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NATIONAL RESEARCH COUNCIL OF CANADA

DIVISION OF BUILDING RESEARCH

TECHNICAL REPORT NUMBER 1

DIRECTORY OF  
COMMERCIAL TESTING LABORATORIES IN CANADA

COMPILED BY E. V. GIBBONS

ANALYZED

OTTAWA  
NOVEMBER, 1948

PRICE, 25 CENTS

N.R.C. NO. 1832

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Note on Testing Work by Universities

Copy of application form to National Research Council  
for Standardization, test, investigation, or other service.

## FOREWORD

The Division of Building Research of the National Research Council receives many requests relating to the testing of building materials. The Council does not make tests for private individuals or industrial companies if commercial or other laboratories have facilities available for the work proposed. As a matter of convenience, this Directory has, therefore, been prepared so that those requiring such test work may consult the list of all the testing laboratories in Canada known to be in a position to undertake this type of work.

The Directory is modelled after that published for the United States Department of Commerce by the National Bureau of Standards (Miscellaneous Publication M 187, August 30, 1947). Laboratories of consulting chemists, engineers and metallurgists, research laboratories of manufacturing companies and other industrial research laboratories have been listed only when definite information has been received to the effect that they are engaged in commodity testing on a commercial basis.

When commercial laboratories are not available or are unable to conduct some specialised test, the National Research Council can usually arrange to undertake the work. The conditions under which the Council carries out such test work are stated in detail on the printed form of application which must be used in this connection. A copy of this form, therefore, accompanies this Directory. Since the Engineering Divisions of most of the Canadian universities are also in a position to carry out such special investigations, a note with regard to them is also included.

There are thirty-one commercial testing laboratories listed in this Directory. They have been grouped alphabetically and geographically. Some indication is given of the types of commodities and the nature of the tests which they are prepared to undertake. A draft of the Directory was submitted to each testing laboratory listed, for approval. If any errors or omissions still exist, it will be appreciated if they are brought to our attention for correction. Criticisms and suggestions are invited in order that future editions of this Directory may be kept complete, accurate and up-to-date.

Robert F. Legget  
Director  
Division of Building Research

Ottawa, Canada,  
November 15th, 1948.

COMMERCIAL LABORATORIES

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Name & Address	Nature of Tests & Commodities
<p>Industrial Testing Laboratories, 850 West Hastings Street, Vancouver, B.C.</p> <p>A. W. Satterfield - Owner</p>	<p>Chemical analysis and physical testing of building materials. Chemical analysis of miscellaneous chemical products.</p>
<p>MacDonald and MacDonald Ltd., 718 Granville Street, Vancouver, B.C.</p> <p>(Mrs.) B. Keating - Secretary-Treasurer</p>	<p>Inspection and testing of materials for construction. Chemical, metallurgical and physical testing of miscellaneous industrial products.</p>
<p>W. G. Thomson and Company, 1155 West Pender Street, Vancouver, B.C.</p> <p>W. G. Thomson - President.</p>	<p>Chemical and metallurgical testing and process development. Ventilation engineering, building inspection, construction and design. Pulp mill and rockwork development.</p>
<p>E. W. Widdowson and Company, 301-305 Josephine Street, P. O. Box 610, Nelson, B.C.</p> <p>E. W. Widdowson - Consulting Chemical Engineer</p> <p>C. E. Crossley - Chemist</p>	<p>Assayers. Chemical and metallurgical analysis of alloys, ores, rock, minerals, fuels, beverages, masonry material and miscellaneous chemical products.</p>

MANITOBA

Name and Address	Nature of Tests and Commodities
Milton Hersey Company Limited, 233 Fort Street, Winnipeg, Manitoba.  Ernest Nyman - Manager	Inspection and testing of building materials, paving and road construction, oils and fats, feeds, waters, steel, alloys, bronze and white metals, paints, sugars and allied products required of a general laboratory.

B. Guy Hunt Company, 153 Grain Exchange, Winnipeg, Manitoba.	Analytical, Industrial and Consulting Chemists. Analysis of packing house products, iron and steel, grain and grain products, fertilizer, oils and fuels.
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National Testing Laboratories Limited, 233 James Avenue, Winnipeg, Manitoba.  J. Sill - President	Inspection and testing of building materials and construction projects, petroleum engineering, sewage engineering control. Chemical, physical, metallurgical, microscopical and bacteriological examination of miscellaneous materials.
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NEW BRUNSWICK

No commercial testing laboratories have been reported.

