

Issue No) .	Action	Ravenswood Gold's Response
1. I	RID	A area	
	(a)	 A area Confirm whether the RIDA is being sought for: (i) proposed resources activities with a total proposed PLA disturbance area of 766 ha or (ii) proposed resource activities with a total proposed PLA disturbance area of 115 ha. Note: If a resource activity is deemed by a proponent to be an 'exempt resource activity' in accordance with the relevant provisions under the RPI Act, a RIDA is not required. 	The RIDA is being sought for proposed resource activities with a total proposed PLA disturbance area of 766 hectares (ha). Of this area, 115 ha is new disturbance and 651 ha was subject to specifically described existing mining activity disturbance prior to mapping of the PLA in March 2020 (Figure 1). This application includes the 651 ha of existing disturbance area to provide for future variations to the nature of activities within the area. To clarify, a number of 'exempt resource activities' exist within 651 ha of the application area however part of the purpose of this application is to provide approval for flexibility of activity location within those areas in the future. To elaborate, the 'exempt resource activities' are understood to be restricted to the specific areas mapped for specific activity types and feature names within Figure 1A of the environmental authority EPML0097013 (EA) however Ravenswood Gold intends to apply for a number of amendments to this figure in the EA in the coming months and years, the outcomes of which would not be considered 'exempt resource activities' for the purpose of the RIDA. For example, the EA previously specified that the Buck Reef West Pit was approved for disturbance in a depicted location to a total of 35 hectares, adjacent to an approved disturbance on the mine side of the acoustic bund buffer between the mine and the community, with a little more of the RIDA, the additional 5 ha of the Buck Reef West Pit is not considered 'exempt resource activities' however for the purpose of the RIDA, the additional 5 ha of the Buck Reef West Pit is not considered 'exempt resource activities' however for the purpose of the RIDA, the additional 5 ha of the Buck Reef West Pit is not considered 'exempt resource activities' for the purpose of the RIDA, the additional 5 ha of the Buck Reef West Pit is not considered 'exempt resource activities' for the purpose of the RIDA, the additional 5 ha of the Buck Reef West Pit is not considered 'exempt resource activities' for the purpose of
			Due to the inherent nature of mining, changes in technology and global economic and employment drivers, mining activities will adjust during the life of a mine and therefore the mine plan must remain flexible. As such the exact location of each specific activity or feature to exist through the life of a mine cannot be forecast with certainty. However, Ravenswood Gold has certainty on general areas of activity and some features of the mine (such as the acoustic bund) as depicted in Attachment 1.

Response to Requirement Notice – Ravenswood Gold Mine – RPI22/027



Issue No.	Action	Ravenswood Gold's Response
(b)	Confirm that the lots identified in Attachment A are the lots on which the resource activities for which a RIDA is sought are located.	Confirmed – see Attachment 1
(c)	 Provide an amended Figure 4 which includes: (i) the location of all proposed resource activities, including associated infrastructure within the proposed PLA disturbance area, for example, the location of any proposed tailings dam and future operations of the existing tailings dam, internal roads and access points to the site, processing plant and rehabilitation areas (ii) the PLA and lot boundaries (iii) a legend. 	Completed – see Attachment 1
2. Pro	posed Activities	
(a)	Provide a detailed explanation of the resource activities being proposed in the PLA.	Ravenswood Gold operates two open cut pits and a processing facility in Ravenswood. The mining process involves land clearing, grade control drilling, drilling and blasting, load and haul (via shovels and dump trucks), mechanical crushing, milling and leaching of ore and smelting to produce gold doré. The nature of gold mining and processing requires support by ancillary activities and infrastructure such as waste (general, rock and tailings) storage facilities, office buildings, workers' accommodation facilities, roads and tracks, water management and electrical infrastructure. Two large acoustic bunds form the boundary between the mining activities and the community of Ravenswood.
		Activities and associated infrastructure are described and authorised by the EA. Key features include:
		Open cut mining using truck, shovel and dozer
		Crushing and processing facility
		Stockpiles of overburden material
		Tailings storage facility



Issue No.	Action	Ravenswood Gold's Response
		Water management structures
		Administration and workshop facilities
		Environmental monitoring
		Exploration
		Rehabilitation
		Strict EA controls ensure potential impacts on neighbours are effectively managed and strong stakeholder engagement allows for feedback and where necessary information exchange and operational adjustments.
		A large portion of existing, exempt activities fall within the PLA area. The location and extent of these activities, as defined by relevant approvals at March 2020, are identified in Attachment 1 – Figure 1.
		The business-as-usual operations of a mine site necessitate a certain level of flexibility in the nature and location of activities carried out within the boundaries of the mining lease. The Ravenswood Gold mine is well designed to allow for flexible and reasonable operational certainty, with the placement of an acoustic bund to protect the township from changes to amenity impacts as the project evolves. This application relates to currently understood and reasonably foreseeable changes to existing 'exempt resource activities', including:
		 Increasing the size of the Sarsfield Pit acoustic bund in order to provide greater protection of the community from potential impacts of mining operations.
		 Addition of new mining leases, addition of surface area to existing mining leases, and inclusion of restricted land in mining leases.
		 Amendments to the size and shape of footprints associated with mine features in the EA, such as: increasing the size of the Buck Reef West Pit (from 35 ha to 40 ha), increasing the size of the Sarsfield Pit, realigning roads and tracks, installing and improving water management infrastructure such as dams and pipes and reshaping waste storage facilities.
		The indicative location and extent of proposed incremental changes to activities are identified in Attachment 1 – Figure 2.



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(b)	Provide a table identifying:	Refer to response at item 2(a)
	 (i) all proposed resource activities for which a RIDA is sought and a definition of each for the proposed resource activity, including all associated infrastructure 	Refer to Attachment 1
	 (ii) the proposed PLA surface disturbance area associated with each proposed resource activity including all associated infrastructure. 	
(c)	Provide copies or extracts of the MLs and EA referred to, which detail the authorised activities.	Copies of the EA and MLs have been provided as Attachment 3.
3. Pre	scribed solution (a) – adverse impact on development certainty	
(a)	Detail any additional infrastructure required (if any) to expand the mine and how the Charters Towers Regional Council (CTRC) will not be burdened by additional infrastructure including long term maintenance and depreciation on the infrastructure.	No additional demand will be placed on existing infrastructure or services and no additional public infrastructure is required as the proposed new activities subject of this application, the majority of which will occur behind the acoustic bund, are incremental in the context of existing mine operations and proposed activities on the township side of the acoustic bund relate to relatively small areas.
(b)	Explain the current agreements with CTRC and what additional demand will be on this infrastructure.	A number of current agreements exist with CTRC, predominantly compensation agreements, restricted land consent and notifiable road use consent associated with the grant of mining leases and undertaking of mining activities. These agreements include requirements for Ravenswood Gold and CTRC to work together on opening and closure of roads, where relevant. Interactions with existing CTRC infrastructure is predominantly associated with use of public roads. There will be no additional demand placed on infrastructure the subject of current agreements with CTRC and no expected increase in the use of public roads.
		Ravenswood Gold also has an agreement with CTRC to provide potable water to the town reticulation system on behalf of CTRC. Part of the future activities will include the construction of a new potable water treatment plant which will be funded and managed by Ravenswood Gold. The proposed new activities will not increase potable water demands on the CTRC reticulation system.



Issue No.	Action	Ravenswood Gold's Response
(c)	Provide extracts of the EA referred to in order to demonstrate that the proposed resource activities will not negatively impact on the amenity of the PLA and on land in the immediate vicinity.	Ravenswood Gold proposes to continue the operation of Ravenswood Mine in accordance with the activities authorised under the EA. The current EA conditions mitigate negative impacts on the amenity of surrounding areas by including a detailed assessment of potential impacts prior to approval, imposing human comfort limits on aspects such as air quality, noise and vibration and stipulating long-term rehabilitation requirements to ensure the area is returned to an acceptable state post-mining. Accordingly, as Ravenswood Gold will continue to operate under the EA and be subject to the same conditions, regulated by the Department of Environment and Science, the proposed activities are not expected to negatively impact on the amenity of the PLA.
		Importantly, the large majority of activities will occur on the mine side of the acoustic bund. The minor incremental advancement towards the Ravenswood township relates to modifications to the acoustic bund, which is installed to assist in minimising any potential impacts of operations on amenity.
		The only proposed activities on the town side of the acoustic bund include activities ancillary to mining support infrastructure including a small expansion of the area around the mine's accommodation facilities to enable safer roadways and parking, and potential minor changes to the sewage treatment plant that manages the accommodation facilities' sewage and irrigates to the town golf course (a rehabilitated open cut mining pit).
4. Pres	scribed solution (a) – potential impact on amenity	
(a)	Provide information regarding the <i>'incremental changes to the footprint'</i> proposed, and extent of these changes to the proposed PLA disturbance area.	This information is provided in Attachment 1. The <i>'incremental changes to the footprint'</i> stem from the fact that a number of mining activities already occur within the PLA and are exempt from RIDA requirements. The figures in Attachment 1 identifies the location of the existing acoustic bund which acts as a physical, acoustic and visual buffer between the mine and the residential area of the town. The nature of any/all mining activities occurring on the mine side of the bund are expected to have a negligible impact on the town side of the bund, due in large part to the presence of the bund. Incremental changes to the footprint include:
		- The size of the acoustic bund surrounding the Sarsfield Pit is required to be increased to ensure appropriate management of noise, air quality and vibration impacts on the community, associated with mining activities that are exempt from RIDA requirements.



Issue No.	Action	Ravenswood Gold's Response
		This activity will enhance protection the township from changes to amenity impacts as the project evolves therefore enhance livability.
		- Filling some 'holes' in mining leases associated with previously restricted land and/or excluded surface area. Exempt activities occur in areas surrounding these 'holes' therefore future similar activities within the 'holes' will have a negligible incremental impact.
		- Addition of two new mining leases (one 0.24 hectares and one 13 hectares) to facilitate the increased size of the Sarsfield Pit acoustic bund mentioned above and provide for a negligible adjustment to the shape of the Sarsfield Pit.
		- Allowance for minor adjustments to disturbance types and locations from time to time, on the mine side of the bund, within the overall boundary of already exempt and current application disturbance areas. For example, reshaping of the Buck Reef Pit and adjacent laydown yard to allow the pit size to increase slightly and the laydown yard size decrease, or relocation of a road if future activities require it to be wider or take a different route for safety or operational reasons.
(b)	Provide information regarding the proposed resource activities and their locations to demonstrate their nature and scale and the extent, if any, of their intrusion on the character of the area or additional modifications to the landscape.	Notwithstanding the response at item 2(a), the location of all proposed activities are provided in Attachment 1. For the reasons provided at item 4(e), these activities will not negatively impact on the area. Importantly, the acoustic bund, which is designed to protect the township from amenity impacts, will mitigate any potential intrusion to the character of the area and modifications to the landscape.
(c)	Provide information regarding any changes to the volume or nature of traffic on the roads in the PLA as a result of, for example, additional employees or additional haulage trucks to cater for the expansion of the mine, and if so, any additional loading on infrastructure and proposed measures to address this.	There will be no changes to the volume/nature of traffic on roads in the PLA as there will be no material increase in employees or equipment movement to cater for continuation of mining activities.
(d)	Provide information regarding the location of the proposed resource activities so as to demonstrate that the proposed resource activities will not impact on the existing linkages between various parts of the PLA, for example, between residential areas and employment areas	The location of proposed activities are provided for in Attachment 1. As the vast majority of Ravenswood Gold's proposed activities will occur on the southern side of the township and behind the acoustic bund, existing linkages between residential and employment areas will not be impacted.



Issue No.	Action	Ravenswood Gold's Response
(e)	 Provide information regarding the nature and location of the proposed resource activities within the PLA so as to demonstrate that there will be: (i) no material change to the outlook from key vistas, nearby sensitive uses, or public facilities and tourist attractions (ii) no or negligible noticeable effects on the visual prominence of the site or further impact on landscape values or visual amenity 	Mining has been part of the Ravenswood community since the township was founded because of the discovery of gold in 1868. The existing landscape of the town is heavily influence by historic and modern mining activities, and forms part of the key tourism economy for the town. The proposed activities within the PLA are incremental to exempt activities and will not materially change the outlook.
(f)	Provide information regarding any proposed landscaping and	Refer to responses at items 4(b) and 4(e).
	enhancements	As with the existing Sarsfield Pit acoustic bund, the intent is to vegetate the external batters of all acoustic bunds, environmental conditions permitting, to blend into the natural landscape. This process includes seeding with native grasses and planting of native tube stock as appropriate.
		The rehabilitation requirements of the mine include leaving the site in a safe, stable, non-polluting state, including revegetation of relevant areas to represent a native ecosystem.
		Images of areas that are at various stages of rehabilitation progress are provided in Attachment 2.
5. Pres	scribed solution (b) – community benefits/opportunities	
(a)	Identify the intersection upgrades and extent, including partnerships, ongoing maintenance and depreciation of the asset, and how these intersection upgrades are being undertaken in response to impacts of the proposed resource activities on the volume or nature of traffic on the roads in the PLA.	Currently, Ravenswood Gold is coordinating four State road upgrade projects including three intersections and one creek crossing, as part of existing activities. These upgrades will facilitate safer traffic movement within the PLA. These upgrades are not associated with the proposed activities the subject of this RIDA. As there will be negligible changes to the volume and nature of traffic on the roads in the PLA in response to the proposed activities, further intersection upgrades will not be required.
(b)	Confirm which contributions are constructed or existing assets and which are proposed, so as to demonstrate that the carrying out of the proposed resource activities subject of the RIDA is likely to result in community benefits and opportunities.	 As part of existing (exempt) activities, the mine has been involved in the following major projects: Funded the relocation of the local primary school including construction of new buildings and relocation and refurbishment of existing heritage buildings. Funded significant archaeological studies into historic activities in the township and safe preservation and relocation of a number of significant historic mining artefacts



Issue No.	Action	Ravenswood Gold's Response
		 Coordinated projects with the local Ravenswood Restoration and Preservation Association and Charters Towers Regional Council to enhance the town's tourism appeal through installation of audio signs around town as an educational tool for local heritage and support of Ravenswood's Art Trial and upgrading the town's Train Carriage Information Centre including renovations of the building, updating signage and the provision of a touch-screen advertising experiences that the town has to offer to visitors.
		- Constructed and continue to operate a community golf course and club house.
		Proposed projects to be supported in the near future, in association with ongoing operations and in conjunction with Charters Towers Regional Council (CTRC), where appropriate, include:
		 Closure of the existing community landfill and replacement with a more environmentally friendly waste transfer station.
		- Construction of a new, modern, potable water treatment plant.
		 Upgrade of showground facilities, including improving the public camping ground's appeal and capacity for tourists by constructing a new kitchen and ablution facilities.
		 Installation of a new public lookout and parking facilities to provide a viewing platform over mining operations, providing an opportunity to enhance the town's tourism appeal.
		 Developing a relocated miner's cottage and historic artefacts from the Buck Reef West mining area into a public museum and heritage precinct, known as the 'Stockham House museum'. The museum will contain general history of the town and mining area, as well as the history of women on the goldfields (encompassing outcomes of a local PhD study), providing an opportunity to enhance the town's tourism appeal.
		Ongoing operation of the mine will facilitate:
		 Continued contributions of around or above \$250,000 per annum to the local community through ongoing support of local organisations, donations, sponsorships, tourism development and community events.
		 Continued provision of local emergency medical services, town maintenance and other ancillary support services.
		- Continued provision of potable water supply services to the town on behalf of the CTRC.



Issue N	lo.	Action	Ravenswood Gold's Response
6.	Proj	posed rehabilitation/restoring of disturbance areas	
	(a)	Provide information regarding proposed rehabilitation/restoration of disturbance areas in the PLA once the proposed resource activities are decommissioned.	 Ravenswood Gold will be required to rehabilitate all areas disturbed by the proposed activities in accordance with the EA conditions. Schedule G of the EA contains 'Table G1 – Final Land Use and Rehabilitation Approval Schedule.' This table provides the final land use and rehabilitation approval schedule for Ravenswood Gold's activities. Specifically, conditions G1 and G2 of the EA provide how rehabilitation objectives will be developed, documented, implemented and achieved. All rehabilitation/restoration of disturbed areas are prescribed in the EA and can be relied upon.



Attachment 1 – Updated Figures and Application Area details



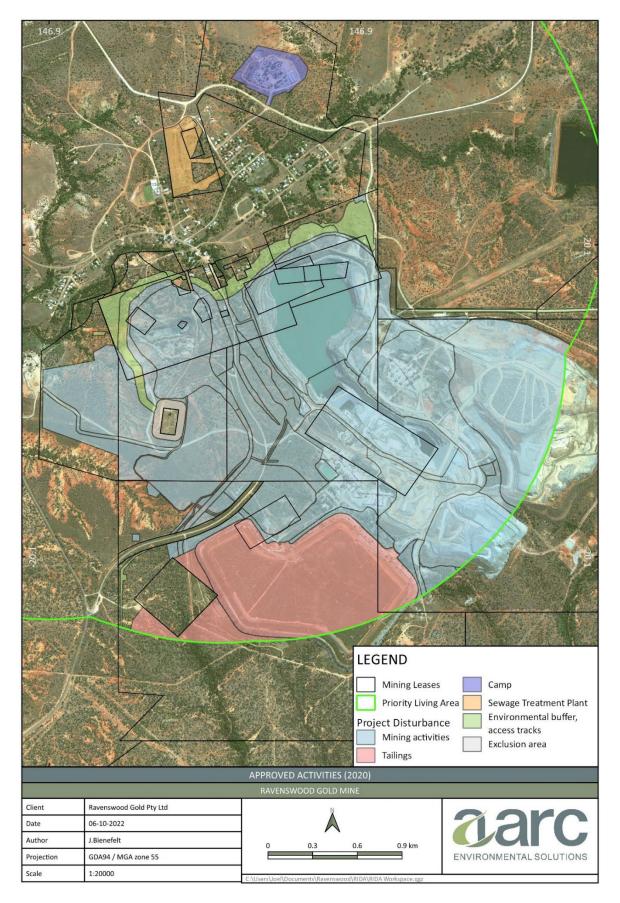


Figure 1. Existing mining activities prior to mapping of PLA in March 2020.



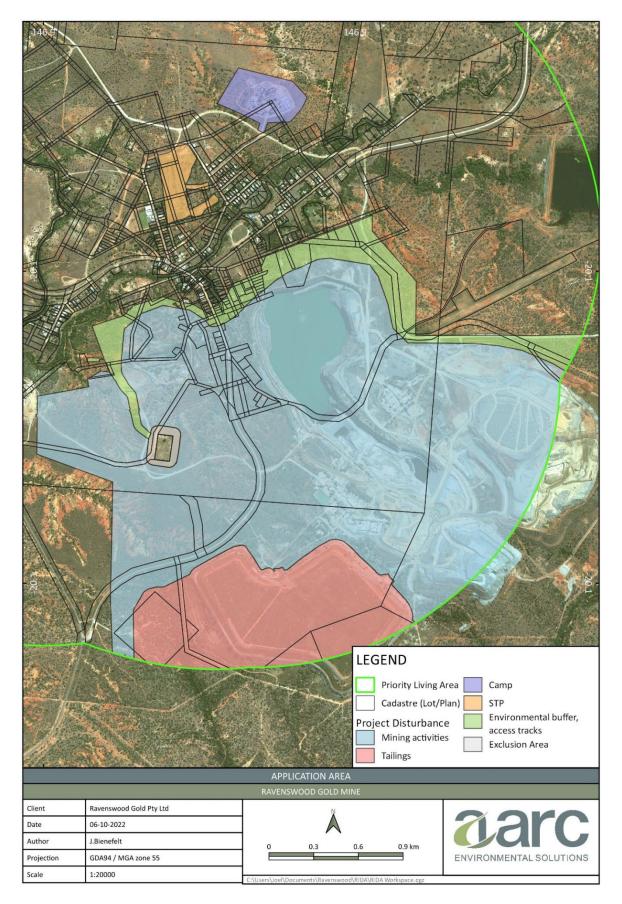


Figure 2. Total application area for which approval is being sought.



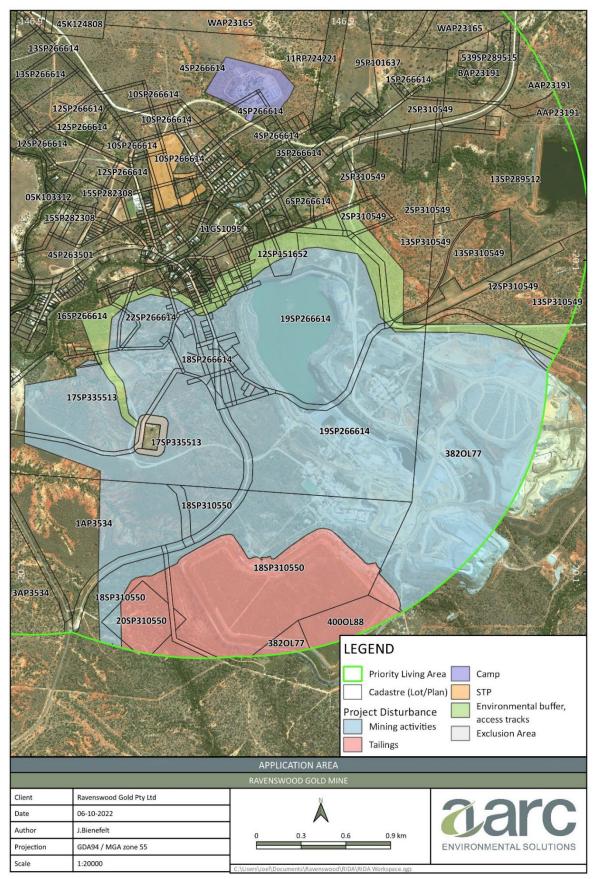


Figure 3. Real property identification information for application area.



Table 1. Definitions of the propose	d activities within the application area.
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Activity type	Proposed resource activity	Real property identification		
Mining activities	Mining gold ore, chemical storage, metal smelting and refining, mineral processing, waste disposal, resource recovery and transfer facility operation, overburden stockpiles, water management, administration and workshop facilities, exploration, rehabilitation, possible future mining areas, roads, infrastructure laydown.	12SP151652, 14GS696, 16SP266614, 17SP335513, 180MPH25918, 18SP266614, 18SP310550, 19SP266614, 1AP15923, 1AP3534, 1MPH25957, 1MPH32554, 1MPH35636, 1MPH4670, 1MPH4711, 1MPH4714, 1MPH4720, 1R16230, 1R16235, 1SP273486, 20SP310550, 20MPH25919, 21MPH25919, 22GS43, 22MPH25919, 22SP266614, 2R16229, 382OL77, 3R16236, 4MPH25920, 76MPH25920		
Tailings	Tailings Storage Facility, topsoil stockpiles, roads	18SP310550, 20SP310550, 382OL77, 400OL88		
Environmental buffer, access tracks	Environmental buffer, access tracks and roads, acoustic bunds, fenceline	113MPH25920, 114MPH25920, 115MPH25920, 116MPH25920, 116R16210, 117MPH25920, 117R16210, 118R16210, 119R16210, 12SP151652, 13SP310549, 16SP266614, 17SP335513, 18SP266614, 19SP266614, 1MPH14402, 1MPH25920, 1MPH31120, 1MPH4670, 1MPH4707, 1MPH4711, 1MPH4720, 1SP264429, 201R16210, 202R16210, 203R16210, 22SP266614, 23SP266614, 24SP266614, 2MPH25920, 2MPH31120, 2SP310549, 382OL77, 3MPH25920, 4MPH25920, 51MPH25920, 52MPH25920, 53MPH25920, 58MPH25920, 59MPH25920, 60MPH25920, 61MPH25920, 6SP266614, 71MPH25920, 72MPH25920, 73MPH25920, 74MPH25920, 75MPH25920, 76MPH25920		
STP	Sewage treatment plant, workshop, historic mining activities	10SP266614, 9SP266614		
Camp	Mining accommodation, kitchen facilities, administration buildings	4SP266614		



Table 2. Details of the proposed activities within the application area.	

