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To Wayne,

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RE: MP06_0264-Mod-2 – Ardglen Quarry Extension MOD 2 - Approval of Suitably Qualified Expert to revise Rehabilitation Bond.

To satisfy Condition 31b, Schedule 3 of the Ardglen Quarry Extension MOD2 Application No MP06_0264-Mod-2, Buttai Gravel Pty Ltd seeks the Secretary's approval for Mr Luke Bettridge, Principal Consultant from Umwelt (Australia) Pty Ltd to revise the Ardglen Quarry Rehabilitation Bond.

In accordance with the development consent a revised rehabilitation bond is required to be submitted within 6 months of the approval of the Landscape Management Plan which was approved 3 May 2023.

Luke has prepared a number of Rehabilitation Cost Estimates, Rehabilitation Bonds, Rehabilitation / Biodiversity and Offset Management Plans for a range of extractive industry developments in NSW and has previously been appointed as the suitably qualified expert to prepare the Ardglen Landscape Management Plan, please see attached CV.

If require any further information regarding this matter please don't hesitate to contact me on 0417 481 785.

Yours sincerely



Luke Robinson
Systems Manager – Construction Materials
Buttai Gravel Pty Ltd (Daracon Quarries)
0417 481 785



Luke Bettridge

Environmental Management Lead (NSW, ACT & Qld) / Principal Consultant

Luke is a Principal Environmental Consultant with an extensive array of experience in environmental assessment and management, particularly in the mining and extractive industry sector. Luke has a Bachelor of Environmental Science with a major in Environmental Management and has accredited qualifications regarding risk management.

Luke has been involved in a range of projects including contract environmental manager roles at underground and open cut mining operations, having worked as the Environment and Community Officer/Manager for Glencore West Wallsend Colliery from 2004 - 2009. He has undertaken a number of environmental audits of operations as part of due diligence for acquisitions, as part of site internal auditing programs or as an auditor appointed by the NSW Government to independently audit mining operations. These audits have focussed on compliance with legislative requirements, environmental and community performance as well as environmental management regarding aspects such as rehabilitation, water management, dust management and community involvement.

Luke has also developed conceptual and detailed mine closure plans for mines and quarries within New South Wales, which has included detailed scoping of closure activities and associated cost estimates. Luke has also been engaged by the NSW Minerals Council to provide feedback in regards to the Rehabilitation Cost Estimates amendments undertaken by the NSW Government in 2017.

Luke is an accredited G2 Risk Assessment facilitator and has facilitated several risk assessments in accordance with the principles contained within ISO standards for risk management. Luke has facilitated risk assessments for a range of different purposes including regulatory approval applications, site environment and community risk assessments, as well as several issue specific risk assessments looking at selected environmental aspects (e.g. air quality, rehabilitation, hydrocarbon management, noise and dust management etc.). Based on his site experience, Luke has also prepared a number of corporate and site level standards and procedures relating to tailings management, pipeline and hydrocarbon management, incident management, noise management, train loading, blasting, waste management and rehabilitation.

Qualifications/Affiliations:	Bachelor of Environmental Science MNCG1002A – Implement and Apply Risk Management Processes (G2) MNCG1003 – Establish and Maintain the Risk Management System (G3)
Years Experience:	19
Specialisation:	Mine Closure Planning and Rehabilitation Cost Estimates, Environmental Management Systems and Plans, Environmental Operational Support, Environmental Auditing, Strategic Direction of Environmental Technical Studies

Relevant Project Experience

DPE Rehabilitation / Conservation Bonds | Liddell Coal Mine, Bulga Coal Complex, Mangoola Mine, Mackas Sand, Oberon Quarry | 2016 - 2022. Luke has acted as the Project Manager / Project Director for the preparation of the DPE Rehabilitation / Conservation Bonds required to be prepared for the above operations. Luke has been approved by DPE to prepare Rehabilitation / Conservation bonds for a number of operations.

Review of NSW Government Rehabilitation Cost Estimate Tool on behalf of NSW Minerals Council | Project Director | 2017 | Luke was engaged by the NSW Minerals Council to review draft changes proposed by the NSW government rehabilitation cost estimate calculator. Luke developed a briefing note for NSW Minerals Council on the key implications of the proposed changes and the ramifications for the NSW Minerals Industry.

