

Résumé for Paul Maconochie

Highlighting Open Pit Coal Mining Projects

1 QUALIFICATIONS

- 1984 Master of Engineering Science (UNSW)
- 1976 Bachelor of Science (UNSW)

2 PROFESSIONAL REGISTRATIONS

- 2000 Registered Professional Engineer of Queensland
- 1988 Chartered Professional Engineer

3 AFFILIATIONS

- 1977 Member, Australian Geomechanics Society
- 1977 Member, International Society of Rock Mechanics
- 1977 Member, International Association of Engineering Geologists
- 1988 Member, Institution of Engineers, Australia
- 1992 Member, Australasian Institute of Mining and Metallurgy

4 EMPLOYMENT

1999 – Present

Director GeoTek Solutions Pty Ltd, Brisbane

GeoTek Solutions (GTS) provides geotechnical and engineering geology consulting services to mining and civil engineering projects. Paul Maconochie's core competency is in geotechnical engineering for open pit mining. In his role at GeoTek Solutions, Paul has carried out projects at hard and soft rock mines in Australia, Papua New Guinea, Fiji, the Solomon Islands, the Philippines, Indonesia and Brazil.

Before starting GeoTek Solutions in 1999, Paul held the following positions:

- 1998 – 1999 Senior Geotechnical Engineer, Cutting Edge Technology Pty Ltd
- 1996 – 1998 Manager, CSIRO Minesite Rehabilitation Research Program
- 1996 – 1998 Manager Mining Science CSIRO Division of Exploration and Mining,
- 1995 – 1996 Acting Manager, Coal Mining CSIRO Division of Exploration and Mining,
- 1993 – 1995 Research Engineer and Group Research Manager CSIRO Division of Exploration and Mining,
- 1992 – 1993 Acting and Registered Mine Manager, Ok Tedi Mining Ltd, PNG
- 1987 – 1993 Senior Geotechnical Engineer and Geotechnical Superintendent, Ok Tedi Mining Ltd, PNG
- 1976 – 1987 Engineering Geologist/Senior Engineering Geologist, Douglas Partners Geotechnical Consultants, Sydney.

Selected coal projects in which Paul has been the sole or lead geotechnical engineer are listed and described briefly below.

Year	Project	Client	Description
2016-2017	Risk Review	Glencore	Geotechnical expert in operation wide strata risk review of all open cut coal mines
2012-2017	Yarrabee	Yancoal	Geotechnical design and review
2016-2017	Isaac Plains	Stanmore Coal	Geotechnical design and review
2016-2017	Cameby Downs	Yancoal	Geotechnical design and review
2009-2016	Commodore	Downer EDi	Ongoing review of Commodore mine
2008-2017	QCoal Northern Hub	Leighton, Thiess	Ongoing review of QCNH multi-pit operation
2004-2015	Lake Vermont	Thiess	Geotechnical assessment
2000-2017	Coppabella	Thiess, Roche Macarthur, Peabody	Geotechnical design and review
2014-2017	Collinsville	Glencore	Geotechnical reference report, geotechnical design and review services
2013-2014	Curragh	Wesfarmers Curragh	Highwall auger mine designs Pits T, U, F.
2012-2014	Burton Widening	Thiess	Geotechnical design and field support services
2013	Confidential	Confidential	Geotechnical due diligence for a potential major mine purchase
2012-2014	China Stone	MacMines	Design of large Galilee Basin mine
2009-2012	Alpha	Hancock Prospecting	Geotechnical analysis and design for 30 Mtpa mine
2001-2011	Foxleigh	Foxleigh Mining, Anglo Coal	Ongoing design and review of Foxleigh mine
2000-2017	Moorvale	Leighton and Macarthur, Peabody	Ongoing design and review of Moorvale mine
2010-2011	Kevin's Corner	Hancock Prospecting	Commenced geotechnical analysis and design
2010	Maryborough	Northern Energy Corp.	Geotechnical design for Maryborough mine
2010-2011	Minerva	Felix Resources	Review of mine and analysis of proposed new highwall
2009	Cameby Downs	Thiess	Geotechnical review for tender
2007	Anvil Hill	Thiess	Geotechnical review
2007	Hail Creek	RTCA	Site investigation for Hail Creek East geotechnical investigation
2007	Kestrel	RTCA	Field work for Kestrel 400 Series Extension
2007	Millennium	Thiess	Review geotechnical baseline report
2007	Mt Pleasant	RTCA	Site investigation for Mt Pleasant coal mine
2007	Pakri Barwadih, India	Thiess	Geotechnical review
2006	Isaac Plains South	Isaac Plains Coal	Geotechnical design for Isaac Plains open pit mine
2005	KPC, Indonesia	PT Thiess	Review of geotechnical procedures and data relating to mining of Melawan and J Pits.
2005	Suttor Creek	Xstrata	Geotechnical design for new mining area at Newlands
2003	Mt Thorley	RTCA	Investigation of geotechnical aspects of a mine accident
2001	Blackwater	BHP	Investigation of large dragline spoil dump failure

