

GLENCORE

Greater Ravensworth news

AUTUMN **2021**

Welcome from **Xavier Wagner**, General Manager Operations, **Greater Ravensworth Area**

Looking back over the first quarter of this year, since the last update from Steve, a lot has happened in our business. Most notably, Steve has elected to begin a well-earned retirement and enter the next phase of his storied journey. I'd like to take this opportunity on behalf of the team to acknowledge the great contribution Steve has made over a long time to the business and wish him well.

Steve started life on the mines in 1980 as a surveyor and gradually moved up the ranks to become Chief Surveyor before subsequently taking up a line role in operations in the early 90's. Owing to his strong work ethic and outstanding leadership, it wasn't long before he was appointed Operations Manager at Ravensworth Narama and later General Manager (GM) of the Western Operations, which included the start-up of Mangoola, a role he later performed for the Northern Operations (Greater Ravensworth) and also supporting several of the underground operations, including management of the Bulga underground fire.

Roles aside, what Steve will be most remembered for is his personal drive and professionalism. Working around so many of the Hunter's operations over such a long time Steve leaves a legacy having developed so many leaders over that time and that unwavering commitment to 'giving back' will benefit our operations for some time into the future.

Looking at the Greater Ravensworth Operations over this first quarter of 2021, our business has done exceedingly well to cope with what has been an exceptionally wet start to the year. From the end of December we experienced 586mm of rain, against a usual annual average of 645mm, with some 222mm coming in a single large event over 10 days in the second half of March. Our Greater Ravensworth Area Water and Tailings Strategy (GRAWTS) system allowed us to manage water across sites, ultimately being able to discharge approximately 300ML from Liddell and 500ML from Ravensworth.

The excess water across our sites has resulted in three key impacts, being (1) delays to mining sequences, with coal tons being lost out of this year's production profile; (2) coal quality changes because of sequence changes; and (3) mining changes to access dry mining areas and shot ground inventories. The Bayswater North Pit at Glendell has been inundated with water, with the operation losing access to some 1.35Mt of coal at a 2:1 strip ratio. This will take months to dewater, and plausibly into next year. Notwithstanding this, our operations still continue to hit their numbers, and we need to maintain focus on those elements of the business we can drive value in.

One of the areas of opportunity we have lies in our safety performance. We have seen a sustained increase in our TRIF injury rates. Most of these injuries have reached their full potential, but really highlight the need to keep our minds focused on the task at hand, be aware of our surroundings and make sure that we can return safely home to our loved ones at the end of the shift. Our leaders will need to be more present in the field and engage authentically, particularly on some of initiatives around No Plan No Work. Inasmuch as we continue to perform well on our production metrics, this business has demonstrated over many years that it can consistently deliver great safety improvements, year after year. This is the moment to focus and continue that habit. Our families, colleagues and communities deserve it.

It is within this context that I am pleased to have been asked to take over the role of Regional GM for the Northern Operations from Steve. Over the last few weeks since starting the role, I have enjoyed the warm reception from everyone across our sites. Our family has most recently relocated from Colombia, where I ran Glencore's operations there, but we are very familiar with the Hunter having lived here several years ago. We look forward to becoming part of this community again.



Steve Hubert retires as General Manager Operation, Greater Ravensworth Area



Incoming General Manager, Xavier Wagner

Integra **Underground**

Integra Underground commenced Longwall 16 in the Middle Liddell seam in June 2020 and recently completed mining this longwall panel. Mining of Longwall 17 commenced during May 2021 and this panel is expected to be completed within approximately six months. Whilst the coal market conditions continue to be a key factor in our decisions about our long term plans, Integra Underground currently plans to mine through to the end of Longwall 18 in the Middle Liddell seam.

Surface activities at Integra Underground include the commissioning, operation and decommissioning of ventilation and gas management infrastructure as the mine progresses.

Community Update

Singleton Fire Station, NSW Fire and Rescue – Educational trailer fitted with fire props and response equipment	$11,850
Singleton Neighbourhood Centre - Donation of food, drinks and Christmas hams to their Open Door initiative	$1,085
St Catherine's Catholic College – Donation of rebuilt laptops from our operation to students in Years 5 and 6	$2,607

St Catherine's Catholic College

Integra Underground saw an opportunity to assist local families at St Catherine's Catholic College by rebuilding and donating our old laptops to students in Years 5 and 6. The school recently introduced a bring your own device (BYOD) policy for the final two years of primary school. School principal, Niamh Marzol, described the donation as a generous and wonderful gift, as all students who applied for a Glencore laptop received one in readiness for the 2021 school year.



