

National Collaborating Centre for Environmental Health

Centre de collaboration nationale en santé environnementale

# NCCEH Mould Investigation Toolkit Sample Checklists and Forms

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*This document is one of several in the NCCEH Mould Investigation Toolkit.* Production of this document has been made possible through a financial contribution from the Public Health Agency of Canada.

### Introduction

The following questionnaire, checklists, and forms, are intended to assist in the activities of a mould/microbial assessment and should be modified to match the objectives and context of the investigation:

- 1. Collection of background information on occupants
  - a. Indoor Air Quality Questionnaire
- 2. Non-intrusive and intrusive walkthrough inspections of suspect building and areas
  - a. Microbial and Moisture Building Checklist
  - b. Microbial and Moisture Visual Inspection Form\*
  - c. Microbial and Moisture Assessment Form\*
- 3. Sampling of air or materials for microbial analysis
  - a. Microbial Bulk Sampling Form
  - b. Microbial Air Monitoring Record Sheet
  - c. Indoor Air Quality Spot Measurement Record Sheet

\*Instructions on using the forms can be found on page 17-19.

To contribute to a community of practice, we invite you to submit tools and guidance documents to share via the NCCEH network or website; please e-mail <u>contact@ncceh.ca</u> with a link to the tool or document.

### Indoor Air Quality Questionnaire

The following questionnaire may be adapted to different types of occupants (e.g., tenants, students, workers). Questionnaires that are clear and easily understandable can provide timely information but rely on cooperation from occupants. Interviews require trained personnel for consitency but can supplement questionnaires with in-depth information that can help validate complaints or health issues related to air.

Consider collecting information on recurring respiratory symptoms or infections, annual or temporal patterns in complaints or health issues, activities which coincide with health issues, and history of building conditions which exacerbate health issues (e.g., mould, pests, inadequate ventilation, chemicals).

Physician input might be necessary to review results and interpret if health issues from occupants are related to contaminants in indoor air or the suspect building/area. Individual questionnaires are scanned and those that indicate health issues with potential links to the suspect building/area are grouped to determine where and when they occur and if other personal factors may contribute to the health issues. Electronic databases are recommended, especially when managing large numbers of questionnaires.

### Indoor Air Quality Questionnaire

Some individuals working in your building have identified air quality and health-related concerns. To help investigate the possible causes of these concerns and the success of any remediation actions taken, this questionnaire is being distributed to all building occupants. Your assistance is requested. Please complete this questionnaire as accurately as possible and return it to the individual listed below in a sealed envelope by the date indicated. All information provided in this questionnaire is confidential; only summary information will be used in any indoor air quality reports generated.

Return Completed Questionnaires To:

Return Completed Questionnaire By:\_\_\_\_\_

 Please select from the list provided below all of the descriptions that currently apply to your work environment and physical health. This is a random list of potential issues; not all of the issues listed have been noted in this building. Please indicate in the final row any additional issues you have that are not listed above. If you have health concerns relating to these symptoms, we recommend that you contact your physician.

Aching Joints	Dusty	Runny Nose				
Back Pain	Drafty	Sinus Congestion				
Chest Tightness	Dry Eyes	Skin Irritation/Itching				
Shoulder Pain	Eye Irritation	Sneezing				
Fatigue/Drowsiness	Dizziness	Sore throat				
Discoloured Skin	Headache	Stuffy/Stale Air				
Dry, Flaking Skin	Nausea	Temperature Too Cold				
D Noisy	Noticeable Odours	Temperature Too Hot				
Others (Specify):						
2. Please indicate when you first no	ted your symptoms.					
□ <3 months ago □ 3-6 month	s ago 🛛 🖸 7-12 months ago 🗖	>12 months ago				
3. Please indicate any noticeable trends you have observed with regards to your complaints.						
Symptoms occur more prevalently in	the:					
Morning     Aft	ernoon 🛛 Evening					

Symptoms are more prevalent at the:

□ Beginning of the Week □ Middle of the Week □ End of the Week

- 4. Please indicate any other trends you have noted in the space provided below. Please indicate if no noticeable trends have been observed.
- 5. Please describe in the space provided below if/when you experience relief from the issues you indicated on the previous page. If you experience relief, please indicate what relieves the issues.
- 6. Please indicate in the space provided below if you have any of the following:

Hay Fever or Pollen Allergies	Cold/Flu	Other Allergies
Skin Allergies/Dermatitis	Sinus Problems	Asthma

7. Please indicate "yes" or "no" to the following questions:

Do you currently smoke?	Yes	□No	Have you ever smoked?	□No
Do you work with chemicals?	🛛 Yes	□No	Do you sit beside a window?  Yes	□No
Do you work near someone else who uses chemicals?	🛛 Yes	□No	Do you work near any office <b>U</b> Yes equipment?	□No

If you answered yes to either of the questions concerning chemicals, please indicate what chemicals you work with or near in the space provided below.

8. Please indicate in the space provided below where your workstation is located and where in the suite you feel the air quality is not satisfactory.

Location of your workstation:

Areas in the suite where the air quality is not satisfactory:

Please provide in the space provided below any additional comments or observations regarding the quality of air in your suite.

Name (Optional):Da	ate:
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#### **Microbial and Moisture Building Inspection Checklist**

Site Name / Descriptor:	
Address:	Environmental Conditions at Time of Inspection:
	Temperature:
	Relative Humidity:
Contact Name:	Wind Speed:
Building Type (e.g., strata, condo, rental, etc.)	Wind Direction:
Contact Information:	General Synopsis (e.g., sunny, cloudy, etc.)
Inspector Name:	
Date:	

Prior to completing this form, obtain and discuss the following information with the building owner, building manager, or building occupants and review it:

- Age, historical and current use of building.
- Information on general building design and construction.
- Building plans and drawings Review copies of available floor plans, mechanical plans (ventilation system) and plumbing plans.
- The building leak history (if applicable) A chronological timeline of water intrusion events, including information on known or suspected sources, locations in building, and duration of leaks or wet conditions.
- The chronology of corrective action (if applicable) A timeline of corrective measures taken following each water instrusion / microbial growth event including information on the specific corrective action taken, how soon the corrective action was taken and any follow up conducted to confirm corrective actions were effective.
- Occupant complaints and health status A summary of occupant concerns/complaints and the general summary of the type of occupants and their health status (e.g., children, elderly, adults, persons with compromised immune systems, individuals with respiratory conditions, etc.)
- Investigative Reports Reports on historical/recent investigations of water intrusion and or microbial growth assessments, building envelope assessments, or ventilation system performance reports conducted. Quantitative assessment results should be included in the review (e.g., sampling or monitoring results).

This information, where available, can be used to help the inspector to determine where to concentrate or focus his or her attention during the physical inspection of the building. The questions in the form below are generic in nature. Specific questions may not be relevant based on the results of the document review and discussions with building owners, managers, or occupants prior to the inspection.

**Observations** of water intrusion or moisture, suspect visible microbial growth, and possible sources or contributors of water or moisture intrusion and suspect visible growth made in the inspection report **should be accompanied by**:

- Photographs It is essential to capture the visual observations of suspect areas. This may include an overview photograph, midrange photograph, and close-up photograph.
- Quantitative measurements Surface moisture (moisture meters), temperature, and relative humidity measurements (hygrometers) are essential, but may also include bulk, tape, swab or air sampling results.
- Drawings It is helpful to indicate the locations of observations made and where samples and measurements were collected.

Δ	Outside of Building	Issue		Actio	on*	Additional Commonts / Dotails
~	Gatside of Building	Yes	No	Required	Taken	Additional Comments / Details
A1	Fresh Air Intakes					
1	How many fresh air inlets are there for the building and where are they located?					
2	Are any intakes located near sources of potential microbial contamination? (e.g., near cooling towers, vegetation, sewage treatment plant, significant bird droppings near intakes, garbage, recycling or composting areas, etc.)					
3	Are there any signs of blockage to the fresh air inlets? (e.g., snow, leaves, debris, etc.)					
A2	General Exterior of Building					
4	How much vegetation is in proximity to the building?					
5	Is there any evidence of animals or birds, or their droppings in the vicinity of the building, particularly near air intakes? If so, describe.					
6	Is there any evidence of water staining or suspect visible microbial growth near the air intakes? If so, where and to what extent?					
7	Is there any evidence of efflorescence (white mineral deposits) on the concrete masonry of the building?					
8	Are there cracks in the brick / concrete slabs / masonry of the building? Is there mortar missing?					
9	Is there a noticeable negative soil grade (sloping) towards the building location?					
10	Is there standing water outside the building or near the building?					
11	Is the building equipped with rain gutters? Are the gutters free of debris, and do they direct water away from the building?					
12	Is there a water re-use system (e.g., rain water collection systems, rain barrels)?					
13	Is there any evidence of suspect visible microbial growth on the exterior building surfaces (e.g., discolouration, staining)? If so, where and to what extent?					
14	What is the condition of the exterior of the building (e.g., are there cracks in the stucco, is the paint peeling, is the wood siding warped, etc.)?					
15	Is there any evidence of dry rot, or wood stain fungi? If so, where?					

