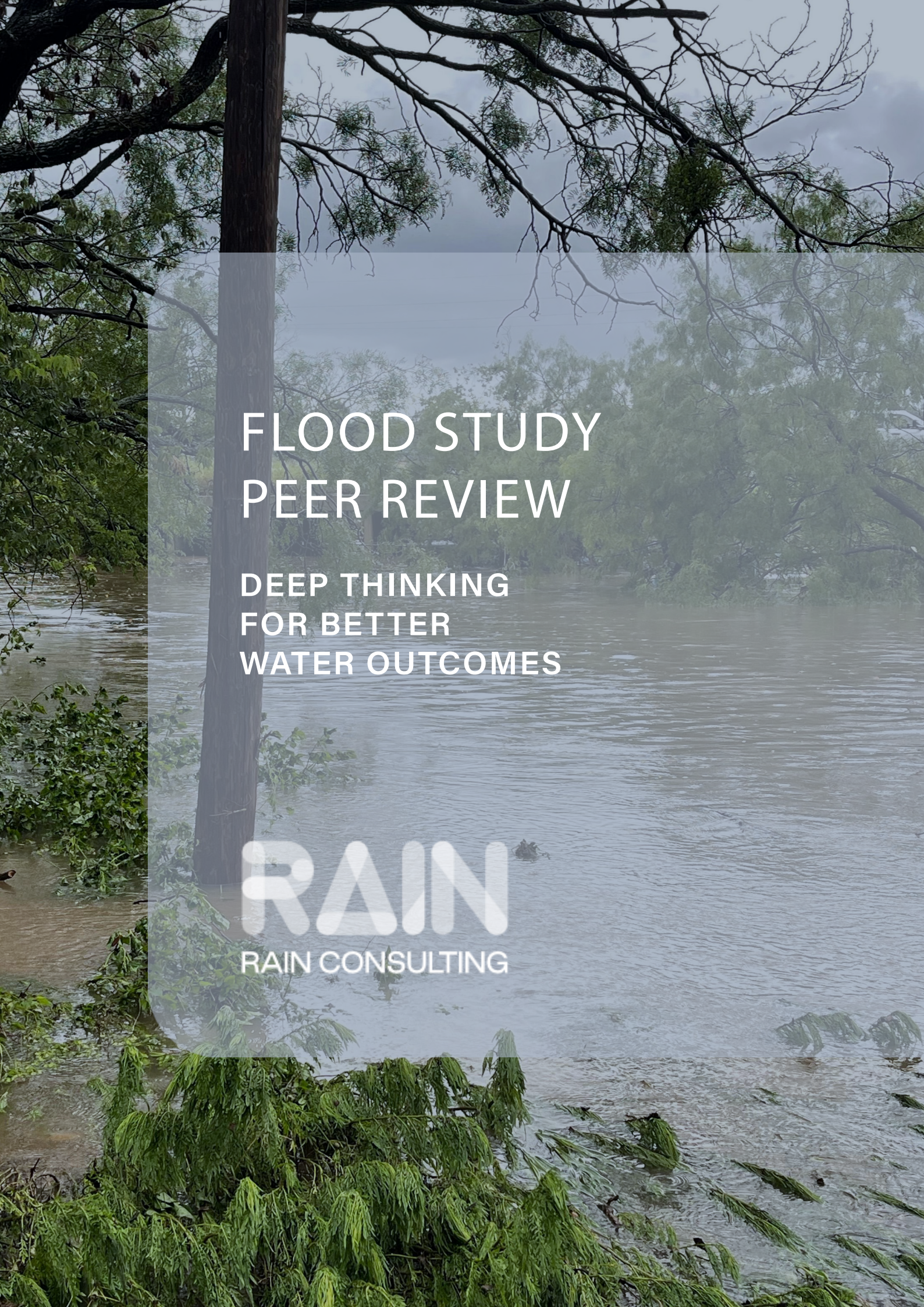