Due Diligence Mine Closure and Environmental Performance Reviews | 2013 – 2022 | Project Director | Luke has acted as Umwelt's Project Manager / Director for in excess of \$1.5 Billion of imminent mine closure liability assessments in NSW. Operations reviewed by Luke include significant open cut and underground mining operations with significant mine closure liabilities in excess of \$300 M. Operations have included a range of mine closure challenges related to tailings storage and capping, material balance issues, sub-surface heating, progressive rehabilitation deficits and remote work locations.

Rehabilitation, Landscape Management and Offset Plans | Various Operations | 2004 - 22 | Project Director | Luke has acted as the Project Manager/Project Director for a range of extractive industries. Luke has prepared management plans for state significant extractive developments for submission to the NSW Government as well as local councils. Luke has acted as the Project Director responsible for the development of Landscape / Rehabilitation and Biodiversity management plans for in excess of 15 extractive industry facilities. Luke has undertaken these works for facilities including but not limited to: Oberon Quarry, Haerses Road Quarry, Lynwood

Quarry, Cooma Road Quarry, Ravensworth North Open Cut Coal Mine, West Wallsend Underground Coal Mine, Haerses Road Quarry, Lynwood Quarry, Ardglen Quarry, Cooma Road Quarry, Invincible Colliery, Mangoola Open Cut Coal Mine, West Wallsend Underground Mine, Cullen Valley Mine.

Corporate Client | Rehabilitation Benchmark Audits | NSW and Qld | 2011 | Luke was responsible for the preparation of a rehabilitation benchmark review for coal mining operations in the NSW Hunter Valley and QLD's Bowen Basin. The project involved the assessment of the progression of the site's rehabilitation towards the completion criteria which had been developed for the site, with remediation actions developed to address any rehabilitation which was not progressing in accordance with site requirements

Glencore Xstrata West Wallsend Colliery | Environmental Officer/Coordinator | Lake Macquarie NSW | Luke was seconded as the environmental officer/manager at Oceanic Coal (Lake Macquarie Operations) from 2004 to 2009. These operations included an underground coal mine, a coal washery and its associated infrastructure as well as open cut mining operations. During his time at Oceanic Coal, Luke was involved in community liaison and complaint management; facilitation of environmental approval processes for a number of projects; implementation of environmental management systems; regulatory / authority consultation; auditing; emergency response; and developing and implementing environmental controls relating to noise, dust, water and waste management. Luke also delivered a range of training programs, including the delivery of general environmental awareness training as well as training regarding specific environmental aspects. In addition, Luke also assisted with the establishment of site systems including clearance for work processes and risk assessment requirements for site activities.

Mangoola Coal Conceptual Closure Plan | Project Director | 2017 and 2020 | Luke developed a conceptual closure plan for Mangoola Coal Mine in accordance with the requirements of Glencores Mine Closure Planning Standard.

Mid-term Strategic Review of Progress of Former Snowy Scheme Rehabilitation | NSW National Parks and Wildlife Service | 2016 | During 2016, Umwelt were engaged by the NSW Government to complete a strategic review of the progress of the rehabilitation of works which have been undertaken by the NSW Government. The review undertaken by Umwelt critically reviewed the programs budget status, the process for identifying planning and implementing the rehabilitation works, a review of the risk management framework utilised to priorities rehabilitation works, as well as an assessment of the rehabilitation performance against the program criteria agreed to at the commencement of the project. The project included field inspections to review rehabilitation performance across a range of sites.

Glencore Bulga Optimisation Project | Environment and Community Coordinator | Broke | NSW | 2015 | Luke was seconded as an environment and community coordinator at the Bulga Optimisation Project during 2015. Project included construction of two sections of 330 kV powerline, 66 kV and 11 kV powerlines, the construction of bridges, construction of infrastructure areas and facilities, establishment of water management infrastructure including permanent and temporary water management infrastructure. Luke was responsible for the management of the vegetation clearing process, environmental inspections and incident management. Luke also undertook inspections of the sediment and erosion controls across the project with the project including works adjacent to local creek systems. Luke was also been required to liaise with contract personnel to ensure ecology works are scheduled to enable continuity of construction activities, working with contractors to ensure equipment is effectively utilised on the construction project.

Tasman Underground Coal Mine – Closure Planning, Landform Design and Rehabilitation Project | Project Manager | Yancoal Australia | 2014 | NSW | In 2013 and 2014, Umwelt completed a detailed multi-disciplinary project for the closure and rehabilitation of the Yancoal Australia Ltd Tasman Underground Mine, located 20 km west of Newcastle, NSW. The rehabilitation project has since been featured by the NSW Minerals Council in material prepared by the Minerals Council to demonstrate leading practice in regard to mine site rehabilitation.