16	Are there any sprinklers located near building walls or is there a leaking hose bib? If so please describe.					
A3	Entrances					
17	Are building entrances located near sources of potential microbial contamination (e.g., stagnant water, drainage, downspouts)?					
18	Can an inward flow of air be sensed at entrances (e.g., is the door difficult to close)?					
A4	Air Outlets					
19	How many air outlets are there in the building?					
20	Are there any exhaust outlets located within 2 m of the fresh air inlets?					
21	Do any of the air exhaust outlets face in the direction of the fresh air inlets?					
А5	Roof Specify roof material (clay, gravel, slate, asphalt, etc.), type (sloped or flat) and any additions or interfaces between roofs					
22	Is there evidence of current or historical standing water or plant growth on the roof? Is the slope adequate?					
23	Is there evidence of cracks or deterioration in roofing materials that might result in water intrusion into the building (e.g., visible cracks in caulking or seams, holes in roofs)? If so describe.					
24	Is there significant deterioration of roofing membrane or is there moss growth that might hide damage to roofing membrane? If so, describe.					
25	Are there any signs of deterioration of the roofing materials or membranes at the interfaces between different roofs, or areas of the roof (e.g., additions)? If so, describe.					
В	Inside Building	lss	ue	Actio	on*	Additional Comments / Details
-		Yes	No	Required	Taken	
B1	Mechanical Room	_			1	
26	Is there a musty or earthy odour in the mechanical room?					
27	Is there any evidence of water (current or historical) on the floor?					
28	Is there evidence of wet spots or water damage on the walls or ceiling? If so, where?					

29	Is there any suspect visible microbial growth on the walls or floors or ceiling? If so, where and to what extent?			
30	Is there evidence of paint peeling on the walls, floors, or ceiling? If so, where and to what extent? (Peeling paint may indicate that surfaces have become wet or have been wet in the past.)			
31	Is there ventilation? What type? Is it operable?			
B2	Interior Spaces (e.g., offices, hallways, classrooms, crawl spaces) (Photocopy and repeat questions 32-49 for each individual space assessed.) Description of Space:			
32	Is there a musty or earthy odour in the space? If so, describe and determine source if possible (e.g., from garage or compost, from water damaged materials, etc.)			
33	Does the space feel warm and dry or damp? (If the space feels damp, arrange for the relative humidity inside the space to be assessed.)			
34	Is there any evidence of standing water or water staining (current or historical) on the floor or flooring materials? Is the floor warped? If so, describe.			
35	Is there evidence of wet spots, water damage or condensation on the walls or ceilings (e.g., stained ceiling tiles)? If so, where?			
36	Is there any evidence of condensation or leaks from piping located in ceiling plenums? If so, please describe. Have drip trays been installed? If so, are they adequately sloped to prevent stagnant water accumulation?			
37	Is there any water staining in the vicinity of the windows or window sills? If so, what type (e.g., single or double paned) and where? (Water staining near windows and window sills sometimes can indicate that there is a leak around the window or indicate a condensation problem. Check for water leaks and condensation on windows and window sills on cold days.)			
38	Is there any visible or suspect microbial growth on the walls, floors, ceilings, above ceilings, around plumbed fixtures, or lines (e.g., washing machines, sprinkler lines, sinks, ice machines)? If so, where and to what extent?			