Activity type	Real property identification	Total lot area (ha)	Application area within lot (ha)	Lot covered by PLA (%)	Application area within lot (%)	
Mining activities	12SP151652	5.28	1.89	100%	36%	
Mining activities	14GS696	0.83	0.83	100%	100%	
Mining activities	16SP266614	36.74	1.27	100%	3%	
Mining activities	17SP335513	138.61	92.28	100%	67%	
Mining activities	180MPH25918	0.20	0.20	100%	100%	
Mining activities	18SP266614	9.46	9.37	100%	99%	
Mining activities	18SP310550	193.40	61.48	75%	31.8% 95% 100% 42%	
Mining activities	19SP266614	190.73	180.69	100%		
Mining activities	1AP15923	0.10	0.10	100%		
Mining activities	1AP3534	63.29	26.66	100%		
Mining activities	1MPH25957	0.41	0.41	100%	100%	
Mining activities	1MPH32554	0.20	0.20		100%	
Mining activities	1MPH35636	0.12	0.12	100%	100%	
Mining activities	1MPH4670	0.10	0.10	100%	100%	
Mining activities	1MPH4711	0.16	0.16	100%	100%	
Mining activities	1MPH4714	0.41	0.41	100%	100%	
Mining activities	1MPH4720	0.01	0.01	100%	100%	



Activity type	Real property identification	Total lot area (ha)	Application area within lot (ha)	Lot covered by PLA (%)	Application area within lot (%)	
Mining activities	1R16230	1.29	1.29	100%	100%	
Mining activities	1R16235	0.20	0.20	100%	100%	
Mining activities	1SP273486	0.43	0.43	100%	100%	
Mining activities	20SP310550	15.01	1.75	100%	12%	
Mining activities	20MPH25919	0.10	0.10	100%	100%	
Mining activities	21MPH25919	0.10	0.10	100%	100%	
Mining activities	22GS43	0.82		100%	100%	
Mining activities	22MPH25919	0.10	0.10	100%	100%	
Mining activities	22SP266614	14.84	10.71	100%	72%	
Mining activities	2R16229	0.20	0.20	100%	100%	
Mining activities	382OL77	1203.00	130.66	12%	11%	
Mining activities	3R16236	0.19	0.19	100%	100%	
Mining activities	4MPH25920	0.08	0.01	100%	15%	
Mining activities	76MPH25920	0.15	0.11	100%	74%	
Mining activities	N/A	N/A	34.28	N/A	N/A	
Tailings	18SP310550	193.43	86.61	75%	45%	
Tailings	20SP310550	15.01	13.58	98%	90%	
Tailings	3820L77	1203.00	7.37	12%	1%	
Tailings	400OL88	81.10	13.44	100%	17%	



Activity type	Real property identification	Total lot area (ha)	Application area within lot (ha)	Lot covered by PLA (%)	Application area within lot (%)
Tailings	N/A	N/A	2.42	N/A	N/A
Environmental buffer, access tracks	113MPH25920	0.10	0.01	100%	10%
Environmental buffer, access tracks	114MPH25920	0.05	0.03	100%	70%
Environmental buffer, access tracks	115MPH25920	0.09	0.09	100%	100%
Environmental buffer, access tracks	116MPH25920	0.08	0.08	0.08 100%	
Environmental buffer, access tracks	116R16210	0.10	0.03	100%	34%
Environmental buffer, access tracks	117MPH25920	0.10	0.10	100%	100%
Environmental buffer, access tracks	117R16210	0.06	0.06	100%	100%
Environmental buffer, access tracks	118R16210	0.07	0.07	100%	100%
Environmental buffer, access tracks	119R16210	0.09	0.09	100%	100%
Environmental buffer, access tracks	12SP151652	5.28	3.28	100%	62%
Environmental buffer, access tracks	13SP310549	117.23	4.19	29%	4%
Environmental buffer, access tracks	16SP266614	36.74	5.49	100%	15%
Environmental buffer, access tracks	17SP335513	138.61	3.41	100%	3%
Environmental buffer, access tracks	18SP266614	9.46	0.08	100%	1%



Activity type	Real property identification	Total lot area (ha)	Application area within lot (ha)	Lot covered by PLA (%)	Application area within lot (%)
Environmental buffer, access tracks	19SP266614	190.73	9.99	100%	5%
Environmental buffer, access tracks	1MPH14402	0.00	0.00 0.00 1		100%
Environmental buffer, access tracks	1MPH25920	0.40	0.40	100%	100%
Environmental buffer, access tracks	1MPH31120	0.41	0.38	100%	94%
Environmental buffer, access tracks	1MPH4670	0.11	0.01	100%	9%
Environmental buffer, access tracks	1MPH4707	0.40	0.36	100%	88%
Environmental buffer, access tracks	1MPH4711	0.39	0.23	100%	59%
Environmental buffer, access tracks	1MPH4720	0.20	0.19	100%	95%
Environmental buffer, access tracks	1SP264429	0.28	0.10	100%	36%
Environmental buffer, access tracks	201R16210	0.08	0.04	100%	54%
Environmental buffer, access tracks	202R16210	0.04		100%	32%
Environmental buffer, access tracks	203R16210	0.09	0.01	100%	7%
Environmental buffer, access tracks	22SP266614	14.84	1.78	100%	12%
Environmental buffer, access tracks	23SP266614	2.15	0.63	100%	29%
Environmental buffer, access tracks	24SP266614	0.06	0.11	100%	169%



Activity type	Real property identification	Total lot area (ha)	Application area within lot (ha)	Lot covered by PLA (%)	Application area within lot (%)
Environmental buffer, access tracks	2MPH25920	0.21	0.21	100%	100%
Environmental buffer, access tracks	2MPH31120	0.12 0.12		100%	100%
Environmental buffer, access tracks	2SP310549	71.23	8.55	100%	12%
Environmental buffer, access tracks	382OL77	1203.00	4.33	12%	0%
Environmental buffer, access tracks	3MPH25920	0.14	0.14	100%	100%
Environmental buffer, access tracks	4MPH25920	0.51	0.49	100%	98%
Environmental buffer, access tracks	51MPH25920	0.07	0.05	100%	67%
Environmental buffer, access tracks	52MPH25920	0.10	0.08	100%	85%
Environmental buffer, access tracks	53MPH25920	0.11	0.03	100%	25%
Environmental buffer, access tracks	58MPH25920 59MPH25920	0.11	0.04	100%	33%
Environmental buffer, access tracks		0.11 0.03 0.11 0.03	0.03		31%
Environmental buffer, access tracks	60MPH25920		020 0.11 0.03 100%	0.03 100%	100%
Environmental buffer, access tracks	61MPH25920	0.17	0.05	100%	31%
Environmental buffer, access tracks	6SP266614	8.04	1.31	100%	16%
Environmental buffer, access tracks	71MPH25920	0.15	0.15	100%	100%



Activity type	Real property identification	Total lot area (ha)	Application area within lot (ha)	Lot covered by PLA (%)	Application area within lot (%)			
Environmental buffer, access tracks	72MPH25920	0.14	0.14	100%	100%			
Environmental buffer, access tracks	73MPH25920 74MPH25920	0.13	0.13 100%		0.13	100%	100%	
Environmental buffer, access tracks			0.12	100%	100%			
Environmental buffer, access tracks	75MPH25920	0.11	0.11	100%	100%			
Environmental buffer, access tracks	76MPH25920	0.04	0.04	100%	100%			
Environmental buffer, access tracks	N/A	N/A	A 11.69 N/A		11.69	N/A	N/A	
STP	10SP266614	26.84	5.73	100%	21%			
STP	9SP266614	8.70	8.70 3.21 100%		37%			
STP	N/A	N/A	2.44	N/A	N/A			
Camp	4SP266614	95.00	15.17	100%	16%			
Camp	N/A	N/A	0.73	N/A	N/A			



Attachment 2 – Images





Figure 1. View of mining operations (within PLA) looking towards community (indicative area circled).



Figure 2. View of the Buck Reef West Pit and acoustic bund looking in a north-west direction, towards the community.

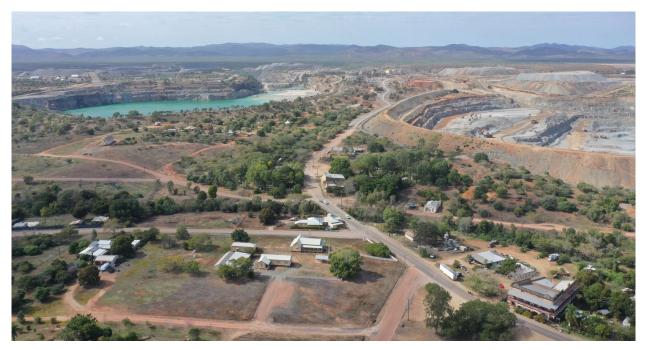


Figure 3. View of existing mining activities looking from above the centre of the Ravenswood township, towards the south.





Figure 4. Hydromulching outer batter (community side) of acoustic bund to improve visual amenity.



Figure 5. Established rehabilitation of the Tailings Storage Facility looking in a north-easterly direction towards the Sarsfield Pit.





Figure 6. Sarsfield Pit with rehabilitated acoustic bund looking towards community.



Figure 7. Planting of tube stock for visual screening of mining activities between operations and community.



Attachment 3 – Copy of EPML00979013 and ML Resource Authority Reports

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Table of Contents

Table of Contents	2
Permit details	3
Holders	4
Area	5
Term history	5
Native title	5
Purpose and minerals	6
Related permits	6
Financial	6
Activities	6



 Permit details 	
Permit ID:	ML 1337
Status:	Granted
Lodged date:	05/07/1966
Grant date:	04/04/1974
Commencement date:	01/05/1974
Expiry date:	30/04/2028
Current term:	19 years
Mining notice issued:	
Work program type:	
Conditions:	
Locality:	TOWNSHIP OF RAVENSWOOD
Remarks:	
Act permit granted under:	
Act now administered under:	Mneral Resources Act 1989



- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	23/12/1987	11/09/2020	
	MOUNT ISAMINES LIMITED	100.00000000000	Former	14/05/1987	23/12/1987	
	GOLDEN HILL MINING CO PTY LTD	100.00000000000	Former	17/07/1980	14/05/1987	
	JAVES, Irene Mavis	100.00000000000	Former	07/11/1974	17/07/1980	
	MOTHER LODE PTYLTD	100.00000000000	Former	23/07/1969	07/11/1974	
	HEDLEFS, Robert John	50.00000000000	Former	05/07/1966	23/07/1969	
	MOREN, Richard Walter	50.00000000000	Former	05/07/1966	23/07/1969	



✓ Area			
Location:	Mew Map		
Mining district:	Charters Towers		
Local authority:	Charters Towers Regional Council		
Area:	8.6550 Hectares		
Surface area:	8.6550		
Surface restricted area			
Exclusions:			
Marked out date:	05/07/1966 14:00:00		
Sub-blocks			
No data available			
Background land			
Land identifier	Land	Compensation	Finalised

		usage	required	T II IIIIIOCU
	LOT 12 SP151652 FH	Permit	Y	18/02/2009
	LOT 26 GS1023 RESERVE	Permit	Y	18/02/2009
	ROAD PARCEL/SEGMENTS 4/48176, 100/48176, 111/48176	Permit	Y	18/02/2009
L				

Survey plans

Plan No.	Description	Date received	Locality	Volume	Folio
MP40321	NEW CORONATION	09/05/1977	RAVENSWOOD		
MP40972	NEW CORONATION	02/06/1987	TOWN OF RAVENSWOOD		

Relinquishment details

No data available

Sub-blocks retained

No data available

- Term history										
Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act granted under			
1974 - 1988		05/07/1966	04/04/1974	01/05/1974	30/04/1988	14 years				
1988 - 2009		01/05/1987	24/02/1988	01/05/1988	30/04/2009	21 years	Mining Act 1968- 1986			
2009 - 2028	01/04/2008	15/01/2009	21/05/2009	01/05/2009	30/04/2028	19 years	Mineral Resources Act 1989			
✓ Native title										
Outcome Process										
Granted before 1 January 1994		Grant before 1 January 1994								

Registered 03/11/2020



MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT

PTYLTD to Ravenswood Gold PtyLtd.

- Purp	 Purpose and minerals 									
Minerals										
Gold										
- Related permits										
Previous	Previous permit number: ML456CHRT									
- Fina	ncial									
Rent det	tails									
Area units	s: 9									
Rate/unit a	area: \$64.80)								
- Acti	vities									
Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks				
Mortgage	346552	Registered	16/04/2021		23/04/2021	MMOL Reference:346552. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.				

13/11/2020

Change

of holder

name

333986

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Table of Contents

Table of Contents	2
Permit details	3
Holders	4
Area	5
Term history	5
Native title	5
Purpose and minerals	6
Related permits	6
Financial	6
Activities	6



- Permit details							
Permit ID:	ML 1338						
Status:	Granted						
Lodged date:	16/09/1968						
Grant date:	05/12/1974						
Commencement date:	01/01/1975						
Expiry date:	31/12/2034						
Current term:	15 years						
Mining notice issued:							
Work program type:							
Conditions:	MRA 1989						
Locality:	Approximately 9 kilometres north west of Ravenswood						
Remarks:							
Act permit granted under:	Mining Act 1898-1965						
Act now administered under:	Mineral Resources Act 1989						



- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	18/12/1996	11/09/2020	
	OGRADY, Waller Standish	100.00000000000	Former	11/12/1991	18/12/1996	
	THE NORTHERN QUEENSLAND COMPANY LIMITED (RECEIVER AND MANAGER APPOINTED)	75.00000000000	Former	13/07/1987	11/12/1991	
	THE NORTHERN QUEENSLAND COMPANY LIMITED (RECEIVER AND MANAGER APPOINTED)	65.00000000000	Former	10/09/1986	13/07/1987	
	THE NORTHERN QUEENSLAND COMPANY LIMITED (RECEIVER AND MANAGER APPOINTED)	60.000000000000	Former	04/02/1985	10/09/1986	
	OGRADY, Waller Standish	80.00000000000	Former	24/10/1983	04/02/1985	
	JAMES, Irene Mavis	80.00000000000	Former	09/03/1982	24/10/1983	
	JANES, Stanley George	10.00000000000	Former	09/03/1982	13/07/1987	
	JANES, Irene Mavis	90.00000000000	Former	21/03/1977	09/03/1982	
	OGRADY, Waller Standish	5.00000000000	Former	21/03/1977	04/02/1985	
	CROWLEY, Brian	5.00000000000	Former	21/03/1977	10/09/1986	
	JANES, Irene Mavis	100.00000000000	Former	07/11/1974	21/03/1977	
	MOTHER LODE PTY LTD	100.00000000000	Former	23/07/1969	07/11/1974	
	HEDLEFS, Robert John	100.00000000000	Former	16/09/1968	23/07/1969	
Те	nancy type: Sole Holder					



• Area											
Location:	<u>View Map</u>	<u>view Map</u>									
Mining district:	Charters To	Charters Towers									
Local authority:	Charters To	harters Towers Regional Council									
Area:	12.1400 He	.1400 Hectares									
Surface area:	12.1400	1400									
Surface restricted	area:										
Exclusions:											
Marked out date:	15/09/1968	5/09/1968 23:00:00									
Sub-blocks											
No data available											
Background la	nd										
Land identifier							and sage	Compensation required	Finalised		
LOT 46 ON GS1090						P	ermit	Y	01/03/2019		
LOT 46 ON GS1090						Δ	ccess	Y	01/03/2019		
Survey plans											
Plan No.	Description		Date received		Locality		Volume		Folio		
MP36946			20/0	6/1997	RAVENSWOOD	RAVENSWOOD					
No data available Sub-blocks reta No data available	ained										
 Term histo 	ry										
Term	Date notice issued	Date lodged		Date approved	Date commenced	Date term ends	Terr	n Act und	granted er		
1975 - 1989		16/09/19	68	05/12/1974	01/01/1975	31/12/1989	15 y	ears Mini 1965	ng Act 1898- 5		
1990 - 2004		13/10/1989		09/09/1993	01/01/1990	31/12/2004	15 years		eral ources Act 9		
2005 - 2019	02/03/2004	31/05/2004		13/10/2005	01/01/2005	31/12/2019	15 y	ears Res 1989	ources Act		
2020 - 2034		04/03/2019		26/06/2019	01/01/2020	31/12/2034	15 y	Mne ears Res 1989	ources Act		
 Native title 	•										
0 /		-									
Outcome	D 4000	Process		4004							
Granted before 23rd Dec 1996		Grant before	i Janu	iary 1994							

Registered 03/11/2020



MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT

PTYLTD to Ravenswood Gold PtyLtd.

- Purp	oose and	mineral	S							
Minerals Gold										
- Rela	Related permits									
Previous p	vious permit number: ML457CHRT									
- Fina	✓ Financial									
Rent det	ails									
Area units	: 13									
Rate/unit a	area: \$64.80)								
- Activ	vities									
Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks				
Mortgage	346552	Registered	16/04/2021		23/04/2021	MMOL Reference:346552. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.				

13/11/2020

Change

of holder

name

333986

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Table of Contents

Table of Contents	2
Permit details	3
Holders	4
Area	5
Term history	5
Native title	5
Purpose and minerals	6
Related permits	6
Financial	6
Activities	6



 Permit details 	
Permit ID:	ML 1379
Status:	Granted
Lodged date:	21/05/1973
Grant date:	28/11/1974
Commencement date:	01/12/1974
Expiry date:	30/11/2034
Current term:	20 years
Certificate of application:	24/07/1974
Work program type:	
Conditions:	Standard MRA Conditions.
Locality:	PAR RAVENSWOOD CO GLADSTONE
Remarks:	
Act permit granted under:	Mining Act 1968-1974
Act now administered under:	Mneral Resources Act 1989



- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTY LTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	02/02/1988	11/09/2020	
	MOUNT ISAMNES LIMTED	100.00000000000	Former	02/07/1981	02/02/1988	
	EASTERN COPPER MINES NL	100.00000000000	Former	19/06/1979	02/07/1981	
	QUEENSLAND ANTIMONY NL	100.00000000000	Former	28/09/1977	19/06/1979	
	MORRISON, Melvin Ellery	100.00000000000	Former	21/05/1973	28/09/1977	
Те	nancy type: Sole Holder					



 Area 													
Location:	View Map												
Mining district:	Charters Tov	wers											
Local authority:	Charters Tov	wers Regional	l Coun	icil									
Area:	12.5000 Hec	.5000 Hectares											
Surface area:	12.5000	.5000											
Surface restricted an	rea:												
Exclusions:													
Marked out date:	20/05/1973 1	/05/1973 14:00:00											
Sub-blocks No data available Background lan	d												
Land identifier		Land Compensation usage required Finalised											
LOT 12 ON SP15165	2									02/03/2015			
LOT 26 ON GS1023		Permit Y								02/03/2015			
ROAD RESERVE 48176004 Permit								Y	02/03/2015				
Survey plans													
Plan No.	Description		Date received Locality					Volume		Folio			
MP40321			09/05/1977 RAVENSWOOD										
MP40972	GOLDEN HILL		02/06/1987 TOWN OF RAVENSWOOD										
Relinquishment No data available Sub-blocks retain No data available													
 Term histor 	У												
Term	Date notice issued	Date lodg	ed	Date approved	Date commend	ced	Date term ends	s Terr	m Act und	granted er			
1974 - 1994		21/05/197	73	28/11/1974	01/12/1974	01/12/1974 30/11/1994		20 y	ears Mini 197	ng Act 1968- 4			
1994 - 2014	03/03/1994	3/03/1994 05/10/19		04/04/1996	01/12/1994 30/11/2014		20 y	ears Res 198	ources Act				
2014 - 2034		28/05/20		12/11/2015	01/12/2014 30/11/2034		20 y	ears Res 198	ources Act				
Native title													
•		_											

Outcome	Process
Granted before 1 January 1994	Grant before 1 January 1994



 Purpose and minerals 	
Minerals	
Copper Ore	
Gold	
Lead Ore	
Molybdenum Ore	
Silver Ore	
Zinc Ore	

- Related permits

Previous permit number: ML758CHRT

- Financial

Rent details

 Area units:
 13

 Rate/unit area:
 \$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346552	Registered	16/04/2021		23/04/2021	MMOL Reference:346552. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

Table of Contents	2
Permit details	3
Holders	4
Area	5
Term history	6
Native title	7
Purpose and minerals	7
Related permits	7
Financial	7
Activities	8



 Permit details 	
Permit ID:	ML 1380
Status:	Granted
Lodged date:	21/05/1973
Grant date:	28/11/1974
Commencement date:	01/12/1974
Expiry date:	30/11/2034
Current term:	20 years
Certificate of application:	05/08/1974
Mining notice issued:	28/11/2017
Work program type:	
Conditions:	Standard MRA conditions
Locality:	Approximately 1 KM South of Ravenswood
Remarks:	
Act permit granted under:	Mning Act 1968-1971
Act now administered under:	Mneral Resources Act 1989



- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

Holder name	Share %	Status	Held from	Held to	Authorised holder
* RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mne Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
MNING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	01/03/1988	11/09/2020	
MOUNT ISAMNES LIMTED	100.000000000000	Former	02/07/1981	01/03/1988	
EASTERN COPPER MNES NL	100.00000000000	Former	19/06/1979	02/07/1981	
QUEENSLAND ANTIMONY NL	100.000000000000	Former	28/09/1977	19/06/1979	
MORRISON, Melvin Ellery	100.000000000000	Former	21/05/1973	28/09/1977	
Tenancy type: Sole Holder	1				



- Area				
Location:	View Map			
Mining district:	Charters Towers			
Local authority:	Charters Towers Regional Council			
Area:	60.7900 Hectares			
Surface area:	58.5900			
Surface restricted area:				
Exclusions:	Survey Plan MP41226 identifies both the external extent of the lease together with those areas internal to ML1380 that ar	e exclusi	ons to the surfao	e area.
Marked out date:	20/05/1973 07:00:00			
Sub-blocks				
No data available				
Background land				
Land identifier		Land usage	Compensation required	Finalised
LOT 1 ON PER7215		Permit	N	
	Crossing Lot 26 on GS1023) and Aisbet Street	Permit	Y	08/07/2022
LOT 22 ON GS43	· · · · · · · · · · · · · · · · · · ·	Permit	Y	06/03/2019
LOT 3 ON R16236		Permit	Y	06/03/2019
LOT 1 ON MPH32554		Permit	Y	20/11/2018
School Street - SEGPAR 4	8178027. 48177025	Permit	Y	22/08/2018
	177012, 48177003, 48177026, 48177028, 48177032, 48177030, 48176060, 4817707, 48177068, 48177027, 48177072	Permit	Y	22/08/201
	AR 48177008, 48177033, 48177027, 48177072	Permit	Y	22/08/2018
Loop Road - SEGPAR 481		Permit	Y	22/08/2018
Elliott Street - SEGPAR 48		Permit	Y	22/08/2018
Elocate Street - SEGPAR		Permit	Y	22/08/2018
LOT 1 ON MPH4670		Permit	Y	22/08/2018
LOT 1 ON AP15923		Permit	N	21/08/201
LOT 1 ON AP5702		Permit	N	21/08/201
LOT 1 ON MPH25920		Permit	N	21/08/201
LOT 1 ON MPH31120		Permit	N	21/08/201
LOT 1 ON MPH35636		Permit	N	21/08/201
LOT 1 ON MPH4711		Permit	N	21/08/201
LOT 1 ON MPH4714		Permit	N	21/08/201
LOT 1 ON MPH4720		Permit	N	21/08/201
LOT 108 ON MPH25920		Permit	N	21/08/201
LOT 111 ON AP15754		Permit	N	21/08/201
LOT 112 ON AP15754		Permit	N	21/08/201
LOT 113 ON MPH25920		Permit	N	21/08/201
LOT 114 ON MPH25920		Permit	N	21/08/201
LOT 115 ON MPH25920		Permit	N	21/08/201
LOT 116 ON MPH25920		Permit	N	21/08/201
LOT 117 ON MPH25920		Permit	N	21/08/201
LOT 2 ON MPH25920		Permit	N	21/08/201
LOT 2 ON MPH31120		Permit	N	21/08/201
LOT 2 ON R16229		Permit	N	21/08/201
LOT 20 ON MPH25919		Permit	N	21/08/2017