Umwelt's involvement in the project included:

- Completion of a planned Rehabilitation Cost Estimate (RCE) for the site, including sub-contractor, demolition and earthworks fees;
- Development of potential landform design options for site;
- Completion of an analysis of the potential landform design options and closure/rehabilitation process;
- Consultation with government agencies and the community regarding the closure process and the proposed rehabilitation strategy;
- Facilitation and completion of a Mine Closure Risk Assessment. The Mine Closure Risk Assessment identified the constraints and options for closure (including an analysis of landform design options) and the controls for the management of potential risks to closure;
- Management of Sub-consultants to undertake Contamination and Geotechnical Assessments for the site;
- Completion of a Mining Operations Plan (MOP) for closure which was completed in accordance with the relevant NSW Department of Trade and Investment - Division of Resources and Energy (DRE) MOP guidelines. The MOP submitted to government agencies and approved. The MOP contained detailed information on the rehabilitation implementation and monitoring works to be undertaken;
- Completion of a series of final 'Issued for Construction' design drawings for the rehabilitation works; and

- Completion of a technical specifications document for the chosen landform design option for issue to the construction contractor.

NSW Government | Minerals Exploration Hazard Assessment | 2013 | Luke was involved in the facilitation of the NSW government DRE Coal and Minerals Exploration Hazard Assessment. As part of his role in this project, Luke co-facilitated government workshops which were undertaken to obtain industry and regulator feedback on the existing controls and issues observed for the minerals exploration industry. Luke also co-facilitated the DRE Environmental Sustainability Workshop to undertake a review of the existing regulatory and on the ground controls utilised to manage minerals exploration activities.

Cement Australia – Carwell Creek Mines | Kandos NSW | Closure Planning and Landform Design | Project Director | In 2013 and 2014, Umwelt has undertaken a Quarry Closure Planning and landform design project for Carwell Creek Mines, located in Kandos NSW. This project is ongoing. Umwelt's involvement in the project included:

- Development of a planned Rehabilitation Cost Estimate (RCE) for the site;
- Development of potential landform design options for the site, with a range of options developed in consultation with regulatory authorities and local land holders;
- Review of specialist assessments undertaken for the project including contamination, geotechnical and groundwater assessments.
- Development of a Mining Operations Plan (MOP) for closure which was developed in accordance with the NSW Department of Trade and Investment - Division of Resources and Energy (DRE) MOP guidelines.

Planned RCEs for operations involve the identification and costing of additional planned closure items not considered as part of the DRE imminent cost calculation tool including administrative items such as land rates, EPL fees etc, and other items required to be costed as internal fees related to the closure of the site. Umwelt also utilises an internal database of known unit costs and rates in the development of the Planned RCEs.

Secondment to NSW Department of Trade and Investment Division of Resources and Energy | New South Wales | 2013 | During Quarter 1 and Quarter 2 of 2013, Luke was seconded to the NSW DRE, at the Maitland Branch. During his term of secondment, Luke worked on the following projects:

- review of over 250 expired exploration, mining and minerals claim titles to assess the potential for close out of the files and return of securities; and
- air quality and rehabilitation strategic advice – including the completion of a draft survey for distribution and comment by other government agencies

Pre-Feasibility Constraints and Opportunities Analysis for Mine Closure | United Colliery and Teralba Colliery | 2008 -2009 | NSW | Luke has acted as the Project Manager for a prefeasibility constraints and opportunities assessment for Teralba Colliery during 2008 and United Colliery during 2009. As part of the assessment, Luke facilitated the completion of specialist assessments undertaken for the project which included a geotechnical assessment to review site geotechnical constraints for future land uses, a Phase 2 contamination assessment and engineering assessments in relation to the sealing of mine entries

Preparation of OCAL Conceptual Closure Plans and Closure Costs | Glencore Coal | 2006 -2008 | NSW | Luke has assisted with the preparation of Conceptual Closure Plans for both West Wallsend Colliery, Westside Mine and Teralba Colliery. The Conceptual Closure Plans were developed in accordance with legislative requirements. The Conceptual Closure plans detailed risks for mine closure, provided preliminary closure objectives and criteria and developed a program to manage the risks associated with mine closure. The project involved the review of the planned and imminent closure costs for the operations.