NSW Fire and Rescue – Singleton Fire Station

Integra Underground is proud to support the NSW Fire and Rescue in Singleton with a community educational trailer fitted with fire props. The team at Singleton Fire Station work hard in our local community and we're excited to be able to provide new equipment to support their services. This educational trailer will assist families and schools for many years to come.





Rehabilitation

During 2020 rehabilitation was undertaken at one gas well, six exploration holes and surrounding areas of Ventilation Shaft 3. The 2020 rehabilitation monitoring results were an improvement on the previous years. Recent rainfall has led to growth and further vegetation establishment in these areas.

Progressive rehabilitation of gas drainage infrastructure is planned for 2021.

Integra Underground has undertaken compensatory tree planting activities associated with Modification 8 to Project Approval 08_0101. The project includes site preparation such as slashing, ripping and weed control to allow for the best possible success rate. A total of 13 800 tube stock were planted during May 2021.



Land Management

Integra Underground has a quarterly weed management program in place to treat weeds across mine surface areas. During Quarter 1 of 2021 Integra Underground targeted Galenia (*Galenia pubescencs*) infestations on both rehabilitated and buffer areas. The Integra Underground weed management plan targets weeds of national significance, environmental weeds and priority weeds within the Upper Hunter.

Singleton Neighbourhood Centre

In the spirit of giving at Christmas, Integra Underground and local butcher, Trunks Gourmet Meats, gifted 16 Christmas hams to the Singleton Neighbourhood Centre. These hams were included in Christmas hampers for local community members to enjoy during the festive season. The donation forms part of our ongoing support of the Singleton Neighbourhood Centre, with other donations of bread, eggs and drinks given to their Open Door initiative during the year.

Liddell Coal Operations

Rehabilitation



In 2020, we achieved our rehabilitation goal to shape and seed 50 hectares of previously disturbed land. Our Entrance Pit rehab slope was seeded using a drone, and the rain over the Christmas period gave us a bright green cover crop.



This year, thirty cows arrived on site in March to call Liddell home, as part of our rehabilitation requirement to show our pasture can support long-term, sustainable grazing post-mining.



The Mountain Block slope remediation project was completed in November 2020. A drone is used regularly to do fly over inspections of the slope, to identify and prevent erosion and to conduct weed management, as it starts to green up.

Community Update

Our Liddell apprentices and Mangoola apprentices went along to the Sustainability Hub in Muswellbrook to help construct 25 garden beds for a community garden. These "wicking" style of garden bed water the plants from below via a reservoir – creating a more water efficient environment for the veggies.

Upper Hunter Music Conservatorium Scholarship	$2,800
Hunter Sustainability Landcare	$4,400
Singleton Gymkhana Club	$2,375
Singleton Fire & Rescue Christmas Lolly Run	$2,000
Hebden RFS	$2,928
Lake Liddell Recreation Area	$1,211







Upper Hunter Community Centre Christmas Donation of $2000 cash and Toy Drive.

Liddell Coal Operations (LCO) staff and crew donated a loader full of gifts and packages to families in the Hunter.

Biodiversity Offsets

Weed spraying and ground preparation is underway along 16 hectares of Bowmans Creek, with 3300 tube stock to be planted during autumn and another 3000 in spring.

Approval Update

LCO's updated Mining Operation Plan was approved on the 18 March 2021. It will incorporate operations to the end of 2023, including the cessation of mining for coal. Our MOP, as well as other approvals and documents, is available on our website: www.liddellcoal.com.au

Pest Control

LCO have identified a number of pest species in our rehabilitation and offset areas, and are working closely with Local Land Services to reduce their numbers. Six feral pigs and 100 hares have been destroyed, and the wild dog and fox baiting program will run in May and June.

Mt Owen Glendell Operations

Community Update

At the completion of 2020 Mt Owen Glendell Operations (MGO) invested close to $60,000 in the local community supporting 21 local groups and will continue to support the community in 2021.

MGO also hosted a series of community coffee events to connect with neighbouring landholders and stakeholders throughout 2020. In December this event was held at the former Ravensworth Public School site and allowed us to share with the community, the final managed ruin following a fire caused by vandalism in 2019.





Glendell RL150-120 rehabilitation area facing the New England Highway

Rehabilitation

During 2020, 95 ha of rehabilitation was completed across MGO made up of 57 ha at Glendell and 38 ha at Mt Owen. Glendell seeded 35 ha of open grassland and 21 ha of open woodland areas whilst Mt Owen seeded 38 ha of open forest rehabilitation. Natural landform design continued to be incorporated into the rehabilitation process during 2020, with 13.2 ha completed on the Mt Owen North Pit rehabilitation area. To increase success in establishing Endangered Ecological Communities (EEC) species within rehabilitation areas, MGO developed seed collection nurseries within the Mt Owen rehabilitation area.