Land identifier	Land usage	Compensation required	Finalised
LOT 22 ON MPH25919	Permit	N	21/08/2017
LOT 3 ON MPH25920	Permit	N	21/08/2017
LOT 4 ON MPH25920	Permit	N	21/08/2017
LOT 55 ON CP847443	Permit	N	21/08/2017
LOT 58 ON MPH25920	Permit	Ν	21/08/2017
LOT 59 ON MPH25920	Permit	N	21/08/2017
LOT 60 ON MPH25920	Permit	N	21/08/2017
LOT 61 ON MPH25920	Permit	N	21/08/2017
LOT 71 ON MPH25920	Permit	N	21/08/2017
LOT 72 ON MPH25920	Permit	N	21/08/2017
LOT 73 ON MPH25920	Permit	Ν	21/08/2017
LOT 74 ON MPH25920	Permit	N	21/08/2017
LOT 75 ON MPH25920	Permit	N	21/08/2017
LOT 76 ON MPH25920	Permit	N	21/08/2017
LOT 94 ON MPH25920	Permit	N	21/08/2017
LOT 95 ON MPH25920	Permit	N	21/08/2017
LOT 1 ON RL8581 LL	Permit	N	02/03/2015
LOT 1 ON SP273486	Permit	N	25/02/2015
LOT 1 ON SP264429	Permit	N	25/02/2015
LOT 16 ON SP266614	Permit	Y	25/02/2015
LOT 17 ON SP266614	Permit	Y	25/02/2015
LOT 18 ON SP266614	Permit	Y	25/02/2015
LOT 19 ON SP266614	Permit	Y	25/02/2015
LOT 22 ON SP266614	Permit	Y	25/02/2015
LOT 23 ON SP266614	Permit	Y	25/02/2015
LOT 24 ON SP266614	Permit	Y	25/02/2015

Survey plans

Plan No.	Description	Date received	Locality	Volume	Folio
MP40321		09/05/1977	RAVENSWOOD		
MP41010		16/03/1988	TN OF RAVENSWOOD		
MP41226	S.A.1 37.62 HA, S.A.2 52m2, S.A.3 2.281 HA, S.A.4 1436m2 & S.A.5 13.53 HA	28/08/1996	RAVENSWOOD		
MP41226	TOTAL SURFACE AREA TO BE SURRENDERED	28/08/1996	RAVENSWOOD		

Relinquishment details

No data available

Sub-blocks retained

No data available

 Term history 	1						
Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act granted under
1974 - 1994		21/05/1973	28/11/1974	01/12/1974	30/11/1994	20 years	Mining Act 1968- 1971
1994 - 2014	03/03/1994	05/10/1994	05/12/1996	01/12/1994	30/11/2014	20 years	Mneral Resources Act 1989
2014 - 2034		28/05/2014	12/11/2015	01/12/2014	30/11/2034	20 years	Mneral Resources Act 1989



 Native title 	
Outcome	Process
100% exclusive land	Exclusive Land (100%)
An agreement is reached under a "Section 31" dee	Right to Negotiate
Granted before 1 January 1994	Grant before 1 January 1994
 Purpose and minerals 	
Minerals	
Copper Ore	
Gold	
Lead Ore	
Molybdenum Ore	
Silver Ore	
Zinc Ore	
 Related permits 	
Previous permit number: ML759CHRT	
✓ Financial	
Rent details	
Area units: 61	
Rate/unit area: \$64.80	



- Activi	- Activities							
Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks		
Additional surface area	362001	Under assessment	19/10/2021					
Additional surface area	361851	Requested	19/10/2021					
Mortgage	346552	Registered	16/04/2021		23/04/2021	MVDL Reference:346552. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.		
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MVOL Reference:333986. Changed name from MNING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .		
Additional surface area	216476	Approved	21/08/2017		05/06/2019	Grant of Additional Surface Area for ML 1380 approved by the Mnister on 5/06/2019.		
Partial Surrender Of Area	961084	Closed	14/08/1996	13/11/1996	14/11/1996	PARTIAL SURRENDER OF SURFACE AREA 7.209 HAACCEPTED 14-NOV-96 AND REGISTER AMENDED ACCORDINGLY.		

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Table of Contents

Table of Contents	2
Permit details	3
Holders	4
Area	5
Term history	5
Native title	5
Purpose and minerals	6
Related permits	6
Financial	6
Activities	6



 Permit details 	
Permit ID:	ML 1394
Status:	Granted
Lodged date:	08/07/1976
Grant date:	01/03/1979
Commencement date:	01/04/1979
Expiry date:	31/03/2028
Current term:	18 years
Certificate of application:	16/09/1976
Work program type:	
Conditions:	
Locality:	RAVENSWOOD
Remarks:	
Act permit granted under:	Mning Act 1968-1976
Act now administered under:	Mneral Resources Act 1989



- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	08/04/2003	11/09/2020	
	HAOMA MINING NL	100.00000000000	Former	20/07/1998	08/04/2003	
	HAOMA NORTH WEST NL	100.00000000000	Former	11/03/1988	20/07/1998	
	STOCKHAM, Rodney George	6.25000000000	Former	11/02/1987	11/03/1988	
	WINDLEY, Brian Ronald	6.25000000000	Former	11/02/1987	11/03/1988	
	STOCKHAM, Frederick George	12.50000000000	Former	14/12/1983	11/02/1987	
	SINCLAIR, Merryl Lee	3.12500000000	Former	14/12/1983	11/03/1988	
	STOCKHAM, Gregory John	3.12500000000	Former	14/12/1983	11/03/1988	
	TAYLOR, Jennifer Marie	3.12500000000	Former	14/12/1983	11/03/1988	
	POLGA, Lorraine Dawn	-1.00000000000	Former	14/12/1983	31/12/9999	
	STOCKHAM, William Henry	25.00000000000	Former	08/07/1976	14/12/1983	
	BURNETT, Alexander	25.00000000000	Former	08/07/1976	11/03/1988	
	BURNETT, Kevin James	25.00000000000	Former	08/07/1976	11/03/1988	
	HEUIR, Raymond George	25.00000000000	Former	08/07/1976	11/03/1988	
Те	nancy type: Sole Holder					



- Area

71104	
Location:	<u>View Map</u>
Mining district:	Charters Towers
Local authority:	Charters Towers Regional Council
Area:	32.3700 Hectares
Surface area:	32.3700
Surface restricted area:	
Exclusions:	
Marked out date:	04/07/1976 11:00:00

Sub-blocks

No data available

Background land

Land identifier	Land usage	Compensation required	Finalised
Lot 382 OL77	Permit	Y	19/08/2010
LOT 26 ON GS1023 TOWN RESERVE PAR: RAVENSWOOD CO: GLADSTONE	Permit	Y	09/02/2010
Sandy Creek Road seg 45875 par 8	Access	Y	09/08/2000
LOT 18 ON AP3534 UNALLOCATED STATE LAND PAR:RAVENSWOOD CO:GLADSTONE	Permit	Ν	20/07/1999

Survey plans

Plan No.	Description	Date received	Locality	Volume	Folio
MP41007	LOCATION OF DATUM POST	04/03/1988	RAVENSWOOD	104	52
MP36566		31/05/1994	RAVENSWOOD	104	52

Relinquishment details

No data available

Sub-blocks retained

No data available

Term	Date notice	Date lodged	Date approved	Date commenced	Date term ends	Term	Act granted
	issued	Ŭ					under
1979 - 2000		08/07/1976	01/03/1979	01/04/1979	31/03/2000	21 years	Mining Act 1968 1976
2000 - 2010		23/06/1999	12/10/2000	01/04/2000	31/03/2010	10 years	Mineral Resources Act 1989
2010 - 2028	02/03/2009	08/09/2009	09/12/2010	01/04/2010	31/03/2028	18 years	Mineral Resources Act 1989

- Native title

Outcome	Process
Granted before 1 January 1994	Grant before 1 January 1994



 Purpose and minerals 	
Minerals	
Copper Ore	
Gold	
Lead Ore	
Silver Ore	
Zinc Ore	

- Related permits

Previous permit number: ML808CHRT

- Financial

Rent details

Area units:33Rate/unit area:\$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346552	Registered	16/04/2021		23/04/2021	MVOL Reference:346552. A mortgage in an interest of Ravenswood Gold PtyLtd 100.00000000000% to Global Loan Agency Services Australia Nominees PtyLimited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MVOL Reference:333986. Changed name from MNING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .
Consent Of Caveator To Dealing		Closed	27/03/2003	22/05/2003	08/04/2003	CONSENT GIVEN FOR ASSIGNMENT FROM HAOMA TO CARP GOLD.
Change of holder name	989778	Closed	20/07/1998	20/07/1998	20/07/1998	Changed name from HAOMA NORTH WEST NL to HAOMA MINING NL

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Table of Contents

Table of Contents	2
Permit details	3
Holders	4
Area	5
Term history	6
Native title	6
Purpose and minerals	6
Related permits	6
Financial	6
Activities	7



 Permit details 	
Permit ID:	ML 1395
Status:	Granted
Lodged date:	08/07/1976
Grant date:	21/04/1977
Commencement date:	01/05/1977
Expiry date:	30/04/2028
Current term:	10 years
Certificate of application:	10/09/1976
Work program type:	
Conditions:	MRA 1989
Locality:	1 KILOMETRE NORTH OF RAVENSWOOD
Remarks:	
Act permit granted under:	Mning Act 1968-1976
Act now administered under:	Mneral Resources Act 1989



- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) PtyLtd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	13/12/1988	11/09/2020	
	ELLIOT, Maurice James	100.00000000000	Former	24/11/1988	13/12/1988	
	ELLIOT, Maurice James	33.333300000000	Former	15/04/1987	24/11/1988	
	HERBERT, Brian John	33.333300000000	Former	15/04/1987	24/11/1988	
	SHANNON, Brian John	33.333300000000	Former	15/04/1987	24/11/1988	
	FERGUSON, Keith Boyd	100.000000000000	Former	08/07/1976	15/04/1987	



Location:	<u>View Map</u>	<u>View Map</u>				
Mining district:	Charters Towers	Charters Towers				
Local authority:	Charters Towers Regional	l Council				
Area:	2.0000 Hectares	2.0000 Hectares				
Surface area:	2.0000					
Surface restricted area						
Exclusions:						
Marked out date:	03/07/1976 01:00:00					
Sub-blocks						
lo data available						
Background land						
Land identifier				Land usage	Compensation required	Finalised
LOT 10 ON SP266614				Permit	Y	06/03/2019
Road - SegPar 48175034 Access					Y	22/07/2008
Road - SegPar 48175034 Permit Y 22/07/					22/07/2008	
Road - SegPar 4817503	4			Permit	1	
				Permit Permit	Y	22/07/2008
Road - SegPar 4817503 Road - SegPar 4817503 Road - SegPar 4817503	1					22/07/2008
Road - SegPar 4817503	1			Permit	Y	
Road - SegPar 4817503 Road - SegPar 4817503 Survey plans	1	Date received	Locality	Permit	Y Y	
Road - SegPar 4817503 Road - SegPar 4817503 Survey plans Plan No.	1 3	Date received 21/01/1987	Locality RAVENSWOOD	Permit Permit	Y Y	22/07/2008
Road - SegPar 4817503 Road - SegPar 4817503 Survey plans Plan No. MP35097	1 3 Description LOCATION OF DATUM			Permit Permit	Y Y	22/07/2008
Road - SegPar 4817503 Road - SegPar 4817503 Survey plans Plan No. MP35097	1 3 Description LOCATION OF DATUM POST KEERSON	21/01/1987	RAVENSWOOD	Permit Permit	Y Y	22/07/2008

No data available



▪ Term history							
Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act granted under
1977 - 1998		08/07/1976	21/04/1977	01/05/1977	30/04/1998	21 years	Mining Act 1968- 1976
1998 - 2003	08/07/1997	26/02/1998	28/01/1999	01/05/1998	30/04/2003	5 years	Mineral Resources Act 1989
2003 - 2008	24/12/2002	24/04/2003	02/09/2004	01/05/2003	30/04/2008	5 years	Mineral Resources Act 1989
2008 - 2013	02/04/2007	18/01/2008	03/09/2009	01/05/2008	30/04/2013	5 years	Mineral Resources Act 1989
2013 - 2018	02/04/2012	28/09/2012	04/02/2013	01/05/2013	30/04/2018	5 years	Mineral Resources Act 1989
2018 - 2028		25/08/2017	26/06/2019	01/05/2018	30/04/2028	10 years	Mneral Resources Act 1989

- Native title

Gold

Outcome	Process
Granted before 1 January 1994	Grant before 1 January 1994

Purpose and minerals
Minerals
Copper Ore

Gold		
Lead Ore		
Silver Ore		
Zinc Ore		

- Related permits

Previous pe	ermit number:	ML809CHRT
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- Financial						
Rent details						
Area units:	2					
Rate/unit area:	\$64.80					



- Activities										
Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks				
Mortgage	346552	Registered	16/04/2021		23/04/2021	MMOL Reference:346552. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.00000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.				
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .				
Special Conditions		Closed	26/02/1998	26/03/1998	23/11/1998					

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Table of Contents

Table of Contents	2
Permit details	3
Holders	4
Area	5
Term history	5
Native title	5
Purpose and minerals	6
Related permits	6
Financial	6
Activities	6



- Permit details							
Permit ID:	ML 1412						
Status:	Granted (Renewal Lodged)						
Lodged date:	29/06/1979						
Grant date:	15/01/1981						
Commencement date:	01/02/1981						
Expiry date:	31/01/2023						
Current term:	21 years						
Certificate of application:	14/02/1980						
Work program type:							
Conditions:							
Locality:	PAR RAVENSWOOD CO GLADSTONE						
Remarks:							
Act permit granted under:	Mning Act 1968-1980						
Act now administered under:	Mineral Resources Act 1989						



- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) PtyLtd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
ł	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTY LTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	01/03/1988	11/09/2020	
	MOUNT ISAMNES LIMITED	100.00000000000	Former	09/08/1983	01/03/1988	
	CARPENTARIA EXPLORATION COMPANY PTY LTD	100.00000000000	Former	29/06/1979	09/08/1983	



- Area												
Location:	<u>View Map</u>	View Map										
Mining district:	Charters To	Charters Towers										
Local authority:	Charters To	Charters Towers Regional Council										
Area:	2.0240 Hec	2.0240 Hectares										
Surface area:	2.0240	2.0240										
Surface restricted ar	ea:											
Exclusions:												
Marked out date:	28/06/1979	14:15:00										
Sub-blocks												
No data available												
Background land	d											
Land identifier						Land usage	Compensation required	Finalised				
Road Reserves Segpa	ars: 48178038 (S	unset St); 4817	8034 (Grant St); 481780	20 (School St); 481781	40	Permit	Y					
LOT 16 ON SP266614	ļ					Permit	Y					
LOT 22 ON SP266614	1					Permit	Y					
Survey plans												
Plan No.	Description		Date received	Locality		Volum	e F	Folio				
MP41010			16/03/1988	TN OF RAVENSW	OOD	93	4	8				
Relinquishment	details											
No data available												
Sub-blocks retai	ned											
No data available												
✓ Term history	y											
Term	Date notice issued	Date lodge	d Date approved	Date commenced	Date term ends	Term	Act graunder	anted				
1981 - 2002		29/06/1979	9 15/01/1981	01/02/1981	31/01/2002	21 yea	rs Mining 1980	Act 1968-				
2002 - 2023	31/03/2001 05/09/2001 09/10/2003 01/02/2002 31/01/2023 21 years R						rs Resou 1989	l Irces Act				
 Native title 												
		_										
Outcome	100 /	Process										
Granted before 1 January 1994 Grant before 1 January 1994												



Purpose and minerals
<i>linerals</i>
Sismuth Ore
Cobalt Ore
Copper Ore
Sold
ead Ore
silver Ore
Tungsten / Wolfram / Scheelite
inc Ore

- Related permits

Previous permit number: ML863CHRT

- Financial

Rent details

Area units:3Rate/unit area:\$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346557	Registered	16/04/2021		23/04/2021	MMOL Reference:346557. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



 Permit details 	- Permit details							
Permit ID:	ML 1416							
Status:	Granted							
Lodged date:	08/04/1980							
Grant date:	14/05/1987							
Commencement date:	01/06/1987							
Expiry date:	31/05/2023							
Current term:	15 years							
Certificate of application:	09/12/1980							
Work program type:								
Conditions:								
Locality:	1KMEAST OF RAVENSWOOD							
Remarks:								
Act permit granted under:	Mning Act 1968-1986							
Act now administered under:	Mneral Resources Act 1989							

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	19/05/1988	11/09/2020	
	CARPENTARIA EXPLORATION COMPANY PTY LTD	100.00000000000	Former	08/04/1980	19/05/1988	
Te	nancy type: Sole Holder					



Location:	<u>View Map</u>									
Mining district:	Charters To	wers								
Local authority:	Charters To	wers Regional Co	uncil							
Area:	1.9750 Hec	9750 Hectares								
Surface area:	1.9750	1750								
Surface restricted	area:									
Exclusions:										
Marked out date:	07/04/1980	10:35:00								
Sub-blocks lo data available Background la	nd						0			
Land identifier						and sage	Compensation required	Finalised		
LOT 26 ON GS1023	B PAR RAVENSWOO	D CO GLADSTON	E		A	ccess	Y	22/07/200		
LOT 26 ON GS1023	PAR RAVENSWOO	D CO GLADSTON	E		P	ermit	Y	22/07/200		
Survey plans										
Plan No.	Description	Da	te received	Locality		Volu	me	Folio		
MP40972	BUCK NO 1		te received /06/1987	Locality TOWN OF RAVEN	SWOOD	Volu	me	Folio		
MP40972 Relinquishmen Io data available Sub-blocks reta Io data available	BUCK NO 1			-	ISWOOD	Volu	me	Folio		
Plan No. MP40972 Relinquishmen No data available Sub-blocks reta No data available • Term histo Term	BUCK NO 1			-	ISWOOD	Volu	Actor	granted		
VP40972 Relinquishmen to data available Sub-blocks reta to data available • Term histo	BUCK NO 1 at details ained	02	/06/1987	TOWN OF RAVEN		Terr	n Act g unde	granted er ng Act 1968-		
MP40972 Relinquishmen lo data available Sub-blocks reta lo data available • Term histo Term	BUCK NO 1 at details ained	Date lodged	Date approved	TOWN OF RAVEN	Date term ends	Terr 21 y	m Act g unde ears Mnir 1986 Mne	granted er ng Act 1968- s ral pources Act		
MP40972 Relinquishmen lo data available Sub-blocks reta lo data available Term histo 1987 - 2008 2008 - 2023	BUCK NO 1 at details ained Date notice issued 01/05/2007	02 Date lodged 08/04/1980	106/1987 Date approved 14/05/1987	TOWN OF RAVEN	Date term ends 31/05/2008	Terr 21 y	m Act g unde ears Mnir 1986 ears Mne Reso	granted er ng Act 1968- s ral pources Act		
MP40972 Relinquishmen lo data available Gub-blocks reta lo data available Term 1987 - 2008 2008 - 2023	BUCK NO 1 at details ained Date notice issued 01/05/2007	02 Date lodged 08/04/1980	106/1987 Date approved 14/05/1987	TOWN OF RAVEN	Date term ends 31/05/2008	Terr 21 y	m Act g unde ears Mnir 1986 ears Mne Reso	granted er ng Act 1968- s ral pources Act		



- Purpose and minerals
Minerals
Bismuth Ore
Cobalt Ore
Copper Ore
Gold
Lead Ore
Silver Ore
Tungsten / Wolfram / Scheelite
Zinc Ore

- Related permits

Previous permit number: ML889CHRT

- Financial

Rent details

Area units: 2 Rate/unit area: \$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346557	Registered	16/04/2021		23/04/2021	MMOL Reference:346557. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees PtyLimited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



 Permit details 	
Permit ID:	ML 1417
Status:	Granted
Lodged date:	08/04/1980
Grant date:	14/05/1987
Commencement date:	01/06/1987
Expiry date:	31/05/2023
Current term:	15 years
Certificate of application:	09/12/1980
Work program type:	
Conditions:	
Locality:	1KMEAST OF RAVENSWOOD
Remarks:	
Act permit granted under:	Mning Act 1968-1986
Act now administered under:	Mneral Resources Act 1989

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	20/05/1988	11/09/2020	
	CARPENTARIA EXPLORATION COMPANY PTY LTD	100.00000000000	Former	08/04/1980	20/05/1988	
Te	nancy type: Sole Holder					



Location:	<u>Mew Map</u>								
Mining district:	Charters To	harters Towers							
Local authority:	Charters To	harters Towers Regional Council							
Area:	1.1840 Hect	1840 Hectares							
Surface area:	1.1840	840							
Surface restricted are	ea:								
Exclusions:									
Marked out date:	07/04/1980	10:40:00							
Sub-blocks									
No data available									
Background land	l								
Land identifier						and Isage	Compensation required	Finalised	
LOT 26 ON GS1023 PA	AR RAVENSWOO	DD CO GLADSTO	NE		Α	ccess	Y	22/07/2008	
LOT 26 ON GS1023 PA	AR RAVENSWOO	DD CO GLADSTO	NE		P	Permit	Y	22/07/2008	
Survey plans									
Diam No.	Description	Date received Locality Volume Folio							
Plan No.	Description	D	ale receiveu	Locality		Voiu	me	FOIIO	
Plan No. MP40972	BUCK NO 2		2/06/1987	TOWN OF RAVEN	ISWOOD	Volu		Folio	
MP40972 Relinquishment o No data available Sub-blocks retair	BUCK NO 2			-	ISWOOD			ю	
MP40972 Relinquishment o No data available Sub-blocks retair	BUCK NO 2			-	ISWOOD				
MP40972 Relinquishment of No data available Sub-blocks retain No data available	BUCK NO 2		2/06/1987	-	SWOOD		Acto	granted	
MP40972 Relinquishment of No data available Sub-blocks retain No data available • Term history	BUCK NO 2 details ned Date notice	0:	2/06/1987	TOWN OF RAVEN		Terr	m Act ç unde	granted er ng Act 1968-	
MP40972 Relinquishment of No data available Sub-blocks retain No data available • Term history Term	BUCK NO 2 details ned Date notice	0: Date lodged	2/06/1987 Date approved	TOWN OF RAVEN	Date term ends	Terr 21 y	m Act g unde ears Mnir 1986 Mne	granted er ng Act 1968- cral burces Act	
MP40972 Relinquishment of No data available Sub-blocks retain No data available Term history 1987 - 2008	BUCK NO 2 details ned Date notice issued	0: Date lodged 0:	2/06/1987	TOWN OF RAVEN Date commenced 01/06/1987	Date term ends 31/05/2008	Terr 21 y	m Act g unde ears Mnir 1986 ears Mne Reso	granted er ng Act 1968- s ral burces Act	
MP40972 Relinquishment of No data available Sub-blocks retain No data available • Term history 1987 - 2008 2008 - 2023	BUCK NO 2 details ned Date notice issued	0: Date lodged 0:	2/06/1987	TOWN OF RAVEN Date commenced 01/06/1987	Date term ends 31/05/2008	Terr 21 y	m Act g unde ears Mnir 1986 ears Mne Reso	granted er ng Act 1968- s ral burces Act	



