

## Experts

### Prime Consultant

#### URS Canada Inc.

URS is one of the largest engineering design firms worldwide providing a comprehensive range of professional and planning design services. URS expertise covers rehabilitation, expansion and development of new highways, expressways, urban freeways, complex interchanges, toll roads, bridges and tunnels. URS Canada, a subsidiary of URS, is a leader in environmental assessment and design of major transportation projects in Ontario. The firm plans and designs some of the busiest and largest highways, roads and transit lines in Ontario. URS Canada leads multidisciplinary teams and works with all stakeholders to provide comprehensive consulting services for the movement of people and goods, including environmental assessment, planning, design and construction administration projects.

### Specialist Consultants

#### Golder Associates

Golder has provided specialist geotechnical services for large infrastructure projects throughout Canada and worldwide for more than 45 years. This work has included hundreds of tunnel projects including the bored St. Clair River railway tunnel, the largest bored soft-ground tunnel in North America at the time, cut and cover and bored tunnels for transit services in Amsterdam, Atlanta, Edmonton, London (UK), New York City, Seattle, San Diego, Seoul, Toronto, Vancouver, Washington DC, among others. Highway tunnel work has included alpine tunnels in Europe and in the North American Rocky mountains, and soft ground tunnels throughout North America. Golder was the primary geotechnical consultant on large bridge projects such as the Confederation Bridge (PEI) and the Alex Fraser Bridge (BC), two of the largest bridges in Canada, and has provided consulting services for MTO bridge rehabilitation and new construction projects throughout Golder's history. With a depth of resources including over 5,000 employees, specialists with direct experience in the most challenging projects can provide assistance to new work anywhere in the world. Our Windsor office, in business for 40 years, also provides an unmatched depth of local geotechnical knowledge.

#### SENES Consultants Limited

##### *Air*

SENES has completed hundreds of projects over the past 25 years that have provided a broad scope of services related to the atmospheric environment and the management of air resources. These include the design and undertaking of air quality and odour monitoring programs; the assessment of impacts on air quality either on or by proposed projects including stationary and mobile sources; the preparation, analysis and management of emission inventories; air licence and permit applications; abatement technologies and associated costs; the application, development and verification of computer models that simulate contaminant behaviour in the atmosphere; and advice and expert testimony on a wide range of air quality matters.

##### *Social Impact Assessment*

SENES has been in the forefront in the development of Environmental Assessment and Social Impact Assessment over the past 25 plus years. SENES provides a broad scope of services with those related to social impact assessment including the design and undertaking of social and economic studies; development of appropriate data collection tools; public attitude surveys; facilitation of consultation; conflict resolution; analysis and evaluation of impacts; and advice and expert testimony.

##### *Noise*

SENES has a broad base of experience in noise monitoring, noise modelling, the development and

interpretation of noise regulations and criteria, and the assessment of noise impacts in both occupational and environmental settings. Over the past twenty years, the firm has completed noise monitoring and assessment studies for a wide range of projects including transportation corridors, industrial facilities, recreational facilities and residential developments.

### **Stantec**

Stantec, founded in 1954, provides professional design and consulting services in planning, engineering, architecture, surveying, economics and project management. Their services are offered through over 6,500 employees operating out of more than 100 locations in North America. For more than two decades, Stantec has been a leader in the specialty area of land border crossings. Stantec provides a full range of services at these crossings including planning, survey, environmental, design, travel and revenue forecasting, and traffic operations. Stantec has expertise in the design of plazas, approach roads, and inspection and toll facilities. Some or all of these services have been provided to many of the busiest border crossings between Canada and the United States, for both Canadian and U.S. governments and international bridge operators.

### **RWDI**

RWDI AIR is a leading environmental and engineering consultancy which has worked closely with many different sectors for nearly 30 years to meet their air quality and noise modeling, measurement, mitigation and regulatory compliance needs. One of its many areas of specialization is transportation studies, which includes air quality, ventilation, noise, vibration and snowdrifting assessments. RWDI's air quality and ventilation services in particular, are key for tunnel projects. RWDI experts have many years of practical experience, and know the importance of working closely with the design team at all stages of the project. Expertise is provided on a broad range of air quality and ventilation issues, and their specific means of improvement. This covers literally all aspects - from the review and evaluation stage, to the design and specification of ventilation and exhaust gas handling systems, through to the equipment start-up and performance verification.

### **Archaeological Services Inc.**

In the past 25 years, ASI has undertaken well over 3,500 projects throughout Ontario, for clients in both the public and private sectors, gaining a reputation for excellence in heritage consulting. Our staff has the professional depth of expertise and experience to deal with any heritage resource, ranging from relatively recent Euro-Canadian settlement to the earliest Native occupations.

### **Hemson Consulting**

Since 1983, Hemson has been assisting public and private organizations in areas of public policy, municipal finance, land use and development planning, real estate, demographics, and urban economics. Hemson has been involved in a wide range of transportation-related assignments in Ontario, focusing primarily on economic, fiscal and social impacts, land use implications, as well as the economic effects of proposed transportation initiatives on municipalities and their local business sector.

### **IBI Group**

IBI Group's transportation practice provides industry-leading expertise in the areas of transportation planning, travel demand forecasting, goods movement and traffic engineering. The firm brings extensive experience in the analysis and assessment of major transportation infrastructure projects relating to both passenger and freight modes throughout North America and abroad.

**LGL Limited**

LGL Limited, founded in 1971, is one of the leading ecological research and consulting firms in North America. LGL has provided natural sciences, environmental planning and environmental inspection expertise on several hundred transportation projects including highways, roads and rapid transit facilities.

**PMA Landscape Architects Ltd.**

PMA Landscape Architects Ltd. was founded in 1982 and is currently located in downtown Toronto. The majority of PMA's work consists of design and planning projects primarily in southern Ontario in the areas of highway design, parks and open space planning, environmental design, urban design, waterfront planning, sport and recreation planning, commercial, and institutional development, and high, medium and low density residential projects. PMA has earned numerous awards from its professional associations and has earned a reputation as a creative design firm with professional integrity, and technical knowledge.