39	Is there evidence of paint or drywall tape peeling on the walls, floors, or ceiling? Is there peeling vinyl wall paper? If so, where and to what extent? (Peeling paint or drywall tape may indicate that surfaces have become wet or have been wet in the past. Vinyl wall paper on indoor surfaces of exterior walls in air- conditioned spaces in hot/humid climates can trap moisture and result in mould growth.)			
40	Is there any evidence of condensation on the windows, between window panes or on window sills? If so, where and to what extent? (Condensation on windows or window sills is sometimes an indicator of elevated relative humidity, possibly due to a lack of ventilation. Have relative humidity levels measured and sources of moisture in space.)			
41	Does the space seem to have adequate air supply? (Note whether the space seems stuffy or hot, cool or drafty. Check the locations of the air supply and return air grills and confirm they are operational and have not been blocked or obstructed. Discuss with building maintenance the HVAC system settings. Monitor temperature, relative humidity, and carbon dioxide concentrations in air if concerned about adequacy of ventilation to space.)			
42	Are there any houseplants located inside the space? If so, how many and where are they located? What is the condition of the flooring/shelving material under the plant containers?			
43	Are there any water features inside the space (e.g., aquarium, water fall / water feature)? If so, describe.			
44	Are there dryers or exhaust vents inside the space? If so, describe. Are they vented to the outside?			
45	Is there evidence of animals or insects, or their by-products (e.g., fecal droppings) inside the space (e.g., domestic pets, rodents, bats, insects)? If so, describe.			
46	Are dehumidifiers or humidifiers used inside the space? If so, please indicate where and describe make(s) and model(s) used.			
47	Are air purifiers used inside the space? If so, please indicate where and describe type of purifier.			
48	Does the space look clean and well maintained? If not, please describe.			
49	Note general occupancy density and type of work conducted inside office space.			
B3	Kitchen (Please answer the following questions in addition to those in Section B2)			
50	Are there crevices between the refrigerators, counters, or walls where food or water could accumulate?			

51	Is there any evidence of water leaks or condensation under the sink or near the dishwasher associated with plumbing lines? If so, describe.			
52	Does the kitchen look clean and well maintained (e.g., is there food left on the plates in sink, food overflowing in garbage, refrigerator dirty, floors dirty, etc.)?			
53	Are large quantities of food being cooked routinely in the space where there is the potential for evaporation of liquids? Is there an operating exhaust fan over the stove and is it utilized? If so, describe.			
54	Is there a produce food storage room or cellar? If so, describe.			
55	Is there a fridge or freezer inside the kitchen? Is there any evidence of water leakage due to defrosting?			
B4	Bathrooms / Change Rooms (Please answer the following questions in addition to those in Section B2)			
56	Is there an exhaust fan in the bathroom? If so, where is it located and does it appear to be operational?			
57	Does the bathroom and/or change room look clean and well maintained (e.g., mildew showers, toilets/sinks have not been cleaned, floors dirty, etc.)?			
58	Is there any evidence of water leakage, staining, condensation, or suspect visible microbial growth around the toilets (check backside and underside of water tanks), showers, sinks, and plumbing lines? If so, detail where and extent.			
59	Is there a floor drain in the bathroom, and is the floor sloped to allow for drainage of any water spilled on the floor?			
60	Is there a sauna, steam bath, or whirlpool in the bathroom and/or change room?			
61	Is there any evidence of delamination of finishing materials on walls or floors (e.g., delaminating tiles from walls)? If so, describe. Is there adequate grout/caulking between finishing materials, and what is the condition of the grout/caulking?			
B5	Parking Area (Complete questions 62-66 if there is indoor parking attached to the space.)			
62	Is there any visible evidence of standing water or moisture on the walls, ceiling, and floors of the parking lot? Are there drains present? If so, where and to what extent? (Check for sumps or manholes inside the parking lot that may contain standing water or be plugged.)			
63	Is there any suspect visible microbial growth on the walls, floors, or ceiling? If so, where and to what extent?			

