CAPABILITY STATEMENT

DEEP THINKING FOR BETTER WATER OUTCOMES

RAIN CONSULTING

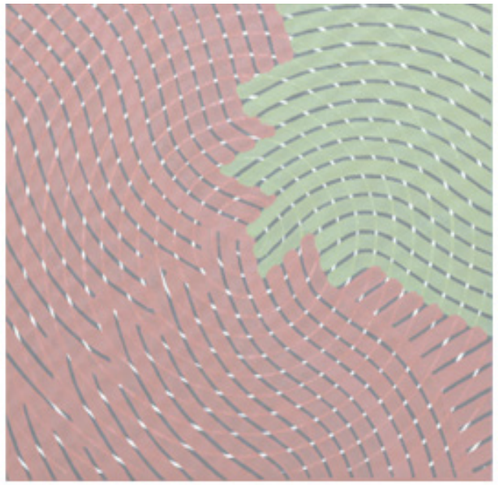
At Rain, exceptional surface water opportunities are guided with courage, collaboration and technical skill. Bold ideas that accelerate change and nourish wiser futures are welcome here. By thinking deeply and acting with care, we create better water outcomes for clients, communities and the environment – long after we've left the room.

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)

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.



RECONCILIATION ACTION PLAN

REFLECT

Our approach to implementing our RAP will be thoughtful, action-driven, and collaborative. We intend to integrate reconciliation into our policies, procurement practices, and project work, while creating opportunities for our team to listen, learn, and engage meaningfully with Aboriginal and Torres Strait Islander peoples. This includes partnering with First Nations businesses where possible, working with organisations that share our commitment to reconciliation, incorporating cultural awareness and capability training for staff, and seeking ways to support initiatives that contribute to Aboriginal and Torres Strait Islander self-determination.

We acknowledge that progress is more than steel and stone. Respect for First Peoples' deep ties to Country reminds us that sustainable futures are grounded in relationships, reciprocity, and care. This ethos is reflected in our decision to update our company constitution so that the environment and community come before profit in all business decisions.

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."*

DEEP THINKING

Above & Beyond Water Management

Rain Consulting pursues holistic, pragmatic and innovative approaches to stormwater management. We lead with heart and mind, guided by technical excellence, creativity and care.

Legacy Matters

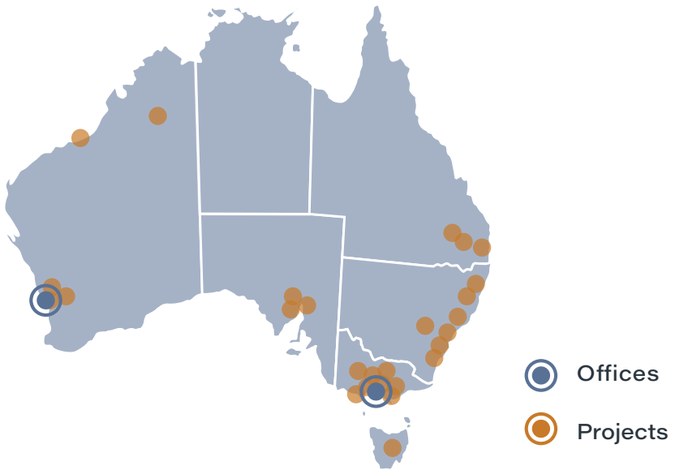
At Rain, our team of engineers, scientists and deep thinkers drive launchpad solutions that provide an uplift for sustainable change. When we see opportunities to do better, we challenge the status quo and shape places that matter, long after we've left the room.

BETTER WATER OUTCOMES

Australia-Wide Capacity

With offices in Melbourne/Naarm and Perth/Boorloo, we are well-placed to direct your water management project.

The Rain Map below shows where we've worked



Awarded

In 2024, we received both the State and National Stormwater Australia Excellence Awards.
In 2026, we received a State Highly Commended Award for excellence in stormwater management.

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

MIEAust, 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 a 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 love being part of an industry that protects and enhances waterways, bays, and oceans. As climate pressures intensify, I'm energised by the chance to lead bold, collaborative projects that create lasting value for the planet and communities."

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."

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."

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. Seeing ideas become real-world outcomes is one of the most rewarding parts of my work."

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."

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."