- Purpose and minerals
Minerals
Bismuth Ore
Cobalt Ore
Copper Ore
Gold
Lead Ore
Silver Ore
Tungsten / Wolfram / Scheelite
Zinc Ore

- Related permits

Previous permit number: ML890CHRT

- Financial

Rent details

Area units: 2 Rate/unit area: \$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346557	Registered	16/04/2021		23/04/2021	MMOL Reference:346557. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



 Permit details 	✓ Permit details						
Permit ID:	ML 1418						
Status:	Granted						
Lodged date:	08/04/1980						
Grant date:	14/05/1987						
Commencement date:	01/06/1987						
Expiry date:	31/05/2023						
Current term:	15 years						
Certificate of application:	09/12/1980						
Work program type:							
Conditions:							
Locality:	1KMEAST OF RAVENSWOOD						
Remarks:							
Act permit granted under:	Mning Act 1968-1986						
Act now administered under:	Mneral Resources Act 1989						

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder			
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes			
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020				
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	19/05/1988	11/09/2020				
	CARPENTARIA EXPLORATION COMPANY PTY LTD	100.00000000000	Former	08/04/1980	19/05/1988				
Te	Tenancy type: Sole Holder								



- Area										
Location:	View Map									
Mining district:	Charters To	owers								
Local authority:	Charters To	wers Regional	Council							
Area:	2.0400 Hec	00 Hectares								
Surface area:	2.0400	00								
Surface restricted are	a:									
Exclusions:										
Marked out date:	07/04/1980	10:50:00								
Sub-blocks										
No data available										
Background land										
Land identifier	r Land Compensation usage required Finalised							Finalised		
LOT 26 ON GS1023 PA	R RAVENSWO	OD CO GLADST	ONE		A	ccess	Y	22/07/2008		
LOT 26 ON GS1023 PA	R RAVENSWO	OD CO GLADST	ONE		P	ermit	Y	22/07/2008		
ROAD PARCEL / SEGN	/ENT 4/48176				P	ermit	Y	22/07/2008		
Survey plans										
Plan No.	Description		Date received	Locality		Volu	me	Folio		
MP40972	BUCK NO 3		02/06/1987	TOWN OF RAVEN	ISWOOD					
Relinquishment c	letails									
No data available										
Sub-blocks retair	ed									
No data available										
- Term history	,									
Term	Date notice issued	Date lodge	d Date approved	Date commenced	Date term ends	Terr	n Act g unde	granted er		
1987 - 2008		08/04/1980) 14/05/1987	01/06/1987	31/05/2008	21 y	ears Minir 1986	ng Act 1968- S		
2008 - 2023	01/05/2007	18/01/2008	3 14/05/2009	01/06/2008	31/05/2023 15 years Mineral Resources Act 1989					
 Native title 										
Outcome		Process								



Purpose and minerals	
inerals	
smuth Ore	
obalt Ore	
opper Ore	
bld	
ead Ore	
lver Ore	
ingsten / Wolfram / Scheelite	
nc Ore	

- Related permits

Previous permit number: ML891CHRT

- Financial

Rent details

Area units:3Rate/unit area:\$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346557	Registered	16/04/2021		23/04/2021	MVOL Reference:346557. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.00000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

Table of Contents	2
Permit details	3
Holders	4
Area	5
Term history	5
Native title	5
Purpose and minerals	6
Related permits	6
Financial	6
Activities	6



 Permit details 	
Permit ID:	ML 1435
Status:	Granted
Lodged date:	26/08/1981
Grant date:	25/07/1985
Commencement date:	01/08/1985
Expiry date:	31/07/2027
Current term:	21 years
Certificate of application:	22/02/1984
Work program type:	
Conditions:	
Locality:	APPROXIMATELY 8.5 KLMS NORTH-WEST OF RAVENSWOOD
Remarks:	ACCESS WA GAZETTED RD
Act permit granted under:	Mning Act 1968-1983
Act now administered under:	Mneral Resources Act 1989



- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	18/12/1996	11/09/2020	
	DE SOMER, Jerry Bob	100.00000000000	Former	25/08/1992	18/12/1996	
	THE NORTHERN QUEENSLAND COMPANY LIMITED (RECEIVER AND MANAGER APPOINTED)	100.000000000000	Former	25/10/1984	25/08/1992	
	EASTERN COPPER MINES NL	50.00000000000	Former	26/08/1981	25/10/1984	
	KINMNE MNING PTY LTD	50.00000000000	Former	26/08/1981	25/10/1984	
Те	nancy type: Sole Holder					



- Area												
Location:	<u>View Map</u>											
Mining district:	Charters To	wers										
Local authority:	Charters To	harters Towers Regional Council										
Area:	115.9000 H	15.9000 Hectares										
Surface area:	115.9000	15.9000										
Surface restricted area:	:											
Exclusions:												
Marked out date:	25/08/1981	13:00:00										
Sub-blocks												
No data available												
Background land												
Land identifier	Land Compensation usage required Finalised											
Lot 17 GS964 Parish Ray	64 Parish Ravenswood Co Gladstone Permit Y 10/08/200									10/08/2007		
PERP COMP LOT 2 GS9	SS933 PARISH DRYNOCH CO GLADSTONE Permit Y 12/03/2007									12/03/2007		
Lot 46 GS1090 Parish Ra	avenswood Co	Gladstone						Pern	nit	Y	13/02/2007	
ROAD Parcel / segment	13/48171 Dalr	ymple Shire						Pern	nit	Y	13/02/2007	
ROAD Parcel / Segment	13/48171 Dalr	ymple Shire						Acce	ess	Ν	17/07/2006	
Survey plans												
Plan No.	Description		Date	received	L	_ocality		١	/olume)	Folio	
MP36946			20/0	6/1997	F	RAVENSWOOD						
Relinquishment de	tails											
No data available												
Sub-blocks retaine	d											
No data available												
 Term history 												
Term	Date notice issued	Date lodg	ed	Date approved	Dat	te commenced	Date term en	ds '	Term	Act gunde	granted er	
1985 - 2006		26/08/198	31	25/07/1985		01/08/1985	31/07/2006	81/07/2006 21 years Mining Act 1968 1983				
2006 - 2027 0	07/02/2006 17/07/2006 27/03/2008 01/08/2006 31/07/2027 21 years Mineral Resources Act 1989								ources Act			
 Native title 												
Outcome		Process										
Granted before 1 January	v 1994	Grant before 1	Janu	arv 1994								
	,			. ,								



Purpose and minerals
inerals
opper Ore
old
ead Ore
olybdenum Ore
lver Ore
nc Ore

Related permits

Previous permit number: ML983CHRT

- Financial

Rent details

 Area units:
 116

 Rate/unit area:
 \$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346557	Registered	16/04/2021		23/04/2021	MMOL Reference:346557. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.00000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	4
Related permits	5
Financial	5
Activities	5



 Permit details 	✓ Permit details							
Permit ID:	ML 1451							
Status:	Granted							
Lodged date:	31/08/1982							
Grant date:	06/03/1986							
Commencement date:	01/04/1986							
Expiry date:	31/03/2026							
Current term:	19 years							
Certificate of application:	15/03/1985							
Work program type:								
Conditions:								
Locality:	APPROX 10.5 KWS SOUTH EAST OF RAVENSWOOD							
Remarks:	ACCESS VA GAZETTED RD: MP41008 DATUM POST LOCATION							
Act permit granted under:	Mning Act 1968-1983							
Act now administered under:	Mneral Resources Act 1989							

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder		
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes		
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020			
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	24/06/1988	11/09/2020			
	MOUNT ISAMINES LIMITED	100.00000000000	Former	31/08/1982	24/06/1988			
Te	Tenancy type: Sole Holder							



- Area										
Location:	View Map	w Map								
Mining district:	Charters To	wers								
Local authority:	Charters To	wers Regional	l Coun	ncil						
Area:	50.0000 He	000 Hectares								
Surface area:	50.0000	00								
Surface restricted a	rea:									
Exclusions:										
Marked out date:	26/08/1982	10:35:00								
Sub-blocks										
No data available										
Background lan	d									
Land identifier		Land Compensation usage required Finalised								
LOT 3 GS942 LL PAR	: SANDALWOOD	CO: GLADSTC	NE				Permit	Y		20/08/2008
ROAD PARCEL/SEG	VENT 10/45896						Permit	Y		22/07/2008
Survey plans										
Plan No.	Description		Date	Date received Locality			Volume		F	olio
MP41008	LOCATION OF POST	DATUM	04/03/1988 SE RAVENSWOOD		D					
Relinquishment	details									
No data available										
Sub-blocks retai	ined									
No data available										
	у									
Term	Date notice issued	Date lodg	ed	Date approved	Date commenced	Date term ends	s Teri		ct gra nder	anted
1986 - 2007		31/08/198	32	06/03/1986	01/04/1986	31/03/2007	21 y		i ning 983	y Act 1968-
2007 - 2026	08/11/2006	3/11/2006 23/03/200		7 03/09/2009 01/04/200		31/03/2026	19 y	ears R	Mineral rs Resources Act 1989	
 Native title 										
Outcome		Process								
Granted before 1 Jan	uary 1994	Grant before ?	1 Janu	ary 1994						
✓ Purpose an	d minerals									
Minerals										

Gold Silver Ore

Registered 03/11/2020

of holder

name

333986



- Related permits						
Previous permit number: ML1028CHRT						
- Fina	ncial					
Rent details						
Area units	5 0					
Rate/unit a	area: \$64.80)				
- Activ	vities					
Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346557	Registered	16/04/2021		23/04/2021	MMOL Reference:346557. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT

13/11/2020

PTYLTD to Ravenswood Gold PtyLtd.

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



✓ Permit details						
Permit ID:	ML 1452					
Status:	Granted					
Lodged date:	31/08/1982					
Grant date:	15/12/1988					
Commencement date:	01/01/1989					
Expiry date:	31/12/2024					
Current term:	5 years					
Certificate of application:	06/04/1983					
Work program type:						
Conditions:	Standard MRA conditions					
Locality:	APPROXIMATELY 10 KILOMETRES SOUTH EAST OF RAVENSWOOD					
Remarks:						
Act permit granted under:	Mning Act 1968-1986					
Act now administered under:	Mneral Resources Act 1989					

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder		
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.00000000000	Current	13/11/2020		Yes		
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020			
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	23/12/1987	11/09/2020			
	MOUNT ISAMINES LIMITED	100.00000000000	Former	31/08/1982	23/12/1987			
Те	Tenancy type: Sole Holder							



 Area 										
Location:	<u>View Map</u>	ew Map								
Mining district:	Charters Tov	arters Towers								
Local authority:	Charters Tov	arters Towers Regional Council								
Area:	49.2800 Hec	800 Hectares								
Surface area:	49.2800	2800								
Surface restricted are	a:									
Exclusions:										
Marked out date:	26/08/1982 1	4:00:00								
Sub-blocks										
No data available										
Background land										
Land identifier							and Isage	Compensation required	Finalised	
LOT 4851 ON SP24254	7					F	Permit	Y	28/04/2015	
LOT 4908 ON SP24254	7					F	Permit	Y	28/04/2015	
Connolly Creek						F	Permit	Ν	27/06/2014	
Survey plans										
Plan No.	Description		Date	Date received Locality				me	Folio	
MP41008	LOCATION OF POST	DATUM	04/0	04/03/1988 SE RAVENSWOOD						
Relinquishment d	etails									
No data available										
Sub-blocks retain	ed									
No data available										
 Term history 										
Term	Date notice issued	Date lodg	ed	Date approved	Date commenced	Date term ends	Terr	m Act g unde	granted er	
1989 - 2009	01/12/2008	31/08/198	32	15/12/1988	01/01/1989	31/12/2009	21 y	ears Minir 1986	ng Act 1968- 3	
2010 - 2014	01/12/2008	08/09/2009		08/04/2010	01/01/2010	31/12/2014	5 ye	Ars Res 1989	ources Act	
2015 - 2019		27/06/201	14	12/11/2015	01/01/2015	31/12/2019	5 ye	Ars Res 1989	ources Act	
2020 - 2024		17/05/201	19	25/11/2019	01/01/2020	31/12/2024	5 ye	ars Rese 1989	ources Act	
- Native title										

Outcome	Process
Granted before 1 January 1994	Grant before 1 January 1994



MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT

PTYLTD to Ravenswood Gold PtyLtd.

✓ Purpose and minerals						
Minerals						
Gold						
Silver Ore						
- Related permits						
Previous p	permit numb	er: ML10300	CHRT			
- Fina	ncial					
Rent det	tails					
Area units	5 0					
Rate/unit a	area: \$64.80)				
- Activ	vities					
Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346557	Registered	16/04/2021		23/04/2021	MMOL Reference:346557. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.00000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.

13/11/2020

Change

of holder

name

333986

Registered 03/11/2020

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



✓ Permit details							
Permit ID:	ML 1532						
Status:	Granted						
Lodged date:	16/01/1985						
Grant date:	24/10/1985						
Commencement date:	01/11/1985						
Expiry date:	31/10/2027						
Current term:	21 years						
Certificate of application:	31/05/1985						
Work program type:							
Conditions:							
Locality:	PAR RAVENSWOOD CO GLADSTONE						
Remarks:							
Act permit granted under:	Mning Act 1968-1983						
Act now administered under:	Mneral Resources Act 1989						

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder		
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes		
	MINING GOLD INVESTMENT PTY LTD	100.00000000000	Former	11/09/2020	13/11/2020			
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	01/03/1988	11/09/2020			
	MOUNT ISAMINES LIMITED	100.00000000000	Former	16/01/1985	01/03/1988			
Tenancy type: Sole Holder								



- Area										
Location:	View Map									
Mining district:	Charters To	Charters Towers								
Local authority:	Charters To	Charters Towers Regional Council								
Area:	0.2023 Hec	0.2023 Hectare								
Surface area:	0.2023	0.2023								
Surface restricted	e restricted area:									
Exclusions:										
Marked out date:	09/01/1985	16:00:00								
Sub-blocks										
lo data available										
Background la	nd									
Land identifier						and sage	Compensation required	Finalised		
FREEHOLD ALLOT	2 OF SECT 55 PA	R RAVENSWOOD CO	GLADSTONE		Pe	ermit	N	24/07/2006		
lo data available Relinquishmen lo data available Sub-blocks ret a lo data available										
✓ Term histo	ory									
Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term Act grant under				
1985 - 2006		16/01/1985	24/10/1985	01/11/1985	31/10/2006	21 ye	ears Mining Act 1968 1983			
2006 - 2027	07/02/2006	17/07/2006	15/03/2007	01/11/2006	31/10/2027	21 ye	Mineral Resources Act 1989			
 Native title 	9									
- Native title Outcome	2	Process								



Purpose and minerals
inerals
ntimony Ore
rsenic Ore
ismuth Ore
opper Ore
old
ead Ore
ilver Ore
nc Ore

- Related permits

Previous permit number: ML1175CHRT

- Financial

Rent details

Area units: 1 Rate/unit area: \$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346557	Registered	16/04/2021		23/04/2021	MMOL Reference:346557. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	5
Native title	5
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



 Permit details 	
Permit ID:	ML 1574
Status:	Granted
Lodged date:	13/06/1986
Grant date:	24/09/1987
Commencement date:	01/10/1987
Expiry date:	30/09/2027
Current term:	19 years
Certificate of application:	17/02/1987
Work program type:	
Conditions:	
Locality:	APPROXIMATELY 1 KM EAST OF RAVENSWOOD
Remarks:	
Act permit granted under:	Mning Act 1968-1986
Act now administered under:	Mneral Resources Act 1989

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	19/05/1988	11/09/2020	
	MOUNT ISAMINES LIMITED	100.00000000000	Former	13/06/1986	19/05/1988	
Te	nancy type: Sole Holder					



- Area

Location:	Mew Map
Mining district:	Charters Towers
Local authority:	Charters Towers Regional Council
Area:	103.0000 Hectares
Surface area:	103.0000
Surface restricted area:	
Exclusions:	
Marked out date:	12/06/1986 13:50:00

Sub-blocks

No data available

Background land

Land identifier				Land usage	Compensation required	Finalised
LOT 17 ON SP266614		Permit	Y	06/03/2019		
Macrossan Street - SEC	GPAR 48177044, 48177058	Permit	Y	22/08/2018		
Elocate Street - SEGPA	Permit	Y	22/08/2018			
Joske Street - SEGPAR	48177043, 48177101, 48177	041, 48177102,48177065, 4	48177042	Permit	Y	22/08/2018
Allen Street - SEGPAR 4	4817704, 48177047, 4817707	6		Permit	Y	22/08/2018
Buchanan Street - SEG	PAR 48177062, 48177046, 48	177076		Permit	Y	22/08/2018
Sandy Creek Road	Permit	Y	22/08/2018			
Loop Road - SEGPAR 4	Permit	Y	22/08/2018			
LOT 1 ON MPH25957	Permit	Ν	21/08/2017			
LOT 1 ON MPH4714	Permit	Ν	21/08/2017			
LOT 14 ON GS696	Permit	Ν	21/08/2017			
LOT 18 ON SP310550	Permit	Ν	21/08/2017			
LOT 180 ON MPH25918	Permit	Ν	21/08/2017			
Road Res seg/par 4817	77/33, 36, 38, 41-44, 46-48, 58	3, 59, 61-64, 75, 76		Permit	Y	23/09/2008
Road Reserves seg/par	r 45875/8, 45875/9, 48038/32			Permit	Y	23/09/2008
LOT 18 ON SP266614				Permit	Y	23/09/2008
LOT 19 ON SP266614				Permit	Y	23/09/2008
Survey plans						
Plan No.	Description	Date received	Locality	Volu	ime	Folio
MP36566		31/05/1994	RAVENSWOOD			

No data available

Sub-blocks retained

No data available



- Term	history								
Terr	n	Date notice issued	Date lo	odged Da	ate approved	Date commenced	Date term ends	Term	Act granted under
1987 - 2	2008		13/06/	1986	24/09/1987	01/10/1987	30/09/2008	21 years	Mining Act 1968- 1986
2008 - 2	2027	03/09/2007	26/08/	2008	14/05/2009	01/10/2008	30/09/2027	19 years	Mineral Resources Act 1989
- Nativ	ve title								
Outcome					Proce	255			
All land sub	bject to Native	e Title (<10%)	is excluded fi	rom the perm	itarea Grant	before 1 January 1994			
- Purp	ose and	mineral	S						
Minerals									
Antimony C	Dre								
Bismuth O									
Copper Ore	9								
Gold									
Lead Ore									
Silver Ore									
Zinc Ore									
- Rela	ted perm	nits							
Previous p	ermit numbe	er: ML12540	HRT						
- Fina	ncial								
Rent det	ails								
Area units:									
	. 103 irea: \$64.80)							
- Activ	vities								
Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed		Remark	S	
Mortgage	346557	Registered	16/04/2021		23/04/2021	MMOL Reference:3465 Ltd 100.00000000000 Nominees Pty Limited (NSW 2000.	% to Global Loan A	gency Service	s Australia
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:3339 PTY LTD to Ravenswo		from MINING	GOLD INVESTMENT
Additional surface area	216477	Approved	21/08/2017		05/06/2019	Grant of Additional Surfa 5/06/2019.	ace Area for ML 157	74 approved by	y the Minister on

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



 Permit details 	
Permit ID:	ML 1639
Status:	Granted
Lodged date:	11/12/1986
Grant date:	24/09/1987
Commencement date:	01/10/1987
Expiry date:	30/09/2027
Current term:	19 years
Certificate of application:	03/03/1987
Work program type:	
Conditions:	
Locality:	1 KILOMETRE EAST OF TOWN OF RAVENSWOOD
Remarks:	
Act permit granted under:	Mining Act 1968-1986
Act now administered under:	Mneral Resources Act 1989

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.00000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	20/05/1988	11/09/2020	
	MOUNT ISAMINES LIMITED	100.00000000000	Former	11/12/1986	20/05/1988	
Te	enancy type: Sole Holder					



- Area								
Location:	ew Map							
Mining district:	narters Towers							
Local authority:	Inters Towers Regional Council							
Area:	21.3100 Hectares	100 Hectares						
Surface area:	20.9500							
Surface restricted area:								
Exclusions:								
Marked out date:	09/12/1986 11:00:00							
Sub-blocks								
No data available								
Background land								
Land identifier	Land usage	Compensation e required	Finalised					
Lot 12 SP151652 FH	Perm	t Y	23/09/2008					
Lot 26 GS1023 RE	Perm	t Y	23/09/2008					
Road Res 45875/167, 45	877/63, 48176/44 and 48176/124 Perm	t Y	23/09/2008					
Road Res 45875/2, 4, 5 a	nd 7 Perm	t Y	23/09/2008					
Road res 45875/6 and 45	877/58 Perm	t Y	23/09/2008					
Lot 1 MPH4707 USL	Perm	t N	26/08/2008					
Lot 51 MPH25920 USL	Perm	t N	26/08/2008					
Lot 54 MPH25920 USL	Perm	t N	26/08/2008					
Lot 61 MPH25920 USL	Perm	t N	26/08/2008					
Survey plans								
No data available								

Relinquishment details

No data available

Sub-blocks retained

No data available

· Term histo	ry						
Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act granted under
1987 - 2008		11/12/1986	24/09/1987	01/10/1987	30/09/2008	21 years	Mining Act 1968- 1986
2008 - 2027	03/09/2007	26/08/2008	14/05/2009	01/10/2008	30/09/2027	19 years	Mineral Resources Act 1989
 Native title 							
Dutcome		Process					
Franted before 1 Ja	nuary 1994	Grant before 1 Janu	iary 1994				



Purpose and minerals
Vinerals
Antimony Ore
Bismuth Ore
Copper Ore
Gold
Lead Ore
Silver Ore
žinc Ore

- Related permits

Previous permit number: ML1344CHRT

Financial Rent details Area units: 22 Rate/unit area: \$64.80 Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346561	Registered	16/04/2021		23/04/2021	MMOL Reference:346561. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



 Permit details 	
Permit ID:	ML 1640
Status:	Granted
Lodged date:	11/12/1986
Grant date:	06/08/1987
Commencement date:	01/09/1987
Expiry date:	31/08/2027
Current term:	19 years
Certificate of application:	03/03/1987
Work program type:	
Conditions:	
Locality:	4KMEAST OF RAVENSWOOD
Remarks:	
Act permit granted under:	Mining Act 1968-1986
Act now administered under:	Mineral Resources Act 1989

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.00000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	24/06/1988	11/09/2020	
	MOUNT ISAMINES LIMITED	100.00000000000	Former	11/12/1986	24/06/1988	
Те	nancy type: Sole Holder					



- Area											
Location:	<u>View Map</u>										
Mining district:	Charters Tov	wers									
Local authority:	Charters Tov	wers Regional	Coun	cil							
Area:	130.0000 He	ectares									
Surface area:	130.0000										
Surface restricted a	rea:										
Exclusions:											
Marked out date:	Marked out date: 10/12/1986 16:00:00										
Sub-blocks											
No data available											
Background lan	d										
Land identifier							Land Usage	Compensation required	Finalised		
Lot 16 SP110134 FH						Ĩ	Permit	Y	10/04/2018		
Evlinton Road Seg 48	3038 Par 27					1	Access	N	26/08/2008		
Lot 13 AP9323 SL						F	Permit	N	26/08/2008		
Survey plans											
Plan No.	Description		Date	received	Locality		Volu	me	Folio		
MP41007	LOCATION OF POST	DATUM	04/03	3/1988	RAVENSWOOD						
Relinquishment	details										
No data available											
Sub-blocks reta	ined										
No data available											
 Term histor 	у										
Term	Date notice issued	Date lodg	ed	Date approved	Date commenced	Date term ends	s Teri	m Act und	granted er		
1987 - 2008		11/12/198	36	06/08/1987	01/09/1987	31/08/2008	21 y	ears Mini 1986	ng Act 1968- S		
2008 - 2027	01/08/2007	26/08/200	08	01/10/2009	01/09/2008	31/08/2027	19 y	Mine ears Res 1989	ources Act		
- Native title											
Outcome		Process									
Granted before 1 Jan	uary 1994	Grant before 1	l Janua	ary 1994							



✓ Purpose and minerals
Minerals
Antimony Ore
Bismuth Ore
Copper Ore
Gold
Lead Ore
Silver Ore
Zinc Ore

- Related permits

Previous permit number: ML1345CHRT

- Financial

Rent details

 Area units:
 130

 Rate/unit area:
 \$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346561	Registered	16/04/2021		23/04/2021	MMOL Reference:346561. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.00000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .
Additional surface area	216478	Approved	21/08/2017		05/06/2019	Grant of Additional Surface Area for ML 1640 approved by the Mnister on 5/06/2019.