64	Is there evidence of paint peeling on the walls, floors, or ceiling? If so, where and to what extent? (Peeling paint may indicate that surfaces have become wet or have been wet in the past.)					
65	Is there any evidence of suspect visible microbial growth in the parking area? If so, where and to what extent?					
66	Can airflow from the parking area or garage be entrained into the building via doorways or the air supply? Are there any odours?					
С	Building Mechanical System	lss	Issue		on*	Additional Comments / Details
•		Yes	No	Required	Taken	
67	Is there a written preventative maintenance system in place for the building ventilation system? Does it include provisions for preventing: 1) entrainment of microbial contaminants, 2) minimizing potential microbial growth in the mechanical system, and 3) providing adequately conditioned air to all spaces inside the building?					
68	Do the air filters on the air intake units appear to need cleaning? How often are they cleaned or replaced? Are there records to track filter maintenance?					
69	Is there any evidence of water stains or standing water under the pumps, evaporative coolers, cooling coils, or in the condensate pans? Is there any evidence of rust on coils or drain pans? If so, describe. (If present, have the water source cleaned up and the source determined.)					
70	Is there a chemical water treatment program in place to prevent growth of microbial contaminants in cooling waters? If so, describe. Obtain previous water monitoring results if available.					
71	Is there a foul or musty odour in the mechanical room or around the air conditioning units? If so, describe.					
72	Are the ventilation system, duct work, or mixing chambers clean? If not, describe.					

#### Additional Notes / Observations / Comments

#### **References:**

- 1. Yang CS, Heinsohn PA. Sampling and analysis of indoor microorganisms [Chapter 2]. New York, NY: Wiley; 2007, pp. 17-29. Available from: <u>http://ca.wiley.com/WileyCDA/WileyTitle/productCd-0471730939.html</u>.
- Public Works Canada, National Research Council Canada. Managing indoor air quality, a manual for property managers, Annex 7.2. Ottawa, ON: Public Works Canada and the National Research Council Canada; 1992. Available from: <u>http://www.worldcat.org/title/managing-indoor-air-quality-a-manual-for-property-managers/oclc/244313018?referer=br&ht=edition</u>.
- 3. Canadian Construction Association. Mould guidelines for the Canadian construction industry. Standard Construction Document CCA 82-2004, Appendix A. Ottawa, ON: CCA; 2004. Available from: <u>http://www.cca-acc.com/documents/cca82/cca82.pdf</u>.

#### **Microbial and Moisture Visual Inspection Form**

Client Name: Site Location / Facility: Department / Area:	-					Date: Inspector: Reference No.		
Functional Area (Room No. or Describe)	Visible Microbial Area (m <sup>2</sup> )	Water Damage Area (m <sup>2</sup> )	Surface or Component	Moisture (Dry, Wet, Damp or % Moisture Content)	Temp. (°C)	Relative Humidity (%)	Odour (Describe)	Comment

#### Legend:

Microbial / Water Damage Area: Small (<1 m<sup>2</sup>), Medium (1 – 10 m<sup>2</sup>), Large (>10 m<sup>2</sup>) Surface: <u>Ceiling, Wall, Window, Floor, H</u>VAC, <u>Pipe, Contents</u> HVAC: <u>Central, Univent, Perimeter, R</u>adiator, <u>Window, Other</u> (Specify) Odour: Example: <u>N</u>one, <u>Slight, Strong</u>. Add description of type of odour.

□ Full □ New

#### Microbial and Moisture Assessment Form

(Complete one form per room / area)

Complaint Follow Up

Client Name:											Inon	ootor	Nor	20:		
											Insp			ie.		
											insp	ectio	n Dai	te:		
Site Address:																
Building Name:																
- Floor Number:											Roo	om Ni	umbe	er:		
- Description of Room / Area Location	Across fro	m.				N	ext to	ŀ						In	side of <sup>.</sup>	Near
Type of Room (e.g. office):							0,11,10	•						-		
Type of Room (e.g., onice).																
Odour: When you first walk into an area or room, note any microbial or moisture-related odours in the field below. Check the appropriate box.																
None	Mild			Mo	odera	ate					Str	rong				
Description of Odour:																
Source of Odour:																Source Unknown
Check (⊠) first column if component		Check (🖾)		Jama Sta	ige or ins	r	Visible SMG			Wet or Damp			пр	Row Total	Nataa	
is in room.		found	0 1 2 3		3	0 1 2 3			0 1 2 3		Value	Notes				
			, ,		_	–	-		_	ļ		· _	-	, , , , , , , , , , , , , , , , , , ,		"[Click to enter Text bere]"
U Walls																"[Click to enter Text here]"
Floors																"[Click to enter Text here]"
U Windows																"[Click to enter Text here]"
Furniture																"[Click to enter Text here]"
HVAC System																"[Click to enter Text here]"
Supplies and Materials																"[Click to enter Text here]"
Other:																"[Click to enter Text here]"
Other:																"[Click to enter Text here]"
Other:																"[Click to enter Text here]"
Total Room and Column Score														•		"[Click to enter Text here]"

Score: 0 – None; 1 – The size of this form or smaller; 2 – Between the size of this form and the size of a standard interior door; 3 – Equal to or larger than the size of an interior door SMG – Suspect Microbial Growth

This form was adapted from the National Institute of Occupational Safety and Health (NIOSH), NIOSH Dampness and Mould Form for Schools.