CLIENTS WHO LIKE RAIN

GOVERNMENT

Bayside Council (NSW)
Brimbank City Council
City of Kingston
City of Melbourne
Corangamite Catchment Management Authority
CSIRO
City of Darebin
East Gippsland Shire Council
Frankston City Council
Indigenous Land and Sea Corporation
Knox City Council
Manningham City Council
Melbourne Water
Merri-bek City Council
Moonee Valley City Council
Moyne Shire Council
Municipal Association of Victoria
Parks Victoria
City of Stonnington
West Gippsland Catchment Management Authority
Yarra Ranges Council
Yarra Trams

DEVELOPERS

Maximise Group
Villawood
AV Jennings
Bacchus Marsh Developments
Breese Pitt Dixon
Jinding
LivvCo
Marantali
Millar Merrigan
Tango Property Group
TW Projects
UD4C
Urbis
WLT Developments
WMA Water
Wright Civil

CONSULTANTS/PRIVATE SECTOR

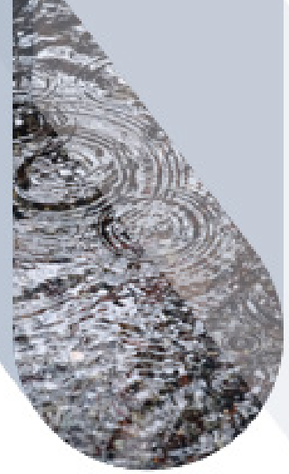
Cossill & Webley
Creo Civil \ Creo Structure
Albert Park Tennis Club
Biosis
Caulfield Grammar
Charlton Degg
Colliers
Cumulus Engineering
Design Flow
Development Victoria
Ethos Urban
Heide Museum of Modern Art
Human Habitats
Image Resources (WA)
Kennedy Nolan
Melbourne Cable Park
Mesh Planning
Prosser Town Planning
Solve Town Planning
Spiire
Stormwater Victoria
Streamology
The Planning Professionals
Tract
Urban Initiatives
Urbaqua

INSURANCE INDUSTRY

Crawford & Company (Australia)
ENData
IL Engineering
Suncorp Australia

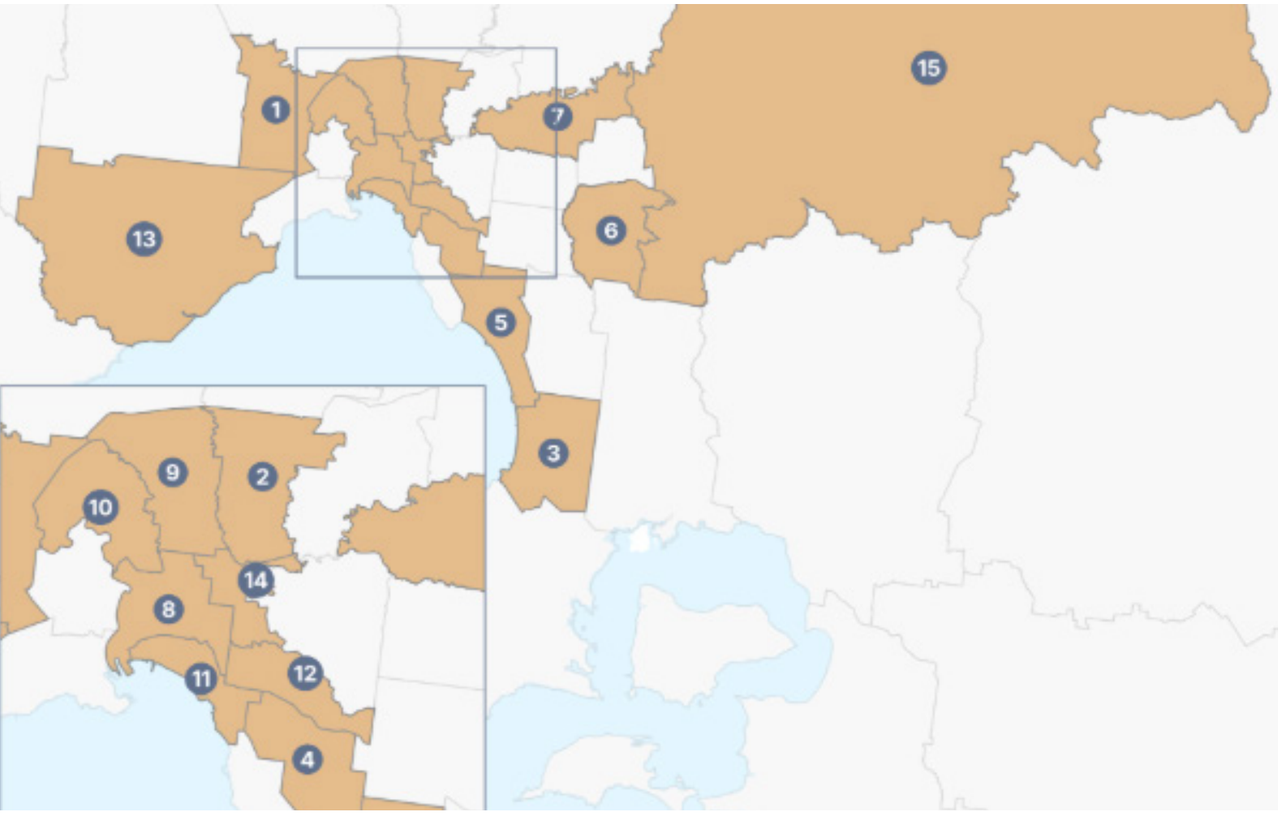
At Rain, we help good people do great work. Guided by deep thinking and fearless leadership, we are stewards of quality water environments. Together we create meaningful ripples of change.

