



"It is not a case of whether quarrying occurs in New Zealand; it is *how* to enable responsible quarrying to meet demand for cost-effective product. The annual MIMICO Environment & Community award for the quarry sector is a material and valuable contribution to this debate."

- Bernie Napp, MIMICO Award judge





First electric truck at a New Zealand quarry Logan Point Quarry, Dunedin

The Hunter family travelled to China to watch a 30-tonne electric dump truck in action at a gold mine, and then bought one of the first 100 models to be made under the XCMG brand. In operation since January 2020, the e-truck can work close to three days before recharging, and makes substantial savings in energy costs, as well as in carbon dioxide emissions. The first e-truck at a quarry in New Zealand heralds a lower-carbon future for the industry.













At the mine in China, 3 hours north of Kumming. Hi-vis hadn't made it this far yet...







Lots going on while waiting to get loaded for the test drive at the mine.







Inside the truck factory was very impressive and very tidy!







Line up of diggers waiting to leave the factory. Another very tidy factory.







Joe Hunter, Quarry Manager



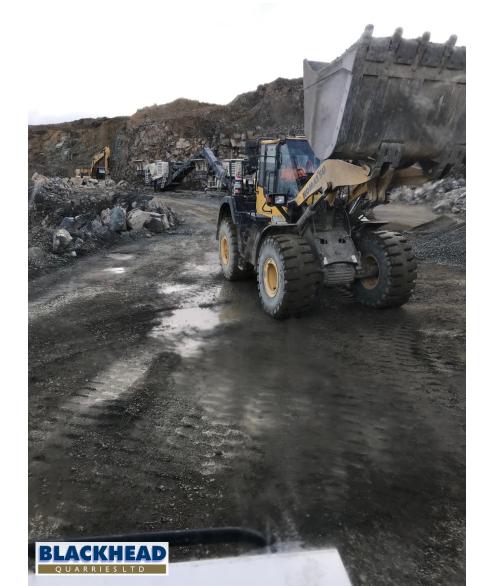
















Ravensdown – Active member of a community conservation group

Ngarua Quarry, Takaka hill, Tasman District

An eco-sourced native plant nursery, fencing out stock and feral goats, a waste recycling centre, and a native *Powelliphanta* land snail survey are among conservation initiatives on farmland where Ravensdown operates a limestone/marble quarry. The fertiliser cooperative supports a local conservation trust with more than \$30,000 of annual funding. It sees its active involvement as essential to being a good neighbour, and to retaining its social licence to operate.



Limestone outcrops with significant vegetation



Stakeholder engagement session with Ravensdown and the Takaka Hill Biodiversity Group Trust













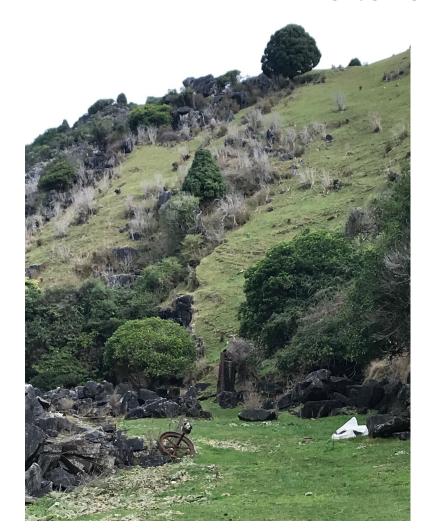
Powelliphanta hochstetteri research







Site rehabilitation



















Stevenson Aggregates – Large-scale ecological restoration

Drury Quarry, South Auckland

Envoco has planted 67,000 native seedlings to date to connect several patches of native forest on farmland in hilly terrain adjoining Drury Quarry. This project stands out for attention to rare and threatened native plant species in the area, and its scale, covering 55.8 hectares. Fencing out stock and feral deer from planted areas, animal pest and weed control, and lizard conservation round out this five-year initiative, now in its third year.



















right) approximately two years after stock exclusion and sustained pest animal and plant control









Native flora and fauna









Ecological restoration









STEVENSON

Stevenson Aggregates - Drury

Pest plant control







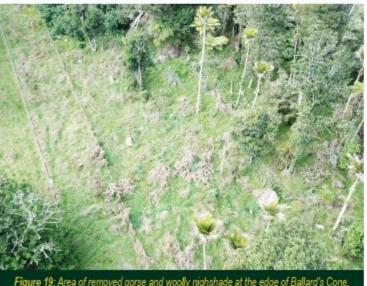


Figure 19: Area of removed gorse and woolly nighthade at the edge of Ballard's Cone.



