



Environmental Infrastructure



“We always work in a **spirit of collaboration** with our clients to get the job done **efficiently** and **successfully** to the **benefit** of all.”

Our **Corporate Numbers**

Founded in
1955

100%

Employee Owned

Projects Completed in

78

Countries

80%

Business from Repeat Clients

100%

Canadian Owned



Providing **Environmental Expertise**

since

1955

Our Expertise

Our Environmental Infrastructure team is focused on finding solutions for your **water treatment, storage and distribution, wastewater conveyance and treatment, and solid waste management** needs. Our team can tackle studies, investigations, Class Environmental Assessments, Master Plans, tender documents, construction contract administration services, and conceptual, preliminary, and detailed design.

Who We Are

J.L. Richards is an employee-owned, Canadian company that provides multidisciplinary **engineering, architecture, planning, and project management** services. Founded in Ottawa in 1955, we now have multiple offices across Ontario.

Our firm has completed a wide variety of **water, wastewater, and solid waste** management infrastructure projects in a variety of communities across Canada, each with their unique needs and distinct design challenges.

Our Environmental Infrastructure Market is well-equipped to undertake a variety of projects from studies, Class Environmental Assessments (EA) and Master Plans, water treatment plant and wastewater plant designs, and solid waste infrastructure designs.

For your next project, you can rely on our **award-winning, multidisciplinary team** to provide professional services and customized design solutions that meet all of your expectations.



Our Approach

In our experience, no two projects have ever been the same. Our clients have different needs, goals, available funding, sites, and facilities. While we are skilled at applying our experience from an array of prior projects, we know that **customized solutions and designs** are what is ultimately required.

Our approach to every project centres on working collaboratively with you, listening closely to your specific needs, taking the time to understand your facilities, and providing options that are the right fit for you.

Results That Resonate

The diversity of the projects we complete, and the methods we use to complete them successfully, are what set JLR apart. **We understand that how we deliver our services is just as important as the final product.**

We strive to keep our clients well informed throughout the entire project delivery process, listening to you, your staff, and your operators about their specific problems, understanding the nuances of your facilities, and applying value engineering and quality assurance on a daily basis. We strive to see a project through with the same enthusiasm and effort from start to finish.

- 1. Town of Renfrew Water Treatment Plant – Renfrew, ON
- 2. Serpent River Water Treatment Plant – Serpent River First Nation, ON
- 3. Trail Road Waste Facility – Ottawa, ON
- 4. Nanticoke Water Treatment Plant – Haldimand County, ON
- 5. Cataraqui Bay Wastewater Treatment Plant – Kingston, ON

Cover: Ravensview Wastewater Treatment Plant – Kingston, ON



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Water

The treatment, storage, and distribution of safe potable water in sufficient quantities is an essential need for all Canadian communities. Water is also an essential need for many key industries, which often must adhere to quality-specific requirements for production purposes.

Our team has extensive experience in the planning and design of infrastructure to provide new and expanded **groundwater** and **surface water** supply systems. We have leveraged a multitude of treatment technologies to overcome specific on-site conditions, constraints, and prescribed requirements.

When we make design decisions, we are always mindful of long-term operational and maintenance costs. We also support our clients in the assessment, design, and construction of their new and existing distribution and storage infrastructure.

