

NARRATIVE REPORT

1.0 BUILDING INFORMATION

Potato Research Pesticide Storage was originally constructed in 1966; a 1976 addition extended the building to the northwest and a 1986 addition extended the building to the southwest. The original building and the additions remain largely un-renovated.

Potato Research Pesticide Storage is a single-story, 10,907 ft² building which primarily serves as work and storage areas for agriculture personnel.

The interior floor finishes included concrete; the interior wall finishes included concrete and concrete block; and the interior ceiling finishes included plaster and concrete. The roofing system is a flat rubber-membrane roof and the exterior of the structure is brick and concrete block.

The piping systems were insulated; fiberglass insulation (both with and without hard fittings) is located throughout the building. Steam and water enter the building in room 102. HVAC systems located in the building consisted of steam unit heaters.

2.0 ASBESTOS SURVEY INFORMATION

Potato Research Pesticide Storage 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 30 samples were collected from suspect asbestos-containing materials (ACM) from Potato Research Pesticide Storage on May 8, 2007 and an additional 2 samples were collected on November 13, 2007. Laboratory analysis results indicate **6 of these samples tested positive for asbestos.**

2.1 Suspect Materials Identified and Sampled

Hard Fittings on Fiberglass Insulation	Hard Plaster- Monocoat
Encapsulant on Fiberglass Insulation	Penetration Caulk
Ceiling Patch Material	Ceiling Surface (above coolers)
Black Insulation (above cooler ceiling)	Cement
Door Caulk	Penetration Putty
Sink Undercoating	Transite Fume Hood
Exterior Window Caulk (2 types)	Exterior Door Caulk
Exterior Building Seam Caulk	

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 Asbestos Containing Materials

Gray Penetration Putty (on electric conduit)
Encapsulant on Fiberglass Insulation
Pink Sink Undercoating
Transite Fume Hood

Exterior Window Caulk

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 Potato Research/Pesticide Storage as follows:

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Penetration Putty	4 ea	\$60.00/ea	\$240.00
Asbestos Sink Undercoating	1 ea	\$150.00/ea	\$150.00
Asbestos Transite Fume Hood	1 ea	\$350.00/ea	\$350.00
Asbestos Window Caulk	7 ea	\$125.00/ea	\$875.00
Asbestos Encapsulant on Fiberglass Insulation	5 ea	\$60.00/ea	\$300.00
Total Estimated Abatement Costs:			\$1,915.00

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

LEGEND No. 0700048 (NDSU)
POTATO RESEARCH PESTICIDE STORAGE (BUILDING A071)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM CAT. ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Room 101

Gray Penetration Putty	3% Chrysotile	2 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	One penetration is located in the northwest corner and one in the southwest corner. The putty is on an electric conduit.
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Room 101B

Gray Penetration Putty	3% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The penetration is located in the northeast corner. The putty is on an electric conduit.
Pink Sink Undercoating	15% Chrysotile	1 ea.	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	Only one sink in the room, along the south wall.
Transite Fume Hood	15% Chrysotile	1 ea.	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The fume hood is in the southwest corner of the room.

Room 102

Gray Penetration Putty	3% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The penetration is located in the northwest corner. The putty is on an electric conduit.
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Room 151

Encapsulant on Fiberglass Insulation	10% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The encapsulant is located at the end of the fiberglass insulation as the pipe enters the unit heater in the southwest corner of the room.
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Room 152

Encapsulant on Fiberglass Insulation	10% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The encapsulant is located at the end of the fiberglass insulation as the pipe enters the unit heater in the west end of the room.
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* = Non-Friable materials were not assessed

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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM CAT. ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Room 153

Encapsulant on Fiberglass Insulation	10% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The encapsulant is located at the end of the fiberglass insulation as the pipe enters the unit heater in the east end of the room.
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Room 154

Encapsulant on Fiberglass Insulation	10% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The encapsulant is located at the end of the fiberglass insulation as the pipe enters the unit heater in the southeast corner of the room.
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Hallway 188

Encapsulant on Fiberglass Insulation	10% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The encapsulant is located at the end of the fiberglass insulation as the pipe enters the unit heater in the west end of the room.
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Exterior

Exterior Window Glazing	3% Chrysotile	7 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The windows are on the 1966 building; there are 4 windows on the north end, 2 windows on the east end, and 1 window on the south end.
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¹Assessment Categories:

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|---|---|
| 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