NOVA SCOTIA

Name and Address	Nature of Tests and Commodities
H. R. Wyman, 19 Kaye Street, Halifax, Nova Scotia.	General chemical analysis, physical and mechanical testing of miscellaneous industrial products and building materials. Inspection and testing of construction projects.
H. R. Wyman - Owner	

ONTARIO

J. N. W. Bell Laboratories, Haileybury, Ontario.	Custom assayers and analysts - rocks, minerals, metals, mill solutions and fuels.
J. N. W. Bell - Owner	
J. H. White - Chief Chemist	

Canadian Inspection and Testing Co. Ltd. 600 Sherbourne Street, Toronto 5, Ontario.	Inspection and testing of materials of construction and railway supplies. Soil mechanics, stress and strain tests, chemical and physical testing of practically all industrial commodities.
R. R. Deane - Vice-President & General Manager	
R. W. Hurlbert - Engineer of Tests	
J. E. Clark - Chief Chemist	Gamma ray radiography, microscopic examination of metals, photomicrographs.
Hamilton Laboratory - 55 McNabb St., Hamilton.	
Montreal Laboratory - 704 Shaughnessy Building, McGill Street, Montreal.	



Name and address	Nature of Tests and Commodities
<p>Galt Testing Laboratory, 149 Main Street, Galt, Ontario.</p> <p>A. Graham - Owner</p>	<p>Metallurgical, engineering and chemistry.</p> <p>Microscopical, chemical, metallographic, metallurgical, physical, mechanical and X-ray examinations on miscellaneous metals, alloys, foundry supplies and fuels.</p>
<p>Thos. Heys and Sons, Room 77-79, Yonge Street Arcade, Toronto, Ontario.</p>	<p>Custom assayers and analysts.</p>
<p>Mr. Boris Monsaroff, 83 Hillcrest Avenue, Hamilton, Ontario.</p> <p>B. Monsaroff - Owner</p>	<p>Consulting chemical engineer, research and development work on paints, varnishes, plastics and industrial coatings, Chemical engineering design and layout.</p>
<p>Service Laboratories Ltd., 424 Wellington Street West, Toronto, Ontario.</p> <p>C. W. Ewing - President</p>	<p>Appearance, optical and microscopic, bacteriological, biological, chemical and toxicological for foods, drugs, cosmetics, agricultural chemicals and soils, textiles, fibres, dyestuffs, oils and soaps.</p>
<p>Temiskaming Testing Laboratories, Cobalt, Ontario.</p>	<p>Sampling and general assaying of ores. Chemical analysis.</p>
<p>(Owned and operated by the Ontario Government) Arthur A. Cole - Manager</p>	

Name and Address	Nature of Tests and Commodities
Toronto Testing Laboratory Limited, 73 Adelaide Street West, Toronto, Ontario.	Metallurgical, assaying, consulting, and general commercial analytical work. Chemical and metallurgical.
Branch: Sioux Lookout, Ont. E. R. Bolton - Chief Chemist	

Charles Warnock and Co. Ltd., Harbour Commission Building, Toronto, Ontario.	Expediting and inspection - mecha- nical, electrical, structural, pressure vessels and tanks. Concrete mix designs, testing of asphalt and soils, load tests. Field inspection of construction projects.
S. E. Goodwin - General Manager	

Lister Building,  
Hamilton, Ontario.

Associate Laboratory:  
G. S. Eldridge Limited,  
Hornby Street,  
Vancouver, B.C.

Zeidler-Bennett Limited, 32 Mary Street, Toronto 5, Ontario.	Testing and development work on various industrial products. Appearance-optical and microscop- ical, bacteriological, chemical and toxicological examinations on miscellaneous materials.
Dr. F. Zeidler - President	

#### PRINCE EDWARD ISLAND

No commercial testing facilities have been reported.

