

HMIS Online

Hazardous Material Inventory System

University of Windsor
thinking forward



The brilliant solution to surveying and
managing hazardous materials information
— on-site, on-line and in-hand.

hmis-online.com

 **HMIS**
Hazardous Materials Inventory System

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HMIS Quick Reference Guide

What is HMIS?

HMIS Online was designed and developed by one of Canada's largest hazardous materials consulting and management firm. HMIS Online was developed in response to clients' need for a simple, effective on-line tool to manage their compliance of asbestos and other hazardous materials regulations. HMIS Online meets or exceeds the recordkeeping requirements of all Canadian and US jurisdictions, including US EPA sample protocol. To increase accessibility to clients for timely information, the web-based system was launched in 2004. It has been used for surveys of many tens of millions of square feet of building space for over 18 years and is currently used by many clients.

With HMIS-Online the user can choose room-by-room or area-by-area inventory. You can see building systems examined in 8 different ways, including floors, ceilings, walls, structure, pipes, ducts, mechanical and other options. Record quantity, condition, accessibility, visibility, covering and friability of each material and component. The system acts as a central repository for asbestos related building information and is accessible to all authorized stakeholders over the internet via a secure connection. Users can quickly and easily find detailed asbestos information for the entire portfolio, a single building, or a single room within a building. The system is designed for long term management, and facilitates easy updating of asbestos information. Once the field data has been collected, the asbestos information is entered in the HMIS Online database. The software permits easy report preparation, approximate quantification of ACM for tender purposes, sorting of information, and facilitates easy updating of information following renovations.

Ontario Regulation 278/05

Each province has issued regulations or guidelines for control of work around asbestos in buildings and for the packaging and disposal of asbestos waste. The applicable regulations governing asbestos in **Ontario** are as follows:

The management and disturbance of ACM is regulated under the Occupational Health and Safety Act by 278/05, Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations (O.Reg. 278/05, the Regulation). In Ontario this regulation is enforced by the Ontario Ministry of Labour.

Section 8 of the Regulation describes the requirements for the management of ACM in buildings. The Regulation requires building Owners and managers to perform the following:

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Maintain a record (asbestos assessment report) on the premises showing the location of all ACMs. The report shall include information on the location of ACM, whether it is friable/non-friable, the condition of the material and the type of asbestos.

Notify the occupier(s) of the building or space of the information in the record.

Advise employers hired by the owner of the information in the record if the work may disturb or is performed in close proximity to the ACM.

Advise all workers employed by the owner who may disturb (or be in close proximity) to ACM (friable and non-friable) of the information in the record.

Establish and maintain worker training programs for employees that will disturb asbestos (training to include the health hazards of asbestos, protective equipment, hygiene practices and measures and procedures prescribed by the Regulation).

Reassess the condition of the ACM and update the asbestos assessment report at least annually or when new information is obtained.

The disturbance of asbestos-containing materials (ACMs) on construction projects is also controlled by Ontario Ministry of Labour Regulation 278/05 made under the Occupational Health and Safety Act (Designated Substance - Asbestos on Construction Projects and in Buildings and Repair Operations). The Regulation classifies all disturbances as Type 1, Type 2, or Type 3, each of which has defined work practices. All ACM are subject to special handling and disposal, and must be removed before partial or full demolition. The Ministry of Labour must be notified prior to any project involving removal of more than a minor amount of friable ACM (Type 3 or Glove Bag abatement).

Your University of Windsor Asbestos Assessment

Your University of Windsor (UofW) Asbestos Database includes all buildings as managed by your facilities and engineering department.

Buildings that were constructed prior to 1995 were surveyed on a room by room basis.

Buildings built after 1995 were not surveyed on a room by room basis. A letter stating such as well as limitation will be presented after you click on the building name.

By nature of this program the surveys and information are an evolving documentation of confirmed and presumed asbestos-containing materials. The information you see can be quickly updated should you find a material that was not previously assessed as well as the ability to remove materials as abatements occur.

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Logging In

The web address used to gain access to your UofW Asbestos Database is:

www.hmis-online.com

A generic user name and password has been created for all UofW authorized staff to use for login purposes.

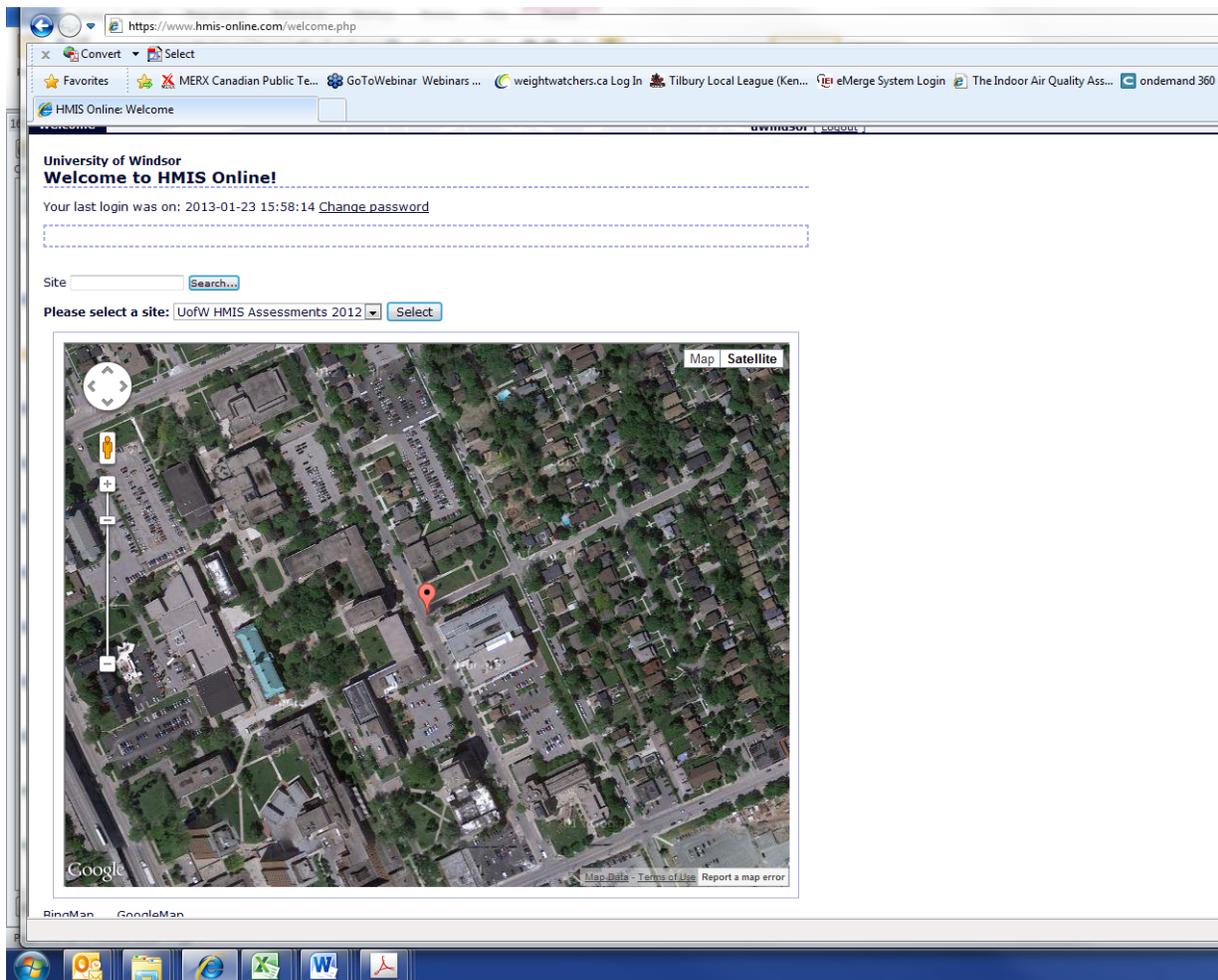
User name: uwindsor

Password: uwindsor

Administrative users will have the ability to navigate the site and print reports.