### **Instructions for Using the Forms**

This form is intended to be used in conjunction with the *Microbial and Moisture Visual Inspection Form* and constitutes one part of the assessment, identification, repair and remediation cycle. The purpose of this form is to identify and document areas with moisture or water intrusion and suspect visible microbial growth in buildings and to track and monitor previously identified problem areas to determine if mitigative measures implemented have successfully resolved the problems identified. This form was adapted from the National Institute of Occupational Safety and Health (NIOSH), *NIOSH Dampness and Mold Form for Schools.* 

Step 1: Conduct an inspection of the building or area using the *Microbial and Moisture Visual Inspection Form*. For rooms or areas where moisture or water instrusion, suspect microbial growth, and/or odours are identified, this *Microbial and Moisture Assessment Form* should be used to record more details about the specifics for each room.

Step 2: Conduct further inspection of the areas or rooms to confirm the presence of microbial growth and to identify the source of water intrusion or moisture problems identified and perform necessary repairs and remediation as required in accordance with acceptable procedures.

Step 3: Reassess problem areas that have been remediated at regular intervals to confirm that the source of moisture or water has been solved and that microbial growth is not reoccuring. This *Microbial and Moisture Assessment Form* can be used for these reassessments.

To complete this form:

- 1. Indicate if the inspection is part of a full assessment of a building ('full') or is being conducted in response to a specific complaint ('complaint').
- 2. Indicate if this is a new inspection ('new') or a follow up on a previous inspection ("follow-up").
- 3. Complete the information in the first two tables on the form indicating the information about the client, site, inspector, date, and specific information about the room(s) or area(s) being inspected. If a room number is available, this can be used to describe the area being inspected. If the room or area does not have a unique identifier, enter "N.Av." under room number and complete the row below.
- 4. Upon entering the room or area, document any noticeable microbial or moisture like odours. If there is an odour present, rate the intensity of the odour, the description of the odour (what does it smell like), and indicate the possible source(s) of the odour if possible.
- 5. Check each surface or content present in the room being assessed that is present in the column on the left in the last table. Add any additional surfaces or contents present in the room to be included in the assessment under the "Other" rows (e.g., office decor, equipment).
- 6. For each component identified in the room, rate on a scale of 0 3 (see definitions below table), the presence of water stains or water damage, visible suspect microbial growth, and level of wetness or dampness based on the size of the area affected only. The scoring should be based on the size of the affected area alone and not on the density or darkness of staining or suspect microbial growth. If standing water is observed, the "Wet or Damp" score should be rated as a 3 with a note in the comment section. Additional comments can be provided in

the notes column. Photographs should be used to supplement notes on water stained or damaged, visible suspect microbial growth and wet or damp materials or surfaces.

- 7. If you do not find any water stains or water damage, visible suspect microbial growth, or wet or damp materials, check column two to indicate nothing was found. This step should be confirmed with a moisture meter.
- 8. Upon completion of the inspection:
  - a. Add up the score in each row and enter the value in the "Row Total Value" column.
  - b. Add up the scores for each column (Damage or Stains, Visible SMG, and Wet or Damp) and enter it in the "Total Room and Column Score" cells.
  - c. Add up the values in the "Row Total Value" and enter into the shaded cell at the bottom of the table. Add up the values in the "Total Room and Column Score" column and confirm that the value is the same as the "Row Total Value."

The total score for the inspection can be used to determine which rooms or areas require follow up inspection or remediation, and can be used to help prioritize which rooms or areas should be addressed first. Rooms or areas with a higher total score or with a higher visible suspect microbial growth should be given a higher priority for follow up investigation and remediation than those with lower scores.