Figure 20: Dense infestations of gorse and woolly nightshade removed from above to





Pest animal control









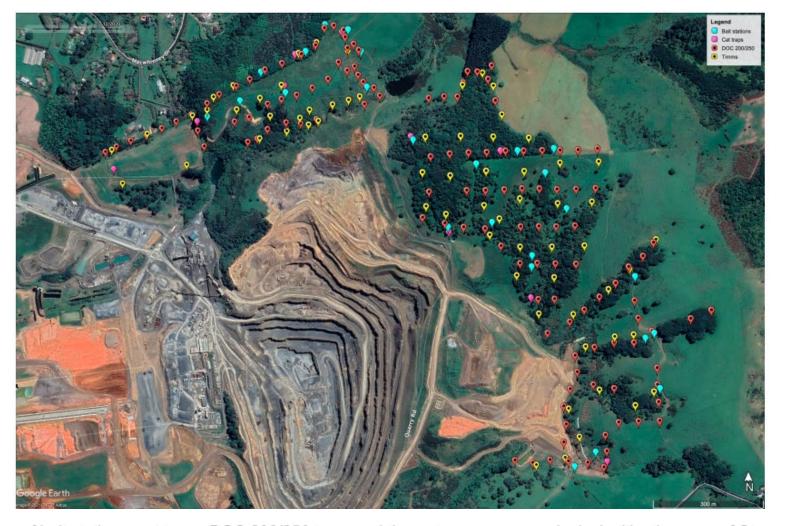


Figure 29: Distribution of bait stations, cat traps, DOC 200/250 traps and timms traps across ecological mitigation area of Stevenson Drury Quarry.









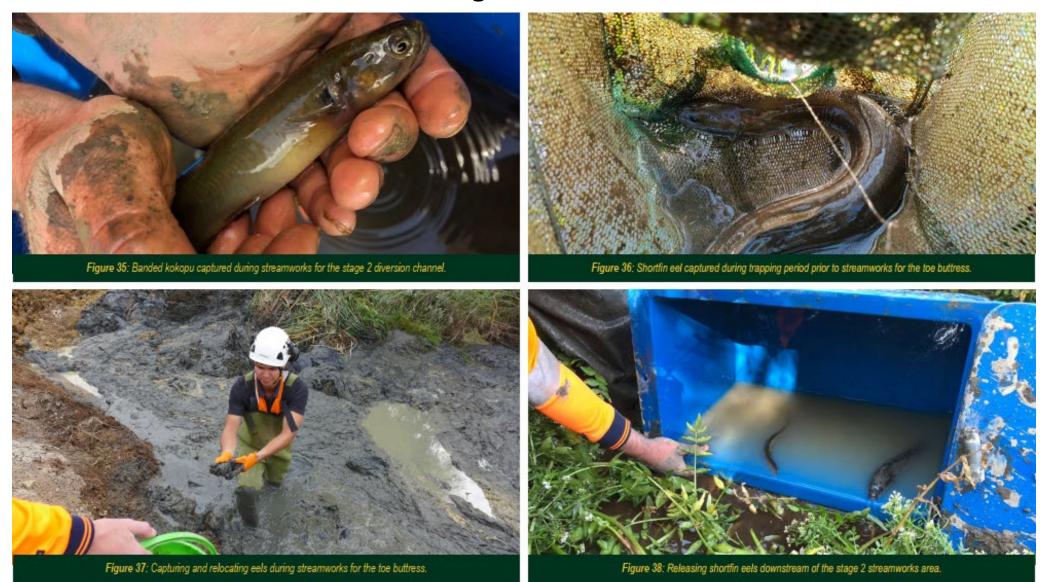








Stevenson Aggregates - Drury Fish salvage and relocation







Restoration planting



Figure 39: Native pioneer planting (2yrs old) creating a buffer on the edge of Ballard's Cone.