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Table of Contents

Table of Contents	2
Permit details	3
Holders	4
Area	5
Term history	5
Native title	6
Purpose and minerals	6
Related permits	6
Financial	6
Activities	6



 Permit details 	
Permit ID:	ML 1682
Status:	Granted (Renewal Lodged)
Lodged date:	31/07/1987
Grant date:	22/10/1992
Commencement date:	01/11/1992
Expiry date:	31/10/2022
Current term:	10 years
Certificate of application:	23/08/1988
Work program type:	
Conditions:	
Locality:	APPROXIMATELY 2.5 KILOMETRES SOUTH EAST OF RAVENSWOOD
Remarks:	ACCESS VIA GAZETTED RD
Act permit granted under:	Mning Act 1968-1986
Act now administered under:	Mneral Resources Act 1989



- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	24/10/1990	11/09/2020	
	THE NORTHERN QUEENSLAND COMPANY LIMITED (RECEIVER AND MANAGER APPOINTED)	100.000000000000	Former	31/07/1987	24/10/1990	
Te	nancy type: Sole Holder					



- Area								
Location:	View Map							
Mining district: Charters Towers								
Local authority:	Local authority: Charters Towers Regional Council							
Area:	347.6000 Hectares							
Surface area:	339.7000							
Surface restricted area:								
Exclusions:								
Marked out date:	29/07/1987 10:00:00							
Sub-blocks								
No data available								
Background land								
Land identifier		Land usage	Compensation required	Finalised				
LOT 19 ON SP266614		Permit	Y					
Road Reserve segpars 4	5875008 (Sandy Creek Road); 48037016; 48038027; 48038028; 48038029; 48038030	Permit	Y	08/07/2022				
LOT 1 ON MPH26009		Permit	N	28/06/2022				
LOT 13 ON SP310549		Permit	N	28/06/2022				
LOT 18 ON SP310550		Permit	N	28/06/2022				
LOT 220 ON R1628		Permit	N	28/06/2022				
LOT 382 ON OL77		Permit	N	28/06/2022				
LOT 400 ON OL88		Permit	N	28/06/2022				

Survey plans

Plan No.	Description	Date received	Locality	Volume	Folio
MP36566		31/05/1994	RAVENSWOOD	102	37

Relinquishment details

No data available

Sub-blocks retained

No data available

- Term history

Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act granted under
1992 - 2002		31/07/1987	22/10/1992	01/11/1992	31/10/2002	10 years	Mining Act 1968- 1986
2002 - 2012	17/12/2001	24/10/2002	08/07/2004	01/11/2002	31/10/2012	10 years	Mineral Resources Act 1989
2012 - 2022	04/10/2011	04/06/2012	05/03/2013	01/11/2012	31/10/2022	10 years	Mneral Resources Act 1989



✓ Native title							
Outcome	Process						
Granted before 1 January 1994	Grant before 1 January 1994						
 Purpose and minerals 							
Minerals							
Antimony Ore							
Bismuth Ore							
Copper Ore							
Gold							
Lead Ore							
Silver Ore							
Zinc Ore							

- Related permits

Previous permit number: ML1414CHRT

- Financial

Rent details

Area units:	348
Rate/unit area:	\$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Additional surface area	362010	Under assessment	19/10/2021			
Mortgage	346561	Registered	16/04/2021		23/04/2021	MMOL Reference:346561. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.00000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .
Additional Surface Area AppIn		Closed	14/05/1993	16/12/1993	16/12/1993	COMPLIES WITH PROVISIONS OF MINERAL RESOURCES ACT. TERM TO EXPIRE 31-OCT-2002.

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	4
Related permits	4
Financial	5
Activities	5



 Permit details 	✓ Permit details								
Permit ID:	ML 1692								
Status:	Granted								
Lodged date:	20/08/1987								
Grant date:	02/02/1989								
Commencement date:	01/03/1989								
Expiry date:	30/04/2028								
Current term:	18 years 2 months								
Certificate of application:	15/01/1988								
Work program type:									
Conditions:									
Locality:	APPROXIMATELY 3 KILOMETRES EAST OF RAVENSWOOD								
Remarks:									
Act permit granted under:	Mining Act 1968-1986								
Act now administered under:	Mneral Resources Act 1989								

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
	* RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTY LTD	100.000000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.000000000000	Former	20/08/1987	11/09/2020	
٦	Tenancy type: Sole Holder					



- Area										
Location:	View Map									
Mining district:	Charters To	owers								
Local authority:	Charters To	owers Regional	Council							
Area:	2.7820 Hee	ctares								
Surface area:	2.7820									
Surface restricted area	a:									
Exclusions:										
Marked out date: 19/08/1987 09:10:00										
Sub-blocks										
No data available										
Background land										
Land identifier						Land usage	Compensat required			
Lot 13 AP9323 UNALLO	OCATED STATE	E LAND				Permit	Ν	09/09/2009		
Survey plans No data available Relinquishment details										
-	etalis									
No data available Sub-blocks retaine										
No data available Sub-blocks retaine	ed									
No data available Sub-blocks retaine No data available Term history Dat	ed	Date lodged	Date approved	Date commenced	Date term ends	Term		Act granted under		
No data available Sub-blocks retaine No data available Term history Dat	ed ate notice	Date lodged 20/08/1987	Date approved 02/02/1989	Date commenced 01/03/1989	Date term ends 28/02/2010	Term 21 years		-		
No data available Sub-blocks retainer No data available Term history Term Dat 1989 - 2010	ed ate notice						nths	under Mining Act		
No data available Sub-blocks retaine No data available Term history Term Dat 1989 - 2010	ed ate notice issued	20/08/1987	02/02/1989	01/03/1989	28/02/2010	21 years	nths	under Mining Act 1968-1986 Mineral Resources Act		
No data available Sub-blocks retainer No data available Term history Term Dat 1989 - 2010 2010 - 2028 14/	ed ate notice issued	20/08/1987	02/02/1989	01/03/1989	28/02/2010	21 years	nths	under Mining Act 1968-1986 Mineral Resources Act		
No data available Sub-blocks retainer No data available Term history 1989 - 2010 2010 - 2028 14/ Native title	ed	20/08/1987 08/09/2009	02/02/1989 13/05/2010	01/03/1989	28/02/2010	21 years	nths	under Mining Act 1968-1986 Mineral Resources Act		
No data available Sub-blocks retainer No data available Term history Dat is 1989 - 2010 2010 - 2028 14/ Native title Outcome	ed	20/08/1987 08/09/2009 Process Grant before 1	02/02/1989 13/05/2010	01/03/1989	28/02/2010	21 years	nths	under Mining Act 1968-1986 Mineral Resources Act		
No data available Sub-blocks retained No data available Term history Term history 1989-2010 2010-2028 14/ Outcome Granted before 1 Januar Purpose and	ed	20/08/1987 08/09/2009 Process Grant before 1	02/02/1989 13/05/2010	01/03/1989	28/02/2010	21 years	nths	under Mining Act 1968-1986 Mineral Resources Act		
No data available Sub-blocks retaine No data available Term history 1989 - 2010 2010 - 2028 14/ Value Cutcome Granted before 1 Januar	ed	20/08/1987 08/09/2009 Process Grant before 1	02/02/1989 13/05/2010	01/03/1989	28/02/2010	21 years	nths	under Mining Act 1968-1986 Mineral Resources Act		
No data available Sub-blocks retained No data available Term history 1989 - 2010 2010 - 2028 14/ Variable Outcome Granted before 1 Januar Purpose	ed	20/08/1987 08/09/2009 Process Grant before 1	02/02/1989 13/05/2010	01/03/1989	28/02/2010	21 years	nths	under Mining Act 1968-1986 Mineral Resources Act		



Rent details											
Area units: 3											
Rate/unit area: \$64.80											
Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks					
•	-	Status		•		Remarks MMOL Reference:346561. A mortgage in an interest of Ravenswood Gold Pt Ltd 100.0000000000% to Global Loan Agency Services Australia					
Mortgage	346561	Registered	16/04/2021		23/04/2021	Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.					
	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .					

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	4
Related permits	5
Financial	5
Activities	5



 Permit details 	✓ Permit details								
Permit ID:	ML 1736								
Status:	Granted								
Lodged date:	24/06/1988								
Grant date:	13/06/1991								
Commencement date:	01/07/1991								
Expiry date:	30/06/2028								
Current term:	16 years								
Certificate of application:	15/12/1988								
Work program type:									
Conditions:									
Locality:	APPROXIMATELY 3 KILOMETRES EAST OF RAVENSWOOD								
Remarks:									
Act permit granted under:	Mning Act 1968-1986								
Act now administered under:	Mneral Resources Act 1989								

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	24/06/1988	11/09/2020	
Те	nancy type: Sole Holder					



- Area												
Location:	View Map											
Mining district:	Charters To	wers										
Local authority:	Charters To	wers Regional Cour	ncil									
Area:	8.0000 Hec	8.0000 Hectares										
Surface area: 8.0000												
Surface restricted area:												
Exclusions:												
Marked out date:	Marked out date: 22/06/1988 16:00:00											
Sub-blocks												
No data available												
Background lan	d											
Land identifier						Land Usage	Compensation required	Finalised				
LOT 13 SP151651 TL	-				1	Permit	Y	26/11/2012				
LOT 16 SP110134 FH	4				I	Permit	Y	07/09/2012				
LOT 13 AP9323 USL					I	Permit	Ν	27/02/2012				
No data available Relinquishment No data available Sub-blocks reta No data available												
- Term histor	у											
Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Terr	n Act g unde	ranted r				
1991 - 2012		24/06/1988	13/06/1991	01/07/1991	30/06/2012	21 y	ears Minin 1986	g Act 1968-				
2012 - 2028	02/06/2011	22/02/2012	04/02/2013	01/07/2012	30/06/2028	16 y	ears Reso 1989	ources Act				
 Native title 												
Outcome		Process										
Granted before 1 Jan	uary 1994	Grant before 1 Janu	iary 1994									
 Purpose an 	nd minerals											
Purpose												
Tailings / settling dan	n											



- Related permits									
Previous permit number: ML1516CHRT									
- Financial									
Rent details									
Area units	rea units: 8								
Rate/unit area: \$64.80									
- Activities									
- Activ	vities								
 Activity name 	vities Activity/ Dealing No	Status	Date received	Expected completion	Date completed	Remarks			
Activity	Activity/	Status Registered		· ·		Remarks MMOL Reference:346561. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.			

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	5
Native title	5
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



- Permit details						
Permit ID:	ML 1753					
Status:	Granted					
Lodged date:	01/12/1988					
Grant date:	20/12/1990					
Commencement date:	01/01/1991					
Expiry date:	30/04/2028					
Current term:	16 years 4 months					
Certificate of application:	13/09/1989					
Work program type:						
Conditions:						
Locality:	APPROX 0.781KMNORTH OF RAVENSWOOD					
Remarks:						
Act permit granted under:	Mning Act 1968-1986					
Act now administered under:	Mneral Resources Act 1989					

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	01/12/1988	11/09/2020	
Те	nancy type: Sole Holder					



- Area						
······g ·····						
Local authority: Charters Towers Regional Council						
Area: 97.3600 Hectares						
Surface area: 97.3600						
Surface restricted area:						
Exclusions:						
Marked out date:	01/12/1988 13:45:00					
Sub-blocks						
No data available						
Background land						
Land identifier	Land usage	Compensation required	Finalised			
LOT 3 MPH15821 FH	Perm	t Y	25/10/2012			
LOT 40 SP103225 FH	Perm	t Y	16/04/2012			
LOT 39 SP103225 FH	Perm	t Y	22/01/2012			
LOT 26 GS1023	Perm	t Y	07/12/2011			
ROAD RESERVES	Perm	t Y	07/12/2011			
LOT 815 MPH15821 USL	Perm	t N	29/07/2011			
LOT 915 MPH15821 USL	Perm	t N	29/07/2011			
ROAD RESERVES	Acces	s N	29/07/2011			
LOT 539 AP3540 PO	Perm	t N	29/07/2011			
LOT 71 MPH25916 USL	Perm	t N	29/07/2011			
LOT 751 MPH15821 USL	Perm	t N	29/07/2011			
LOT 752 MPH15821 USL	Perm	t N	29/07/2011			
LOT 800 MPH15821 USL	Perm	t N	29/07/2011			
LOT 802 MPH15821 USL	Perm	t N	29/07/2011			
Survey plans						
No data available						
Relinquishment deta	ails					
No data available						
Sub-blocks retained						
No data available						



	n history								
Tern	n	ate notice issued	Date lodged	d Date ap	proved Da	te commenced	Date term ends	Term	Act granted under
1991 - 2	:011		01/12/1988	20/12/	1990	01/01/1991	31/12/2011	21 years	Mining Act 1968-1986
2012 - 2	.028 01	1/12/2010	29/07/2011	13/05/	2013	01/01/2012	30/04/2028	16 years 4 months	Mineral Resources A 1989
Nati	ve title								
utcome			Process						
Granted before 1 January 1994 Grant before 1 January 1994									
Purp	oose and	mineral	s						
inerals									
ntimony (Dre								
smuth C	re								
opper Or	е								
old									
ead Ore									
ilver Ore									
inc Ore									
Rela	ted pern	nits							
revious p	permit numbe	er: ML15390	CHRT						
Fina	ncial								
	ails								
ent det	: 98								
)							
rea units	area: \$64.80								
rea units ate/unit a									
Activ ctivity	vities Activity/	Status	Date	Expected	Date			Remarks	
rea units ate/unit a Activ	vities	Status Registered	received	Expected completion		MMOL Referen Ltd 100.00000	0000000% to Glob	Remarks Igage in an interest of R bal Loan Agency Service 945 008), Level 26, 1 Bl	s Australia

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	5
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



 Permit details 	✓ Permit details					
Permit ID:	ML 10039					
Status:	Granted					
Lodged date:	26/02/1998					
Grant date:	14/11/1991					
Commencement date:	01/12/1991					
Expiry date:	31/08/2025					
Current term:	5 years					
Certificate of application:	16/11/1990					
Work program type:						
Conditions:	Mneral Resources Act 1989					
Locality:	APPROXIMATELY 4 KILOWETRES SOUTH EAST OF RAVENSWOOD TOWNSHIP					
Remarks:	NIL					
Act permit granted under:	Mneral Resources Act 1989					
Act now administered under:	Mneral Resources Act 1989					

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder	
	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes	
	MINING GOLD INVESTMENT PTY LTD	100.00000000000	Former	11/09/2020	13/11/2020		
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	15/11/1990	11/09/2020		
Т	Tenancy type: Sole Holder						



- Area							
Location:	<u>View Map</u>						
Mining district:	Charters Towers						
Local authority:	Charters Towers Regional Council						
Area:	0.2880 Hectare						
Surface area:	0.2880						
Surface restricted area:							
Exclusions:							
Marked out date:	13/11/1990 12:05:00						
Sub-blocks							
No data available							
Background land							
Land identifier		Land usage	Compensation required	Finalised			
LOT 161 ON USL48036		Access	Ν				
Road Permit Y 05/11/							
LOT 1 ON MPH14437 Permit Y 05/11/2							
LOT 1 ON MPH14437 Access Y 05/11/2019							
Survey plans							
No data available							

Relinquishment details

No data available

Sub-blocks retained

No data available

- Term history

Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act granted under
1991 - 1998	08/07/1997	26/02/1998	14/11/1991	01/12/1991	28/02/1998	6 years 3 months	Mineral Resources Act 1989
1998 - 2004	08/07/1997	26/02/1998	28/01/1999	01/03/1998	31/05/2004	6 years 3 months	Mineral Resources Act 1989
2004 - 2010	29/08/2003	14/05/2004	14/04/2005	01/06/2004	31/08/2010	6 years 3 months	Mineral Resources Act 1989
2010 - 2015	02/09/2009	08/09/2009	24/06/2010	01/09/2010	31/08/2015	5 years	Mineral Resources Act 1989
2015 - 2020		21/01/2015	27/11/2015	01/09/2015	31/08/2020	5 years	Mineral Resources Act 1989
2020 - 2025		05/11/2019	27/04/2020	01/09/2020	31/08/2025	5 years	Mineral Resources Act 1989



 Native title 							
Outcome	Process						
100% exclusive land	Exclusive Land (100%)						
100% exclusive land	Grant before 1 January 1994						
 Purpose and mine 	rals						
Minerals							
Copper Ore							
Gold							
Lead Ore							
Silver Ore							
Zinc Ore							
 Related permits 							
Pre-requisite permits: MINING	CLAIM 2633						
- Financial							
Rent details							
Area units: 1	ts: 1						
Rate/unit area: \$64.80							
- Activities	- Activities						

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346561	Registered	16/04/2021		23/04/2021	MVOL Reference:346561. A mortgage in an interest of Ravenswood Gold PtyLtd 100.00000000000% to Global Loan Agency Services Australia Nominees PtyLimited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .
Special Conditions		Closed	26/02/1998	26/03/1998	25/11/1998	

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	5
Native title	5
Purpose and minerals	5
Related permits	5
Financial	5
Activities	6



 Permit details 	✓ Permit details					
Permit ID:	ML 10040					
Status:	Granted					
Lodged date:	26/02/1998					
Grant date:	09/04/1992					
Commencement date:	01/05/1992					
Expiry date:	31/10/2024					
Current term:	5 years					
Certificate of application:	20/11/1990					
Work program type:						
Conditions:	MRA 1989					
Locality:	APPROXIMATELY 4KM SOUTH EAST OF RAVENSWOOD					
Remarks:						
Act permit granted under:	Mineral Resources Act 1989					
Act now administered under:	Mineral Resources Act 1989					

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder	
	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes	
	MINING GOLD INVESTMENT PTY LTD	100.00000000000	Former	11/09/2020	13/11/2020		
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	15/11/1990	11/09/2020		
Т	Tenancy type: Sole Holder						



✓ Area								
Location:	<u>View Map</u>							
Mining district:	Charters Towers							
Local authority:	harters Towers Regional Council							
Area:	0.8000 Hectare							
Surface area:	0.8000							
Surface restricted area:								
Exclusions:								
Marked out date:	13/11/1990 10:15:00							
Sub-blocks								
No data available								
Background land								
Land identifier		Land usage	Compensation required	Finalised				
RAVENSWOOD ROAD		Access	N					
LOT 161 ON USL48036		Access	Ν					
LOT 161 ON USL48036		Permit	N					
LOT 503 ON E4741 (USL)		Access	Ν					
LOT 504 ON E4741 (USL)		Access	Ν					
LOT 505 ON E4741 (USL)		Access	Ν					
LOT 506 ON E4741 (USL)		Access	Ν					
LOT 508 ON E4741 (USL)		Access	Ν					
LOT 1 ON MPH14437	Access	Y	04/03/2019					
Survey plans								
No data available								
Relinquishment det	ails							
No data available								
Sub-blocks retained	l i i i i i i i i i i i i i i i i i i i							



- Term history							
Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act granted under
1992 - 1998	08/07/1997	26/02/1998	09/04/1992	01/05/1992	28/02/1998	5 years 10 months	Mineral Resources Act 1989
1998 - 2003	08/07/1997	26/02/1998	28/01/1999	01/03/1998	31/12/2003	5 years 10 months	Mineral Resources Act 1989
2004 - 2009	29/08/2003	28/11/2003	02/12/2004	01/01/2004	31/10/2009	5 years 10 months	Mineral Resources Act 1989
2009 - 2014	14/07/2009	08/09/2009	22/04/2010	01/11/2009	31/10/2014	5 years	Mineral Resources Act 1989
2014 - 2019		21/08/2014	27/06/2015	01/11/2014	31/10/2019	5 years	Mineral Resources Act 1989
2019 - 2024		04/03/2019	26/06/2019	01/11/2019	31/10/2024	5 years	Mineral Resources Act 1989

- Native title

Outcome	Process
Granted before 23rd Dec 1996	Grant before 1 January 1994

- Purpose and minerals

linerals
opper Ore
old
ead Ore
ilver Ore
inc Ore
Related permits

Pre-requisite permits: MINING CLAIM 2666

Financial Rent details Area units: 1 Rate/unit area: \$64.80



✓ Activities								
Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks		
Mortgage	346561	Registered	16/04/2021		23/04/2021	MMOL Reference:346561. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.00000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.		
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .		
Special Conditions		Closed	26/02/1998	26/03/1998	25/11/1998			

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	5
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



 Permit details 	Permit details					
Permit ID:	ML 10041					
Status:	Granted					
Lodged date:	26/02/1998					
Grant date:	09/04/1992					
Commencement date:	01/05/1992					
Expiry date:	31/10/2024					
Current term:	5 years					
Certificate of application:	12/07/1991					
Work program type:						
Conditions:	MRA 1989					
Locality:	APPROXIMATELY 4KM SOUTH EAST OF RAVENSWOOD					
Remarks:						
Act permit granted under:	Mneral Resources Act 1989					
Act now administered under:	Mineral Resources Act 1989					

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder			
	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes			
	MINING GOLD INVESTMENT PTY LTD	100.00000000000	Former	11/09/2020	13/11/2020				
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	15/11/1990	11/09/2020				
Т	Tenancy type: Sole Holder								



Location:	View Map	2							
Mining district:	Charters	Towers							
Local authority:									
Area:	0.8000 H	lectare							
Surface area: 0.8000									
Surface restricted	Surface restricted area:								
Exclusions:									
Marked out date:	13/11/19	90 10:15:00							
Sub-blocks									
No data available									
Background la	nd								
Land identifier						Land usage	Compensation required	Finalised	
RAVENSWOOD RO	Ð					Access	N		
LOT 161 USL48036						Access	Ν		
LOT 161 USL48036						Permit	Ν		
LOT 1 MPH14437						Permit	Y	04/03/2019	
Survey plans									
No data available									
Relinquishmen	t details								
No data available									
Sub-blocks retained									
Sub-blocks reta	No data available								
	ry								
No data available	ry Date notice	Date lodged	Date approved	Date commenced	Data tarm anda	Torm	Act	t granted	

Term	issued	Date lodged	Date approved	Date commenced	Date term ends	Ierm	under
1992 - 1998	08/07/1997	26/02/1998	09/04/1992	01/05/1992	28/02/1998	5 years 10 months	Mineral Resources Act 1989
1998 - 2003	08/07/1997	26/02/1998	28/01/1999	01/03/1998	31/12/2003	5 years 10 months	Mineral Resources Act 1989
2004 - 2009	29/08/2003	28/11/2003	02/12/2004	01/01/2004	31/10/2009	5 years 10 months	Mineral Resources Act 1989
2009 - 2014	14/07/2009	08/09/2009	22/04/2010	01/11/2009	31/10/2014	5 years	Mineral Resources Act 1989
2014 - 2019		21/08/2014	27/06/2015	01/11/2014	31/10/2019	5 years	Mineral Resources Act 1989
2019 - 2024		04/03/2019	26/06/2019	01/11/2019	31/10/2024	5 years	Mineral Resources Act 1989



Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney

MMOL Reference:333986. Changed name from MINING GOLD

INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

							_
 Nativ 	e title						
Outcome			Process				
Granted bef	ore 23rd Dec	1996	Grant before	e 1 January 19	994		
- Purp	ose and	minerals					Ī
Minerals							
Copper Ore							
Gold							
Lead Ore							
Silver Ore							
Zinc Ore							
- Relat	ed perm	its					Ī
Pre-requisi	te permits:	MINING CLAI	M2667				
- Finar	ncial						Ī
Rent deta	ils						
Area units:	1						
Rate/unit ar	ea: \$64.80						
							-
- Activ	ities						
Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks	
Mortgage	346561	Registered	16/04/2021		23/04/2021	MVDL Reference:346561. A mortgage in an interest of Ravenswood Gold PtyLtd 100.0000000000% to Global Loan Agency Services Australia	

NSW 2000.