NAVIGATING HMIS ONLINE

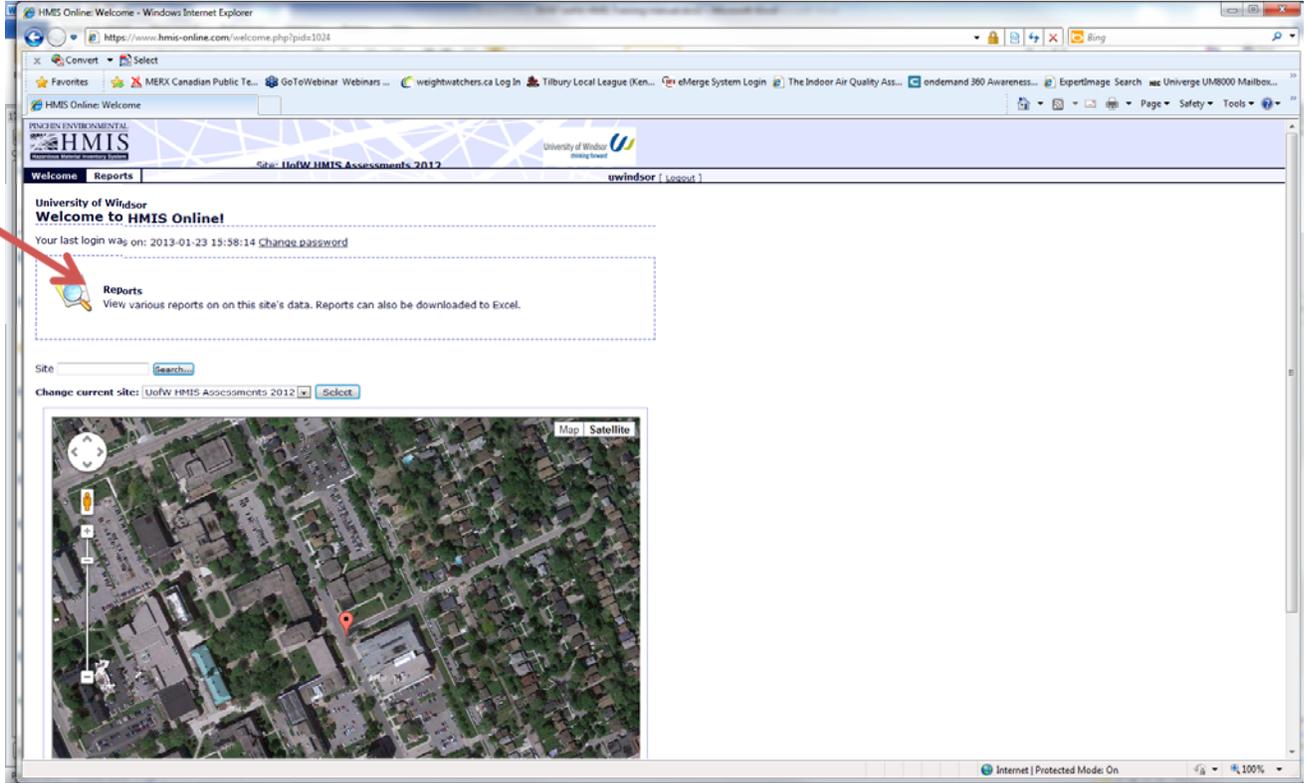
Once logged into the website you will arrive at the welcome screen as seen below:



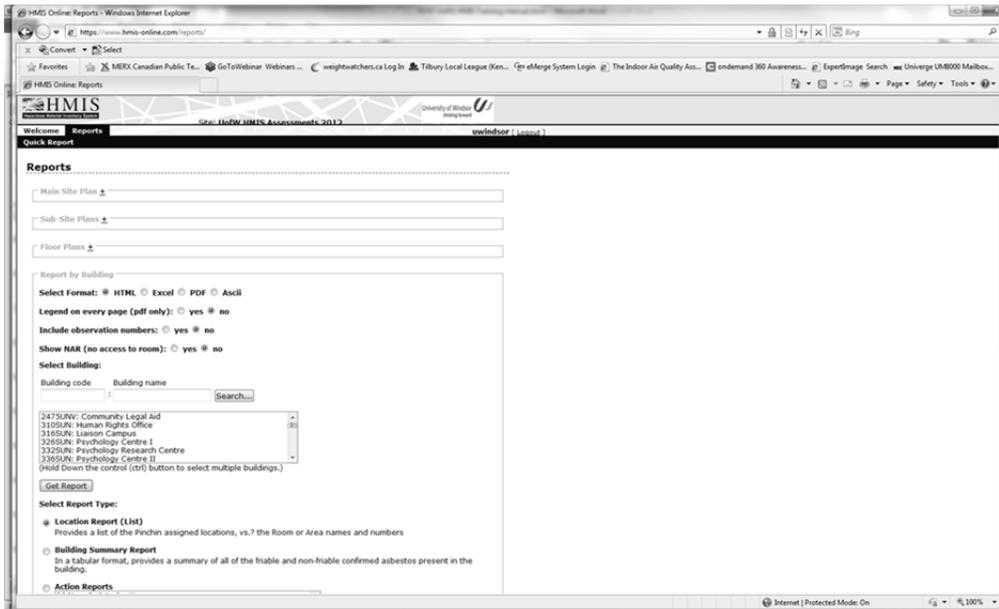
From the welcome screen you now select “UofW HMIS Assessments 2012” from the drop down menu.

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Next click on “Reports” to entire the site, to view various reports, building drawings etc.:



Once you click “reports” you should see the following screen:

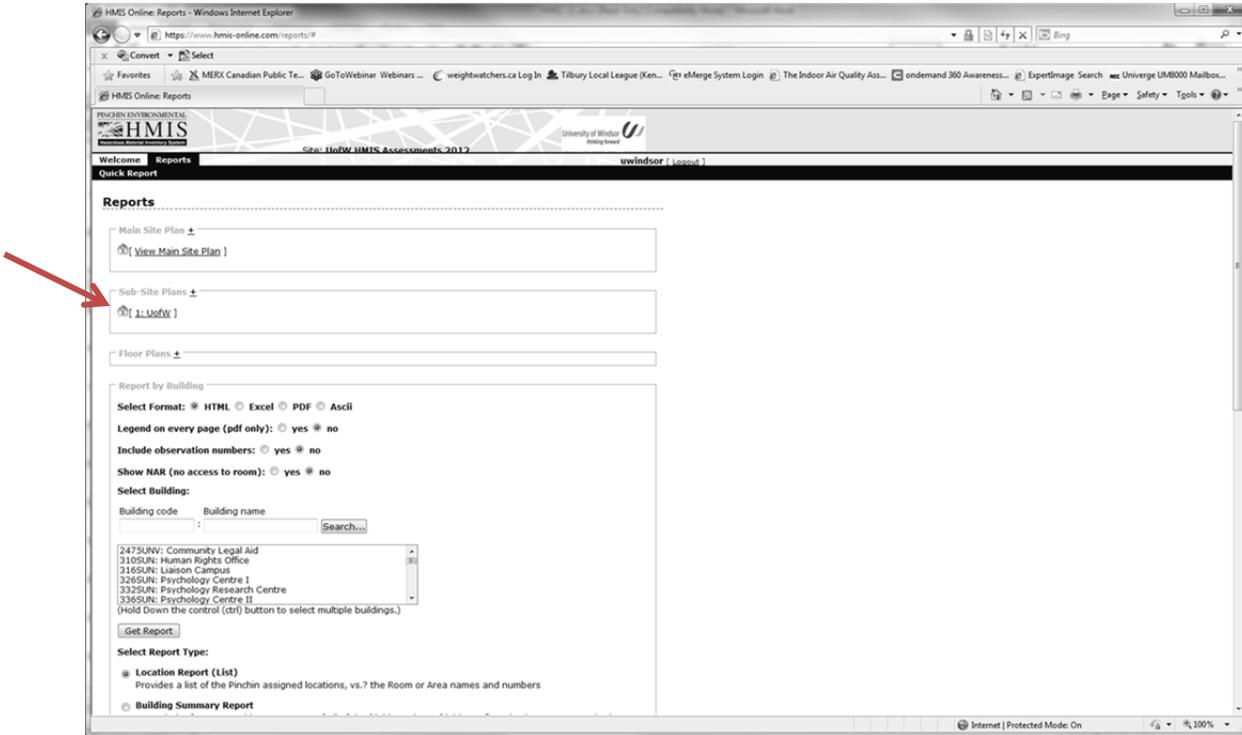


From here you now have the choice to either generate a report, per building or for the entire campus or to view a buildings floor plan and view the data on a room-by-room basis.

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Viewing Data from Building Floor Plans:

To view what asbestos-containing materials may be present in a specific room or area in a specific building you can either go directly to the building floor plan or you can go through the sub-site plan and locate the building:

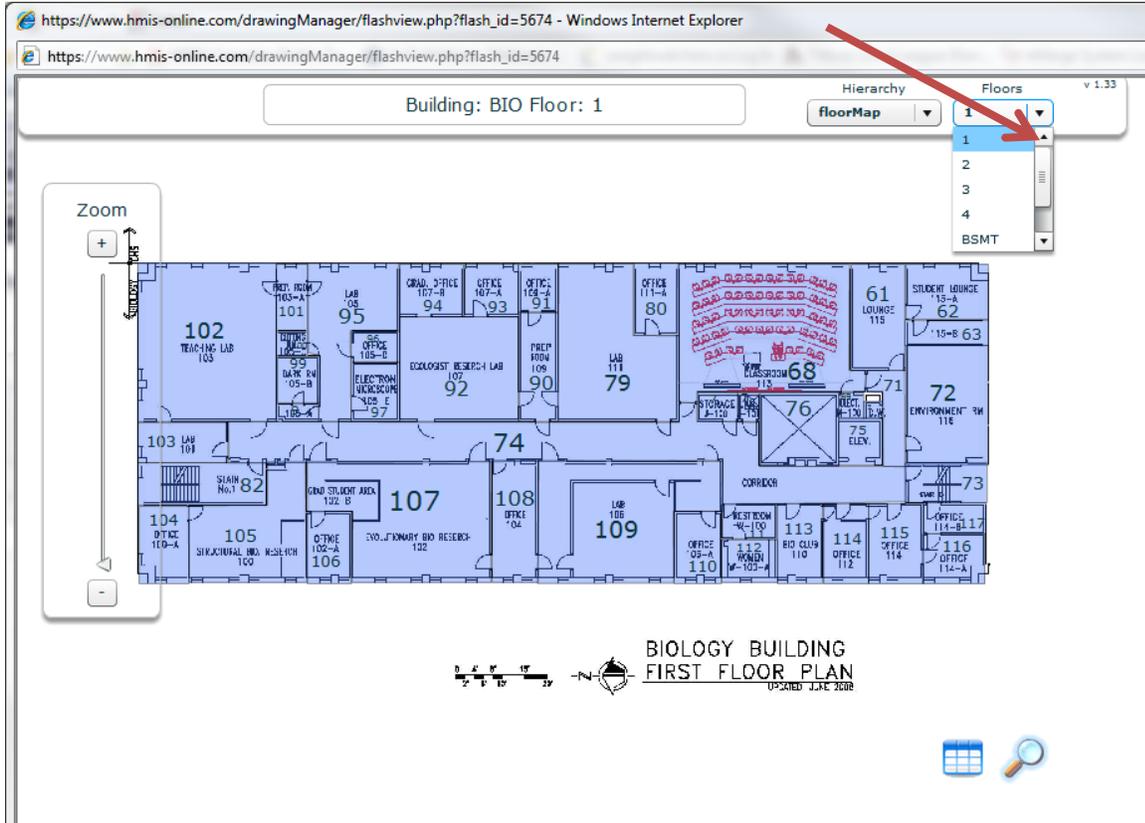


This will bring up the following screen:



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From the top of this screen you may also switch floor levels of the building:



From here, simply click on the room or area that you are interested in and an all data report will be generated for the selected room:

HMIS Online: Observation Report for Location #68 - Windows Internet Explorer

Client: University of Windsor
 Date: 23/01/13 17:31:18
 Building Name: Biology
 Building #: 680
 User: uwindsor

Asbestos

Building #: B10 Building Name: Biology Surveyor: Ralph Verbeek Survey Date: 2012-08-15
 Location #: 68 Location Name: Classroom Floor: 1 Square Feet: 1000 Room #: 113

System	Component	Material	Item	Covering	Access	Visible	Condition	Qty & Action	Units	Sample	Hazard	Friability
Floor		VSF and Mastic Adhesive			A	Y	Good					
Ceiling	AT-004 - Large and small pinholes (Date stamped 11/10/11)	Lay-in ceiling tiles			C	Y	1000		SF	V 0000	None	
Walls		Masonry			A	Y	1000		SF	V 0000	None	
Structure	Deck	Concrete(poured)			C	N					None	
Structure	Beam	Steel		Fibrous Fireproofing	D	N					None	
Structure	Beam	Fibrous Fireproofing			C	N	1000		SF	S 0015	None	
Piping	Gas Pipe Line	Not Insulated	Straight		C	N					None	
Piping	Gas Pipe Line	Not Insulated	Fitting		C	N					None	
Piping	Cooling/Churn	Not Insulated	Fans		C	N					None	
Piping	Domestic Water (Hot & Cold)	Not Insulated	Fitting		C	N					None	
Piping	Sanitary Drain	Not Insulated	Straight		C	N					None	
Piping	Hot Water Heating	Fiberglass	Fitting	Paper	D	N					None	
Piping	Hot Water Heating	Fiberglass	Straight	Paper	D	N					None	
Piping	Domestic Water (Hot & Cold)	Not Insulated	Straight		C	N					None	
Duct	Return Air	Not Insulated			C	N					None	
Duct	Supply Air	Fiberglass		Foil Face	D	N					None	
Other	Debris	Fibrous Fireproofing			C	N			15	SF	V 0015	None

