 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on all the walls in this room.				
Black Counter Undercoating	10% Chrysotile	1 counter	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The counter is in the northwest corner.				
Black Lab Countertop	10% Chrysotile	1 countertop	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The countertop is along the east wall.				

Room 113

12" Beige/White Floor Tile and Mastic	3-10% Chrysotile	150 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and the mastic both contain asbestos.
Joint Compound	3% Chrysotile	500 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is on all the walls in this room.

Room 117 Now Room 124

Window Glazing on	3% Chrysotile	2 doors	Non-Friable	N/A*	N/A*	N/A*	There is one door on the west end of the room
Door			Miscellaneous				and one on the east end of the room.

Room 122 Now Room 132A

Window Glazing on	3% Chrysotile	4 doors	Non-Friable	N/A*	N/A*	N/A*	There are two doors on the west end of the
Door			Miscellaneous				room and two on the wall dividing the room the
							room.

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Room 123 Now Ro	oom 134A						
Window Glazing on Door	3% Chrysotile	2 doors	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	There is one door on the east end of the room and one on the wall dividing the room.
Room 125 Now Ro	om 136A						
Window Glazing on Door	3% Chrysotile	2 doors	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	There is one door on the east end of the room and one on the wall dividing the room.

Room 126 Now Room 138A

Window Glazing on	3% Chrysotile	2 doors	Non-Friable	N/A*	N/A*	N/A*	There is one door on the west end of the room
Door			Miscellaneous				and one on wall dividing the room.

Room 127 Now Room 140A

Window 0	Blazing on	3% Chrysotile	2 doors	Non-Friable	N/A*	N/A*	N/A*	There is one door on the east end of the room
Door				Miscellaneous				and one on the wall dividing the room.

Room 132 Now Room 146

Window Glazing on Door	3% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	There is one door on the east end of the room.
Black Sink/Counter Undercoating	10% Chrysotile	1 sink/ counter system	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The counter/sink system is along the north wall.

Room 133 Now Rooms 148 and 148A

Window Glazing on	3% Chrysotile	2 doors	Non-Friable	N/A*	N/A*	N/A*	There is one door on the east end of the room
Door			Miscellaneous				and one on the west end of the room.

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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE	ASSESS. CAT. ¹	NOTES
Room 135 Now Ro	om 152						
Window Glazing on Door	3% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	There is one door on the east end of the room.
Room 137 Now Ro	oom 154A		1				
Window Glazing on Door	3% Chrysotile	2 doors	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	There is one door on the east end of the room and one on the wall dividing the room.
Window Glazing	3% Chrysotile	1 window	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The window is on the west wall.

Room 138 Now Room 156A

Window Glazing on Door	3% Chrysotile	2 doors	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	There is one door on the west end of the room and one on the wall dividing the room.
Window Glazing	3% Chrysotile	1 window	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The window is on the east wall.

Room 141 Now Room 158A

Window Glazing on Door	3% Chrysotile	2 doors	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	There is one door on the east end of the room and one on the wall dividing the room.
Window Glazing	3% Chrysotile	1 window	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The window is on the west wall.

Room 142 Now Room 160A

ſ	Window Glazing on	3% Chrysotile	2 doors	Non-Friable	N/A*	N/A*	N/A*	There is one door on the west end of the room
	Door			Miscellaneous				and one on the wall dividing the room.

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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE G M H H H H H H H H H H H H H H H H H H	ASSESS. CAT. ¹	NOTES
Window Glazing	3% Chrysotile	1 window	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The window is on the east wall.

Room 143

Window Glazing on	3% Chrysotile	1 door	Non-Friable	N/A*	N/A*	N/A*	There is one door in the southwest corner of the
Door			Miscellaneous				room.

Room 144 Now Room 168

Window	v Glazing on	3% Chrysotile	1 door	Non-Friable	N/A*	N/A*	N/A*	There is one door on the south end of the room.
Door				Miscellaneous				

Room 145 Now Room 164

Window Glazing on	3% Chrysotile	1 door	Non-Friable	N/A*	N/A*	N/A*	There is one door on the south end of the room.
Door			Miscellaneous				

Room 146 Now Room 166

Window Glazing	on 3% Chrysotile	1 door	Non-Friable	N/A*	N/A*	N/A*	There is one door on the south end of the room.
Door			Miscellaneous				

Hallway 188 (north and south sections of the hallway, the east and west main entrys, and the small vestibule in the hallway by rooms 109/111)

12" Beige/White Floor Tile and Mastic	3-10% Chrysotile	520 ft ²	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and the mastic is throughout the south section of the hallway, the east and west main entrys, and the vestibule by rooms 109/111
Joint Compound	3% Chrysotile	1,520 ft ²	Non-Friable Surfacing	N/A*	N/A*	N/A*	The joint compound is throughout the south section of the hallway, the east and west main entrys, and the vestibule by rooms 109/111.

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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE 등 전 프 POTENTIAL ^{도 한 한} 한 부	ASSESS. CAT. ¹	NOTES
Window Glazing on Door	3% Chrysotile	7 doors	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	There are 2 doors in each the east and west main entrys, 2 in the vestibule by rooms 109/ 111, and 1 in the northwest entry (by room 144).
Window Glazing	3% Chrysotile	12 windows	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	There are six windows in each the east and west 168 main entrys.

¹Assessment Categories:

1) Damaged or Significantly Damaged TSI ACM

2) Damaged Friable Surfacing ACM

3) Significantly Damaged Friable Surfacing ACM

4) Damaged or Significantly Damaged Friable Miscellaneous ACM

End

5) ACM with Potential for Damage

6) ACM with Potential for Significant Damage

7) Any Remaining Friable ACM or Friable Suspected ACM