



Ian Gilmore BE (CIVIL)

Hydrogeologist



Location

Newcastle, New South Wales, Australia

Experience

7 years

Qualifications/Accreditations

- BE (Civil), Diploma in Engineering Practice, UTS, 2013

Key technical skills

- Groundwater monitoring
- Hydrogeological modelling
- Ground/surface water assessments
- Data interpretation

Relevant experience summary

Ian is a member of the Water Services Group in the Newcastle office. Ian has recent experience in groundwater and surface water assessments for the mining, transport and local government sectors. Ian also has recent experience in groundwater monitoring, groundwater management plans and groundwater modelling to assess impacts from mining.

Project experience – Hydrogeology

Newstan Colliery Extension Project

Role: Hydrogeologist

Client: Newstan Colliery

Location: Fassifern, NSW, Australia

Developed a three dimensional groundwater model and prepared the groundwater impact assessment for the extension of mining at Newstan Colliery. The groundwater model and impact assessment was prepared to support an EIS and assessment under the EPBC Act.

Groundwater Management Plan

Role: Hydrogeologist

Client: Northparkes Mine

Location: Parkes, NSW, Australia

Assisted in developing Groundwater Management Plan for open cut and underground block caving copper and gold mine to address conditions of consent.

Teralba Colliery

Role: Hydrogeologist

Client: Glencore Xstrata

Location: Teralba, NSW

Investigated underground volume of the mine workings in order to develop conceptual representation of the hydrogeology of the underground workings.

New Lenton Hydrogeological Model

Role: Hydrogeologist

Client: New Hope

Location: Bowen Basin, QLD, Australia

Developed a three dimensional groundwater model for a greenfield mine site in the northern part of the Bowen Basin, Queensland to support an Associated Water Licence application.

Wambo Mine Groundwater Management Plan

Role: Hydrogeologist

Client: Peabody Energy

Location: Warkworth, NSW, Australia

Developed a groundwater management plan for Wambo Mine that included review of historical groundwater monitoring data, statistical trend analysis of monitoring data and the development of trigger values for a trigger action response plan.

Monitoring bore and Vibrating Wire Piezometer Installation

Role: Hydrogeologist

Client: Airly Mine

Location: NSW, Australia

Supervised the installation of additional groundwater monitoring bores and vibrating wire piezometers and packer testing at Airly Mine, located in the Western Coalfield, NSW.

Groundwater Model Centennial Coal

Role: Hydrogeologist

Client: Myuna Colliery

Location: Wangi Wangi, NSW

Developed and ran a calibrated three-dimensional groundwater model for Myuna Colliery, which aided in the assessment of operations.

Airly Mine EIS

Role: Hydrogeologist

Client: Centennial Coal

Location: New South Wales, Australia

Assisted in the preparation of the groundwater and surface water impact assessment for the Airly Mine Expansion EIS. This included the interpretation of baseline monitoring data and GoldSim water balance modelling.

Annual Groundwater Review, Myuna Colliery

Role: Hydrogeologist

Client: Centennial Coal

Location: Wangi Wangi, NSW

Undertook a review of groundwater monitoring data and dewatering data to support the Annual Review. Updated and ran the existing hydrogeological model in order to investigate potential impacts on alluvial aquifers.

Airly Mine Annual Surface Water and Groundwater Review

Role: Hydrogeologist

Client: Centennial Coal

Location: NSW, Australia

Undertook an annual review of Airly Mine's groundwater and surface water monitoring data for inclusion in the AEMR. The annual review included analysis and identification of trends in monitoring data; and comparison of groundwater extraction to hydrogeological model predictions.

Groundwater Management Plan

Role: Hydrogeologist

Client: Mandalong Mine

Location: Mandalong, NSW, Australia

Developed a groundwater management plan for Mandalong Mine. This included reviewing background monitoring data to develop trigger values for groundwater level and quality. Investigated inflows and extractions of the underground storage area to determine annual groundwater make.

Groundwater and Surface Water Monitoring Report, Newcastle Gas Storage Facility

Role: Hydrogeologist

Client: AGL Energy Limited

Location: Newcastle, NSW, Australia

Undertook a review of groundwater and surface water monitoring data including statistical trend analysis for the Newcastle Gas Storage Facility.