



Department of Civil Engineering  
University of New Brunswick

## Laboratory Safety Information [Soils Lab – A-6]

Hours of Operation: 7:45 AM – 4:00 PM Mon to Fri (Summer)  
8:15 AM – 4:30 PM Mon to Fri (Fall/Winter)

Contacts	Name	Phone	Email
Technician	Chris Forbes	452-6114	cforbes@unb.ca
Faculty Member	Dr. Hany Naggar	453-5168	hany.elnaggar@unb.ca

Use of this laboratory is restricted to authorized personnel only.  
Restrictions apply to the use of equipment in this area  
Check with the Chief Technician for training & authorization.

### Personal Protective Equipment

- CSA Approved Safety Footwear must be worn.
- Other protective equipment may be required to conduct certain activities. When in doubt consult a Technician.

### Specific Rules And Hazards Associated With This Lab Include:

#### Restrictions on the operation of equipment

- Training and authorization is required for the use of *all* equipment.
- Only certified personnel may use the nuclear densometer.

#### Working Alone or in Isolation

- Permission is required to work alone, in isolation or after hours.

#### Capacity

- Normal Occupancy during teaching labs is less than 35 students.

#### Housekeeping/Storage of Materials

- Always keep work areas clean and tidy.
- Place tools and equipment in proper place after use.
- Ensure all tripping and slipping hazards are removed.
- Keep all pathways and means of exit free of obstruction.
- Assure electric wires do not cross high traffic areas.

This is only a partial list. It is **YOUR RESPONSIBILITY** to know and follow the rules for the safe operation of this laboratory.

For more information go to

[www.unb.ca/fredericton/engineering/depts/civil/safety](http://www.unb.ca/fredericton/engineering/depts/civil/safety)



## Laboratory Safety Information [Soils Lab – A-6]

### Rules Associated with this Laboratory Include:

<b>Equipment</b>
<ul style="list-style-type: none"> <li>• Please refer to Standard Operating Procedures for information regarding the safe use of and appropriate PPE for all equipment.</li> <li>• Appropriate PPE must be worn while using equipment.</li> <li>• CSA approved steel-toed boots must be worn at all times.</li> <li>• All users must be authorized by the Chief Technician and be trained in the safe use of all equipment and/or tools before using them.</li> </ul>
<b>Nuclear Densometer</b>
<ul style="list-style-type: none"> <li>• Only trained technicians are permitted to operate the nuclear densometer.</li> </ul>
<b>Ovens</b>
<ul style="list-style-type: none"> <li>• Gloves are to be worn when using the oven.</li> </ul>
<b>Hot Plates</b>
<ul style="list-style-type: none"> <li>• Gloves and safety glasses are to be worn when using hot plates.</li> </ul>
<b>Small Direct Shear Apparatus and Consolidometers</b>
<ul style="list-style-type: none"> <li>• Work gloves are to be used when placing weights on the apparatus.</li> </ul>
<b>Large Direct Shear Apparatus and Large Consolidometer</b>
<ul style="list-style-type: none"> <li>• Training is required prior to the use of the large direct shear apparatus.</li> </ul>
<b>Training</b>
<ul style="list-style-type: none"> <li>• Training in safe operating procedures is required for all equipment.</li> <li>• Training logs are to be kept for all personnel working in the lab.</li> <li>• Current graduate students and teaching assistants must attend a department safety training session annually.</li> </ul>
<b>Working alone, in isolation or after hours</b>
<ul style="list-style-type: none"> <li>• You must read and follow the Civil Department policy on working alone or in isolation.</li> <li>• Work that is dangerous in nature must not be done after hours or when alone.</li> <li>• You must receive explicit permission to in this lab outside of normal lab hours</li> <li>• If permission is granted to work after hours, there must always be two or more students working in the same area. In other words, students must use the “buddy” system.</li> </ul>



Department of Civil Engineering  
University of New Brunswick

## Laboratory Safety Information [Soils Lab – A-6]

### Means of egress

- Keep all pathways free of obstruction.
- Ensure that you are aware of exits and able to leave in an orderly fashion.

### Research set ups

- All research set ups shall have a “Research in Progress” sign. The sign must include the name and contact information of researcher and the researcher’s supervisor as well as any pertinent information regarding safety.

### Samples

- All samples must be clearly marked.
- Markings must identify the project to which they belong and the date on which they were created.

### Materials storage and handling

- All WHMIS controlled products must be handled according to WHMIS regulations.
- All waste materials must be stored in the designated area.

### Lifting

- Working in this laboratory may require you to move or lift heavy items. Be sure to follow appropriate lifting techniques. Ask for assistance if you need it.

### Review

- A review of these safety rules is to be conducted annually.