

PROJECT STAKEHOLDERS

- Evergreen Power Seeding Pty Ltd
- BHP Mining Company
- PGG Wrightson Turf

CHALLENGES

- Poor soil conditions
- Remote access
- Exorbitant costs to truck in topsoil

APPLICATION

- ProGanics® BSM™: 5,000 kg/ha (4,460 lb/ac)
- ProMatrix™ EFM™: 3,500 kg/ha (3,120 lb/ac)
- Gypsum: 20 t/ha (8.9 US t/ac)
- CK88 Fertilizer 350 kg/ha (310 lb/ac)
- Seed: Japanese Millet, Creeping Bluegrass, Sabi, Rhodes Grass, Seca Stylo, Wynn Cassia

RESULTS

- Within three months the site had established vegetation
- The site owner was impressed with the solution and is now installing ProGanics BSM on more than 20 hectares (49 acres)



ProMatrix Engineered Fiber Matrix is applied to the site on top of the ProGanics Biotic Soil Media

Peak Downs is one of the largest coal mines in Australia. In May 2017, the owner needed a revegetation solution for five hectares (12 acres) of the site. He wanted to develop a solution that was different than the conventional mining reclamation method of spreading topsoil and rip seeding. The site did not have abundant topsoil and importing material would have been expensive for the remote site. PGG Wrightson Turf worked with Profile Products to develop a solution to fulfill the site requirements. Given the mine's poor soil conditions, the contractor decided to hydraulically apply ProGanics® Biotic Soil Media™ (BSM™) as an alternative solution to trucking in topsoil.

ProGanics is an Engineered Soil Media™ (ESM™) that provides an abundant source of organic matter and soil-building components to modify soil chemistry and initiate plant growth. The contractor also applied ProMatrix™ Engineered Fiber Matrix™ (EFM™) to protect both seed and soil from erosion. The applications were done prior to the wet season which gave the site ample rainfall. Within three months, all five hectares had established vegetation. The project manager was complimentary of the solution and chose to install ProGanics on more than 20 hectares (49 acres). He also brought neighboring mine operators to look at the rehabilitation and learn from its success.



The barren mine prior to application



In follow-up inspections, the site had impressive growth