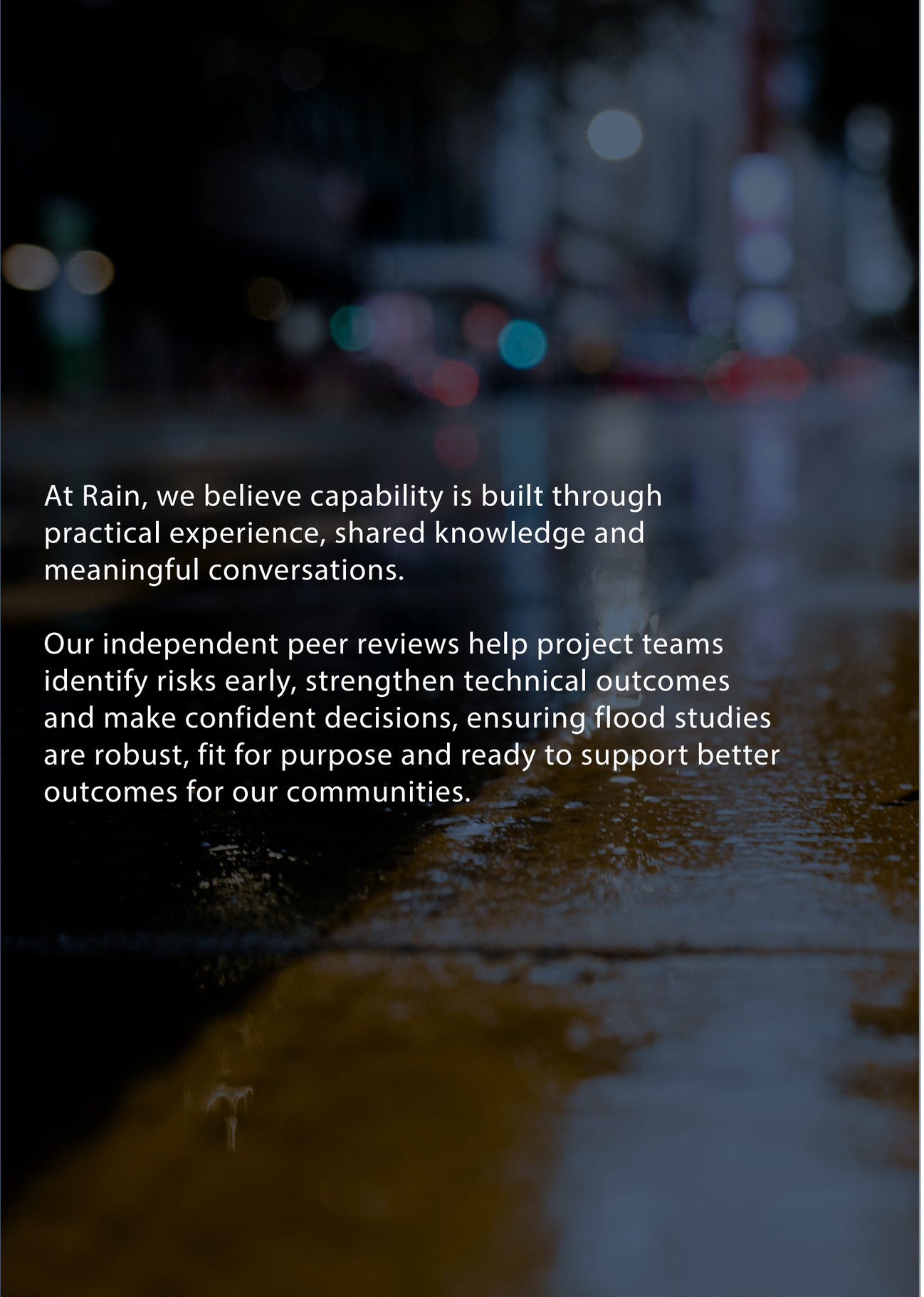