SHAPING INTEGRATED WATER MANAGEMENT ACROSS GREATER MELBOURNE



IWM STRATEGY EXPERIENCE

Rain helps councils turn Integrated Water Management principles into practical, implementable strategies. By combining technical expertise with a strong understanding of local government, we develop solutions that respond to today's challenges while supporting resilient, sustainable communities for the future.



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MUNICIPALITIES SUPPORTED

COUNCILS WHERE RAIN HAS ASSISTED IWM OUTCOMES

1 BRIMBANK CITY COUNCIL
2 DAREBIN CITY COUNCIL
3 FRANKSTON CITY COUNCIL
4 GLEN EIRA CITY COUNCIL
5 CITY OF KINGSTON
6 KNOX CITY COUNCIL
7 MANNINGHAM COUNCIL
8 CITY OF MELBOURNE
9 MERRI-BEK CITY COUNCIL
10 MOONEE VALLEY CITY COUNCIL
11 CITY OF PORT PHILLIP
12 CITY OF STONNINGTON
13 WYNDHAM CITY COUNCIL
14 YARRA CITY COUNCIL
15 YARRA RANGES COUNCIL

SERVICE AREAS

Capabilities

STRATEGIES & PLANS

FACILITATION & TRAINING

SENSORS & IOT

FLOOD MODELLING & MITIGATION

INTEGRATED WATER MANAGEMENT

DEVELOPER SERVICES

INSURANCE ASSESSMENT

MINE WATER RESOURCE MANAGEMENT

Focus Areas

FLOOD MODELLING AND MAPPING

FLOOD MODEL STORAGE & UPKEEP

WATER SENSITIVE URBAN DESIGN (WSUD)

LOCAL WATER MANAGEMENT STRATEGIES (LWMS)

STORMWATER MANAGEMENT PLANS

URBAN WATER MANAGEMENT

BLUE-GREEN INFRASTRUCTURE & HEALTHY LANDSCAPES

MINING SECTOR WATER MANAGEMENT

HYDROLOGY FOR INSURERS

WEATHER EVENT RESPONSE

POLICY & STRATEGY

STAKEHOLDER ENGAGEMENT & FACILITATION

BESPOKE TRAINING COURSES

GUEST LECTURER / KEYNOTE SPEAKER

PEER REVIEWS

IN-HOUSE SECONDMENTS

SMART SENSOR MONITORING

STRATEGIES & PLANS

Deeper Thinking for Strategic Water Projects.

At Rain Consulting, strategic water management takes a holistic view. When you have a complex water project to deliver, we can connect the dots between modelling, planning, engagement and policy. Our deep thinking and fresh perspectives will bring clarity to competing priorities and create confidence in long-term solutions.

Strategic Leadership

Strategic leadership is at the heart of what we do. We collaborate extensively on government-initiated water projects that shape sustainable futures for cities, communities, and the environment.

Supported by skilled engineers, scientists and GIS specialists, we create design frameworks and original solutions that align stakeholders for meaningful progress. Our team combines communication, facilitation and technical expertise to guide projects from vision to results.

Strategic Perspectives

Maintaining agility in dynamic environmental conditions is essential to achieving successful strategic outcomes. We help you explore and identify potential climate futures, understand existing conditions, and then assist you in bridging the gap.

Focus Areas

Policy and Strategy

Policy design, analysis and review

Governance frameworks

Strategy development

Risk management

Evaluation framework design and implementation

Data analytics and visualisation

Climate Adaptation

Governance advice on climate risk and assessment projects

Flood risk management and options development

Managed retreat strategies

Education and training for natural hazards and disaster management

Industry Tools, Support and Training

Development and delivery of tailored training courses and materials

Guideline preparation

Peer review

Technical workshop facilitation

Advisory

Preliminary project advice

Proposal/scope development

Authority Support

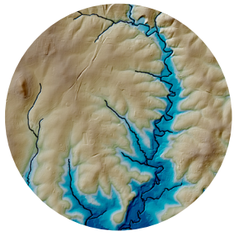
Resourcing support

Project Management

Stormwater infrastructure planning, including the preparation of local government infrastructure

Emergency response planning through the development of policy and plans

THINKING IN ACTION



Melbourne Urban Stormwater Institutional Arrangements (MUSIA)

Rain provided Melbourne Water and all councils with a comprehensive, independently verified asset database, a powerful interactive dashboard, and clear visuals on the impacts of asset transfers, which will guide handover planning, targeted site checks, and ongoing updates. The approach sets a new benchmark for collaboration, transparency, and repeatability in the management of metro-scale drainage assets.

