

2025 Longwall & Underground Coal Mining Conference

Engineering Smarter

Real-world AI applications in an engineering company



About Waterline



Our footprint

We are a multi-discipline Engineering Consultancy with offices in Brisbane and Mackay



Where we work

We have been supporting clients in the Resources Industry **since 2011**



Client problems

We support clients across:

1. Advisory Projects
2. Capital Projects
3. Operational Engineering

Partnering with Australian Industry to provide safe and sustainable resources to the world

DRIVEN

“Approach with enthusiasm”

Striving to deliver quality results with enthusiasm

We honour our commitments

AUTHENTIC

“What you see is what you get”

We are true to ourselves and each other. I can be myself at Waterline

EMPATHETIC

“Put yourself in their boots”

We appreciate the realities of being on site

We care about our clients, colleagues and the communities we live and work in

SUPPORTIVE

“Got your back”

We share the load for our collective success. We are an extension to each others’ teams. We support each other in our work and personal lives

Who we are

We understand mining operations and focus our support in three key areas:

WE CURRENTLY SUPPORT MINES IN QLD, AND ARE GROWING OUR NSW BASE:





USE CASE #2





Manual & time
consuming
process



Reliable, accurate
& repeatable
analysis

Outcomes

50%

In efficiency
gains per
month



Dependency
on a single
person

Further improving lean
processes



Idea generator:
Amanda
McKenzie

Use case | Financial analysis

1.

ChatGPT prompt

2.

ChatGPT generates Python code

3.

ChatGPT automates python code

4.

Validation via CFO





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**CASE STUDY
BOOK DOWNLOAD**



**WATERLINE
WEBSITE**



Written report—200+ pages
Podcast—68 mins



Written report—500+ pages
Podcast—14 mins

**QLD COAL
MINING BOARD
OF INQUIRY**