5 PUBLICATIONS

5.1 Papers

1. Simmons, J., **Maconochie, A.P.**, Larkin, B. and Green, D., 2013. CoalLog: the standard for collection, recording, storage and transfer of geological and geotechnical data for the Australian coal industry. *Applied Earth Science (Trans. Inst. Min. Metall. B)* Vol 122, No 1.
2. **Maconochie, A.P.**, Soole, P., and Simmons, J.V., 2010 Validation of a simple one person method for structural mapping using Sirovision. In Beeston, J.W. ed., *Bowen Basin Symposium 2010 – Back in (the) black*. Geological Society of Australia Inc. Coal Geology Group and the Bowen Basin Geologists Group, Mackay, October 2010, 181-184.
3. Rosengren, K., Simmons, J.V., **Maconochie, A.P.** and Sullivan, T.P., 2010. Geotechnical investigations for open pit mines – 250m and beyond. In Beeston, J.W. ed., *Bowen Basin Symposium 2010 – Back in (the) black*. Geological Society of Australia Inc. Coal Geology Group and the Bowen Basin Geologists Group, Mackay, October 2010, 169-180.
4. Simmons, J.V., Simpson, P., McManus, D., **Maconochie, A.P.**, and Soole, P., 2005. Geotechnical design and performance of the Crinum East highwall trench. In Beeston, J.W. ed., *Bowen Basin Symposium 2005 – The future for coal – Fuel for thought*. Geological Society of Australia Inc. Coal Geology Group and the Bowen Basin Geologists Group, Yeppoon, October 2005, 253-266.
5. Smith, R.E.W., Wruck, G., Velasquez, A., Cuff, C., Sahami, A., **Maconochie, A.P.**, Spain, A., Graham, T., Merrett, D., and Visco, R. 2002. Environmental Assessment and Rehabilitation Investigation for the Atlas Copper Mine, Philippines. *Proc of MCA Environmental Workshop, Newcastle, NSW 2002*.
6. Cheung, L.C.C., Poniewierski, J., Ward, B., LeBlanc, D., Thurley, M.J. and **Maconochie, A.P.**, 1996, SIROJOINT and SIROFRAG - new techniques for joint mapping and rock fragment size distribution measurement, *FRAGBLAST'5, Proc. 5th Int. Symp. of Rock Fragmentation by Blasting*.
7. Poniewierski, J., Cheung, L.C.C. and **Maconochie, A.P.**, 1995, SIROFRAG - A new technique for post-blast rock fragmentation size distribution measurement, *Proc. EXPLOR '95, AusIMM Publications Series 6/95, Melbourne*.
8. **Maconochie, A.P.**, 1992, Geotechnical engineering at Ok Tedi - a multidisciplinary approach, *Proc. AusIMM Annual Conference*.
9. Read, J.R.L. and **Maconochie, A.P.**, 1992, The Vancouver Ridge landslide, Ok Tedi Mine, Papua New Guinea. In Landslides, Bell, D.H., ed, *Proc. Sixth Int. Symp. on Landslides*.
10. Jones, T.R.P. and **Maconochie, A.P.**, 1990, Twenty five million tonnes of ore and ten metres of rain, *Proc. Mine Geologists' Conference, AusIMM*.
11. Douglas, D.J., McMahon, B.K., and **Maconochie, A.P.**, 1987, Slip failure in Ashfield Shale at Artarmon, Sydney. In Walker, B.F. and Fell, R.F., eds., *Soil Slope Instability and Stabilisation, Proc. Extension Course*.

5.2 Research Reports

1. Duncan-Fama, M., Shen, B. and **Maconochie, A.P.**, 2001. Optimal design and monitoring of layout stability for highwall mining. Report to ACARP for Project C8033 by CSIRO Exploration and Mining and GeoTek Solutions.
2. Shen, B., Duncan-Fama, M., Boland, J., Adhikary, D., **Maconochie, A.P.** and Hill, D., 2000, Monitoring and Stability Assessment of entries for punch longwall mining using HWMT. Report to ACARP for Project C9007 by CSIRO Exploration Mining, GeoTek Solutions and Strata Engineering.