10-year Stormwater Management Plan – Yarra Ranges Council

Rain produced an evidence-based roadmap that ranks catchments, sets measurable targets for flood risk reduction, pollutant load cuts and blue-green infrastructure, and secures cross-agency commitments. The plan equips the Yarra Ranges Council with a governance framework that will guide investment, community education, and ecological protection through 2034.

Flood Management Framework – Frankston City Council

Rain Consulting partnered with Frankston City Council to develop a new Stormwater and Flood Management Framework. Frankston City Council faces a growing challenge in managing flood and stormwater risks due to rapid urbanisation, climate change, coastal hazards, and ageing infrastructure. The Framework provides Frankston City Council with a clear, actionable plan for stormwater and flood management, practical guidance on asset maintenance, and a platform for ongoing community engagement and climate adaptation.

ASK US ABOUT

Creating better strategic outcomes for your next water-related project.

SENSORS & IOT

Rain has developed an innovative approach to anticipating stormwater pipe blockages.

Machine learning and customised programming are integrated with existing pipe sensor technology to monitor the water flow behaviour in a stormwater pit over time. The resulting pit data assesses what is normal for that pit and its pipes during various flow events. Using this data, abnormal flows can be detected that may indicate a blockage is impeding water flow, and potentially causing costly damages and repairs.

Staying ready between storms

This tool enables councils to prioritise stormwater pit inspections and remedial repairs before weather events. Rather than being reactive to storm events and flooded pits, an inspection schedule can proactively maintain problematic pipes in a catchment, both individually and collectively. The result is a reduction in risk, labour, materials and time.

Facilitating smarter risk assessments

The tool is GIS and web-based, and can be used to complete Risk Assessments outside flood models for Critical Infrastructure, such as Substations, Hospitals, and Transport Hubs. The tool can be configured to fit seamlessly within flood models as required.

Focus Areas

Ranking Pipe Blockage Risk

An Innovative Methodology for Flood Resilience and Efficient Maintenance.

Rain's Pipe Blockage Assessment Tool calculates the likelihood of a blockage and predicts its consequences to facilitate proactive maintenance. Using an innovative QGIS Approach, flood models are not specifically required to rank pipe blockage potential, providing impact across large catchments.

Use Cases Include:

- Storm Preparation: Pre-flood maintenance to identify the top 10–20 pipes most likely to block.
- Maintenance Planning: Focus cleaning on high-likelihood, high-consequence areas.
- Budget Allocation: Justify investment in maintenance based on risk, not just routine.
- Verification: Compare tool outputs with known problem spots or flood model results to refine cleaning schedules.
- Funding: Critical Infrastructure Protection may open new sources of funding.

BLOCKAGE LIKELIHOOD	PREDICTING BLOCKAGE CONSEQUENCES
QGIS	SIMPLE HYDROLOGICAL ASSESSMENT THROUGH TO DETAILED HYDRAULIC MODELLING

FACILITATION & TRAINING

Artful Facilitation

Rain is renowned for our ability to think with you rather than talk at you. Quality communication is at the forefront of all our dealings, and our inclusive approach seamlessly fosters understanding across teams and departments. At each stage, from brief to planning to design, we are mindful of communicating technical knowledge in a relatable manner that keeps projects on track and flowing. We provide facilitation services for stakeholder and community engagement, and we are often sought out to liaise with authorities on behalf of clients.

Award Winning Training that Works

Our award-winning Training and Workshop Services are adaptable for government and private industry. We provide workshop planning, engagement and facilitation and can tailor content to your audience. Our breadth of industry experience gives us a strategic edge during content development that flows through to delivery and follow-up. The result is training that provides lasting value long after we've left the room.

THINKING IN ACTION

We offer training services to both government and private industry.
Topics can be tailored to your needs and include:

- Climate change and development impacts on flood analysis
- Flood modelling – executive-level overviews through to technical deep-dives and training
- ARR19 – including key chapters and updates
- How to use publicly available data and information for modelling and flood analysis, including data from the Bureau of Meteorology, such as the ARR data hub
- Water sensitive urban design and integrated water management, including using MUSIC for conceptual design of the same (at all scales)
- Flood-related planning scheme amendment process overviews
- Conceptual to functional design of retarding basins, wetlands and major drainage using RORB, MUSIC and TUFLOW
- In 2024, Rain, in partnership with Melbourne Water, received both the State and National Stormwater Australia Excellence Awards for our capacity building annual training sessions, held with Melbourne Metropolitan Councils on behalf of Melbourne Water.

2024 WINNERS · NATIONAL AWARDS FOR EXCELLENCE
STORMWATER AUSTRALIA

ASK US ABOUT

Exceptional Facilitation and Training that adds value to your stakeholders and projects.