Legend:

Action	Access	Condition	Sample Number
(1) Clean up of ACH Debris	A Accessible to all building occupants	Good No visible damage or deterioration.	S#### Sample collected
(2) ACH removal	B Accessible to maintenance and operations staff without a ladder	Fair Minor, repairable damage, cracking or deterioration.	V#### Material is visually identified to be identical to S####
(3) Proactive ACH removal (Minimum repair required for fair condition)	C Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	Poor Irreparable damage or deterioration with exposed and missing material	V0000 Known non-asbestos material
(4) Precautions for Access Which may Disturb ACH Debris	D Not normally accessible or without demolition	NOTE: See report for full definitions of action, access and condition.	V9000 Material is known to contain asbestos
(5) Precautions for Work Which may Disturb ACH in Poor Condition			V9500 Material is presumed to contain asbestos
(6) ACH repair			NOTE: Presumed various materials identified in the report are ACH if not sampled.
(7) Management program and surveillance			

NOTE: Actions in round brackets () are auto-calculated. Actions in square brackets [] are manual

Units SF - Square Feet LF - Linear Feet EA - EACH % - Percentage

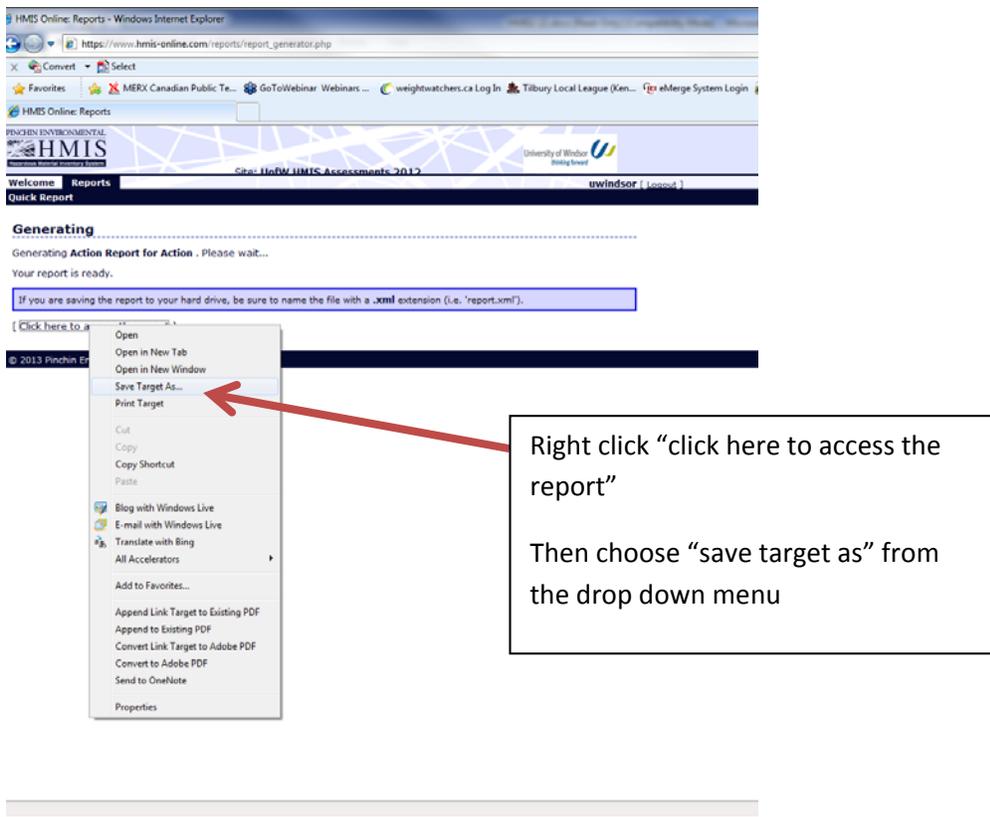
GUIDE TO THE HMIS REPORTS

An HMIS building materials report includes a number of different types of printable reports. Below is a quick description of those reports most commonly utilized.

Report Formatting

Reports can be accessed directly from the Reports Page in HMIS in 3 different formats. By default, the HTML format is selected.

- **HTML** format is designed for quick and easy viewing on a computer. However, it is not the best format for printing.
- Reports formatted in **Excel** can be downloaded and saved to your hard drive and opened in Microsoft Excel. Selecting the Excel radio button selects Excel as the format in the report. Excel should be used if you wish to view your report in a spreadsheet layout. When selecting the “Click here to access report” link, right click on the link and choose the “Save Target As” from the menu. Save where you want on your computer. You can open the file through the location you have saved it.



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- Reports in **PDF** are similar to those in HTML but are designed for printing. If you want to print reports you should use PDF format.

After selecting which format type to use, you must select which building in the project you would like to retrieve a report from. Use the Drop-down menu to select the desired building. Then select the type of report you want to retrieve.

Locations Summary Report

The Locations Report provides a list of all functional areas (or rooms) of the building where the surveyor recorded information, the name of the area, the room number (if available), whether the room was accessible, the floor of the building the room is on, the square footage of the room and any additional notes. The location number can be cross-referenced to the Drawings and the text summary of the report.

Actions	Loc #	Floor	Description	Photo / Document	Room #	Notes
[report] [update] [PDF report]	1	BSBMT	Mechanical Room		M01	
[report] [update] [PDF report]	2	BSBMT	Electrical		M02	
[report] [update] [PDF report]	3	BSBMT	Storage		J01	
[report] [update] [PDF report]	4	BSBMT	Phone		M04	
[report] [update] [PDF report]	5	BSBMT	Storage		J01A	
[report] [update] [PDF report]	6	BSBMT	Storage		J02	
[report] [update] [PDF report]	7	BSBMT	Hallway			
[report] [update] [PDF report]	8	BSBMT	Elevator Machine Room		M03	
[report] [update] [PDF report]	9	BSBMT	Basement Entry			
[report] [update] [PDF report]	10	BSMT	Stairwell			
[report] [update] [PDF report]	11	BSMT	Lab		30	
[report] [update] [PDF report]	12	BSMT	Office		31	
[report] [update] [PDF report]	13	BSMT	Electrical		M10	
[report] [update] [PDF report]	14	BSMT	Lab		29	
[report] [update] [PDF report]	15	BSMT	Prep Room		25	
[report] [update] [PDF report]	16	BSMT	Mens Washroom		W10	
[report] [update] [PDF report]	17	BSMT	Lab		24	
[report] [update] [PDF report]	18	BSMT	Office		23A	
[report] [update] [PDF report]	19	BSMT	Lab		23	
[report] [update] [PDF report]	20	BSMT	Cold Room		22	No access above ceiling in this location. Piping and ducting above ceiling is unknown.
[report] [update] [PDF report]	21	BSMT	Centrifuge		21	
[report] [update] [PDF report]	22	BSMT	Freezer		17A	No access above ceiling in this location. Piping and ducting above ceiling is unknown.
[report] [update] [PDF report]	23	BSMT	Cold Room		17	
[report] [update] [PDF report]	24	BSMT	Lab		28	
[report] [update] [PDF report]	25	BSMT	Office		07	
[report] [update] [PDF report]	26	BSMT	Lab		26	
[report] [update] [PDF report]	27	BSMT	Office		19	
[report] [update] [PDF report]	28	BSMT	Technician Office		16	
[report] [update] [PDF report]	29	BSMT	Aquatics Housing		14	
[report] [update] [PDF report]	30	BSMT	Aquatics Behavioural Experiment		09	
[report] [update] [PDF report]	31	BSMT	Aquatics Experiment		07	
[report] [update] [PDF report]	32	BSMT	Aquatics Housing		06	
[report] [update] [PDF report]	33	BSMT	Aquatics AHT		05	
[report] [update] [PDF report]	34	BSMT	Aquatics Housing		05A	
[report] [update] [PDF report]	35	BSMT	Experimental Aquatics		04	No access above ceiling in this location. Piping and ducting above ceiling is unknown.
[report] [update] [PDF report]	36	BSMT	Janitor		301	No access above ceiling in this location. Piping and ducting above ceiling is unknown.
[report] [update] [PDF report]	37	BSMT	Experimental Aquatics		02A	
[report] [update] [PDF report]	38	BSMT	Aquatics Ante		02	
[report] [update] [PDF report]	39	BSMT	Aquatics Housing		02B	
[report] [update] [PDF report]	40	BSMT	Clean Cage		01	