13/11/2020

25/11/1998

Change of

Conditions

333986

Registered 03/11/2020

Closed

26/02/1998 26/03/1998

holder

name Special

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	5
Purpose and minerals	5
Related permits	5
Financial	5
Activities	6



 Permit details 	Permit details					
Permit ID:	ML 10170					
Status:	Granted					
Lodged date:	15/10/1993					
Grant date:	16/12/1993					
Commencement date:	01/01/1994					
Expiry date:	31/12/2029					
Current term:	9 years					
Certificate of application:	15/10/1993					
Work program type:						
Conditions:						
Locality:	4 KILOMETRES SOUTH OF RAVENSWOOD					
Remarks:						
Act permit granted under:	Mineral Resources Act 1989					
Act now administered under:	Mineral Resources Act 1989					

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder			
	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes			
	MINING GOLD INVESTMENT PTY LTD	100.00000000000	Former	11/09/2020	13/11/2020				
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	15/10/1993	11/09/2020				
т	Tenancy type: Sole Holder								



✓ Area						
Location:	<u>View Map</u>					
Mining district:	Charters Towers					
Local authority:	Charters Towers Regional Council					
Area:	362.6000 Hectares					
Surface area:	Surface area: 362.6000					
Surface restricted area:						
Exclusions:	Exclusions:					
Marked out date:	08/10/1993 15:00:00					
Sub-blocks						
No data available						
Background land						
Land identifier		Land usage	Compensation required	Finalised		
LOT 1 ON AP3534		Permit	Ν	17/12/2020		
LOT 18 ON SP310550		Permit	Ν	17/12/2020		
LOT 382 ON OL77		Permit	Ν	17/12/2020		
LOT 400 ON OL88		Permit	Ν	17/12/2020		
Loop Road and Plumwoo	d Road	Permit	Y	14/12/2020		
LOT 20 ON SP310550		Permit	Y	14/12/2020		

Survey plans

No data available

Relinquishment details

No data available

Sub-blocks retained

No data available

Term history

Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act granted under
1994 - 2002		15/10/1993	16/12/1993	01/01/1994	31/12/2002	9 years	Mineral Resources Act 1989
2003 - 2011	17/12/2001	17/12/2002	10/06/2004	01/01/2003	31/12/2011	9 years	Mineral Resources Act 1989
2012 - 2020		29/07/2011	16/10/2018	01/01/2012	31/12/2020	9 years	Mineral Resources Act 1989
2021 - 2029		14/12/2020	16/05/2022	01/01/2021	31/12/2029	9 years	Mineral Resources Act 1989



 Native t 	itle						
Outcome		Process					
Section 31 Agre	ement	Right to Negotiate					
- Purpose	e and minerals						
Purpose							
Tailings / settlin	g dam, Treatment plar	t / mill site					
Minerals							
Antimony Ore							
Bismuth Ore							
Copper Ore	Copper Ore						
Gold	Gold						
Lead Ore							
Silver Ore							
Zinc Ore							
- Related	permits						
Pre-requisite p	ermits: EXPLORATIC	IN PERMIT MINERAL 8936					
- Financia	al						
Rent details							
Area units:	363						
Rate/unit area:	\$64.80						



- Activ	ities					
Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346561	Registered	16/04/2021		23/04/2021	MMOL Reference:346561. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.00000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .
Additional surface area	265116	Approved	31/12/2018		06/10/2020	Grant of Additional Surface Area for ML 10170 approved by the Minister on 05/10/2020.
Additional Surface Area AppIn		Closed	01/03/2012	31/12/2013	03/12/2014	NT process required - advertising in progress 01/08/12 Stat Dec's received. 29/6/12 Signed COA received (email). 28/6/12 COA/CPN issued. Last objection day 26/7/12. Stat Decs to be received by 2/8/12. 18/4/12 Amended ASA description accepted. 10/4/12 corrected descripton recieved. 27/3/12 Ltr sent to holder advising that corrected description & field inspection are required. 1/3/12 Application to add additional surface area of 22.8ha. 17.11.2014 - holder has withdrawn application.
Special Conditions		Closed	15/10/1993	29/12/1993	15/10/1993	STANDARD CONDITIONS ISSUED

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



 Permit details 	
Permit ID:	ML 10237
Status:	Granted
Lodged date:	08/10/1997
Grant date:	29/03/2007
Commencement date:	01/04/2007
Expiry date:	31/03/2027
Current term:	20 years
Certificate of application:	16/10/1997
Work program type:	
Conditions:	
Locality:	TOWNSHIP OF RAVENSWOOD
Remarks:	
Act permit granted under:	Mineral Resources Act 1989
Act now administered under:	Mineral Resources Act 1989

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTY LTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	08/10/1997	11/09/2020	
Т	enancy type: Sole Holder					



- Area

Alea	
Location:	View Map
Mining district:	Charters Towers
Local authority:	Charters Towers Regional Council
Area:	10.8700 Hectares
Surface area:	10.8700
Surface restricted area:	
Exclusions:	
Marked out date:	07/10/1997 09:00:00
Sub-blocks	

No data available

Background land

Land identifier	Land usage	Compensation required	Finalised
PERP COMP FOLIO 183 LOT 382 ON OL77 PAR RAVENSWOOD CO GLADSTONE	Permit	Y	04/12/2006
LOT 26 ON GS1023 PAR RAVENSWOOD CO GLADSTONE	Permit	Y	22/12/2005
ROAD RESERVES DALRYMPLE SHIRE PAR RAVENSWOOD CO GLADSTONE	Permit	Y	22/12/2005
LOT 13 AP3533 USL PO PAR RAVENSWOOD CO GLADSTONE	Permit	Ν	23/08/2005
ACCESS VIA SANDY CREEK ROAD GAZETTED PAR RAVENWOOD CO GLADSTONE	Access	Ν	26/07/2004

Survey plans

No data available

Relinquishment details

No data available

Sub-blocks retained

No data available

- Term history

Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act granted under
2007 - 2027		08/10/1997	29/03/2007	01/04/2007	31/03/2027	20 years	Mineral Resources Act 1989
Native title	;						
utcome		Process					
Unknown outcome	1	Commenceme	nt Data ASP				



Purpose and minerals
linerals
ntimony Ore
vismuth Ore
Copper Ore
Sold
ead Ore
silver Ore
inc Ore

- Related permits

Pre-requisite permits: EXPLORATION PERMIT FOR MINERALS NO 8936.

- Financial

Rent details

Area units:11Rate/unit area:\$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346562	Registered	16/04/2021		03/06/2021	MMOL Reference:346562. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	4
Related permits	4
Financial	5
Activities	5



 Permit details 	
Permit ID:	ML 100143
Status:	Granted
Lodged date:	22/08/2017
Grant date:	13/05/2019
Commencement date:	01/06/2019
Expiry date:	31/05/2039
Current term:	20 years
Mining notice issued:	27/11/2017
Work program type:	
Conditions:	
Locality:	approximately 2.7km east of Ravenswood PO
Remarks:	
Act permit granted under:	Mneral Resources Act 1989
Act now administered under:	Mneral Resources Act 1989

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	01/06/2019	11/09/2020	
Те	nancy type: Sole Holder					



- Area								
Location:	View Map							
Mining district:	Charters	Towers						
Local authority:	Charters ⁻	Towers Regional C	Council					
Area:	25.8800 H	Hectares						
Surface area:	25.8800							
Surface restricted are	ea:							
Exclusions:								
Marked out date:								
Sub-blocks								
No data available								
Background land	I							
Land identifier						Land usage	Compensation required	¹ Finalised
Road - SEGPAR48038	030					Permit	Y	22/08/2018
Road - SEGPAR48038	027					Permit	Y	22/08/2018
LOT 13 ON AP9323						Permit	Ν	22/08/2017
Survey plans No data available Relinquishment o No data available Sub-blocks retain No data available • Term history Term	ned	Date lodged	Date approved	Date commenced	Date term ends	Term	Act g unde Mne	
2019 - 2039		22/08/2017	13/05/2019	01/06/2019	31/05/2039	20 ye		ources Act
 Native title 								
-								
Outcome		Process						
Section 24MD 6B Notifi	ication	s24MD notificati	ions					
Purpose and Purpose Pipeline - water only, W								
 Related perr 	nits							
No data available								



Rent det	tent details								
Area units: 26									
Rate/unit a	area: \$64.80	0							
- Activity name	vities Activity/ Dealing No	Status	Date received	Expected completion	Date completed	Remarks			
Mortgage	346562	Registered	16/04/2021		03/06/2021	MMOL Reference:346562. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.			
Change of holder	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTYLTD to Ravenswood Gold PtyLtd.			

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	7
Native title	7
Purpose and minerals	7
Related permits	7
Financial	7
Activities	7



 Permit details 						
Permit ID:	ML 100144					
Status:	Granted					
Lodged date:	22/08/2017					
Grant date:	13/05/2019					
Commencement date:	01/06/2019					
Expiry date:	31/05/2039					
Current term:	20 years					
Mining notice issued:	27/11/2017					
Work program type:						
Conditions:	Mneral Resources Act 1989 Condition 3 – Catchment Area of Existing Dam The mining lease to which this condition applies contain all or part of the catchment area of an existing dam. Mning or works that involve any degree of surface or subsurface disturbance within the mining lease containing the catchment area of the existing dam is prohibited unless specific approval in writing is given by Department of Energy and Water Supply in accordance with the following requirements: 1.At least one month prior to carrying out any activities that entail subsurface disturbance within mining lease containing the catchment area of the existing dam, the permit or licence holder must submit a full report of planned mining and related activities in the mining lease to Department of Energy and Water Supply, for assessment. The report must contain: a.Atimetable and description of all activities proposed to be carried out; b.A suitable map indicating the location and intensity of the activities; and c.An assessment by suitably qualified and experienced person that the proposed activities that disturbs the ground by less than 2m in depth from the surface datum; disturbance within the catchment area of the existing dam is prohibited. 3.Areas disturbed by an activity must be undertaken to avoid contamination of land and water resources and rehabilitated as per guidelines within 6 months of completing the activity.					
Locality:	approximately4km SSE of Ravenswood PO					
Remarks:						
Act permit granted under:	Mneral Resources Act 1989					
Act now administered under:	Mneral Resources Act 1989					
- Holders						
Authorised holder representative (AHR)						

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mne Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MNING GOLD INVESTMENT PTY LTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	01/06/2019	11/09/2020	
Te	enancy type: Sole Holder					

:y typ



- Area				
Location:	<u>View Map</u>			
Mining district:	Charters Towers			
Local authority:	Charters Towers Regional Council			
Area:	1117.0000 Hectares			
Surface area:	1117.0000			
Surface restricted area:				
Exclusions:				
Marked out date:				
Sub-blocks				
No data available				
Background land				
Land identifier		Land usage	Compensation required	Finalised
Ball Street - SEGPAR4803	36018; 48033026; 48036047; 48036098	Permit	Y	22/08/2018
Ball Street Bull Street - SE	GPAR48036021	Permit	Y	22/08/201
Ball Street Ravenswood F	Road - SEGPAR48036139	Permit	Y	22/08/201
Ball Street Sidley Street S	EGPAR48036004	Permit	Y	22/08/2018
Ball Street Trenfield Stree	t - SEGPAR48036005	Permit	Y	22/08/201
Bull Street - SEGPAR4803	36019	Permit	Y	22/08/201
Bull Street Ravenswood F	Road - SEGPAR48036140	Permit	Y	22/08/201
Burdekin Falls Dam Road	I - SEGPAR48018030	Permit	Y	22/08/201
Harris Street - SEGPAR48	3036138	Permit	Y	22/08/201
Harris Street Ravenswood	d Road - SEGPAR48036096	Permit	Y	22/08/201
Hill Street -SEGPAR4803	6060	Permit	Y	22/08/2018
Hill Street Luckley Street F	Ravenswood Road - SEGPAR48036163	Permit	Y	22/08/201
Luckley Street - SEGPAR4	18036001	Permit	Y	22/08/201
Ravenswood Road - SEG	PAR48036016; 48036022; 48036058; 48036094; 48036162; 48036164	Permit	Y	22/08/201
Ravenswood Road Sidley	/Street - SEGPAR48036056	Permit	Y	22/08/201
Ravenswood Road Trenfi	eld Street - SEGPAR48036141	Permit	Y	22/08/201
Road - SEGPAR4801804	0; 48037028; 48036107; 48036156; 48036147; 48036158; 48037002; 48037005; 48037016; 48037055; 48037056; 48038027	Permit	Y	22/08/201
Sidley Street - SEGPAR48	036027	Permit	Y	22/08/2018
Trenfield Street - SEGPAR	148036037	Permit	Y	22/08/2018
LOT 1 ON MPH14437		Permit	Y	10/04/2018
LOT 1 ON MPH25975		Permit	Y	10/04/2018
LOT 1 ON MPH4897		Permit	Y	10/04/201
LOT 16 ON SP110134		Permit	Y	10/04/201
LOT 16 ON SP110134		Permit	Y	10/04/2018
LOT 2 ON MPH26030		Permit	Y	10/04/201
LOT 4851 ON SP242547		Permit	Y	10/04/201
Plum Tree Creek - SEGP	AR48018037; 48018041	Permit	N	22/08/201
Sandy Creek - SEGPAR48	3038011; 48036166	Permit	Ν	22/08/201
LOT 1 ON AP15549		Permit	N	22/08/201
LOT 1 ON MPH26009		Permit	Ν	22/08/201
LOT 1 ON MPH25937		Permit	N	22/08/201
LOT 101 ON R1628		Permit	Ν	22/08/201
LOT 101 ON E4741		Permit	N	22/08/201
LOT 102 ON E4741		Permit	Ν	22/08/201



Land identifier	Land usage	Compensation required	Finalised
LOT 103 ON R1628	Permit	N	22/08/2017
LOT 103 ON E4741	Permit	N	22/08/2017
LOT 104 ON E4741	Permit	N	22/08/2017
LOT 104 ON R1628	Permit	N	22/08/2017
LOT 105 ON R1628	Permit	N	22/08/2017
LOT 105 ON E4741	Permit	N	22/08/2017
LOT 106 ON E4741	Permit	N	22/08/2017
LOT 106 ON R1628	Permit	N	22/08/2017
LOT 107 ON R1628	Permit	N	22/08/2017
LOT 107 ON E4741	Permit	N	22/08/2017
LOT 108 ON E4741	Permit	N	22/08/2017
LOT 108 ON R1628	Permit	N	22/08/2017
LOT 109 ON R1628	Permit	N	22/08/2017
LOT 109 ON E4741	Permit	N	22/08/2017
LOT 110 ON E4741	Permit	N	22/08/2017
LOT 110 ON R1628	Permit	N	22/08/2017
LOT 111 ON R1628	Permit	N	22/08/2017
LOT 111 ON E4741	Permit	N	22/08/2017
LOT 112 ON E4741	Permit	N	22/08/2017
LOT 112 ON R1628	Permit	N	22/08/2017
LOT 113 ON R1628	Permit	N	22/08/2017
LOT 113 ON E4741	Permit	N	22/08/2017
LOT 114 ON E4741	Permit	N	22/08/2017
LOT 114 ON R1628	Permit	N	22/08/2017
LOT 115 ON R1628	Permit	N	22/08/2017
LOT 115 ON E4741	Permit	N	22/08/2017
LOT 116 ON E4741	Permit	N	22/08/2017
LOT 116 ON R1628	Permit	N	22/08/2017
LOT 117 ON R1628	Permit	N	22/08/2017
LOT 117 ON E4741	Permit	N	22/08/2017
LOT 118 ON E4741	Permit	N	22/08/2017
LOT 118 ON R1628	Permit	N	22/08/2017
LOT 119 ON R1628	Permit	N	22/08/2017
LOT 120 ON R1628	Permit	N	22/08/2017
LOT 13 ON AP9323	Permit	N	22/08/2017
LOT 161 ON USL48036	Permit	N	22/08/2017
LOT 17 ON USL48036	Permit	N	22/08/2017
LOT 2 ON AP15549	Permit	N	22/08/2017
LOT 201 ON R1628	Permit	N	22/08/2017
LOT 201 ON E4741	Permit	N	22/08/2017
LOT 202 ON E4741	Permit	N	22/08/2017
LOT 202 ON R1628	Permit	N	22/08/2017
LOT 203 ON R1628	Permit	N	22/08/2017
LOT 203 ON E4741	Permit	N	22/08/2017
LOT 204 ON E4741	Permit	N	22/08/2017
LOT 204 ON R1628	Permit	N	22/08/2017
LOT 205 ON R1628	Permit	N	22/08/2017
	- Cirili		00,2011



Land identifier	Land usage	Compensation required	Finalised
LOT 206 ON E4741	Permit	Ν	22/08/2017
LOT 206 ON R1628	Permit	N	22/08/2017
LOT 207 ON R1628	Permit	Ν	22/08/2017
LOT 207 ON E4741	Permit	N	22/08/2017
LOT 208 ON E4741	Permit	Ν	22/08/2017
LOT 208 ON R1628	Permit	N	22/08/2017
LOT 209 ON R1628	Permit	Ν	22/08/2017
LOT 209 ON E4741	Permit	N	22/08/2017
LOT 210 ON R1628	Permit	N	22/08/2017
LOT 211 ON R1628	Permit	N	22/08/2017
LOT 212 ON R1628	Permit	N	22/08/2017
LOT 213 ON R1628	Permit	N	22/08/2017
LOT 214 ON R1628	Permit	Ν	22/08/2017
LOT 215 ON R1628	Permit	N	22/08/2017
LOT 216 ON R1628	Permit	N	22/08/2017
LOT 217 ON R1628	Permit	N	22/08/2017
LOT 218 ON R1628	Permit	N	22/08/2017
LOT 219 ON R1628	Permit	N	22/08/2017
LOT 220 ON R1628	Permit	N	22/08/2017
LOT 3 ON AP15549	Permit	N	22/08/2017
LOT 301 ON R1628	Permit	N	22/08/2017
LOT 302 ON R1628	Permit	N	22/08/2017
LOT 303 ON R1628	Permit	N	22/08/2017
LOT 304 ON R1628	Permit	N	22/08/2017
LOT 305 ON R1628	Permit	N	22/08/2017
LOT 306 ON E4741	Permit	N	22/08/2017
LOT 306 ON AP15784	Permit	N	22/08/2017
LOT 307 ON AP15784	Permit	N	22/08/2017
LOT 307 ON E4741	Permit	N	22/08/2017
LOT 308 ON E4741	Permit	N	22/08/2017
LOT 309 ON E4741	Permit	N	22/08/2017
LOT 310 ON E4741	Permit	N	22/08/2017
LOT 311 ON E4741	Permit	N	22/08/2017
LOT 364 ON OL76	Permit	N	22/08/2017
LOT 382 ON OL77	Permit	N	22/08/2017
LOT 400 ON OL88	Permit	N	22/08/2017
LOT 401 ON E4741	Permit	N	22/08/2017
LOT 402 ON E4741	Permit	N	22/08/2017
LOT 403 ON E4741	Permit	N	22/08/2017
LOT 404 ON E4741	Permit	N	22/08/2017
LOT 405 ON E4741	Permit	N	22/08/2017
LOT 406 ON E4741	Permit	N	22/08/2017
LOT 407 ON E4741	Permit	N	22/08/2017
LOT 501 ON E4741	Permit	N	22/08/2017
LOT 502 ON E4741	Permit	N	22/08/2017
LOT 502 ON E4741	Permit	N	22/08/2017
LOT 504 ON E4741	Permit	N	22/08/2017
LOT 505 ON E4741	Permit	N	22/08/2017



Land identif	ier										Land Usage	Compensation required	Finalised
LOT 508 ON	E4741									F	Permit	Ν	22/08/2017
LOT 59 ON	USL48036									ł	Permit	Ν	22/08/2017
LOT 74 ON	USL48036									F	Permit	Ν	22/08/2017
LOT 90 ON	USL48036									F	Permit	Ν	22/08/2017
LOT 901 ON	I E4741									F	Permit	Ν	22/08/2017
Survey pl	Survey plans												
	No data available												
Relinquis	hment de	tails											
No data availa	able												
Sub-bloc	ks retaine	d											
No data availa	able												
- Term	history												
Ter	rm	Date notice issued	, Dat	e lodged	Date ap	proved	Date commenced	I Date	term ends	Term		Act granted u	under
2019 -	- 2039		22/	08/2017	13/05/	2019	01/06/2019	31	/05/2039	20 years		Mineral Reso 1989	urces Act
✓ Native title													
Outcome			Pro	cess									
Section 24M	D 6B Notifica	tion	s24	MD notification	IS								
- Purpo	ose and i	minerals											
Purpose													
	ater only, Wat	er manageme	ent										
		•											
- Relat	ed permi	ts											
No data availa	ble												
- Finan	cial												
Dont data	ile												
	Rent details												
Area units:	1117												
Rate/unit area: \$64.80													
- Activi	ities												
Activity	Activity /	Status	Date	Expected	Date				Remarks				
name	Dealing No	Status	received	completion	completed				Nethanks				
Mortgage	346562	Registered	16/04/2021		03/06/2021		ference:346562. A morto an Agency Services Aus SW 2000.						
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Ref Gold Pty Lt	ference:333986. Chang td .	ed name from	MINING GOLD	INVESTME	NT PTY	LTD to Ravens	wood

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



 Permit details 	
Permit ID:	ML 100145
Status:	Granted
Lodged date:	22/08/2017
Grant date:	13/05/2019
Commencement date:	01/06/2019
Expiry date:	31/05/2039
Current term:	20 years
Mining notice issued:	27/11/2017
Work program type:	
Conditions:	
Locality:	approximately 300m SW of Ravenswood PO
Remarks:	
Act permit granted under:	Mneral Resources Act 1989
Act now administered under:	Mneral Resources Act 1989

