

## CONTACT DETAILS

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Julia Bota  
MSci (Geol) (Hons), FGS  
Principal Engineering  
Geologist

## KEY SKILLS

Conceptual geological models  
Desktop studies  
Site reconnaissance  
Engineering geological  
mapping  
Geological hazard  
identification  
Geotechnical investigations  
Borrow materials searches  
Detailed engineering geology  
models  
Geotechnical models  
Construction monitoring

## EXPERIENCE LOCATIONS

Australia UK  
Philippines Mexico  
Kazakhstan Brazil

## NEXT STEPS

Contact HATS Consulting to  
discuss how we can assist  
you with your next project.

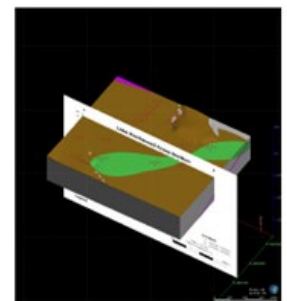
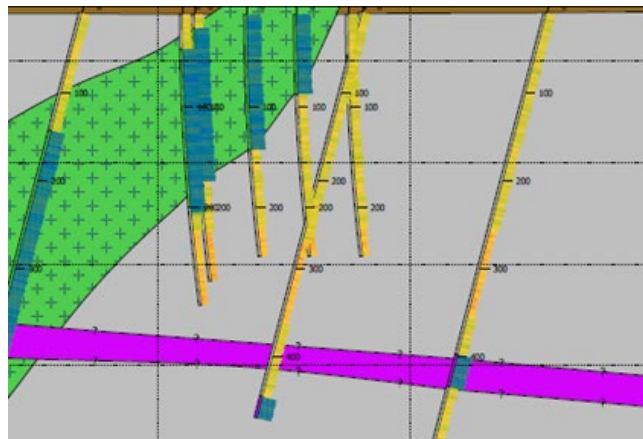
HATS Consulting Pty Ltd  
ACN 639 804 603  
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## IMPORTANCE OF ENGINEERING GEOLOGY

The role of the Engineering Geologist is a key one in the planning of tailings storages and water dams. The primary purpose of the Engineering Geologist is to convey the impact of the topography and geology on a civil engineering project or development. The objective of the Engineering Geologist is to assist in the development of a safe and cost-effective design. They must have a good understanding of the interaction between the earth and the proposed structure.

We believe that the involvement of the Engineering Geologist, particularly at the early conceptual stages of a project, can significantly reduce the risks and costs throughout all life stages of a tailings or water dam project. Consideration of the engineering geology and formation of a conceptual geological model, that is then tested and developed through phased mapping and investigations, allows geological hazards to be identified and mitigated by site selection changes or by design adaptation.

HATS also endorse the application of engineering geological interpretation for existing and closed facilities. This enables the retrospective development of a geological model that can greatly assist in the understanding and accuracy of stability models and development of facility risk profiles.



Example cross section and corresponding geological model

## EXPERIENCED DELIVERY

HATS has delivered a variety of projects across the world for operations ranging in size, objectives, and stages. We bring this experience to every project we deliver.

A fundamental understanding of engineering principles is applied to each study and design project we undertake to provide a technically robust outcome.

## OUR SERVICES

HATS was formed with the mission to provide high quality services to owners striving for responsible facility management regardless of the location or the perceived risks. We see the Engineering Geologist role as integral to tailings storages and water dam safety and we seek entering a partnership with our clients based on shared values and dam safety objectives.