Noise bund





Figure 43: Swale on the eastern edge of the noise bund being planted with low growing wet-tolerant native species.





Figure 45: Native wineberry (Aristotelia serrata) growing on the lower slopes of the noise bund.





MIMICO Environment & Community Award 2021 Stevenson Aggregates - Drury

Northern extension & northern gully







Figure 47: Use of a bobcat to stockpile removed noxious vegetation.

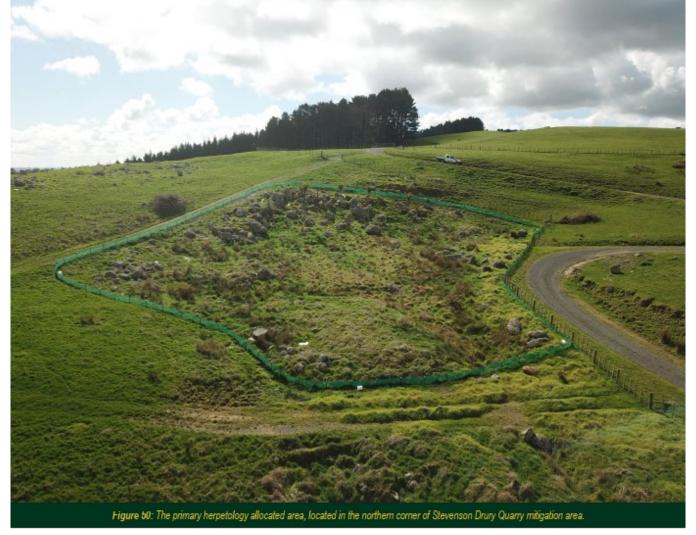




Figure 49: Northern gully after noxious weed removal, with riparian planting in place.





















Vickers Quarries

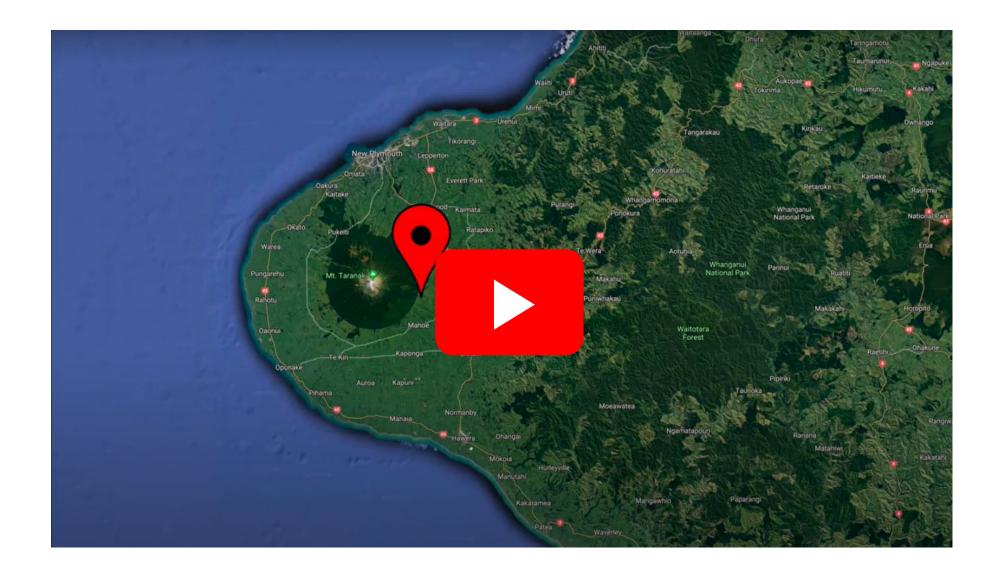
Vickers Quarries – Long-standing commitment to environmental management

Midhirst Quarry, Taranaki

The Vickers family have had as core business freshwater management, minimisation of rock waste, site rehabilitation and re-establishment of native vegetation at their andesite quarry close to Egmont National Park. Mt Taranaki is the ever-present landmark at this tidy and well-presented operation, with a history exceeding 25 years. One has to be in the quarry to know it even exists.



















Rehabilitation / restoration work







Bund around settling pond