Select the **report** link for a particular location to view the **Observation Report** for that location; as shown below:

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HMIS Online: Observation Report for Location #2 - Windows Internet Explorer

https://www.hmis-online.com/reports/report_generator.php?BuildNo=10&LocNo=2&quickreports=true&reports=single_location

Client: University of Windsor
 Site: UoW HMIS Assessments 2012
 Building Name: Biology
 Building #: BIO

Date: 24/01/13 09:31:02
 EST
 User: uwindor

Asbestos [Print] [Close]

Building #: BIO Building Name: Biology Surveyor: Ralph Verbeek Survey Date: 2012-08-15
 Location #: 2 Location Name: Electrical Floor: SBSMT Square Feet: 500 Room #: M02

System	Component	Material	Item	Covering	Access	Visible	Condition Qty & Action			Units	Sample	Hazard	Friability
							Good	Fair	Poor				
Floor		Concrete(poured)			B	Y						None	
Ceiling	Not Found	None Found										None	
Walls		Masonry			B	Y						None	
Walls		Concrete(poured)			B	Y						None	
Structure	Beam, Deck	Concrete(poured)			C	Y						None	
Piping	Sanitary Drain	Fibreglass	Straight	Canvas	D	N						None	
Piping	Sanitary Drain	Parging Cement	Fitting	Canvas	C	Y	1	(7)		EA	V 0010	Confirmed Asbestos	Friable
Duct	Supply Air	Fibreglass		Canvas	D	N						None	
Duct	Return Air	Not Insulated			C	Y						None	

Legend:

Action	Access	Condition	Sample Number
(1) Clean up of ACM Debris	A Accessible to all building occupants	Good No visible damage or deterioration.	S### Sample collected
(2) ACM removal	B Accessible to maintenance and operations staff without a ladder	Fair Minor, repairable damage, cracking or deterioration.	V### Material is visually identified to be identical to S###
(3) Proactive ACM removal (Minimum repair required for fair condition)	C Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	Poor Irreparable damage or deterioration with exposed and missing material	V0000 Known non-asbestos material
(4) Precautions for Access Which may Disturb ACM Debris	D Not normally accessible or without demolition	NOTE: See report for full definitions of action, access and condition	V9000 Material is known to contain asbestos
(5) Precautions for Work Which may Disturb ACM in Floor Condition			V8500 Material is presumed to contain asbestos
(6) ACM repair			NOTE: Presumed various materials identified in the report are ACM if not sampled.
(7) Management program and surveillance			

NOTE: Actions in round brackets () are auto-calculated. Actions in square brackets [] are manual

Units SF - Square Feet LF - Linear Feet EA - EACH % - Percentage

Bulk Sample Summary Report

Near the bottom (3rd from the bottom) of the report lists you will find the HMIS summary of samples results.

HMIS Online: Bulk Sample Analysis - Windows Internet Explorer

https://www.hmis-online.com/reports/report_output.php?gdn=mo&naz=no&obis=no&us=mo&format=html&id=report,2012093128

Client: University of Windsor
 Site: UoW HMIS Assessments 2012
 Building Name: Chrysler Hall North & Extension Users: uwindor
 Building #: CHN

Date: 24/01/13 09:31:28
 EST

Bulk Sample Analysis: [Print] [Close]

CHN :: Chrysler Hall North & Extension Surveyor: C Marentette & R Verbeek Survey Date: 2012-05-03

Sample Number	System	Material	Location Number	Has Asbestos	Result A	Type A	Result B	Type B	Result C	Type C	Result D	Type D	Final Result	Description
0001	Structure	Cementitious Fireproofing	1	[X]	25 - 30%	Chrysotile	Not Analyzed						25 - 50%	Cementitious white sprayed fire-proofing (All samples taken in same location)
0002			1	[X]	5 - 10%	Chrysotile	Not Analyzed						5 - 10%	Parging cement on joints of HVAC unit (All samples taken in same location)
0003	Piping	Fibreglass w/Parging	1	[X]	25 - 50%	Chrysotile	Not Analyzed						25 - 50%	Parging cement on HPS FTG with fibreglass (Sample 0003A is Loc 1, 0003B is Loc 197 and 0003C is Loc 57)
0004	Piping	Parging Cement	1	[X]	25 - 50%	Chrysotile	Not Analyzed						25 - 50%	Parging cement on HWH FTG (0004A is Loc 1, 0004B is Loc 197 and 0004C is Loc 31)
0005	Ceiling	Lay-in ceiling tiles	2	[]	N.D.	None Detected							N.D.	Lay in ceiling tiles with random short fissures and pinholes (Sample 0005A is Loc 2, 0005B is Loc 253 and 0005C is Loc 148)
0006	Structure	Cementitious Fireproofing	2	[X]	N.D.	None Detected							10 - 25%	Green cementitious fireproofing above ceiling (Sample 0006A is Loc 1, 0006B is Loc 3, 0006C is Loc 105, 0006D is Loc 130, 0006E is Loc 236, 0006F is Loc 249 and 0006G is Loc 270)

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This summary provides a list, with analysis results for all samples collected by Pinchin Environmental during the asbestos assessments.

All data Report

The All Data Report provides all the information collected in the field by the surveyor and is recorded separately for each location (or area) assessed. In each location, information is recorded on each building system whether it is confirmed or assumed asbestos-containing.

Systems are described under headings Ceiling, Duct, Floor, Mechanical (equipment), Pipe, Structure, Wall.

In some cases, the system Other is used when none of the above apply. The information is presented in an easy to follow table format and definitions for a majority of the columns are provided in the legend at the bottom of each page; when viewing in pdf format and at the very bottom of all locations in html format.