FLOOD STUDY PEER REVIEW

DEEP THINKING FOR BETTER WATER OUTCOMES

RAIN CONSULTING



OUR COMMITMENTS

We believe better water outcomes are shaped by responsible business practices, respectful relationships and a healthy environment. These commitments guide how we work, who we work with and the impact we strive to make.

CLIMATE ACTIVE CERTIFIED FOR BUSINESS OPERATIONS

Climate Active NETWORK MEMBER

Rain has achieved Carbon Neutral Organisation Certification from the Australian Government's Climate Active program.

Our certification covers the greenhouse gas emissions from our business operations. We measure, reduce and offset these emissions and are committed to ongoing improvement in our environmental performance.

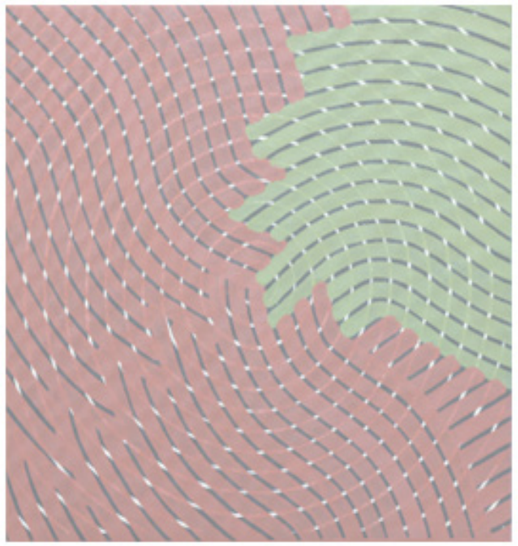
ACKNOWLEDGEMENT OF COUNTRY

Rain Consulting acknowledges the Traditional Custodians of the lands, sea and waters on which we live and work. We recognize their continuing connection to land, water, and community, and we pay our respects to Elders past and present. We acknowledge that sovereignty was never ceded and extend that respect to all Aboriginal and Torres Strait Islander people we work alongside today.

OUR RECONCILIATION ACTION PLAN (RAP)

RECONCILIATION ACTION PLAN REFLECT

At Rain Consulting, we recognise the importance of reconciliation and are committed to playing an active role in building respectful and meaningful relationships with Aboriginal and Torres Strait Islander peoples. We are developing a Reconciliation Action Plan (RAP) as a framework to help embed reconciliation into our workplace culture, business practices, and community engagement efforts.



GAAGAL

We have worked with indigenous artist Otis Hope Carey (b.1988), a proud Gumbaynggirr / Bundjalung man, to acquire a piece of art that reflects our business and to support our RAP.

> *The phrase 'GAAGAL', translates to Ocean and is the totemic spiritual emblem of the Gumbaynggirr people. This is reflected in the topographical nature of the painting and its visual relationship to oceanic current charts and movements.*

FLOOR STUDY PEER REVIEW

INDEPENDENT TECHNICAL REVIEWS THAT STRENGTHEN FLOOD STUDIES AND STREAMLINE APPROVALS

Rain Consulting provides independent peer review of flood studies, flood models, stormwater management strategies and related technical reports.

We assess methodologies, assumptions, modelling outputs and reporting to determine whether studies are technically robust, fit for purpose and aligned with relevant authority expectations.

Rain can be engaged for an independent review at project completion or progressively throughout study development, helping identify and resolve issues before they result in rework or approval delays.



WHO WE HELP

DEVELOPERS AND PROJECT TEAMS
Needing confidence in technical outcomes.

CONSULTANTS
Seeking independent quality assurance before submission.

COUNCILS, WATER AUTHORITIES AND APPROVAL AUTHORITIES
Requiring independent technical scrutiny and assessment of submitted studies.

HOW WE CAN HELP



INDEPENDENT FLOOD STUDY REVIEW

We provide detailed technical review of flood studies, hydraulic models, stormwater management strategies and supporting reports. Findings are prioritised by significance, allowing project teams to focus their effort on issues that materially affect study outcomes.