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder			
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes			
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020				
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	01/06/2019	11/09/2020				
Те	Tenancy type: Sole Holder								



usage required LOT 22 ON SP266614 Permit Y Q LOT 1 ON AP15923 Permit N 2 Survey plans No data available V Q Relinquishment details V V V V No data available V	ew Map								
Area: 1.0300 Hectares Surface area: 0.9700 Surface area: 0.6300 Exclusions: 0.6300 Exclusions: 0 Marked out date: 0 Sub-blocks 0 No data available Eackground land Land identifier Iand Compensation required LOT 22 ON SP266614 Permit Y Q Lot 11 ON AP15923 Permit Y Q Survey plans Survey plans Survey plans Survey plans Survey plans Survey plans No data available Survey plans Survey plans	arters Towers								
Surface area: 0.9700 Surface restricted area: 0.6300 Exclusions: Marked out date: Sub-blocks No data available Background land L0T 22 ON SP266614 Permit Y 0 L0T 10 N AP15923 Permit N 2 Survey plans Survey plans N 2 No data available Survey plans N 2 Sub-blocks retained: N 2 No data available Survey plans N 2 No data available Survey plans N 2 No data available Sub-blocks retained: N 2 No data available Sub-blocks retained: N 2 No data available Sub-blocks retained: No data available Sub-blocks retained:	arters Towers Regional Council								
Surface restricted area: 0.6300 Exclusions: Image: Superside and and available Sub-blocks Image: Superside and available Background land Image: Superside and available LoT 22 ON SP266614 Permit Y LOT 20 N SP266614 Permit Y LOT 10 N AP15923 Permit N Survey plans Permit N No data available Permit N Survey plans Survey plans No data available Survey plans N	300 Hectares								
Exclusions: Imarked out date: Marked out date: Imarked out date: Sub-blocks No data available Background land Land identifier Land identifier LoT 22 ON SP266614 LOT 22 ON SP266614 LOT 10 N AP15923 Permit No data available Relinquishment details No data available Sub-blocks retained No data available Sub-blocks retained No data available	700								
Marked out date: Sub-blocks No data available Background land Lot 22 ON SP266614 LOT 22 ON SP266614 LOT 10 N AP15923 Permit No data available Relinquishment details No data available Sub-blocks retained No data available Sub-blocks retained No data available									
Sub-blocks No data available Background land Land identifier Land identifier Land Compensation required Permit Y 0 LOT 22 ON SP266614 Permit Y 0 LOT 10 N AP15923 Permit N 1 Survey plans No data available Relinquishment details No data available Sub-blocks retained No data available									
No data available Background land Land identifier LOT 22 ON SP266614 Permit Y O LOT 22 ON SP266614 Permit Y LOT 10 N AP15923 Permit N I COT 10 N AP15923 Survey plans No data available Relinquishment details No data available Sub-blocks retained No data available Y Term history									
Background land Land identifier LOT 22 ON SP266614 LOT 12 ON AP15923 Permit Y Ot 22 ON SP266614 Permit V LOT 10 N AP15923 Survey plans No data available Relinquishment details No data available Sub-blocks retained No data available Y Term history									
Land identifier Land, compensation, required, service LoT 22 ON SP266614 Permit LOT 1 ON AP15923 Permit Survey plans No data available Relinquishment details No data available Sub-blocks retained No data available Term history Data mating									
usage required i LOT 22 ON SP266614 Permit Y 0 LOT 1 ON AP15923 Permit N 2 Survey plans No data available Survey plans Relinquishment details No data available Subblocks retained No data available Subblocks retained No data available Subblocks retained No data available Survey plans No data available Subblocks retained No data available									
LOT 1 ON AP15923 Permit N 2 Survey plans No data available Relinquishment details No data available Sub-blocks retained No data available - Term history	Finalised								
Survey plans No data available Relinquishment details No data available Sub-blocks retained No data available • Term history	rmit Y 05/03/2019								
No data available Relinquishment details No data available Sub-blocks retained No data available Term history	22/08/2017								
Relinquishment details No data available Sub-blocks retained No data available Term history	Survey plans								
No data available Sub-blocks retained No data available Term history									
Sub-blocks retained No data available Term history	Relinquishment details								
No data available Term history Act area	No data available								
✓ Term history									
Data nation									
Data nation									
Term Date lodged Date approved Date commenced Date term ends Term Act grad	anted								
2019 - 2039 22/08/2017 13/05/2019 01/06/2019 31/05/2039 20 years Resource 1989									

Outcome	Process
Section 31 Agreement	Existing agreement
An agreement is reached under a "Section 31" deed	Right to Negotiate



- Related permits

No data available

Financial Rent details

 Area units:
 2

 Rate/unit area:
 \$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Additional surface 362017 Close area		Closed(Withdrawn)	19/10/2021		15/12/2021	
Mortgage	346562	Registered	16/04/2021		03/06/2021	MMOL Reference:346562. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.00000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MNING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	4
Related permits	4
Financial	5
Activities	5



 Permit details 	
Permit ID:	ML 100146
Status:	Granted
Lodged date:	21/08/2017
Grant date:	13/05/2019
Commencement date:	01/06/2019
Expiry date:	31/05/2039
Current term:	20 years
Mining notice issued:	27/11/2017
Work program type:	
Conditions:	
Locality:	approximately 3.5km east of Ravenswood PO
Remarks:	
Act permit granted under:	Mneral Resources Act 1989
Act now administered under:	Mneral Resources Act 1989

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	01/06/2019	11/09/2020	
Te	enancy type: Sole Holder					



- Area								
Location:	<u>View Map</u>							
Mining district:	Charters 1	Towers						
Local authority:	Charters 1	Towers Regional C	Council					
Area:	17.1100 H	lectares						
Surface area:	17.1100							
Surface restricted an	ea:							
Exclusions:								
Marked out date:								
Sub-blocks								
No data available								
Background land	d							
Land identifier						Land usage	Compensation required	¹ Finalised
LOT 16 ON SP110134	1					Access	Y	10/04/2018
LOT 16 ON SP110134	1					Permit	Y	10/04/2018
LOT 13 ON AP9323						Access	Ν	22/08/2017
Survey plans								
No data available								
Relinquishment	details							
No data available								
Sub-blocks retai	ned							
No data available								
✓ Term histor	у							
Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act	granted er
2019 - 2039 21/08/2017 13/05/2019 01/06/2019			31/05/2039	20 ye	Mneral years Resources A 1989			
 Native title 								
Outcome Process								
100% exclusive land Exclusive Land (100%)								
 Purpose an 	d minoral	•						
		,						
Purpose								
Pipeline - water only,	Water managen	nent						
 Related per 	mits							
No data available								



Rent details									
Area units	Area units: 18								
Rate/unit a	area: \$64.80)							
Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks			
-	-	Status Registered		•					

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	4
Related permits	5
Financial	5
Activities	5



 Permit details 	
Permit ID:	ML 100147
Status:	Granted
Lodged date:	22/08/2017
Grant date:	13/05/2019
Commencement date:	01/06/2019
Expiry date:	31/05/2039
Current term:	20 years
Mining notice issued:	27/11/2017
Work program type:	
Conditions:	
Locality:	approximately 560m south of Ravenswood PO
Remarks:	
Act permit granted under:	Mneral Resources Act 1989
Act now administered under:	Mneral Resources Act 1989

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder		
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes		
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020			
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	01/06/2019	11/09/2020			
Tenancy type: Sole Holder								



✓ Area									
Location:	View Ma	<u>D</u>							
Mining district:		Charters Towers							
Local authority:	Charters	Charters Towers Regional Council							
Area:	0.2023 H	lectare							
Surface area:	0.2023								
Surface restricted a	rea:								
Exclusions:									
Marked out date:									
Sub-blocks									
No data available									
Background lan	d								
Land identifier						Land usage	Compensation required	Finalised	
LOT 1 ON R16235						Permit	Y	20/11/2018	
Survey plans									
No data available									
Relinquishment	details								
No data available									
Sub-blocks reta	ined								
No data available									
 Term histor 	·у								
Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act g unde	ranted r	
2019 - 2039		22/08/2017	13/05/2019	01/06/2019	31/05/2039	20 ye	Ars Reso 1989	ources Act	
Current process		Description							
Exclusive Land (100%	%)								
 Purpose ar 	nd minera	ls							
Minerals									
Copper Ore									
Gold									
Lead Ore									
Molybdenum Ore									
Silver Ore									
Zinc Ore									



- Related permits No data available Financial **Rent details** Area units: 1 Rate/unit area: \$64.80 - Activities Activity Activity / Expected Date Date Remarks Status name **Dealing No** received completion completed MVOL Reference:346562. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia 03/06/2021 346562 Registered 16/04/2021 Mortgage Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney

 Change of holder name
 333986
 Registered
 03/11/2020
 13/11/2020
 MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

able of Contents	2





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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	4
Related permits	5
Financial	5
Activities	5



 Permit details 	
Permit ID:	ML 100149
Status:	Granted
Lodged date:	22/08/2017
Grant date:	13/05/2019
Commencement date:	01/06/2019
Expiry date:	31/05/2039
Current term:	20 years
Mining notice issued:	27/11/2017
Work program type:	
Conditions:	
Locality:	approximately 330m south of Ravenswood PO
Remarks:	
Act permit granted under:	Mneral Resources Act 1989
Act now administered under:	Mneral Resources Act 1989

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder		
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes		
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020			
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	01/06/2019	11/09/2020			
Tenancy type: Sole Holder								



- Area									
Location:	View Map	<u>)</u>							
Mining district:		Charters Towers							
Local authority:	Charters	Charters Towers Regional Council							
Area:	1.3000 H	ectares							
Surface area:	1.3000								
Surface restricted a	rea:								
Exclusions:									
Marked out date:									
Sub-blocks									
No data available									
Background lan	d								
Land identifier						Land usage	Compensa require		Finalised
LOT 1 ON R16230						Permit	Y		20/11/2018
Survey plans No data available Relinquishment No data available	details								
Sub-blocks reta	inad								
No data available	ineu								
	24								
	У								
Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term		Act gra under	anted
2019 - 2039		22/08/2017	13/05/2019	01/06/2019	31/05/2039	20 ye	ars f	Minera Resou 1989	I Irces Act
 Native title 									
Current process		Description							
Exclusive Land (100%	%)								
	ld mineral	S							
Minerals									
Minerals Copper Ore									
Minerals Copper Ore Gold									
Copper Ore									
Copper Ore Gold									
Copper Ore Gold Lead Ore									



- Related permits No data available Financial **Rent details** Area units: 2 Rate/unit area: \$64.80 - Activities Activity Activity / Expected Date Date Remarks Status name **Dealing No** received completion completed MVOL Reference:346562. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia 03/06/2021 346562 Registered 16/04/2021 Mortgage Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney

 Change of holder name
 333986
 Registered
 03/11/2020
 13/11/2020
 MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	4
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



 Permit details 	Permit details						
Permit ID:	ML 100156						
Status:	Granted						
Lodged date:	13/10/2017						
Grant date:	13/05/2019						
Commencement date:	01/06/2019						
Expiry date:	31/05/2039						
Current term:	20 years						
Mining notice issued:	27/11/2017						
Work program type:							
Conditions:							
Locality:	approximately 2km south of Ravenswood Post Office						
Remarks:							
Act permit granted under:	Mneral Resources Act 1989						
Act now administered under:	Mneral Resources Act 1989						

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020	
	CARPENTARIA GOLD PTY. LTD.	100.00000000000	Former	01/06/2019	11/09/2020	
Tenancy type: Sole Holder						



- Area											
Location:	View Ma	p									
Mining district:	Charters	Towers									
Local authority:	Charters	Charters Towers Regional Council									
Area:	8.0000 H	.0000 Hectares									
Surface area:	8.0000	0000									
Surface restricted an	ea:										
Exclusions:											
Marked out date:											
Sub-blocks											
No data available											
Background land	d										
Land identifier		Land Compensation usage required Finalised									
LOT 18 ON AP3534		Permit N 22/08/2017									
LOT 18 ON AP3534					1	Access	Ν	22/08/2017			
Survey plans											
Relinquishment	dotails										
-	actans										
No data available Sub-blocks retai	nod										
No data available	neu										
 Term history 	у										
Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act g unde	ranted r			
2019 - 2039		13/10/2017 13/05/2019 01/06/2019 31/05/2039 20 years Mineral Resources Act 1989									
 Native title 											
Outcome			Process								

An agreement is reached under a "Section 31" deed Right to Negotiate



 Purpose and minerals 	
Purpose	
Tailings / settling dam	
Minerals	
Antimony Ore	
Bismuth Ore	
Copper Ore	
Gold	
Lead Ore	
Silver Ore	
Zinc Ore	

- Related permits

No data available

- Financial

Rent details

Area units: 8 Rate/unit area: \$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346562	Registered	16/04/2021		03/06/2021	MMOL Reference:346562. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.00000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

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Table of Contents

Table of Contents	2
Permit details	3
Holders	3
Area	4
Term history	4
Native title	5
Purpose and minerals	5
Related permits	5
Financial	5
Activities	5



 Permit details 	Permit details						
Permit ID:	ML 100172						
Status:	Granted						
Lodged date:	31/10/2017						
Grant date:	13/05/2019						
Commencement date:	01/06/2019						
Expiry date:	31/05/2039						
Current term:	20 years						
Mining notice issued:	27/11/2017						
Work program type:							
Conditions:							
Locality:	approximately 850m south of Ravenswood PO						
Remarks:							
Act permit granted under:	Mneral Resources Act 1989						
Act now administered under:	Mneral Resources Act 1989						

- Holders

Authorised holder representative (AHR)

Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO BOX 49 SPRING HILL LPO SPRING HILL QLD 4004

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder		
*	RAVENSWOOD GOLD PTY LTD Ravenswood Gold Mine Macrossan Street Ravenswood QLD 4816	100.000000000000	Current	13/11/2020		Yes		
	MINING GOLD INVESTMENT PTYLTD	100.00000000000	Former	11/09/2020	13/11/2020			
	CARPENTARIA GOLD PTY. LTD. 100.0000000000 Former 01/06/2019 11/09/2020							
Те	Tenancy type: Sole Holder							



✓ Area											
Location:	View Ma	p									
Mining district:	Charters										
Local authority:	Charters	harters Towers Regional Council									
Area:	58.4600	8.4600 Hectares									
Surface area:	58.4600										
Surface restricted area											
Exclusions:	xclusions:										
Marked out date:											
Sub-blocks											
No data available											
Background land											
Land identifier						Land usage	Compensation required	Finalised			
LOT 17 ON SP266614		Permit	Y	05/03/2019							
LOT 18 ON SP266614		Permit	Y	05/03/2019							
Joske Street - SEGPAR4		Permit	Y	22/08/2018							
Cemetery Road - SEGPAR45875014 Permit Y 22/08/2								22/08/2018			
Kerr Street - SEGPAR48	177053					Permit	Y	22/08/2018			
Road - SEGPAR480380	14					Permit	Y	22/08/2018			
Elcoate Street - SEGPAF	R48177036					Permit	Y	22/08/2018			
Elcoate Street Joske Stre	eet Kerr Stre	eet - SEGPAR48177	065			Permit	Y	22/08/2018			
LOT 1 ON AP3534						Permit	Ν	22/08/2017			
LOT 1 ON AP5702						Permit	Ν	22/08/2017			
LOT 18 ON AP3534						Permit	Ν	22/08/2017			
LOT 2 ON AP5702						Permit	Ν	22/08/2017			
LOT A ON AP22344						Permit	Ν	22/08/2017			
Survey plans No data available Relinquishment de No data available Sub-blocks retaine No data available											
 Term history 											
Term	ate notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act g under	ranted			
2019 - 2039		31/10/2017	13/05/2019	01/06/2019	31/05/2039	20 ye	Ars Reso 1989	urces Act			



 Native title 	P Native title					
Outcome	Process					
An agreement is reached under a "Section 31" deed	Right to Negotiate					
 Purpose and minerals 						
Purpose						
Mine waste / spoil dumps, Stock pile ore / overburder	1					
Minerals						
Copper Ore						
Gold						
Lead Ore						
Molybdenum Ore						
Silver Ore						
Zinc Ore						
- Related permits						

No data available

Rent details

- Financial

Area units:	59
Rate/unit area:	\$64.80

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Mortgage	346562	Registered	16/04/2021		03/06/2021	MMOL Reference:346562. A mortgage in an interest of Ravenswood Gold Pty Ltd 100.0000000000% to Global Loan Agency Services Australia Nominees Pty Limited (ACN 608 945 008), Level 26, 1 Bligh Street, Sydney NSW 2000.
Change of holder name	333986	Registered	03/11/2020		13/11/2020	MMOL Reference:333986. Changed name from MINING GOLD INVESTMENT PTY LTD to Ravenswood Gold Pty Ltd .

Permit

Environmental Protection Act 1994

Environmental authority EPML00979013

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Environmental authority number: EPML00979013

Environmental authority takes effect on 5 August 2022

Environmental authority holder(s)

Name(s)	Registered address
RAVENSWOOD GOLD PTY. LTD.	Lot 1 Macrossan St RAVENSWOOD QLD 4816

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Schedule 3 16: Mining gold ore	ML1337, ML1338, ML1379, ML1380, ML1394, ML1395, ML1412, ML1416, ML1417, ML1418, ML1435, ML1451, ML1452, ML1532, ML1574, ML1639, ML1640, ML1682, ML1692, ML1736, ML1753, ML10039, ML10040, ML10041, ML10170, ML10237, ML100143, ML100144, ML100145, ML100146, ML100147, ML100148, ML100149, ML100156, ML100172
Ancillary 08 - Chemical Storage 3: Storing more than 500 cubic metres of chemicals of class C1 or C2 combustible liquids under AS 1940 or dangerous goods class 3 under subsection (1)(c)	ML1337, ML1338, ML1379, ML1380, ML1394, ML1395, ML1412, ML1416, ML1417, ML1418, ML1435, ML1451, ML1452, ML1532, ML1574, ML1639, ML1640, ML1682, ML1692, ML1736, ML1753, ML10039, ML10040, ML10041, ML10170, ML10237, ML100143, ML100144, ML100145, ML100146, ML100147, ML100148, ML100149, ML100156, ML100172
Ancillary 30 - Metal smelting and refining 1: Processing in a year (a) 1t to 100t of gold	ML1337, ML1338, ML1379, ML1380, ML1394, ML1395, ML1412, ML1416, ML1417, ML1418, ML1435, ML1451, ML1452, ML1532, ML1574, ML1639, ML1640, ML1682, ML1692, ML1736, ML1753, ML10039, ML10040, ML10041, ML10170, ML10237, ML100143, ML100144, ML100145, ML100146, ML100147, ML100148, ML100149, ML100156, ML100172



Environmentally relevant activity/activities	Location(s)
Ancillary 31 - Mineral processing 2: Processing, in a year, the following quantities of mineral products, other than coke (b) more than 100,000t	ML1337, ML1338, ML1379, ML1380, ML1394, ML1395, ML1412, ML1416, ML1417, ML1418, ML1435, ML1451, ML1452, ML1532, ML1574, ML1639, ML1640, ML1682, ML1692, ML1736, ML1753, ML10039, ML10040, ML10041, ML10170, ML10237, ML100143, ML100144, ML100145, ML100146, ML100147, ML100148, ML100149, ML100156, ML100172
Ancillary 60 - Waste disposal 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b) (a) less than 2000t	ML10170, ML1682
Ancillary 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing- (c) category 2 regulated waste	ML10170, ML1682
Ancillary 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing- (d) category 1 regulated waste	ML10170, ML1682
Ancillary 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-i) more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	ML1395, ML1435, ML1753

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days);

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website <u>www.qld.gov.au</u>, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise-on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Sustainable Planning Act 2009* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.



Dean Sharpe Department of Environment and Science Delegate of the administering authority *Environmental Protection Act 1994* 5/8/22

Date

Enquiries: Minerals Business Centre Department of Environment and Science Phone: 07 4222 5352 Email: ESCairns@des.qld.gov.au

Obligations under the Environmental Protection Act 1994

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access state controlled roads), the Department of Resources (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

Obligations under the Mining and Quarrying Safety and Health Act 1999

If you are operating a quarry, other than a sand and gravel quarry where there is no crushing capability, you will be required to comply with the *Mining and Quarrying Safety and Health Act 1999*. For more information on your obligations under this legislation contact Mine Safety and Health at <u>www.resources.qld.gov.au</u>, or phone 13 QGOV (13 74 68) or your local Mines Inspectorate Office.

Development Approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of Environment and Science to ensure that you have the most current version of the environmental authority relating to this site.

Schedule A: General

- A1 This environmental authority authorises environmental harm referred to in the conditions. Where there is no condition or this environmental authority is silent on a matter, the lack of a condition or silence does not authorise environmental harm.
- A2 Contaminants with the potential to cause environmental harm must not be released directly or indirectly to the receiving environment, except as permitted under the conditions of this environmental authority.
- A3 In carrying out the activities the environmental authority holder must comply with 'Table A1 Authorised Activities and Locations' Domains, depicted in 'Schedule K Figure 1 (Project Infrastructure Layout)'.