All Data Report:

System	Component	Material	Item	Covering	Access	Visible	Condition	Qty & Action	Units	Sample	Hazard	Friability
							Good	Fair	Poor			
Floor		Concrete(poured)			B	Y					None	
Walls		Masonry			B	Y					None	
Walls		Concrete(poured)			B	Y					None	
Structure	Beam, Deck	Concrete(poured)			C	Y					None	
Piping	Domestic Water (Hot & Cold)	Parging Cement	Fitting		C	Y	15	(7)		EA	V 0010	Confirmed Asbestos Friable
Piping	Condensate Return	Fibreglass	Straight	Aluminum	D	N					None	
Piping	Condensate Return	Polyvinyl chloride (PVC)	Fitting		C	N					None	
Piping	Domestic Water (Hot & Cold)	Fibreglass	Straight	Cheesecloth	D	N					None	
Piping	Domestic Water (Hot & Cold)	Parging Cement	Fitting		C	N	6	(7)		EA	V 0020	Confirmed Asbestos Friable
Piping	Domestic Water (Hot & Cold)	Not Insulated	Straight		C	Y					None	
Piping	Domestic Water (Hot & Cold)	Fibreglass	Straight		D	N					None	
Piping	Abandoned Pipe	Fibreglass	Straight	Cheesecloth	D	N					None	
Piping	Abandoned Pipe	Parging Cement	Fitting		C	Y	5	(7)		EA	V 0010	Confirmed Asbestos Friable
Piping	Rain Water Leader	Not Insulated	Fitting		C	Y					None	
Piping	Condensate Return	Fibreglass	Straight	Cheesecloth	B	Y					None	
Piping	Sprinkler	Not Insulated	Straight		B	Y					None	
Piping	Sprinkler	Not Insulated	Fitting		B	Y					None	
Piping	Exhaust	Not Insulated	Fitting	Cheesecloth	B	Y					None	
Piping	Exhaust	Not Insulated	Straight	Cheesecloth	B	Y					None	
Piping	Rain Water Leader	Not Insulated	Straight		C	Y					None	
Piping	Low Pressure Steam	Parging Cement	Fitting		C	Y	20	(7)		EA	S 0008	Confirmed Asbestos Friable
Piping	Domestic Water (Hot & Cold)	Polyvinyl chloride (PVC)	Fitting		C	Y					None	
Piping	City Water/Service Water	Parging Cement	Fitting		C	N	4	(7)		EA	V 0010	Confirmed Asbestos Friable
Piping	Hot Water Heating	Fibreglass	Straight	Cheesecloth	D	N					None	
Piping	Hot Water Heating	Parging Cement	Fitting		C	Y	30	(7)		EA	S 0010	Confirmed Asbestos Friable
Piping	Low Pressure Steam	Fibreglass	Straight	Cheesecloth	D	N					None	
Piping	Gas Pipe Line	Not Insulated	Fitting		C	Y					None	
Piping	Gas Pipe Line	Not Insulated	Straight		C	Y					None	
Piping	City Water/Service Water	Fibreglass	Straight	Polyvinyl chloride (PVC)	D	N					None	
Piping	City Water/Service Water	Fibreglass	Fitting	Polyvinyl chloride (PVC)	D	N					None	
Piping	Abandoned Pipe	Not Insulated	Fitting		C	Y					None	
Piping	Abandoned Pipe	Not Insulated	Straight		C	Y					None	
Piping	Chilled Water System	Fibreglass	Straight	Cheesecloth	D	N					None	
Piping	City Water/Service Water	Fibreglass	Straight	Cheesecloth	D	N					None	
Piping	High Pressure Steam	Fibreglass	Straight	Cheesecloth	D	N					None	
Piping	High Pressure Steam	Parging Cement	Fitting		C	Y	14	(7)		EA	S 0008	Confirmed Asbestos Friable
Piping	Chilled Water System	Parging Cement	Fitting		C	Y	23	(7)		EA	S 0009	Confirmed Asbestos Friable
Piping	Process Pipes	Fibreglass	Straight	Polyvinyl chloride (PVC)	D	N					None	
Piping	Process Pipes	Fibreglass	Fitting	Polyvinyl chloride (PVC)	D	N					None	

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Confirmed Asbestos Materials Report

The Confirmed Asbestos Materials Summary Report provides a summary of confirmed asbestos-containing friable and non-friable materials containing asbestos, present in the subject building. Materials are categorized by system and list the location numbers where the materials are present.

HMIS Online: Confirmed Asbestos Only Report - Windows Internet Explorer

https://www.hmis-online.com/reports/report_output.php?lgd=no&nar=no&obs=no&sds=no&format=html&id=report20120124094156

Client: University of Windsor Date: 24/01/13 09:31:56
 Site: UoW HMIS Assessments 2012 EST
 Building Name: Biology User: unwindsor
 Building #: BIO

Confirmed Asbestos Only Report: [Print] [Close]

Building #:	Building Name:	Surveyor:	Survey Date:										
BIO	Biology	Ralph Verbeek	2012-08-15										
Location #:	Location Name:	Floor:	Square Feet:	Room #:									
1	Mechanical Room	SBSMT	750	M01									
System	Component	Material	Item	Covering	Access	Visible	Condition	Qty & Action	Units	Sample	Hazard	Friability	
Piping	Domestic Water (Hot & Cold)	Parging Cement	Fitting		C	N	6	(7)		EA	V 0020	Confirmed Asbestos	Friable
Piping	Abandoned Pipe	Parging Cement	Fitting		C	Y	5	(7)		EA	V 0010	Confirmed Asbestos	Friable
Piping	Domestic Water (Hot & Cold)	Parging Cement	Fitting		C	Y	15	(7)		EA	V 0010	Confirmed Asbestos	Friable
Piping	Low Pressure Steam	Parging Cement	Fitting		C	Y	20	(7)		EA	S 0008	Confirmed Asbestos	Friable
Piping	City Water/Service Water	Parging Cement	Fitting		C	N	4	(7)		EA	V 0010	Confirmed Asbestos	Friable
Piping	Hot Water Heating	Parging Cement	Fitting		C	Y	30	(7)		EA	S 0010	Confirmed Asbestos	Friable
Piping	Chilled Water System	Parging Cement	Fitting		C	Y	23	(7)		EA	S 0009	Confirmed Asbestos	Friable
Piping	High Pressure Steam	Parging Cement	Fitting		C	Y	14	(7)		EA	S 0008	Confirmed Asbestos	Friable
Mechanical Equipment	Condensate Return	Parging Cement			B	Y	5	(7)		SF	V 0008	Confirmed Asbestos	Friable
Building #:	Building Name:	Surveyor:	Survey Date:										
BIO	Biology	Ralph Verbeek	2012-08-15										
Location #:	Location Name:	Floor:	Square Feet:	Room #:									
2	Electrical	SBSMT	500	M02									
System	Component	Material	Item	Covering	Access	Visible	Condition	Qty & Action	Units	Sample	Hazard	Friability	
Piping	Sanitary Drain	Parging Cement	Fitting		C	Y	1	(7)		EA	V 0010	Confirmed Asbestos	Friable
Building #:	Building Name:	Surveyor:	Survey Date:										
BIO	Biology	Ralph Verbeek	2012-08-15										
Location #:	Location Name:	Floor:	Square Feet:	Room #:									
6	Storage	SBSMT	40	J02									
System	Component	Material	Item	Covering	Access	Visible	Condition	Qty & Action	Units	Sample	Hazard	Friability	
Piping	Hot Water Heating	Parging Cement	Fitting		C	N	3	(7)		EA	V 0010	Confirmed Asbestos	Friable
Building #:	Building Name:	Surveyor:	Survey Date:										
BIO	Biology	Ralph Verbeek	2012-08-15										
Location #:	Location Name:	Floor:	Square Feet:	Room #:									
7	Hallway	SBSMT	50										
System	Component	Material	Item	Covering	Access	Visible	Condition	Qty & Action	Units	Sample	Hazard	Friability	
Piping	Hot Water Heating	Parging Cement	Fitting		C	N	3	(7)		EA	V 0010	Confirmed Asbestos	Friable
Building #:	Building Name:	Surveyor:	Survey Date:										
BIO	Biology	Ralph Verbeek	2012-08-15										
Location #:	Location Name:	Floor:	Square Feet:	Room #:									
10	Stairwell	BSMT	110										
System	Component	Material	Item	Covering	Access	Visible	Condition	Qty & Action	Units	Sample	Hazard	Friability	
Structure		Overspray			C	N	100	(7)		%	V 0011	Confirmed Asbestos	Friable
Structure	Beam	Cementitious Fireproofing			C	N	125	(7)		SF	S 0011	Confirmed Asbestos	Friable
Piping	Hot Water Heating	Parging Cement	Fitting		D	N	3	(7)		EA	V 0010	Confirmed Asbestos	Friable

