



SGM ENVIRONMENTAL
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sgmenvironmental.com

Curriculum Vitae, Mr Harrison Volger

PROFILE



Harrison is an environmental engineer who wants to work with the mining sector to create new land resources from mine remnants to bring further value to mine site operations. He is interested in increasing his knowledge on all environmental processes particularly in fields surrounding mine closure.

Harrison has taken a specific interest in landform and cover design as they require complex analysis, are essential for positive environmental outcomes, and are a lasting legacy in a post-mining landform.

QUALIFICATIONS AND MEMBERSHIPS

Bachelor of Engineering (Environmental) (Honours) / Bachelor of Science, Griffith University, 2019

Member of Engineers Australia

CAREER

Environmental Engineer, SGM Environmental, 2021-present

Graduate Environmental Engineer, SGM Environmental, 2020-2021



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Representative Experience

ENVIRONMENTAL MANAGEMENT AND PLANNING

- Lady Annie Mine, groundwater contamination investigation, Qld (Austral Resources Lady Annie Pty Limited)
- Rosebery Mine, audit report for a waste rock dump, Tas (MMG Australia Limited)

MINE GEOCHEMISTRY

- Broadlea Mines, geochemical characterisation of soil and spoil samples, Qld (Fitzroy Australia Resources)
- Carborough Downs, geochemical characterisation of soil and spoil samples, Qld (Fitzroy Australia Resources)
- Coppabella Coal Mine, geochemical characterisation of soil and spoil samples, Qld (Peabody Energy Australia PCI Pty Limited)
- CSA Mine, Kinetic Geochemistry of waste rock and tailings, NSW (Cobar Management Pty Limited)
- Moorvale Mine, geochemical characterisation of soil and spoil samples, Qld (Peabody Energy Australia PCI Pty Limited)
- NSW Legacy Mines Program, geochemistry assessment, NSW (NSW Department of Planning and Environment)
- Peak Gold Mine, materials and soil management, NSW (Aurelia Metals Limited)
- Webbs Consol, site options report, NSW (NSW Department of Planning and Environment)

LANDFORM AND COVER DESIGN

- Osborne Mine, conceptual cover design, Qld (Chinova Resources Cloncurry Pty Limited)
- Coppabella Coal Mine, cover column trials, Qld (Peabody Coppabella Pty Limited)
- Coppabella Coal Mine, conceptual cover design, Qld (Peabody Coppabella Pty Limited)
- CSA Mine, instrumented cover trials, NSW (Cobar Management Pty Limited)
- CSA Mine, targeted assessment program and closure management plan, NSW (Cobar Management Pty Limited)
- Moorvale Mine, capillary rise assessment of cover trial, Qld (Peabody Energy Australia PCI Pty Limited)
- Peak Gold Mine, targeted assessment program on multiple domains, NSW (Aurelia Metals Limited)
- Rosebery Mine, field scale instrumented cover trials and reporting on performance, Tas (MMG Australia Pty Limited)



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Representative Experience

MINE CLOSURE

- Chinova Mine, Trekelano waste rock dump risk review, Qld (Chinova Resources Osbourne Pty Limited)
- Coppabella Coal Mine, closure and rehabilitation strategy, Qld (Peabody Energy Australia PCI Pty Limited)
- Lady Annie Mine, groundwater, surface water and heap leach pad monitoring, Qld (Austral Resources Lady Annie Pty Limited)
- Newlands Coal Mine, site investigation of specified areas, Qld (Glencore Australia Pty Limited)
- Newlands Coal Mine (Banrock), performance of rehabilitated zone assessed on collected samples, Qld (NC Coal Company Pty Limited)

SOIL SCIENCE

- Broadmeadow East Project, impact of mining on land resources, Qld (Bowen Coking Coal Limited)
- Callide Power Station, soil quality and land suitability assessment, Qld (CS Energy Limited)
- Condobolin, assessment of topsoil for remediation, NSW (NSW Department of Planning and Environment)
- Forest Glenn, assessment of subsoil and recommendations, Qld (Upstallers Pty Limited)
- Halls Peak, assessment of soils to determine cause of failed rehabilitation, NSW (NSW Department of Planning and Environment)
- Illawong Reserve, assessment of subsoil for rehabilitation, Qld (NuGrow revegetation services)
- Moorvale Coal Mine, soil and land resources assessment, Qld (Peabody Energy Australia PCI Pty Limited)
- Nymboida, assessment of stockpile and recommendations, NSW (NSW Department of Planning and Environment)

