

Grounded in engineering, delivered in partnership.

WJ Group



Shura Island (2024)

Introduction:

Engineering precision in water management since 1981

Many businesses have ideas about the future of water management.

At WJ Group, we have a vision. Our solutions are grounded in engineering excellence. It's an approach that has seen us trusted to deliver water management solutions for large scale infrastructure projects like Dubai International Airport and Crossrail.

But what really sets us apart, is our consultative approach, applying our deep industry expertise and commitment to sustainability to tailor solutions for global projects large and small.

Since

1981

Staff

250+

Projects

4000+

The WJ Groundwater story

In 1981, Professors Jim White and Stephan Jefferis saw what others overlooked: groundwater wasn't just a site challenge; it was a precision science.

Partnering with Millars Wellpoint International, they funded pioneering research, led by civil engineer Toby Roberts, to transform dewatering from an afterthought into an engineered solution.

At a time when uncontrolled groundwater caused costly delays and structural risks, WJ Groundwater changed the game. Our data-driven approach allowed contractors to predict, monitor and manage water with precision, reducing risk and improving cost certainty.

One of WJ's earliest projects at
Bromley High Street, South London (1981).

This commitment to engineering excellence reshaped industry standards. Today, WJ continues to push boundaries, delivering innovative groundwater control and geotechnical solutions on projects worldwide.

“To transform dewatering from an afterthought into an engineered solution.”

WJ Group milestones

1981

WJ was founded by Professors White and Jefferis.

1982

Founded first office near London.

**1988**

WJ awarded dewatering contract for the Conwy Crossing immersed tube tunnel for £1 million.

The project included the first large scale application of ejector wells in Europe.

1994

Introduced in-tunnel inclined wellpoint dewatering for Jubilee Line.

1993

Commenced dewatering for immersed tube tunnel contract #2!

Over 80 No deepwells were installed for the Medway Tunnel.

1996

Undertook the dewatering for the Cardiff Bay Barrage.

The £1.5 million contract involved installation of thousands of wellpoints, deepwells and sump wells.

1997

Another first for WJ – dewatering wells installed in the bed of the River Thames for the Docklands Light Railway Greenwich extension.

**1999**

After a six-year gap, WJ recommences work at Canary Wharf, and has had a continual presence since.

2001

Managed large-scale dewatering for the Channel Tunnel Rail Link.

2003

Awarded dewatering for Dubai International Airport Terminal 3, WJ's largest project to date.

WJ Group milestones

2005

UAE office opened to support fast growth in Dubai and Abu Dhabi.

2010

Undertook the dewatering and groundwater treatment for the London 2012 Olympic Aquatic Centre.

**2009**

Office opened in Doha, Qatar to support regional expansion.

2012

Provided dewatering for the Lusail Expressway in Doha, Qatar where maximum discharge flows exceeded 2500l/sec.

Commenced groundwater control and depressurisation for London's Crossrail. WJ went on to undertake contracts worth over £25 million.

**2013**

WJ's Polish office is established in Lodz, to support the 18 million Zloty dewatering contract for Lodz Fabryczna, a new high-speed train interchange.

2015

New Group Headquarters established in Kings Langley, just outside London.

**2016**

Secured and successfully delivered dewatering contracts worth over £1 million each in Scotland, Australia and Turkey.

2017

Opened office in Kuwait and completed Al Zour LNG project.

2018

Opened an office in Toronto to support the bid for the dewatering for the Eglinton Light Rail Scheme. WJ went on to secure and deliver the dewatering contracts for 11 No stations on the line.

**2021**

Established an office in the Philippines to support the dewatering contract worth \$7 million USD for Clark Airport Railway project.

2023

Opened offices in Saudi Arabia to support the Kingdom's ambitious infrastructure programme.

Global reach, local expertise

WJ Group has a proven and impressive track record in water management across the globe.

Our insistence on providing local expertise to each region not only ensures expert market knowledge but a cultural appreciation of each project we undertake.