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Action Report

Asbestos-containing materials or debris that are present in FAIR or POOR (or damaged) condition are highlighted separately in this report. This allows the Owner to easily access the information regarding the areas of damaged ACM that requires either removal or repair to remain in compliance.

HMIS Online: Action Report for Action 1, 2, 3, 4, 5 - Fair Only, 6 - Windows Internet Explorer

https://www.hmis-online.com/reports/report_output.php?lgd=no&nar=no&obs=no&stds=no&format=html&id=report20130124094457

Client: University of Windsor Date: 24/01/13 09:31:57
 Site: UoWV HMIS Assessments 2012 EST
 Building Name: Biology User: unwindsor
 Building #: BIO

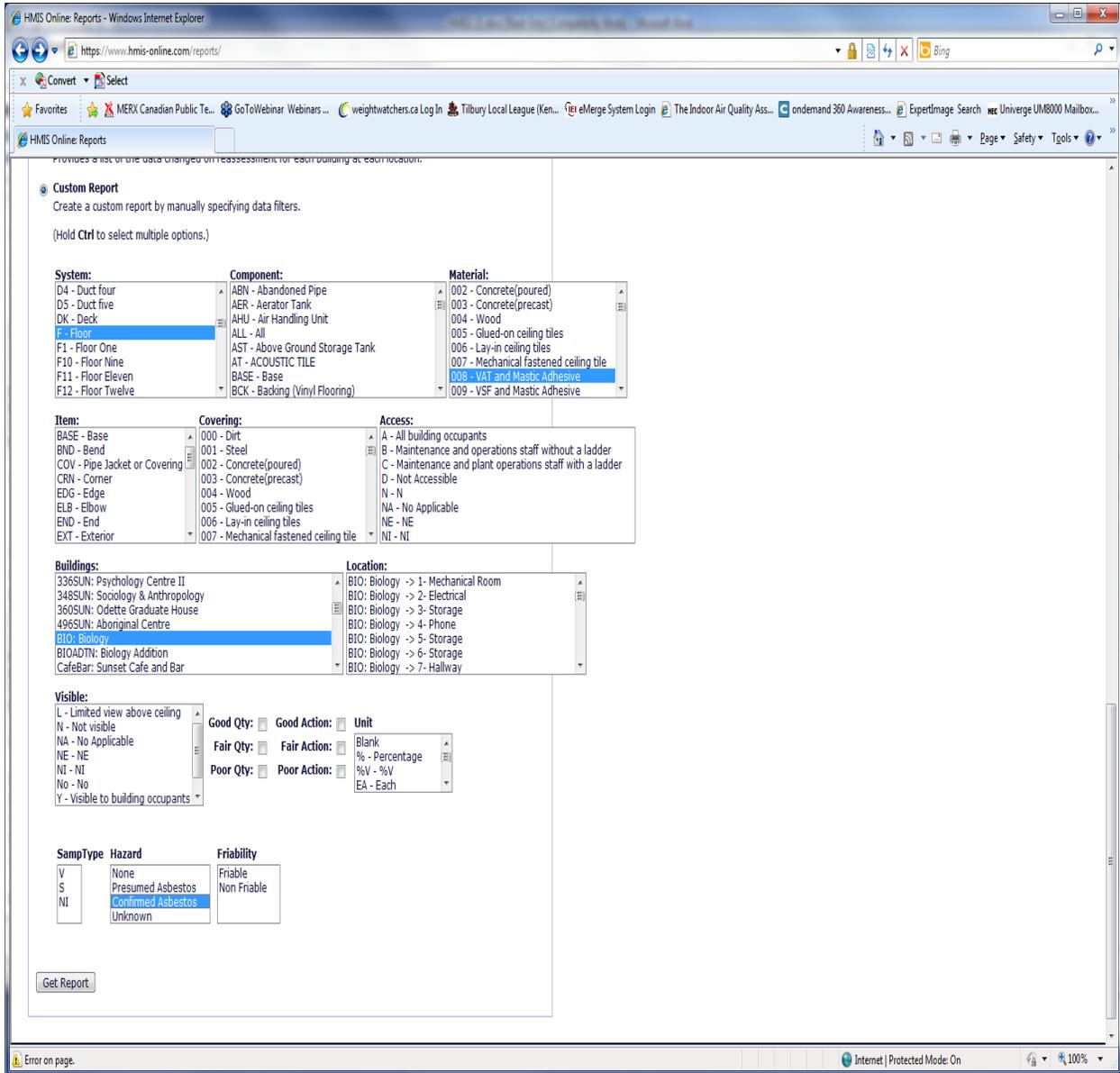
Action Report for Action 1, 2, 3, 4, 5 - Fair Only, 6: [Print] [Close]