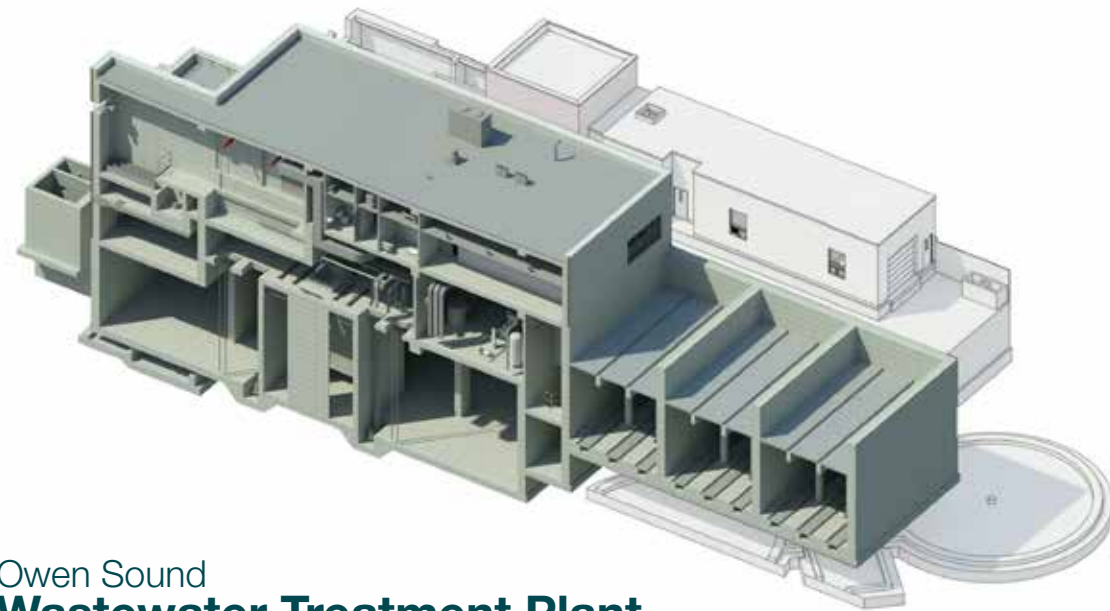
Our team
is there for
our clients



Wastewater



Designing systems to be successful & sustainable



Owen Sound Wastewater Treatment Plant

Longitudinal section of the Biological Aerated Filtration and Operations Centre

The provision of communal wastewater collection and treatment, along with the protection of our waterways, groundwater resources, and natural environment, is not only an essential need but a legislated requirement for all communities throughout Canada. Often, industries must also construct and maintain **wastewater management and treatment** facilities in order to protect the environment and meet prescribed legislation.

Whether what is needed is a complex mechanical treatment plant or a lagoon-based treatment system, the JLR team has developed the expertise to provide a **wide range of solutions** for communities and industries of varying size.

The need to consistently and reliably convey and treat a community's wastewater requires ongoing attention by those responsible for providing this service. **JLR will work with you** to complete Class EAs and Master Plans to help plan for the future and address more immediate needs.

We firmly believe it is critical that **all possible solutions** be given consideration, as this infrastructure is often relied upon for many decades. We also have the expertise to assist you in developing a **phased approach to achieve better affordability**.

1. Owen Sound Wastewater Treatment Plant – Owen Sound, ON
2. Ravensview Wastewater Treatment Plant – Kingston, ON
3. Cornwall Wastewater Treatment Plant – Cornwall, ON
4. Pembroke Wastewater Treatment Plant – Pembroke, ON
5. Village of Casselman Wastewater Pump Station – Casselman, ON



1

Solid Waste

The ongoing need to manage a community's solid waste has become increasingly challenging. The cost of managing this waste, combined with dwindling numbers of licensed waste disposal sites, is forcing us to reassess how we think about our solid waste and seek ways to treat it as a resource.

We are skilled at designing infrastructure for **traditional waste management** facilities, such as **waste disposal sites** and **transfer stations**, and also have the expertise to design **resource recovery** facilities.

Material recovery facilities, **construction and demolition recovery** facilities, **source separated organics processing** facilities, and **soil remediation** facilities are just a selection of successful projects that we've delivered.

Our in-house multidisciplinary team can capitalize on our **diverse experience** to provide you with project solutions that suit your approach to solid waste.



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1. Trail Road Waste Facility – Ottawa, ON
2. Trail Road Waste Facility – Ottawa, ON
3. Trail Road Waste Facility – Ottawa, ON
4. Navan Road Landfill Maintenance Facility – Ottawa, ON
5. Laurentian Valley Waste Recovery Centre – Township of Laurentian Valley, ON
6. Township of Beckwith Waste Transfer Facility Scale House – Beckwith, ON
7. Township of Russell Waste Transfer Station – Russell, ON



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Innovation & Technology



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Let us search for solutions that suit you **best**

We do not shy away from innovative solutions and outside-the-box thinking when we are looking for cost effective long-term solutions for our clients. We keep our finger on the pulse of **industry innovations** and work with engaged experts to constantly keep our team apprised of **new advancements** that can benefit our clients.

Our in-house team of engineers, architects, planners, and technologists are always looking for different ways to explain our ideas and deliver our design packages. We understand the need to present information in a **transparent** and **accessible** manner, for our clients, for the public, and for concerned regulatory agencies.

We also work with contractors and operations companies to support **varied project delivery models** including P3, design-build, construction management, integrated project delivery, and more.

Our team is well-versed in the **latest technological tools**, such as BIM, 3D modelling, GIS development, water supply modelling, wastewater and sanitary water modelling, calibration work, and other advanced tools.

Talk To **Us** Today



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1. Trenton Wastewater Treatment Plant - Trenton, ON
2. JLR Design Meeting for the Binghamton Wastewater Treatment Plant

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Architecture
Civil Engineering
Electrical Engineering
Energy Systems Engineering
Environmental Engineering
Mechanical Engineering
Planning
Project Management
Structural Engineering

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