TRAINING & PROFESSIONAL DEVELOPMENT

PRACTICAL TRAINING FOR REAL-WORLD WATER CHALLENGES

Rain delivers engaging, practical training that helps practitioners build knowledge, apply technical guidance and make confident decisions.

Our training is led by experienced engineers and scientists who work on complex flood, stormwater and water management projects across Australia. We combine technical expertise with real-world experience to create learning environments tailored to the needs of councils, water authorities and industry practitioners.

The result is training that builds capability, strengthens decision-making and supports better water outcomes in our communities.

WHY RAIN?

INDUSTRY EXPERIENCE

Our facilitators are practising engineers, scientists and strategic advisors working on real projects across Australia.

PRACTICAL AND RELEVANT

We bring lessons learned from real projects into every session, helping participants build skills they can immediately apply.

TECHNICAL EXPERTISE MADE ACCESSIBLE

We translate complex flood and stormwater concepts into clear, practical learning, helping participants build understanding and confidence at different levels of technical experience.

LASTING IMPACT

We focus on building capability that endures, supporting stronger teams and better water outcomes.

OUR TRAINING STREAMS

TAILORED TRAINING & PROFESSIONAL DEVELOPMENT

Bespoke training designed around your organisation's needs, from foundational knowledge to advanced technical and strategic skills.

FLOOD & STORMWATER TRAINING COURSES

Our established range of specialist courses covers flood modelling, stormwater management, risk, planning and investment, with practical learning for professionals at all levels.

SCHEDULED ONLINE TRAINING

Live, facilitator-led courses delivered on advertised dates, providing accessible, interactive learning wherever you're located.

DRIFT –

Drainage Risk & Impact Forecasting Tool

Rain's DRIFT Sensor Program monitors and learns over time. The tool assesses the normal pass-through of a flow event to identify blockages not only at pits but also between them.

A Typical Flow Event Scenario:

1 A Rainfall event occurs

DRIFT learns over time the "normal" hydrograph shape and monitors for abnormalities through our custom-written code and machine learning.

2 DRIFT alerts the council

DRIFT provides a pinpointed location of the potential blockage for maintenance crews to investigate.

3 Preventive Action

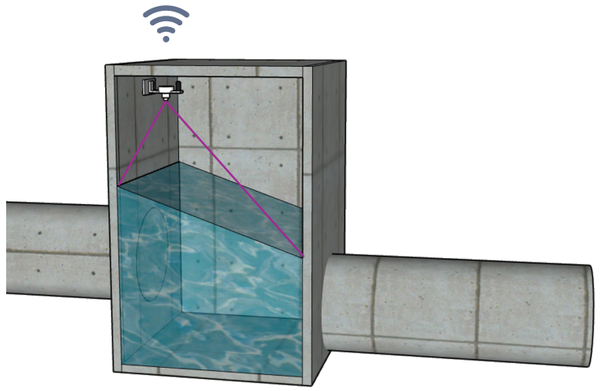
A Council maintenance crew is scheduled to clear a partial blockage before it becomes a significant one.

4 Jet Hosing flushes sediment

Sediment continues to move along the line to be collected at dedicated downstream locations.

Additional monitoring opportunities:

- When tied to weather stations or radar, abnormal flows can help detect illegal connections and pollution events.
- In larger events where flooding occurs, DRIFT can determine whether the pipe network is operating to its full potential.
- DRIFT reporting can help identify system improvements and be useful for councils involved in litigation with homeowners, business owners, or authorities.



THINKING IN ACTION

Elizabeth Street Catchment, Melbourne CBD

Rain Consulting was engaged to deliver a Hybrid Flood Management Plan for the Elizabeth Street Catchment that included a Blockage Likelihood and Consequence Tool Development Trial funded by Melbourne Water.

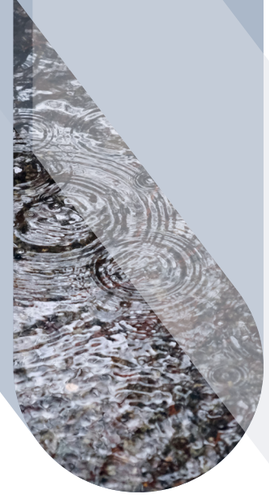
Rain utilised a GIS-based tool with built-in QGIS to identify and assess pipes within and outside probable flood paths to determine the probability of blockage. A resulting **Blockage Likelihood Score** combines physical and environmental risk factors with inputs based on expert logic and available data.

A series of TUFLOW simulations was undertaken at rainfall intensities of 1%, 5%, and 20% AEP (Annual Exceedance Probability), with a storm duration of 1 hour.

The trial recommends using the QGIS blockage likelihood tool bi-monthly in high-risk pipes before forecast storms to record outcomes after each cleaning. This will allow council teams to target maintenance where it matters most.

ASK US ABOUT

Applying our innovative sensor and monitoring technology to your stormwater pits and pipes.



