

# Blake Marxsen Environmental Engineer

Water & Environment · Flood Impact · Hydrology  
Denmark & Perth, Western Australia

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Email  
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Role  
Director & Principal  
Environmental Engineer

An environmental and hydrotechnical engineer with experience spanning surface water management and flood risk work internationally. He is renowned for his proficiency in understanding regulation and developing strategies that safeguard developments, communities and ecosystems.

## Experience <sup>(9 yrs)</sup>

“Blake played a pivotal role in one of the world’s largest LNG projects. His technical and communication skills were crucial to its success.”

- Director | ASX:WOR

“Blake is a gifted engineer with exceptional problem-solving and communication skills, evident in the AI platform he designed and built.”

- Engineer | ASX:WOR

|                                                                                                                                                                                     |                                 |                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------|
| 2025–2026                                                                                                                                                                           | Director of Water & Environment | Colliers Engineering & Design |
| Founded and led the Water & Environment practice across WA and NT, delivering hydrotechnical engineering services to mining, energy and infrastructure clients.                     |                                 |                               |
| 2024–2025                                                                                                                                                                           | Regional Manager                | WMS Engineering               |
| Led the WA Civil, Water and Environment business with a focus on water resources, approvals and surface water for the energy and mining sectors.                                    |                                 |                               |
| 2021–2024                                                                                                                                                                           | Water Resources Engineer        | Worley                        |
| Hydrology, hydraulics, stormwater, surface water management and dam safety for energy projects across Australia, South America, North America and the Asia-Pacific.                 |                                 |                               |
| 2018–2026                                                                                                                                                                           | Environmental Consultant        | Various                       |
| Assessed and mitigated environmental impacts for mining, oil and gas, infrastructure, and renewable energy projects. Developed mine closure plans and formulated offset strategies. |                                 |                               |

Highlights

(9 yrs)

“Dedicated and relentless, Blake brings boundless positivity, enthusiasm and a ‘can-do’ mindset. It was a pleasure to have him by my side.”

- Engineer | ASX:FMG

“Blake is a hydrology expert and a key contributor to the project’s drainage studies. Even remotely, he communicated flawlessly.”

- Engineer | ASX:WOR

“Outstanding technical skills and deep knowledge in environmental engineering and hydro-technical analysis, significantly enhancing the quality and depth of our dam break analysis.”

- Principal | NewFields

“His enthusiasm, personable nature, and dedication to his work make him an invaluable asset.”

- Director | GWS

Image Resources, Western Australia

Mine Expansion

Flood Impact Assessment

Flood Impact Assessment and River Diversion strategy for existing, operational and post-closure reinstated conditions. The scope provides a comprehensive understanding of site hydrology, identifies potential flood hazards, and outlines mitigation measures to ensure resilience against flooding, while aligning with:

- EP Act Part IV (s45C) approvals,
- RIWI Act bed & banks permitting,
- Mining Act Mine Closure Plan requirements, and
- the EPA Inland Waters objective.

Venture Global, North America

CP2 Processing Facility Hydrology

Surface Water Management

Lead environmental engineer for the Calcasieu Pass 2 project, a LNG export terminal and pipeline development. Blake led a civil engineering strategy to navigate the project through intricate environmental, regulatory, and technical challenges.

Integrated both construction and operational considerations to mitigate environmental impacts and prevent substantial infrastructure upgrades previously recommended by other consultancies.

The Hydrotechnical Engineering expected to save approximately \$8m of dewatering costs

Newmont, Northern Territory

Mine Expansion

Hydrotechnical Engineering

Surface water management and drainage design of mine site for internal infrastructure and conducted Settling Ponds Dam Consequence Classification for risk management of expansion.

Kirkland Lake Gold, Northern Territory

Tailings Consequence Category Analysis

Hydrotechnical Engineering

Comprehensive technical assessment of several tailings’ storage facilities at Fosterville Gold Mine, in alignment with dam Safety guidelines and environmental guidelines.

9+

Years of technical consulting across water resources and environment

US\$26B

Largest project as lead engineer — stormwater and hydraulic structures

40+

Major studies across mining, energy, infrastructure and government

4

Continents — Australia, North America, South America, Asia-Pacific

Toolset

CLOSED LLM · OLLAMA · TUFLOW · HEC-SUITE · HY8 · QGIS · SWMM · RORB

Fiord Group

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Engagement  
Engineering the gap between  
approvals and design