QUEBEC

Name and Address	Nature of Tests and Commodities
Canadian Inspection & Testing Company Limited, 704 Shaughnessy Building, McGill Street, Montreal, Quebec.	Inspection and testing of materials of construction and railway supplies. Soil mechanics, stress and strain tests, chemical and physical testing of practically all industrial com- modities. Gamma ray radiography, microscopic examination of metals, photo- micrographs.
Donald Inspection Ltd., 1181 Guy Street, Montreal, Quebec.	Inspection and testing of construc- tion, materials, railway supplies and general inspection.
J. R. Macauley - Vice-President	
J. T. Donald and Co. Ltd., 1181 Guy Street, Montreal, Quebec.	Consulting chemists, chemical engineers, analysts and assayers.
A. E. Ross - General Manager	
Industrial and Commercial Laboratories Limited, 1449 Crescent Street, Montreal, Quebec.	Inspection and testing of road and building construction, and materials. Chemical and physical
Claude Cartier - Secretary	



Name and Address	Nature of Tests and Commodities
Laboratoire de Materiaux de Quebec, 13 d'Aiguillon, Quebec City, Quebec.	Inspection and testing of soils, commercial building, public works and materials. Chemical, physical and mechanical.
Guillaume Piette - Associate Owner	

Milton Hersey Company, Ltd., 980 St. Antoine, Montreal, Quebec.	Inspection and testing building materials, paving and road constructing, oils and fats, feeds, waters, steel, alloys, bronze and white metals, paints, sugars and allied products re- quired of a general laboratory.
Charles Hazen - Manager	

Charles Warnock Company, Ltd., 485 McGill Street, Montreal, Quebec.	Expediting, shop and field inspection for construction projects. Inspection and test- ing of castings, forgings, rolled steel materials, timber, creosoting and rubber. Pressure tests, explosimeter tests, load tests, concrete mix designs, testing of asphalts and soils.
Laboratories in Toronto, Hamilton, Calgary and Vancouver.	
J. M. Fairbairn - Vice- President	

SASKATCHEWAN

Name and Address	Nature of Tests and Commodities
Andrews and Cruickshanks, 304 Sterling Trust Building, Regina, Saskatchewan.  W. Cruickshank - Chief Chemist	Brewery control-malt, yeast and water analysis. Fuels, food, drugs and allied products examined as required.
Gower Laboratories, 12 Westman Chambers, Regina, Saskatchewan.  G. C. Gower - Owner	Process investigation and deve- lopment work on hydrocarbons and vegetable oils. Chemical and physical examinations made on miscellaneous materials.

## NOTE ON TESTING WORK AT CANADIAN UNIVERSITIES

The laboratories of the Departments of Civil and Mechanical Engineering of the universities of Canada are usually equipped, for teaching purposes, with testing equipment suitable for carrying out many of the tests required in connection with building materials. Although the universities themselves do not, in general, carry out such test work, it is sometimes possible to make arrangements with individual members of the university staffs for the conduct of special tests or investigations which cannot be carried out by commercial laboratories for one reason or another. In thus correlating their work with that of commercial testing laboratories, the universities follow a similar practice to that of the National Research Council.

Since the details of practice vary from one university to another, it is suggested that those interested in enquiring about university testing facilities should in all cases consult the Dean of Engineering or some similar officer of the appropriate university. As a matter of convenience, the following is a list of the universities and colleges which are known to have available testing equipment suitable for the testing of building materials.

Nova Scotia Technical College, Halifax, Nova Scotia.  
(Professor Spencer Ball).

University of New Brunswick, Fredericton, New Brunswick.  
(Dean E. O. Turner).

Ecole Polytechnique, Montreal, Quebec.  
(Dean Ignace Brouillet).

McGill University, Montreal, Quebec.  
(Professor R. E. Jamieson).

Queen's University, Kingston, Ontario.  
(Dean D. S. Ellis).

University of Toronto, Toronto 5, Ontario.  
(Professors E. A. Allcut and T. R. Loudon).

University of Manitoba, Winnipeg, Manitoba.  
(Professor A. E. MacDonald).

University of Saskatchewan, Saskatoon, Saskatchewan.  
(Dean R. A. Spencer).

University of Alberta, Edmonton, Alberta.  
(Dean R. M. Hardy).

University of British Columbia, Vancouver, B.C.  
(Dean J. N. Finlayson).

APPLICATION  
TO THE  
NATIONAL RESEARCH COUNCIL  
OTTAWA, CANADA

FOR STANDARDIZATION, TEST, INVESTIGATION, OR OTHER SERVICE

On behalf of .....

(name of organization, firm or individual)

of .....

(address)

..... application is hereby made

to have the following work undertaken (give here concise outline of service desired, referring, where possible, to item number in Schedule of Fees).