FLOOD MODELLING & MITIGATION

Rain Consulting is recognised as an industry leader in flood modelling and provides specialised expert advice on complex flooding projects.

Rain works with councils and developers to assess a project's flood risk and design suitable solutions. We are regularly engaged to deliver industry training that enhances the understanding of flood risk.

Our flood modelling solutions are deeply considered while maximising environmental and economic outcomes. We strive to enhance liveability through engagement and responses that foster resilience within the community.

We maintain long-lasting, trusted relationships with water authorities, local councils and government bodies who engage us to peer review the work of other providers, ensuring solutions are cost-effective and sustainable.

From subdivisions through to major infrastructure projects – we've got you covered.

THINKING IN ACTION

Hydraulic Modelling Reviews & Advice

- Assisted the City of Melbourne in a Planning Scheme Amendment Project in which we provided reviews of the five hydraulic models developed for the amendment and liaised with consultants and Melbourne Water.
- Provide mentoring to other engineering consultants, guiding them through scoping, undertaking and checking hydraulic and related models and work.
- Multiple secondments to Melbourne Water, reviewing flood issues and related technical work, including expert reviews and advice on several projects and locations.

Flood Modelling & Mapping Technical Specifications Development

- Assisted Melbourne Water in reviewing and contributing to their Flood Modelling Technical Specifications.
- Authored the City of Melbourne's "Flood Modelling Guidelines for Melbourne."

Flood Modelling & Mitigation

- Many developer services projects in greenfield and infill development areas (flood retardation, conveyance, water quality management wetlands, sediment ponds, GPTs, proprietary products). These projects often involve liaising with authorities to obtain relevant approvals.

Guest Lectures & Special Engagements

- City of Melbourne, City of Port Phillip and Melbourne Water Design Sprint guest flood experts - creating a design guideline for development in the flood-affected areas of Fishermans Bend and the Arden and Macaulay precincts, leading to the development of the "Good Design Guide for Flood Affected Areas" document.
- University of Melbourne guest lecturers and panellists for Master of Urban Planning students, discussing development in the Arden Precinct.
- Victorian Government presentation on Water Sensitive City design in Australia - Kunshan, China 2017.
- Multiple guest presentations at partnering organisations across Australia, including Engineers Australia, Stormwater Victoria, Stormwater Western Australia and numerous consulting organisations.

ASK US ABOUT

Expert Advice

Drafting of Flood-related Technical Specifications

Hydraulic modelling reviews

Flood modelling and mitigation

Developer services

Stormwater Management Plans

Multiple organisation liaison and capacity building

Project management assistance

Guest Lecturing

INTEGRATED WATER MANAGEMENT

Rain focuses on facilitation and collaboration to achieve better Integrated Water Management (IWM) outcomes. Our team has a deep understanding of the technical constraints, context, and challenges faced by governments, industries, and businesses.

We see IWM as the way forward in an uncertain water future, making the most of our precious water resources for the environment and society.

Focus Areas

IWM projects can be delivered at multiple scales, including parcel, local, precinct, catchment or municipal.

Stakeholder Engagement throughout an IWM project with considered workshop planning, facilitation and ongoing collaboration.

Multiple organisation liaison and capacity building

IWM Planning methodology development

KPI measures and targets development

Online GIS platform with assets and georeferenced IWM-related documents/policies.

Calculation and presentation of complex information in an engaging manner, leading to quality outcomes.

THINKING IN ACTION

Integrated Water Management Plans

- Westernport Growth Areas IWM Plan with Marsden Jacob Associates, for DEECA, Melbourne Water and councils (consulting with Traditional Owners, South East Water, Southern Rural Water and the VPA).
- Merrimu future PSP area IWM optioneering (6000 lots) on behalf of the developer while liaising with Melbourne Water, the VPA, Moorabool Shire Council and Greater Western Water.
- IWM Strategy for Arden and Macaulay Precincts in close consultation with the City of Melbourne, Melbourne Water, Greater Western Water and the VPA.
- IWM Plan to define and simplify the subcatchments within the Merri-bek Local Government Area (LGA). Rain collated all previous studies, policies, strategies, and plans into one simplified source of information to better identify opportunities and risks related to IWM.

Stakeholder Engagement & Workshops

- The Westernport Growth Areas IWM Plan involved preparing and facilitating individual meetings with many stakeholder groups and organisations.
- Rain led the Melbourne Urban Stormwater Institutional Arrangements (MUSIA) project to assess alternative models to manage stormwater in the Greater Melbourne area. We facilitated one-on-one consultations with every council within metro Melbourne, Melbourne Water, DEECA and the Municipal Association of Victoria.

ASK US ABOUT

A fresh approach to Integrated Water Management for your next project.

DEVELOPER SERVICES

Rain works with developers of all sizes to deliver smart and practical solutions for urban stormwater management.