🗌 Full 🛛 New

#### Filled-out Example: Microbial and Moisture Assessment Form

(Complete one form per room / area)

Complaint D Follow Up

Client	Name:		Mr. Happy,	Restaurant Ow	ner								Inspector Name:					Public Inspector Number 1	
Site N	lame / Description:		Happy Day	Restaurant									Inspection Date: March 6, 2014						
Site A	ddress:		Burnaby, B	С															
Buildi	ng Name:		Happy Day	Restaurant															
Floor	Number:		First Floor										Roc	om Ni	umbe	er:		N.Av.	
Descr	iption of Room / Area Location	:	Across fro	om:				N	ext to	):		the	Kitch	nen		In	side of:	Near:	
Туре	of Room (e.g. office, etc.):		Dining Roo	m															
Odou	r: When you first walk into an	area / r	room, note any	microbial / mo	isture	relat	ed od	lours	in the	e field	l belo	w. C	heck	the a	appro	priate	e box.		
	□ None	$\boxtimes$	Mild			M	odera	ite					Str	rong					
Descr	iption of Odour:		Musty, dam	p smelling															
Sourc	e of Odour:		Wet building	g materials in N	E Coi	mer o	of Dini	ing R	oom,	near	ceili	ng.						Source Unknown	
				Check(🖂)	Damage or			r	Visible SMG			6	Wet or Damp			q	Bow Total		
is in r	room		if nothing			Sta	iins									Value		Notes	
				tound	0	1	2	3	0	1	2	3	0	1	2	3			
	Ceiling						$\boxtimes$			$\boxtimes$					$\boxtimes$		5	Several ceiling tiles wet, possible suspect microbial growth. See photo 1 and 2	
	Walls						$\boxtimes$		$\boxtimes$						$\boxtimes$		4	Water staining down walls visible. See photo 3	
	Floors			$\boxtimes$															
$\boxtimes$	Windows			$\boxtimes$															
	Furniture			$\boxtimes$															
	HVAC System				$\boxtimes$				$\boxtimes$				$\boxtimes$				0	Not accessible to inspect.	
	Supplies and Materials																		
$\boxtimes$	Other: Restaurant Décor																		
	Other:																		
Total Column and Room Score			9	Total					1				4				9	Recent evidence of water intrusion and the start of possible microbial growth on wet materials.	

Score: 0 – None; 1 – The size of this form or smaller; 2 – Between the size of this form and the size of a standard interior door; 3 – Equal to or larger than the size of an interior door SMG – Suspect Microbial Growth

This form was adapted from the National Institute of Occupational Safety and Health (NIOSH), NIOSH Dampness and Mould Form for Schools

November 2014

National Collaborating Centre for Environmental Health

# Microbial Bulk Sampling Form

Client Name:	Date:
Site Location / Facility:	Inspector:
Department / Area:	Reference No.

Sample Number	Туре	Photo	Description
e.g., 051613-B1	e.g., Fibreglass insulation	e.g., 1	e.g., Discoloured fibreglass

# Microbial Air Monitoring Record Sheet

Client Name:							Reference No.									
Site Locati	on / Facilit	y:					Department / Area:									
Temperat	ture at Sit	e℃	Relative Hum	idity	<u>%</u> Weat	ther:	Inside $\Box$ Outside $\Box$ Rain $\Box$ Wind $\Box$ Sun $\Box$									
			Pu	Imp Calibrati	ion		Sampling Tin	ne	Valuma	Type of Sample						
No.	No.	Date	Initial (LPM)	Final (LPM)	Avg. (LPM)	On	Off	Duration (min)	(Litre)	Contaminant	Occupational/ Personal/Area	Type of tube/filter				
Sample I	Descripti	on / Task Observat	ions													
Sampled	by:						Notes:									
Date:																
Lab Nam	e:															
Date Sub	mitted															
						·										

## Indoor Air Quality Spot Measurement Record Sheet

Client Name:	Reference No.	
Facility:	Date:	
Department / Area:	Inspector:	
Instrument Make:	Calibration Date:	
Instrument Model:		

	Monitoring Information					Results (Avg. And Range)					
Sample No.	Sample Location	Sample Time	Sample Duration (min)	Datalog Session No.	Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Relative Humidity (%)	Temperature (°C)			
Notes											