● **WJ main office locations**

● **Major project sites**
outside of established
WJ country office location

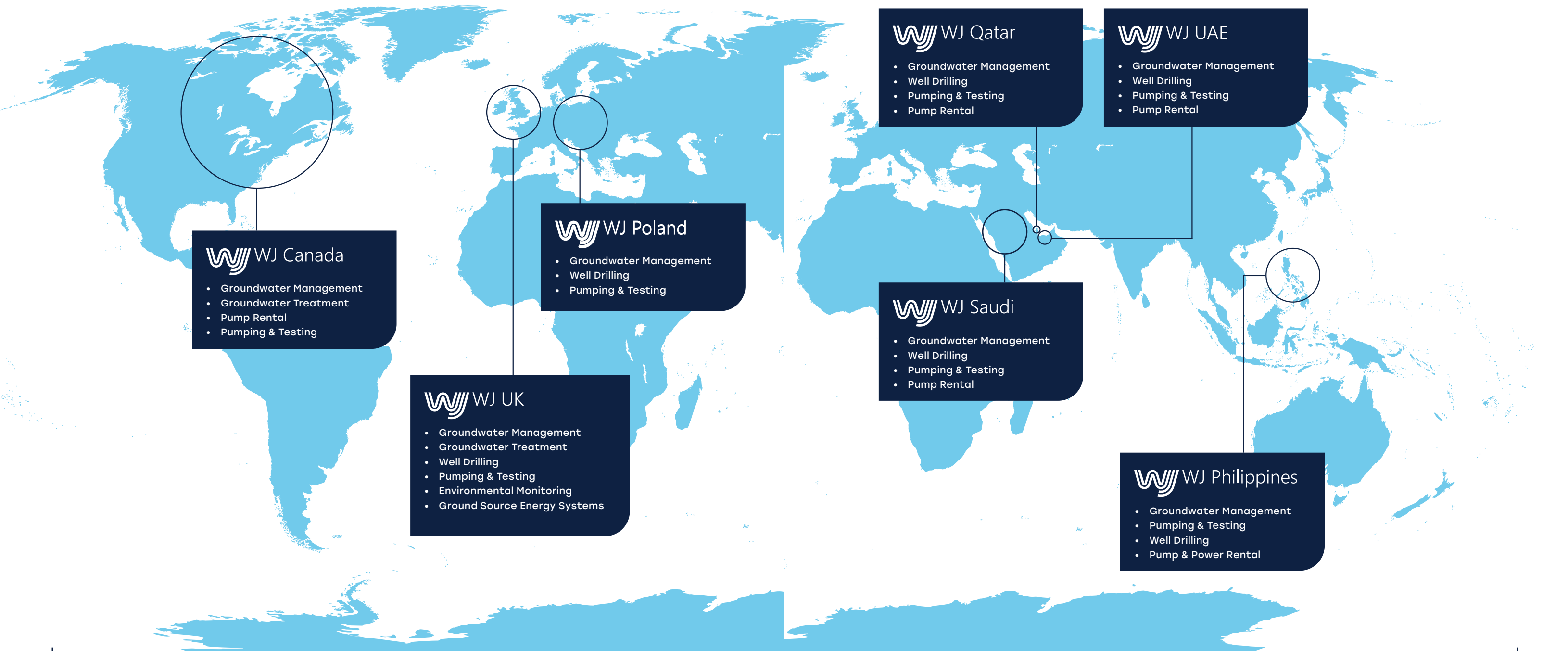


Capabilities, services and sectors

Drone photography,
Shura Island, Saudi Arabia



Global capabilities



Our services

We provide a full spectrum of water management services, including groundwater control, testing, consultation, and design for ground source energy systems.

Groundwater Management & Dewatering

WJ Group offers a complete service for all aspects of dewatering and groundwater control ranging from design and installation of dewatering equipment and in-situ testing to maintenance.

Groundwater Treatment

We make complex contamination manageable with a full spectrum of solutions including plant hire and pilot plant testing through to full specification, installation, operation, and monitoring services.

Pump Rental Services

WJ offers turnkey pump rental solutions, including overpumping, flushing and bypass systems, with full design, installation and maintenance support, and a fleet of diesel, electric and submersible pumps.



Testing

We have extensive experience undertaking pumping tests to investigate hydrogeological conditions and thermal response tests to determine thermal properties for closed-loop ground source energy systems.

Monitoring

WJ Group offers real-time electronic data collection and environmental monitoring solutions, ensuring prompt alerts and expert support for seamless project management and fast issue resolution.

Ground Source Energy

We provide comprehensive solutions for ground source energy systems, from drilling, testing and installation to expert support with feasibility, monitoring and maintenance.

Our sectors

From major infrastructure to specialist groundwater control, WJ delivers expert solutions across a wide range of sectors, helping clients manage water with confidence and precision.



Airports

WJ Group has vast experience working in complex conditions at some of the world's busiest airports, including London Heathrow, Dubai International, and Hamad International.

Key projects:

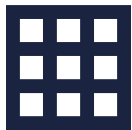
- London Heathrow Terminal 5
- Dubai International Airport Terminal 3
- London Heathrow Terminal 2
- Dubai World Central
- Manchester International
- Jeddah International

“WJ delivers expert solutions across a wide range of sectors”



Terminal 3, Dubai Airport

WJ have been providing services at Dubai Airport continuously since 2003, and in the process drilled 1000's of wells, and pumped over 70,000,000 cubic meters of water. The total value of dewatering contracts carried out exceeds 50 million USD. WJ also provide emergency flood control pumps and undertake groundwater monitoring.