Proven Track Record

We specialise in designing major stormwater networks, including pipes, retarding basins, and water quality assets, ranging from small proprietary devices to major wetland systems. Our team understands the diverse planning and engineering requirements across councils and authorities and has a proven track record of helping projects meet regulatory standards without complications.

Best Practice Leaders

We keep up to date with the latest guidelines and are proud to be leading the way on best practice in Victoria. Rain is a contributor to the Victorian Urban Drainage Manual, which sets the standard for urban drainage into the future. This inclusion reflects our strong technical background and our reputation for providing clear advice while bringing a practical approach to problem-solving.

Better Development Solutions

Whether it's a small infill site or a large-scale precinct, we focus on solutions that work, supporting responsible development and better outcomes for the community and the environment.

Focus Areas

Urban Water Management

Stormwater Management Plans

Local Water Management Strategies

Urban Water Management Plans

Drainage Strategies (all scales)

Climate Change modelling and risk mitigation

Impact assessments /studies to support catchment and land use change

Integrated Water Management Plans and Strategies (all scales)

Water Sensitive Urban Design

Preliminary ANCOLD assessments

Stormwater harvesting and reuse feasibility investigations and concept design

Support with flood and stormwater-related planning approvals

Concept & Functional Design of drainage and water quality treatment assets, including:

- Retarding basins
- Culvert sizing
- Sediment and erosion control
- Wetlands
- Bioretention
- Raingardens
- Temporary works
- Constructed waterways
- Rainwater tanks, including smart tanks

Water balance modelling

Optimisation of infrastructure designs

Peer reviews

Focus Areas

Green Infrastructure and Healthy Landscapes

Passive irrigation for street trees

Holistic waterway corridor planning and design

Urban lake management advice

Waterway assessment and improvement advice

Design of landscapes for flood management

Assistance in triple bottom line assessments - environmental, social and economic

Hydrology and Hydraulics

Hydrologic analysis (catchment derivation and rainfall/runoff)

Hydraulic (1D and 2D) flood modelling

Flooding

Flood risk and impact Assessments

Climate Change modelling and risk mitigation

Flood forecasting, flood emergency response and input into flood warning systems

Floodplain management, including mitigation planning and design

Peer reviews

Flood damage assessment

Flood mapping and preparation of planning scheme overlays

Overland flow path modelling and mapping

Preparation of flood management plans

THINKING IN ACTION

Stormwater Management Strategy - Merrimu Precinct Development

Rain Consulting has worked closely with Bacchus Marsh Developments to deliver the Merrimu Stormwater Management Strategy and supported the developer throughout the evolving Precinct Structure Plan (PSP) approval process.

Rain delivered a robust, adaptable stormwater strategy that meets PSP and Melbourne Water requirements, with clear pathways for staged approvals and future refinement. All major drainage, water quality, and open space assets have been planned in detail, with mitigation strategies for challenging soils and outfall constraints.

The solution future-proofs the development while balancing environmental and community needs.

Stormwater Management Strategy - Donnybrook Greenfield Development

Rain Consulting was engaged to assist with concept-level flood and drainage investigation and mitigation for a large residential development in Donnybrook.

As the project progressed, Rain also delivered a Stormwater Management Strategy and Functional Design of the Retarding Basin/Wetland assets.

A pragmatic and collaborative approach, especially under tight time constraints, facilitated early alignment with Melbourne Water and efficient project progress.

ASK US ABOUT

Streamlined Stormwater Management Services for your development projects.

INSURANCE ASSESSMENT

Our commitment to safety, efficient communication, thorough analysis, scalability, flexibility, and a broad spectrum of services secures Rain Consulting as a trusted partner in the insurance industry.

Rapid Response to Weather Events

Weather events cause significant damage across the country. We understand that momentum and action are critical for the claim process, whether you're a private consumer or insurer.

A network of trusted contractors enables rapid deployment anywhere in Australia, including remote locations. This flexible scalability ensures timely and accurate assessments, aiding insurers in prompt claim evaluation turnaround.

Hydrological Assessments for Insurance Claims

We specialise in hydrological analysis following significant weather events.

- Our claims expertise allows us to undertake impartial, comprehensive hydrological rainfall and stream flow analysis for industrial, commercial, and residential sites.
- Site visits, inspections, and relevant discussions with the insured enable well-supported and documented conclusions.

A NATIONAL NETWORK OF SPECIALISTS

- Rain's Insurance Claims Response Team deploys experienced engineering hydrologists and their support staff, as well as sub-consulted engineering hydrologists with extensive experience, who consistently produce high-quality work and reports.
- Team members in Perth, Adelaide, Melbourne, regional Victoria and Queensland can be mobilised anywhere in Australia.

QUALITY ASSURANCE

- The broader team and sub-consultants are highly trained.
- We read and sign off on the lead contract, ensuring that confidentiality, data security, engagement requirements, quality, and occupational health measures are well understood and at the forefront of our minds.