Our reviews consider:

- Modelling methodology and assumptions
- Technical accuracy and robustness
- Statutory and authority requirements
- Suitability for the study's intended purpose
- Reporting quality and completeness
- Support in addressing issues where required

COLLABORATIVE TECHNICAL REVIEW

Rain's reviews are designed to help project teams resolve issues respectfully, not merely identify them. We work directly with consultants and technical teams to:

- Test and clarify modelling assumptions
- Discuss findings and their implications
- Work through technical issues and practical solutions
- Share specialist knowledge and lessons learned
- Strengthen the study and final submission
- Most importantly, we keep the aim of the original investigation front of mind, ensuring our review remains relevant to whether the work is fit for purpose

ONGOING PROJECT EVALUATION

Rain can also be engaged progressively throughout a project, providing independent technical input at agreed stages rather than waiting until the study is complete.

This can include:

- Reviewing methodology before detailed modelling progresses
- Assessing modelling and reporting at key project milestones
- Identifying potential technical or approval issues early
- Providing input for stakeholder and authority discussions
- Support in addressing issues where required, including once-off or ongoing training

WHY RAIN?

Rain combines specialist flood modelling expertise, fit-for-purpose review, deep authority insight and structured assessment methods to deliver practical, reliable reviews that strengthen study outcomes and support successful project approvals.

FLOOD MODELLING SPECIALISTS

Our reviews are led by experienced flood modelling and flood risk management practitioners with a strong understanding of both technical best practice and project delivery.
Where required, Rain can provide formal documentation confirming completion of an independent technical review.

INDUSTRY INSIGHT

Our experience working with councils, water authorities and approval agencies gives us a practical understanding of the standards and specifications that underpin successful submissions. Rain has also authored technical guidelines now widely adopted across the sector. We are trusted by the authorities.

FIT-FOR-PURPOSE REVIEW

Not every flood model needs the same level or type of scrutiny. We focus our review on what matters for the study's intended use - whether it is strategic planning, a planning scheme amendment, development assessment, floodplain management or detailed infrastructure design.

STRUCTURED METHODS

Our established methodologies and specialist tools help identify issues, assess their significance and provide clear recommendations for resolution.

> “By creating an open dialogue, peer review becomes a tool for improving the study, not simply checking it.”



OUTCOMES

Rain's peer review services help project teams:

- Identify major technical issues early
- Improve modelling and reporting quality
- Strengthen submission readiness
- Reduce avoidable rework and approval delays
- Respond to authority requirements with increased confidence

MEET US

We're a team of dedicated engineers and scientists with creative approaches to better water outcomes.



RIANDA MILLS

Director and Senior Principal Engineer

FIEAust, Dare2Lead™ Trained, Zenergy Trained

Well-known and respected within the industry, Rianda is a creative, thoughtful and caring engagement specialist with over 20 years of dedication to water engineering and water resources. Rianda is frequently engaged to consult on complex strategic water management projects.

"Combining extensive water engineering know-how with workshop facilitation expertise, I'm passionate about delivering complex projects and workshops, integrated water management and most importantly, climate change adaptation and mitigation outcomes."



LUKE CUNNINGHAM

Director and Senior Principal Engineer

FIEAust, CPENG, Dare2Lead™ Trained

Luke is a water management specialist with over 20-year background in leading complex water management projects and multi-disciplinary teams for the private and public sectors. Highly respected as a leader in his industry, Luke is a Fellow of Engineers Australia.

"I combine extensive engineering experience with a head full of ideas and a creative streak. I'm always dreaming up better ways to help great people do great work. I'm buoyed by seeing our environment improve and people grow."



DANNI BAILEY

Operations Coordinator

Danni is an operations professional with over 20 years of experience supporting leadership teams and managing complex operational processes. She excels at financial management, streamlining workflows and optimising resources. Danni values attention to detail and fosters collaboration across teams to drive positive outcomes.

"I thrive on turning complexity into clarity, whether that is streamlining processes, improving team coordination, or ensuring stakeholder support across Rain's operations."



JESSICA WARD

Principal Engineer

Jessica is a leader in integrated water management and stormwater strategies, bringing over 15 years of experience across the project lifecycle. As a trusted advisor to the public and private sectors, she has delivered complex infrastructure projects alongside tailored precinct-wide strategies. Her goal is to bridge vision and delivery so that sound ideas are actually built.