Infrastructure

WJ has a proven track record of delivering major infrastructure projects, for examples the Lee Sewer Tunnel and Crossrail.

Key projects:

- London Thames Tideway
- Dubai Deep Sewers
- Doha Sewers Upgrade
- Toronto PATH
- M74 Motorway Upgrade, Glasgow
- S2 Motorway Extension, Warsaw



Construction

Effective groundwater control is critical to safe, stable excavations. We design and deliver dewatering systems tailored to site conditions and construction needs.

Key projects:

- Canary Wharf, London
- Dubai Marina, UAE
- Barwa Financial District, Doha, Qatar
- Al Raha Beach, Abu Dhabi
- Elysium Tower, Cork, Ireland
- The James Development, Toronto



Ports & Marine

Ports and marine projects face unique challenges, including tidal fluctuations and rapid groundwater level changes. WJ is experienced in delivering groundwater control in these environments, with careful attention to discharge water quality and environmental constraints.

Key projects:

- Ipswich Tidal Barrier
- Cardiff Bay Barrage
- Vistula Spit Canal, Poland
- Galata Port Cruiseship Terminal, Istanbul
- Oxagon Port, Saudi Arabia



Power & Water

WJ supports critical infrastructure across the power and water sectors, from dewatering for underground power stations to water supply wells and seamless groundwater management for sewage works, delivering safe, efficient solutions for every stage of construction and operation.

Key projects:

- Dubai Aquifer Recharge Scheme
- Laffan Oil and Gas Refinery, Qatar
- Pickering Nuclear Power Plant, Ontario
- Sizewell C Nuclear Power Station, Suffolk, England
- PERN Oil Terminal, Poland
- Diana, Princess of Wales Memorial Fountain Water Supply Well, Hyde Park, London



Railways & Metros

From tunnel approaches to underground stations, WJ has extensive experience in managing dewatering for new and existing railway infrastructure. Our team navigates the complexities of minimising impact on live rail services while delivering effective solutions.

Key projects:

- Crossrail, London
- High Speed Rail Interchange, Lodz, Poland
- Doha Metro Red Line
- Dubai Metro Expo Extension
- Eglinton Crossline, Toronto
- Malolos Clark Commuter Rail, Philippines



Shafts & Tunnels

WJ offers expert advice on dewatering strategies for shaft and tunnel construction, providing safe and efficient dewatering methods to ensure stable, dry ground.

Key projects:

- Dubai Deep Sewers, UAE
- Fylde Coast Bathing Waters Scheme, UK
- Scottish Water Pipeline Upgrade, UK
- Ashgal Infrastructure Programme, Doha, Qatar
- Lee Tunnel, UK
- Fairbank Silverthorn Storm Trunk Sewer System, Toronto

[Eglinton Crossline, Toronto](#)



A trusted partner



Our core values are at the heart of what we do



- ★ Confidence
- 🏆 Pride
- 📏 Clarity & Integrity
- 🧑 Independence

Health & Safety

WJ Group is fully committed to safeguarding the health & safety and wellbeing of each employee, other site staff and the general public.

Sustainability

At WJ, sustainability is integral to how we work. Temporary dewatering can significantly reduce the environmental impact of a construction project compared to using concrete or steel cut offs in the form of diaphragm walls, secant piles, sheet piles, or other carbon-intensive material. Furthermore, when dewatering is completed, the groundwater can return to its natural condition without the long-term effect of deep shoring structures that can impact long-term groundwater flows and movement. We actively reduce environmental impact through responsible water management, waste reduction and energy efficiency. Our investments in modern, low-noise equipment, water treatment technologies and energy-efficient plant and vehicles help minimise our footprint.

We also prioritise sustainable procurement, and as part of industry-wide initiatives like the Considerate Constructors Scheme, champion innovation, responsible resource use and long-term sustainability, ensuring our operations not only meet compliance standards but go beyond them.

**“We champion innovation,
responsible resource use
and long-term sustainability”**



Careers and contact us



Join us

Careers at WJ Group

As a leader in our field, we're always on the lookout for future talent. We welcome applications from all grades of professional, technical and support staff who have construction experience or ambitions to work in the industry.

If you're interested in working for us, contact info@wjgroup.org or visit wjgroup.org.



Contact us and find out more

There’s so much more to tell than we can share here.

For more information about WJ UK, our services, the sectors in which we work and our awards and accreditations, not to mention our extensive library of project case studies and white papers, please visit our website or contact us directly.

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