BETTER REPORTING

- Our agile team ensures that every claim is assessed with due experience and is not left to less qualified personnel. In turn, this leads to more defendable outcomes, with further clarification rarely being required once our reports are submitted.
- All work is peer-reviewed by our Principal Engineers.

Focus Areas

Communication and Compassion

We will look after your clients like they are our own. Compassionate and efficient support staff are confidential but not promissory and will not discuss claim outcomes. Our streamlined processes allow engineering teams to focus on high-quality assessments while keeping customers informed.

Emphasis on Safety

Safety is paramount during site visits, ensuring the well-being of all involved in the assessment process.

Scalability and Flexibility

Scalable teams and a network of trusted subcontractors can adapt to project needs and geographical requirements.

Focus Areas

Highly Experienced

We cover all spectrums, including manufacturing sites, farms, businesses, residential homes, the events and entertainment industry, and local government.

Commitment to Confidentiality

We're committed to client confidentiality and data security. We provide ongoing training and QA for all staff and contractors.

Desktop Analysis

In cases where on-site visits are challenging, our desktop analysis services streamline the assessment process with accuracy and cost efficiency.

Quality Systems

All reports undergo review. High accuracy and reliability standards reduce follow-up queries and increase confidence in outcomes.

Proven Track Record

Rain Consulting is a trusted partner in hydrological assessments. We pledge rapid response, safety, comprehensive analysis, scalability, flexibility, and administrative support to deliver accurate and timely information. With a successful track record in complex insurance claims, we stand as a reliable choice for your insurance needs.

THINKING IN ACTION

Hydrological Insurance Assessments – 2022-2023 Eastern Australia Flood Events

Insurers required rapid, reliable, and accurate hydrological assessments following severe flooding in eastern Australia from late 2022 to 2023.

Rain Consulting was able to scale operations quickly, handle numerous assessments simultaneously, and uphold quality and confidentiality standards within tight deadlines.

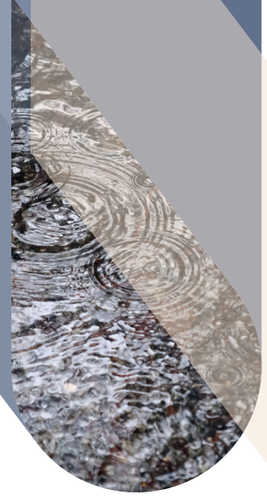
Key outcomes were:

- Coordinated response and rapid scaling with our network of trusted subcontractors around the country.
- Timely and defendable flood assessments helped expedite insurance claim outcomes.
- Assisted in clearing the backlog of claims faced by the insurance industry due to multiple flood events and the volume of claims raised.
- Maintained full compliance with confidentiality, OH&S and data handling requirements.
- Integrated site inspection findings, local data analysis, and mapping into each assessment.

ASK US ABOUT

How our agile, accurate, and scalable Insurance Assessment Services can assist your customers in times of need.

MINE WATER RESOURCE MANAGEMENT



Rain Consulting is committed to delivering water management solutions that prioritise environmental responsibility while meeting the operational needs of mine sites.

We recognise the challenges of managing water in sensitive and often fragile ecosystems, and the importance of aligning mine operations with broader environmental and community values.

With decades of experience in surface water and hydrology, our team offers practical, site-responsive strategies that support environmental compliance, protect surrounding waterways, and enhance water quality. We prioritise solutions that reduce ecological impacts, manage water-related risks proactively, and uphold the responsible stewardship of water resources across every stage of a mine's life cycle.

Focus Areas

- Contaminated runoff reduction and mitigation
- Water quality assessments
- Seasonal and sensitivity impact analysis
- Stormwater treatment and discharge planning
- Temporary flood displacement and diversion plans
- Flood response and contingency planning
- Erosion and sediment control strategies
- Wetland and buffer zone design for passive treatment
- Compliance support for environmental regulations
- Mine closure and rehabilitation flood impact assessment

THINKING IN ACTION

Rainfall Erosion Analysis – WA Mine Site

Rain Consulting was engaged to assess the design and performance of a proposed sump, located at a mine site in the Wheatbelt region of Western Australia.

The project aimed to prevent erosion and runoff issues that had impacted the site in past years, supporting mine compliance and site safety. The requirement was to design and verify a sump that would provide enough capacity and resilience in future major storm events, especially considering the erodible sand and fines at the site.

The assessment utilised industry-standard RORB and TUFLOW modelling to test whether the sump could safely manage rainfall from a major storm (2% AEP, or a 1-in-50-year event). Rain confirmed the proposed sump has ample capacity after a major event. Flows across the nearby Brand Highway are reduced by over 80% compared to pre-mine conditions, significantly decreasing downstream flood risk.

ASK US ABOUT

Better water resource outcomes for your mining sector project.

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.

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