Building #:	Building Name:	Surveyor:	Survey Date:											
BIO	Biology	Ralph Verbeek	2012-08-15											
Location #:	Location Name:	Floor:	Square Feet:											
10	Stairwell	BSMT	110											
Room #:														
System	Component	Material	Item	Covering	Access	Visible	Condition Qty & Action			Units	Sample	Hazard	Friability	
							Good	Fair	Poor					
Other	Debris	Cementitious Fireproofing			C	N			15	(2)	SF	V 0011	Confirmed Asbestos	Friable
Building #:	Building Name:	Surveyor:	Survey Date:											
BIO	Biology	Ralph Verbeek	2012-08-15											
Location #:	Location Name:	Floor:	Square Feet:											
11	Lab	BSMT	400											
Room #:														
System	Component	Material	Item	Covering	Access	Visible	Condition Qty & Action			Units	Sample	Hazard	Friability	
							Good	Fair	Poor					
Piping	Domestic Water (Hot & Cold)	Parging Cement		Fitting		C	N		4	(4)	EA	V 0020	Confirmed Asbestos	Friable
Other	Debris	Cementitious Fireproofing				C	N		15	(2)	SF	V 0011	Confirmed Asbestos	Friable
Building #:	Building Name:	Surveyor:	Survey Date:											
BIO	Biology	Ralph Verbeek	2012-08-15											
Location #:	Location Name:	Floor:	Square Feet:											
12	Office	BSMT	130											
Room #:														
System	Component	Material	Item	Covering	Access	Visible	Condition Qty & Action			Units	Sample	Hazard	Friability	
							Good	Fair	Poor					
Other	Debris	Cementitious Fireproofing			C	N			15	(2)	SF	V 0011	Confirmed Asbestos	Friable
Building #:	Building Name:	Surveyor:	Survey Date:											
BIO	Biology	Ralph Verbeek	2012-08-15											
Location #:	Location Name:	Floor:	Square Feet:											
15	Prep Room	BSMT	190											
Room #:														
System	Component	Material	Item	Covering	Access	Visible	Condition Qty & Action			Units	Sample	Hazard	Friability	
							Good	Fair	Poor					
Other	Debris	Cementitious Fireproofing			C	N			15	(2)	SF	V 0011	Confirmed Asbestos	Friable
Building #:	Building Name:	Surveyor:	Survey Date:											
BIO	Biology	Ralph Verbeek	2012-08-15											
Location #:	Location Name:	Floor:	Square Feet:											
16	Mens Washroom	BSMT	75											
Room #:														
System	Component	Material	Item	Covering	Access	Visible	Condition Qty & Action			Units	Sample	Hazard	Friability	
							Good	Fair	Poor					
Other	Debris	Cementitious Fireproofing			C	N			15	(2)	SF	V 0011	Confirmed Asbestos	Friable
Building #:	Building Name:	Surveyor:	Survey Date:											
BIO	Biology	Ralph Verbeek	2012-08-15											
Location #:	Location Name:	Floor:	Square Feet:											
19	Lab	BSMT	600											
Room #:														
System	Component	Material	Item	Covering	Access	Visible	Condition Qty & Action			Units	Sample	Hazard	Friability	
							Good	Fair	Poor					
Piping	Domestic Water (Hot & Cold)	Parging Cement		Fitting		A	N		4	(5)	EA	V 0020	Confirmed Asbestos	Friable
Other	Debris	Cementitious Fireproofing				C	N		15	(2)	SF	V 0011	Confirmed Asbestos	Friable
Building #:	Building Name:	Surveyor:	Survey Date:											
BIO	Biology	Ralph Verbeek	2012-08-15											
Location #:	Location Name:	Floor:	Square Feet:											
21	Centrifuge	BSMT	50											
Room #:														
System	Component	Material	Item	Covering	Access	Visible	Condition Qty & Action			Units	Sample	Hazard	Friability	
							Good	Fair	Poor					

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Custom Reports

Custom Reports allow you to create reports based on your own criterion. You will need to select your building from the list near the bottom of the page and then customize the items you want included in your report (example below for confirmed asbestos-containing vinyl floor tiles in the Biology Building).



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Interpreting an HMIS Report

SAMPLE HMIS DATA REPORT

Asbestos Only Report

Client: 27456
 Project: Building Number(s): 250
 Building Name(s):

Building #: 250 Building Name: Mill Building Compressor Room Surveyor: Bryan Guindon Survey Date: 01/12/2005
 Location #: 177 Location Name: Mill Building Compressor Room Floor: 1 Room #: N/A

Observ. #	System	Component	Material	Item	Covering	Access	Visible	Condition, Quantity & Action			Units	Sample	Hazard	Friability
								Good	Fair	Poor				
4197	Piping three	Cooling Water	Parging Cement	Fitting	Canvas	C	Y	60	(7)		EA	V0084	Asbestos	Friable
4194	Piping one	Steam Supply	Parging Cement	Fitting	Canvas	A	Y	100	(5) 10 (5)		EA	V0084	Asbestos	Friable
4193	Piping one	Steam Supply	Magnesia block	Straight	Canvas	A	Y	80	(5) 6 (3)	LF	S0083	Asbestos	Friable	

Note: Building Name: Slurry Mills (22)

Building #: 250 Building Name: Mill Building Compressor Room Surveyor: Bryan Guindon Survey Date: 01/12/2005
 Location #: 178 Location Name: Mill Building Compressor Room Floor: MEZZ Room #: N/A

Observ. #	System	Component	Material	Item	Covering	Access	Visible	Condition, Quantity & Action			Units	Sample	Hazard	Friability
								Good	Fair	Poor				
4210	Piping one	Hot Water Heating	Aircell	Straight	Canvas	A	Y	50	(5) 2 (5)	%	V0081	Asbestos	Friable	

Legend:

Action	Access	Condition	Sample Number
(1) No calculated action	A All building occupants	Good No visible damage or exposed material	S#### Sample collected
(1) Immediate clean-up of debris or damaged ACM likely to be disturbed	B Maintenance and operations staff without a ladder	Fair Repairable damage with minor amounts of exposed material	V#### Material is visually identified to be identical to S####
(3) ACM removal required	C Maintenance and operations staff with a ladder	Poor Irreparable damage with exposed and missing material	V0000 Material is visually identified to contain no asbestos
(5) Proactive ACM removal	D Not accessible	NOTE: Sprayed material are only rated as Good or Poor.	V9000 Material is visually identified to contain asbestos
(7) Management program and surveillance	(8) Suspect Material		V9500 Material is suspected to contain asbestos
(9) Action not currently assigned	(7) Unknown / Unable to Calculate		Note: Vinyl tiles, vinyl sheet flooring, drywall, plaster and textured finish (coal) are considered suspect materials if not sampled.

Units SF - Square feet LF - Linear feet EA - Each % - Percentage

Page 57 of 81 Quantities shown above are based on visual approximations only and may be subject to variation. Copyright © Pinchin Environmental Ltd. 1992-2005 Date: 18/11/05 09:30:48

1. **Location number** assigned for this room/area by the Pinchin surveyor during data collection.
2. Records the type of building **system** found during the assessment and is broken down into Ceiling, Floor, Wall, Pipe, Duct, Mechanical, Structure or Other.
3. Describes the part or **component** of the system.
4. Describes the **material** of which the component is made.
5. The **item** of the system or component. Applies when a system or component can be broken down into more specific items (e.g. pipe *fitting*).

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6. A material which **covers or jackets** the component material described (if applicable).
7. The **accessibility** describes the accessibility of the Component Item. Accessibility will be described as follows:
 - A – Accessible to all building occupants
 - B – Accessible to building maintenance or service staff only
 - C – Accessible to building maintenance or service staff only using a ladder or scaffold
 - D – Accessible only by removing a fixed barrier or with demolition of building finishes.
8. The **visibility** of the system, component or item, and whether the component is visible within the room. Components that are not visible include those above ceilings, within chases, under other finishes, etc. Refer to the Legend at the bottom of the page.
9. The **quantity** of the material present is under the **condition(s)** the material is in. This can describe varying quantities in varying conditions, in good, fair or poor. The **action** generated by the condition is listed adjacent in bold and bracketed.
10. The **units** used for the quantities. Can be EA for Each, SF for Square feet, LF for Linear Feet or % for Percentage.
11. **Sample number.** The letter indicates the sample type for any sample. An “S” indicates that this location is the source for the material sample. A “V” indicates that the material has been visually identified to be the same as a sample collected from another location or visually identified. The number indicates the sample number assigned in the field. An Assumed Material (V9500) is a material that could not be sampled and should be suspected as containing asbestos until sampled.
12. The **hazard** column describes if the material contains asbestos, contains no asbestos, or is assumed to contain asbestos but could not be sampled.
13. The **friability** of the material (Discussed Earlier).
14. **Legend.**