"I'm driven by the opportunity to shape resilient cities and leave a lasting legacy. It's a privilege to work in the water space, so fundamental to creating healthier, greener places for communities to thrive."



MILAN WICKRAMARACHCHI

Senior Engineer

Milan Wickramarachchi is a Senior Engineer with expertise in stormwater management, drainage design and flood mitigation. He has delivered drainage schemes, stormwater strategies and Water Sensitive Urban Design (WSUD) solutions across public and private sector projects.

Milan uses hydrologic and hydraulic modelling to develop practical, resilient infrastructure that supports communities and manages flood risk.

"I enjoy developing practical water management solutions that make communities safer and more resilient."



AMIN ZARRIN

Project Engineer

Amin has extensive experience in local government and is an authority on greenfield developments. As a Project Engineer, Amin's expertise includes stormwater management strategies and flood impact assessments in existing residential zones for municipalities.

"I am driven to apply intelligent design to achieve sustainable engineering solutions. Working at Rain Consulting is an opportunity to experience effective team collaboration in delivering successful project outcomes."



HOLLY EDMUNDS

Executive Assistant

Holly provides exceptional support to the entire Rain crew. Her meticulous attention to detail and proactive approach make her an invaluable team player and a key point of contact for clients.

"I love anticipating needs before they arise, staying one step ahead, and making sure everything runs seamlessly behind the scenes."



SAMANTHA NIEVES

Scientist & Sustainability Lead

As a dedicated Environmental Scientist, Samantha is passionate about integrated water management as a sustainable solution for the environment. She applies technical software for technical analysis and model building, as well as for the generation of maps and figures for reporting.

"A love for numbers and sustainability caused me to pivot from a bookkeeping career to environmental science. I am excited to work on water projects that make a difference to Australia's future."



EMILY FELSTEAD

Engineer

Emily is gaining experience in a breadth of stormwater management work, including flood impact assessments for urban redevelopment and greenfield stormwater management plans. Emily supports the team in producing high-quality work for government and private development and has a sound background in hydrology and hydraulics.

"I am passionate about sustainable outcomes that meet or exceed project goals while remaining realistic and achievable."

PEER REVIEW IN PRACTICE

EAST GIPPSLAND SHIRE COUNCIL



CHALLENGE

Determine whether existing flood studies were technically robust and suitable to support an upcoming planning scheme amendment.

RAIN'S ROLE

Rain undertook an independent peer review of the flood studies, testing their suitability for the intended planning purpose and providing Council with clear advice on key issues, risks and next steps.

OUTCOME

The review gave Council a clear technical basis for progressing its flood planning work. Rain was subsequently engaged to support the planning scheme amendment phase, including flood mapping extraction, overlay preparation and final overlays.

BROADER PEER REVIEW EXPERIENCE

Rain also undertakes independent technical reviews of flood studies and modelling for a range of projects, including work associated with the City of Melbourne's Professional Services Agreement, the Colliers reviews and the Spiire reviews. Our experience spans different project types and stages, helping teams identify technical issues, strengthen study outcomes and make informed decisions.



Eagle Point, East Gippsland Shire

AT RAIN, WE EXPLORE EXCEPTIONAL WATER MANAGEMENT APPROACHES AND ADAPTATIONS THAT SUPPORT THE COMMUNITY AND THE ENVIRONMENT. BETWEEN STORM AND STILLNESS, WE CREATE SPACE WHERE BOLD IDEAS TAKE ROOT AND WISER FUTURES GROW. THROUGH CARE, HONESTY, COLLABORATION AND HIGH STANDARDS, WE CREATE A LEADERSHIP RIPPLE EFFECT THAT ACCELERATES MEANINGFUL AND MEASURABLE IMPACT.

RAIN CONSULTING

Talk to Us

+61 3 8907 0068
hello@rainconsulting.com.au

www.rainconsulting.com.au

Request a Quote