Development of site seed collection nurseries for future rehabilitation programs

Land Management

In 2020 MGO installed 78 additional nest boxes, planted 2,000 tube stock, direct seeded 23.5 hectares and completed detailed flora and fauna monitoring throughout all its offsets. So far in 2021 a further 2,200 tube stock have been planted.

MGO continued pest management activities in 2020 and management numbers are summarised in the table below.

Target Species	Number
Wild Dogs and foxes	263
Kangaroos	46
Deer	18
Rabbits	221

Approval Update

Mt Owen

The Department of Planning, Industry and Environment (DPIE) are currently finalising their assessment for MOCO MOD 6 (Narama Pipeline Realignment). This is for an upgrade and realignment of the Mount Owen to Ravensworth Operations water linkage of the Greater Ravensworth Area Water and Tailings Sharing System (GRAWTS).

Glendell

DPIE are also preparing their Project Assessment Report for Glendell Continued Operations. The report will then be provided to the Independent Planning Commission (IPC) which will initiate the IPC Determination Phase of the Government's process.

Ravensworth Complex

Land Management

Over the period, control of wild dogs have been a focus at Ravensworth Open Cut offset properties – Clifton, Hillcrest and Stewart as well as areas immediately surrounding the mine. Throughout January and February Local Land Services were onsite tracking ad trapping dogs that have been identified as bait-shy during previous baiting programs. Ten dogs were controlled during this trapping campaign.

Weed management in our offset areas has targeted Coolatai Grass, Common Pear, St Johns Wort as well as Blue Heliotrope and Silverleaf Nightshade.

Biodiversity monitoring of Ravensworth Offset properties throughout 2020 has returned some positive results, mainly due to increased rainfall, ongoing weed management and revegetation campaigns. The highlights include:

- An increase in the number of native plant species as well as a greater total number of native plants recorded. This is the first time since 2016 an increase has occurred.
- Good availability of threatened species habitat throughout all offset properties.
- Identification of 11 previously unrecorded fauna species, six of those being threatened fauna species.



The Threatened Brush-tailed Phascogale in Ravensworth North Offset



Natural Regeneration observed in Clifton

Rehabilitation

Ravensworth achieved its 2020 rehabilitation target of 70 hectares, establishing a large area of native woodland seeded to Central Hunter Grey Box Iron Bark an Endangered Ecological Community and grazing pasture. 2020 is the first good season the region has experienced in many years and has consequently contributed to fantastic germination of cover crops and native species.

Ravensworth carries out an annual rehabilitation monitoring to assess rehabilitation performance against completion criteria. Fauna monitoring undertaken in 2020 identified two pairs of threatened bird species, the Speckled Warbler (*Pyrrholaemus sagittatus*) and the Dusky Woodswallow (*Artamus cyanopterus cyanopterus*). Repeat records of the Speckled Warbler in the same location indicates the presence of suitable breeding habitat for this species.

Ravensworth's rehabilitation target for 2021 is 30 hectares of native woodland on the Western Emplacement Area.



Dusky Woodswallow in Narama Rehabilitation





Far left: Native woodland rehabilitation establishing across geomorphic natural landform

Left: Habitat stag tree on Narama rehabilitation

Ravensworth Complex

Community Update

It's been a busy start to the year with Ravensworth supporting a number of community based charities and initiatives. In Quarter 1 we donated approximately $4000 to the following:

- Westpac Helicopter Service
- Muswellbrook Hospital Auxiliary
- Singleton Heights Pre School
- Sponsorship of 2021 Kindergarten Photos

Ravensworth will host Muswellbrook Primary School in May and June as part of the Upper Hunter School Tours Program. The purpose of the program is to provide an educational opportunity for the Upper Hunter community about the coal industry through giving students and their teachers a unique opportunity to see mining operations close up.



Westpac Rescue Helicopter Community Support Liaison Officer Danny Eather and Ravensworth Complex Environment and Community officer Monique Pollock

7 South Tailings Storage Facility Capping

Tailings are the fines generated throughout the coal washing process which are pumped from the Coal Handling and Preparation Plant (CHPP) to designated tailings storage facilities (TSFs).

When storage is at capacity, a capping strategy and engineering design is developed detailing capping material requirements, layer thickness, placement methodology, and safety requirements. Ravensworth commenced capping the 7 South Tailings Storage Facility in July 2020, successfully completing the project in March 2021. The tailings dam can now be used as an overburden emplacement area with material dumped to final landform heights to be shaped and rehabilitated in accordance with our life of mine rehabilitation strategy.


7sth TSF during capping


7 South TSF prior to capping


7 South TSF capping nearing completion

For further information on any of these sites, please visit our websites or use the contact details below:

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