The results of the work requested are required for the following purposes:

Does the applicant own, or control, the rights to the equipment or material, etc., covered by this application?..... If not, explain the interest of the applicant in this matter:  
(Yes or no)

It is hereby understood and agreed that this work is to be undertaken at the cost of the applicant on the terms and conditions set forth on the back of this application.

Date .....

Signature of applicant .....

(When application is made on behalf of an organization or firm  
state the position held by the signing officer)

## CONDITIONS UNDER WHICH STANDARDIZATION, TEST WORK, ETC., MAY BE UNDERTAKEN

1. The Council does not in general undertake contractual testing of materials, i.e., testing of materials for the purpose of ascertaining whether their quality and behaviour are in accordance with the requirements of contracts. To this rule are the following exceptions. Contractual tests of materials may be undertaken
  - (i) When they are required by any Government Department.
  - (ii) When they cannot be carried out adequately, if at all, in any other Canadian establishment.
2. The Council does not accept any responsibility for secrecy in respect of an unpatented instrument or article. The onus rests on the submitter to take all necessary steps for the protection of an invention before submitting it to the Council for expression of opinion or test.
3. Apparatus or material which is submitted to the Council is accepted only at the risk of the applicant as regards damage or loss, while in the laboratories, or during transportation.
4. Any apparatus or material sent to the Council for test shall upon delivery become the property of the Council. Upon final payment, within a reasonable time after request by the Council therefor, of all test fees or other charges for work done thereon, such apparatus or material will be returned to the person by whom it was sent, subject to the provisions of clause three of these conditions, and the property therein shall thereupon re-vest in such person.
5. The applicant is responsible that products submitted to the Council for test are in such proper condition that the staff and equipment of the Council will not be exposed to undue hazard.
6. The Council reserves the right to decline to undertake or carry out any test or other service.
7. Fees listed are for tests, etc., in which apparatus or material is submitted in condition for test. If shop work is required to prepare the apparatus or material for test, or for making special fittings, etc., an additional charge covering such work will be made, on the basis given in (9). Applicants, if in doubt, should inquire as to sizes of test samples, details of attachments, etc.
8. When a specific fee is not listed in the Schedule of Fees and an estimate of cost of the work is furnished, it is understood that this is an estimate only and not binding on the Council.
9. For shop work required in repairs, modifications, etc., of instruments or apparatus submitted for test, the charges shall be on the basis of cost of labour and material, plus a percentage to cover the cost of administration, etc.
10. Transportation charges, customs charges, etc., on all apparatus or material sent to the Council for test, are to be paid by the applicant. Unless otherwise instructed, the Council will decide whether a product is of sufficient value to justify its return and will choose the means of transportation. The product will be packed at the expense of the applicant and returned, transportation charges collect. No responsibility will be accepted by the Council for transportation rates.
11. An applicant for test of apparatus or material from a foreign country should make his own arrangements for clearance through the Canadian Customs; otherwise, it will be necessary for the Council to make a charge for carrying out this work on behalf of the applicant.
12. In general unless otherwise agreed in writing in advance, fees covering tests, etc., must be paid in full before the covering report is issued. When a test is to be observed by a representative of the applicant, fees must be paid in full in advance. Such persons are admitted to the laboratories in the capacity of observers only and at their own risk.
- 12(a). In the case of tests, etc., extending over a period of more than one month, progress accounts may at the discretion of the Council be rendered monthly and continuance of the work will be dependent upon prompt payment of such accounts.
13. One copy only of a report or certificate is normally supplied. If requested at time application is submitted, a second copy may be supplied, in certain cases, without extra charge.
14. All fees for standardization, test work, etc., undertaken by the Council, are subject to change without notice.
15. The name of the Council must not be used in advertising unless and until the details and form of the proposed advertisement have been approved and permission has been given in writing by the Council.
16. In general work will not be undertaken until written application has been made on the form provided. The testing of Electrical and Gas Meters is subject to these regulations and particulars will be furnished on request as to the forms and information required to comply with the Electricity and Gas Inspection Acts.
17. If, during the progress of investigations, standardization work or tests undertaken by the Council at the behest of individuals or Companies, discoveries are made which are patentable, the patent rights will vest in the Council in the absence of a special agreement to the contrary between the Council and the individual or Company concerned.