	Location (GDA94 - Zone 55		DA94 - Zone 55)		
Mine Domain	Mine Feature Name	Tenure Type and Number	Central Pe	eg Coordinates	Maximum disturbance area
	Name	and Number	Easting	Northing	(ha)
	Potable water treatment plant	ML1639	489188	7777532	0.2 (constructed within the current authorised footprint of the Acoustic Bund)
	Reverse osmosis treatment plant	ML1574	489169	7776334	0.6
	Sewage treatment plant	ML1753 ML1435	488367	7778318	0.8
	Sarsfield workshop and office area	ML1682 ML10237	490048	7776857	4.6
	Sarsfield plant site & conveyors	ML1682	489857	7776526	38.3
	Mine village	ML1753	488937	7778625	12.2
	Nolans plant site	ML1394 ML1574 ML1682 ML10170	489513	7775782	29.5
	Nolan's mining support infrastructure	ML1574 ML10170	489084	7775776	19.9
Infrastructure	Buck Reef mining support infrastructure	ML1380 ML100172 ML100148	487976	7776449	53.2
	Buck Reef site	ML1412 ML1574 ML1380 ML1001145 ML100172	488286	7776738	8.2
	Ravenswood roads & tracks	ALL	489706	7776038	40.8
	Mt Wright roads & tracks	ML1338 ML1435	482373	7784161	3.3
	Mt Wright workshop and office area	ML1435	482345	7783744	10

Table A1 – Authorised Activities and Locations

Page 5 of 65 • ESR/2016/3415 • Version 2.06 • Last reviewed: 16 AUG 2021

Department of Environment and Science

			Location (G	DA94 - Zone 55)	
Mine Domain	Mine Feature Name	Tenure Type and Number	Central Peg	Coordinates	Maximum disturbance area (ha)
	Name		Easting	Northing	
	Old Nolans Tailings Storage Facility	ML10170	488623	7774982	104
	Nolans Tailings Storage Facility Expansion	ML10170 ML1682 ML100156	489100	7774500	160
Tailings	Dry Stack Tailings Storage Facility	ML1394 ML1574 ML1682	489951	7776323	76 (constructed within the current authorised footprint of the Sarsfield ROM & mineralised waste dumps, Sarsfield waste rock dump, Sarsfield plant site & conveyors, and the Nolan's Pit)
	Landfill facility	ML1682	490490	7774992	13.5
	Existing landfill facility	ML1682 ML10170	489948	7774814	6.5 (within the authorised footprint of Nolans Tailings Storage Facility Expansion)
	Nolans waste rock dump	ML1682	490301	7775388	29.6
	Sarsfield waste rock dump	ML1682	490731	7776203	118.9
	Nolans ROM & mineralised waste dumps	ML1394 ML1574 ML1682 ML10170	489792	7775634	20.6
	Sarsfield ROM & mineralised waste dumps	ML1379 ML1574 ML1682 ML10237	489749	7776866	10.9
Overburden and Waste	Buck Reef West waste rock dump	ML1574 ML10170 ML100172	488629	7776061	34.8
	Buck Reef West ROM	ML1574 ML10170 ML100172	488806	7775657	20.0
	Mt Wright waste rock dump & ROM	ML1435	482207	7783892	6.4
	Process water pond	ML1574	489321	7775847	1.4
	TSF dam	ML1682	490397	7775859	0.7
Water	Mt Wright sediment management	ML1435	482172	7783981	0.8
management	Sarsfield water management	ML1682	491338	7776061	24.4
	Nolan's water management	ML1682 ML10170 ML100144	489865	7775233	24.1
	Buck Reef West water management	ML1574 ML100172 ML10170	488280	7775984	2.1

Permit

Environmental authority EPML00979013

	Location (GDA94 - Zone 55)				
Mine Domain	Mine Feature	Tenure Type	Central Peg C	oordinates	Maximum disturbance area (ha)
	Name	and Number	Easting	Northing	
Water management	Seepage recovery	ML1380 ML1574 ML1640 ML1682 ML1692 ML100172 ML10170 ML100144	489706	7776038	10
	Underground water supply infrastructure	ML10039	492048	7775630	0.3
Sarsfield Pit		ML1337 ML1379 ML1380 ML1416 ML1417 ML1418 ML1574 ML1539	489249	7776922	65
Pits	Nolans Pit	ML1394 ML1574 ML1682	489762	7776114	32.5
	Buck Reef West Pit	ML1574 ML1380 ML1412 ML1532 ML100145 ML100149 ML100172	488339	7776770	40.0
	Heap leach pads 1 and 2	ML1640	491905	7776993	16.9
	Golf course/ Historic Mellaneur Pit	ML1395 ML1753	488330	7778063	10.5
	Waste rock dump 1 (SYC & OCA)	ML1379 ML1639	489336	7777505	4.7
Historic mining area	Sandy Creek Tailings Storage Facility	ML1640 ML1736	491680	7777581	13.8
	Mt Wright historic workings and exploration	ML1338 ML1435	482610	7784276	6.3
	Sandy Creek plant site	ML1640 ML168 ML1692 ML100143	491589	7777016	26.1
Other	Sarsfield acoustic bund	ML1337 ML1380 ML1379 ML1639	488832	7776986	11.2

Mine Domain	Mine Feature		Location (G	3DA94 - Zone 55)	Maximum disturbance
wine Domain	Name	Tenure Type and Number	Central Peg	g Coordinates	area (ha)
			Easting	Northing	
Other	Buck Reef West acoustic bund	ML1380 ML1412 ML1574 ML100172 ML100147 ML100148 ML100145	487959	7776765	13.2
	Helipad	ML10170	488039	7775371	0.2
	Topsoil stockpiles	ML1682 ML10170 ML100172 ML1574	489932	7774790	28.2

- A4 The environmental authority holder must:
 - a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and
 - b) maintain such measures, plant and equipment in a proper and efficient condition; and
 - c) operate such measures, plant and equipment in a proper and efficient manner; and
 - d) ensure all instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority are properly calibrated
- A5 Except where specified otherwise in another condition of this environmental authority, all monitoring records or reports required by this environmental authority must be kept for a period of not less than five years.
- A6 The date and time when the sample was taken must be recorded in relation to all monitoring required under a condition of this environmental authority.
 - a) the date and time when the sample was taken;
 - b) the location where the sample was taken; and
 - c) any other pertinent details of relevance to interpreting the sampling results (i.e. stream flow, wind conditions or any unusual observations such as odour or colouration)
- A7 All monitoring data, records and reports required by this environmental authority or related to environmental management of the activities must be carried out by an appropriately qualified person, periodically reviewed and updated as required to reflect operational or environmental changes.
- A8 All monitoring data, records, plans and reports required by this environmental authority or related to environmental management of the activities must be provided to the administering authority in the specified format within 10 business days of a request.
- A9 The environmental authority holder must ensure that an estimated rehabilitation cost decision is in effect for the activity; and
 - a) a contribution has been paid to the scheme fund in the amount and form required; or
 - b) a surety has been given for the authority in the amount and form required

- A10 Where a change in activities will, or is likely to, increase the maximum amount of disturbance caused by the activity, or the estimated rehabilitation cost for the activity, the holder must re-apply for an estimated rehabilitation cost decision.
- A11 The environmental authority holder must implement and maintain a risk management system for activities which mirrors the content requirement of the Standard for Risk Management (ISO31000:2009), or the latest edition of an Australian standard for risk management, to the extent relevant to environmental management.
- A12 The environmental authority holder must notify the administering authority by telephone or email notification within 24 hours, after becoming aware of any event, emergency or incident, which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with, the conditions of this environmental authority.
- A13 Within 10 business days following the initial notification of an emergency, event or incident, or receipt of monitoring results, whichever is the latter, further written advice must be provided to the administering authority, including the following:
 - a) results and interpretation of any samples taken and analysed;
 - b) outcomes of actions taken at the time to prevent or minimise unlawful environmental harm; and
 - c) proposed actions to prevent a recurrence of the emergency or incident
- A14 The environmental authority holder must record all environmental complaints received about the activities and provide to the administering authority on request, including:
 - a) name, address and contact number of the complainant;
 - b) time and date of complaint;
 - c) reasons for the complaint;
 - d) investigations undertaken;
 - e) conclusions formed;
 - f) actions taken to resolve the complaint;
 - g) any abatement measures implemented; and
 - h) person responsible for resolving the complaint.
- A15 The environmental authority holder must, when requested by the administering authority, undertake relevant specified monitoring within a reasonable timeframe nominated or agreed to by the administering authority to investigate any complaint of environmental harm. The results of the investigation (including an analysis and interpretation of the monitoring results) and abatement measures, where implemented, must be provided to the administering authority within 10 business days of completion of the investigation, or no later than 10 business days after the end of the timeframe nominated by the administering authority to undertake the investigation.
- A16 The environmental authority holder must:
 - a) by 5 March 2024, obtain from an appropriately qualified person a report on compliance with the conditions of this environmental authority
 - b) obtain further such reports at regular intervals, not exceeding three (3) yearly intervals, from the completion of the report referred to above; and
 - c) provide each report to the administering authority within 90 days of its completion

- A17 Where a condition of this environmental authority requires compliance with a standard, policy or guideline published externally to this environmental authority and the standard is amended or changed subsequent to the issue of this environmental authority, the holder of this environmental authority must:
 - a) comply with the amended or changed standard, policy or guideline within two years of the amendment or change being made, unless a different period is specified in the amended standard or relevant legislation, or where the amendment or change relates specifically to regulated structures referred to in 'Table I1 – Hydraulic Performance Criteria', the time specified in that condition.
 - b) until compliance with the amended or changed standard, policy or guideline is achieved; continue to remain in compliance with the corresponding provision that was current immediately prior to the relevant amendment or change
- A18 The environmental authority holder is authorised to receive and process up to 10,000m³ of mineral product from ML10283 between **9 September 2021** and **31 August 2022**.

END OF SCHEDULE A

Schedule B: Air

- B1 The release of noxious or offensive odour, dust or any other airborne contaminant resulting from the activities must not cause environmental harm.
- B2 The environmental authority holder must ensure that avoidance and mitigation measures are employed so that the dust and particulate matter emissions generated by the activities do not cause exceedances of the following levels when measured at any sensitive or commercial place:
 - a) Dust deposition of 120 milligrams per square metre per day, averaged over one month, when monitored in accordance with the most recent version of Australian Standard AS3580.10.1 Methods for sampling and analysis of ambient air—Determination of particulate matter—Deposited matter – Gravimetric method.
 - b) A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometres (PM10) suspended in the atmosphere of 50 micrograms per cubic metre over a 24-hour averaging time, for no more than five exceedances recorded each year, when monitored in accordance with the most recent version of either:
 - i. Australian Standard AS3580.9.6 Methods for sampling and analysis of ambient air— Determination of suspended particulate matter—PM10 high volume sampler with sizeselective inlet – Gravimetric method, or
 - Australian Standard AS3580.9.9 Methods for sampling and analysis of ambient air— Determination of suspended particulate matter—PM10 low volume sampler—Gravimetric method.
 - iii. Standards Australia AS3580.9.8 Methods for sampling and analysis of ambient air-Determination of suspended particulate matter – PM10 continuous direct mass method using a tapered element oscillating microbalance analyser; or
 - iv. Standards Australia AS3580.9.11 Methods for sampling and analysis of ambient air-Determination of suspended matter PM10 beta attenuation monitors.
 - c) A concentration of particulate matter with an aerodynamic diameter of less than 2.5 micrometres (PM2.5) suspended in the atmosphere of 25 micrograms per cubic metre over a 24-hour averaging time, when monitored in accordance with the most recent version of AS/NZS3580.9.10 Methods for sampling and analysis of ambient air—Determination of suspended particulate matter—PM (sub) 2.5(/sub) low volume sampler—Gravimetric method.
 - d) A concentration of particulate matter suspended in the atmosphere of 90 micrograms per cubic metre over a 1-year averaging time, when monitored in accordance with the most recent version of AS/NZS3580.9.3:2003 Methods for sampling and analysis of ambient air—Determination of suspended particulate matter—Total suspended particulate matter (TSP)—high volume sampler gravimetric method.
 - e) Use of other equipment is authorised as agreed to by the administering authority.
- B3 The environmental authority holder must implement and maintain a Dust Management Plan that includes details of dust abatement measures to ensure compliance with condition B1 and condition B2.

END OF SCHEDULE B

Schedule C: Waste

- C1 All waste generated must be disposed of in a lawful manner at an off-site facility, with the exception of:
 - a) Waste rock and tailings, which must be characterised, handled and disposed of in accordance with condition C10;
 - b) General waste disposed of at the landfill facility in accordance with conditions C3 to C9; and
 - c) Tyres, in accordance with condition C2.
- C2 Waste tyres generated from activities conducted on the licensed place may be disposed of on site in nonacid forming waste rock at the licensed place.
- C3 The environmental authority holder must develop, implement and maintain a waste disposal activity management plan that includes measures to ensure compliance with conditions C4 to C9 and E23 of this authority.
- C4 All reasonable and practicable measures must be taken to contain litter within the waste operations area, and retrieve litter released.
- C5 The landfill unit must be operated and managed to minimise the generation of leachate including a system of suitable diversion drains or embankments to divert surface waters away from any area where contact with wastes or contaminants may occur.
- C6 Only general waste can be received at the landfill facility.
- C7 Deposited waste must be covered as soon as practicable to limit stormwater infiltration, prevent exposure of waste, and prevent issues arising from vectors and pest species.
- C8 Unless otherwise permitted by the conditions of this environmental authority or with prior approval from the administering authority and in accordance with a relevant standard operating procedure, waste must not be burnt.
- C9 When the deposition of waste to the landfill unit ceases, a final capping system to the landfill unit must be designed by an appropriately qualified person and installed to minimise:
 - a) infiltration of water into the landfill unit and water ponding on the surface; and
 - b) the likelihood of any erosion occurring to either the final capping system or the landfilled materials

A final capping system is not required where the deposition of waste to a landfill unit ceases temporarily for the purpose of using an alternative working face.

- C10 All waste rock and tailings must be:
 - a) geochemically characterised and disposed of in a manner that minimises the potential generation and/or release of contaminants to the receiving environment; and
 - b) where the geochemical characteristics of waste rock is uncertain, this material must be treated as potentially acid forming until demonstrated otherwise; and
 - c) details pertaining to meeting the requirements of this condition must be recorded and retained until this environmental authority is surrendered
- C11 The environmental authority holder must prepare, implement and maintain a Waste Rock and Tailings Disposal Plan that includes details of waste rock and tailings management to ensure compliance with condition C10 and C12.

- C12 The Buck Reef West waste rock dump must be designed and constructed to ensure that contaminated water originating from the Buck Reef West waste rock dump is not:
 - a) released directly or indirectly to any surface waters, except as permitted under the conditions of this environmental authority; or
 - b) released to groundwater

END OF SCHEDULE C

Schedule D: Noise

- D1 The environmental authority holder must ensure that noise generated by the mining activities does not cause environmental harm at any sensitive or commercial place.
- D2 The environmental authority holder must develop and implement a Noise Monitoring and Management Program to monitor and ensure compliance with the noise triggers specified in 'Table D1 – Noise triggers' and the noise limits specified in 'Table D2 – Noise limits' at any sensitive or commercial place.
- D3 If a complaint is received and the noise levels measured at a sensitive or commercial place exceeds the trigger levels specified in 'Table D1 Noise triggers', the holder of this environmental authority must implement reasonable and practicable noise abatement measures to address the complaint.

Sensitive place	Sensitive place										
Noise level dB(A) measured as:	Trigger level - Monday to Saturday (excluding public holidays)			Trigger level - Sundays and public holidays							
	7am to 6pm	6pm to 10pm	10pm to 7am	9am to 6pm	6pm to 10pm	10pm to 9am					
	CV = 50	CV = 45	CV = 40	CV = 45	CV = 40	CV = 35					
LAeq, adj, 15 mins	AV = 5	AV = 5	AV = 0	AV = 5	AV = 5	AV = 0					
	CV = 55	CV = 50	CV = 45	CV = 50	CV = 45	CV = 40					
LA1, adj, 15 mins	AV = 10	AV = 10	AV = 5	AV = 10	AV = 10	AV = 5					

Table D1 – Noise triggers

Commercial place

Noise level dB(A)	Trigger level - Monday to Saturday (excluding public holidays)			Trigger level - Sundays and public holidays		
measured as:	7am to 6pm	6pm to 10pm	10pm to 7am	7am to 6pm	6pm to 10pm	10pm to 7am
	CV = 55	CV = 50	CV = 45	CV = 50	CV = 45	CV = 40
LAeq, adj, 15 mins	AV = 10	AV = 10	AV = 5	AV = 10	AV = 10	AV = 5

Notes:

1. CV = Critical Value

2. AV = Adjustment Value

3. To calculate noise limits in Table D1:

If $bg \leq (CV - AV)$: Noise limit = bg + AV

If $(CV - AV) < bg \le CV$: Noise limit = CV

If bg > CV: Noise limit = bg + 0

4. In the event that measured bg (LA90, adj, 15 mins) is less than 30 dB(A), then 30 dB(A) can be substituted for the measured background level

5. bg = background noise level (LA90, adj, 15 mins) measured over 3-5 days at the nearest sensitive receptor

6. If the project is unable to meet the noise limits as calculated above alternative limits may be calculated using the processes outlined in the "Planning for Noise Control" guideline

D4 The environmental authority holder must ensure that noise generated by the mining activities does not cause an exceedance of any noise level criterion specified in 'Table D2 – Noise limits' at any sensitive or commercial place.

	Noise level criteria						
Noise level dB(A) measured as:	Daytime and even	ing (7am to 10pm)	Night time (10pm to 7am)				
	Sensitive or commercial place (indoor)	Sensitive or commercial place (outdoor)	Sensitive or commercial place (indoor)	Sensitive or commercial place (outdoor)			
LAeq, adj, 1 hour	35 ¹	44 ²	30 ¹	39 ²			
L _{Amax}	-	-	42 ²	-			
LA10,adj,1hr	40 ¹	49 ²	35 ¹	44 ²			
LA1,adj,1hr	45 ¹	54 ²	40 ¹	49 ²			

Table D2 – Noise limits

Notes:

1. Based on Schedule 1 of the Environmental Protection (Noise) Policy 2008

2. Site specific number proposed by the environmental authority holder

- D5 When requested by the administering authority, noise monitoring must be undertaken within a reasonable and practicable timeframe nominated by the administering authority to investigate any complaint (which is neither frivolous nor vexatious nor based on mistaken belief in the opinion of the authorised officer) of environmental nuisance at any sensitive or commercial place, against the noise limits specified in 'Table D2 Noise limits'.
- D6 The environmental authority holder must implement the mitigation measures proposed in "Appendix B Supportive information to the EA amendment application for the Sarsfield Expansion Project Noise and Vibration" (reference 620.11471-R02-v2.0) prepared by SLR Consulting Australia Pty Ltd dated 19 September 2016 or other mitigation measures deemed reasonable and practicable by the administering authority, prior to commencement of the Sarsfield Expansion Project mining activities.
- D7 The environmental authority holder must ensure that blasting does not cause the limits for peak particle velocity and airblast overpressure in 'Table D3 Blasting noise limits' to be exceeded at a sensitive place or commercial place.

	Sensitive or commercial blasting noise limits place limits							
Blasting noise limits	7am to 6pm Monday to Friday	9am to 6pm Saturday, Sunday and Public Holidays	6pm to 7am Monday to Friday, and 6pm to 9am Saturday, Sunday and Public Holidays					
Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time	No Blasting					
Ground vibration peak particle velocity	5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time	5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time	No Blasting					

Table D3 – Blasting noise limits

- D8 Noise monitoring and recording must include the following descriptor characteristics and matters:
 - a) LAN,T (where N equals the statistical levels of 1, 10 and 90 and T = 15 mins);
 - b) Background noise LA90;
 - c) The level and frequency of occurrence of impulsive or tonal noise and any adjustment and penalties to statistical levels;
 - d) Atmospheric conditions including temperature, relative humidity and wind speed and directions;
 - e) Effects due to any extraneous factors such as traffic noise;
 - f) Location, date and time of monitoring;
 - g) If the complaint concerns low frequency noise, Max LpLIN,T and one-third octave band measurements in dB(LIN) for centre frequencies in the 10 200 Hz range
- D9 The environmental authority holder must develop and implement a blast monitoring program to monitor compliance with 'Table D3 Blasting noise limits' for:
 - a) At least 90% of all blasts undertaken on this site in each month at the nearest sensitive place or commercial place at the township of Ravenswood; and
 - b) All blasts conducted during any time period specified by the administering authority at the nearest sensitive place or commercial place.

END OF SCHEDULE D

Schedule E: Water

- E1 Contaminants that will, or have the potential to cause environmental harm must not be released directly or indirectly to any waters, except as permitted under the conditions of this environmental authority.
- E2 The release of contaminants to waters must only take place from a release point specified in 'Table E1 Authorised contaminant release points'.

Release Point	Location (GDA 94 - Zone 55)		Release	Monitoring	Receiving waters
(RP)	Easting	Northing	source	point	description
RP1	489650	7778179	Reverse Osmosis Treatment Plant	Reverse Osmosis Permeate Tank	Upstream of SW057_SAR, Suhrs Creek
RP2	489895	7775300	Sediment Dam Nolan's West	Dam spillway	Sandy Creek
RP3	490947	7775480	Sediment Dam Waste Rock Dump South	Dam spillway	Sandy Creek
RP4	489641	7775512	Sediment Dam Processing Plant	Dam spillway	Sandy Creek
RP5	482138	7783961	Mt Wright Dam	Dam spillway	Tributary of Kirk River
RP6	488183	7775800	Buck Reef West Waste Rock Dump	Dam spillway	Elphinstone Creek

Table E1 – Authorised contaminant release points

E3 The release of contaminants to waters must only take place in accordance with all criteria for release specified in 'Table E2 – Contaminant release criteria and recording'.

Receiving	Release		Gauging statio	n	Recording	Criteria for
waters description	Point (RP)	Description	Easting (GDA94, Zone 55)	Northing (GDA94, Zone 55)		release
						Maximum
						release of
Suhrs	RP1		N/	A		4ML/day; and
Creek					Maximum rate of	
oroon						release 46L/s.
Sandy Creek	RP 2					
Sandy Creek	RP 3	SW095_SAR	491315	7775390		Must only occur when there is a continuous
Sandy Creek	RP 4				Continuously in m ³ /sec	record of natural flow at the
Tributary of Kirk River	RP 5	SW024_MTW	481895	7784160		relevant gauging station.
Elphinstone Creek	RP 6	SW079_SAR	488347	7777421		

Table E2 - Contaminant release criteria and recording

- E4 During the release of contaminants to waters from a release point specified in 'Table E1- Authorised contaminant release points', the environmental authority holder must continuously measure and record the rate of contaminant release in cubic metres per second (m³/sec) at the release point.
- E5 During the release of contaminants to waters from a release point specified in 'Table E1- Authorised contaminant release points', the environmental authority holder must continuously measure and record the relevant receiving waters streamflow at the gauging station specified in 'Table E2 Contaminant release criteria and recording'.
- E6 The release of contaminants to waters from a location specified in 'Table E1 Authorised contaminant release points' must not exceed any release limit specified in 'Table E3 Contaminant release limits'.

Contaminant ^[3]	Release Limits	Release Limits for all other release points in ase Limits Table E1 ^{[10][15]}		
Contaminant ¹⁹¹	for RP1 ^[15]	T <=48 hrs	T>48 hrs	Monitoring Frequency
Electrical conductivity (µS/cm)	650 ^[1]	M ^[12,13]	x 150 ^[11]	Every 15
pH (pH Unit)	6.5-8.5 ^[8]	6.5	-8.5 ^[8]	minutes during a
Turbidity (NTU)	7.5 ^[1]	For interpret	ation purposes	- release
Total Suspended Solids	N/A	62	For all release points	
Sulfate	TBD ^[1]	Т	3D ^[1]	Daily during
Aluminium	0.055 ^[5]	M ^[12,13] x 0.15 ^[9]	M ^[12,13] x 0.055 ^[5]	release (the first
Arsenic	0.013 ^[5]	M ^[12,13] x 0.14 ^[9]	M ^[12,13] x 0.013 ^[5]	sample must be
Cobalt	TBD ^[1]			taken within 2
Copper	0.0014 ^[5]	M ^[12,13] x 0.0025 ^[9]	M ^[12,13] x 0.0014 ^[5]	hours of
Manganese	1.9 ^[5]	M ^[12,13] x 3.6 ^[9]	M ^[12,13] x 1.9 ^[5]	commencement
Molybdenum	0.034 ^[4]	0.034 ^[4]	0.034 ^[4]	of release)
Uranium	TBD ^[1]			
Zinc	0.008 ^[5]	M ^[12,13] x 0.031 ^[9]	M ^[12,13] x 0.008 ^[5]	For RP1 only
Cyanide (as un-ionised HCN, measured as [CN])	0.007 ^[5]	M ^[12,13] x 0.018 ^[9]	M ^[12,13] x 0.007 ^[5]	Once a week after seven days consecutive
Nitrate (as N)	2.4[6]	M ^[12,13] x 6.9 ^[7]	M ^[12,13] x 2.4 ^[6]	release
Major ions		For interpretation purp	oses]
Hardness		··· [···· [··· [

Table E3 – Contaminant release limits

Notes:

[1] TBD means to be updated by 31 January 2023 based on locally derived reference values via an amendment application.

[2] WQO 80th percentile for Upper Burdekin sub-basin waters during event flow

[3] All metals and metalloids must be measured as both 'total' (from analysis of an unfiltered sample) and 'dissolved' (from analysis of a field filtered sample). Contaminant trigger values for metals relate to dissolved concentrations

[4] Based off ANZECC (2000) low reliability metals and metalloids, Section 8.3.7.1

[5] Based off ANZECC (2000) value for long-term 95% species protection, Table 3.4.1

[6] Based off Hickey & Martin (2009) value for long-term 95% species protection

Based off Hickey & Martin (2009) value for long-term 80% species protection [7]

[8] WQO for Upper-Burdekin sub-basin waters[9] Based off ANZECC (2000) value for long-term 80% species protection, Table 3.4.1

[10] Based on time since commencement of release from the release point measured in hours (T).

[11] 80th percentile of site specific reference data during pulse flows (SW066_SAR)

[12] $M = 0.8 \times (volume of streamflow at the relevant gauging station / volume of release).$

[13] The maximum authorised value for M = 5

[14] Successive or intermittent releases occurring within two (2) days of the cessation of any individual release from a release point are considered part of a single release event for the purpose of compliance with Table E3.

[15] Units are mg/L unless specified otherwise.

- E7 The release of contaminants to surface waters from the release points must be monitored at the locations specified in 'Table E1- Authorised contaminant release points'.
- E8 The release of contaminants to surface waters from the release points must be monitored at the frequency specified in 'Table E3 - Contaminant release limits'.

- E9 The release of contaminants to surface waters from the release points must be monitored for each contaminant specified in 'Table E3 Contaminant release limits'.
- E10 Releases to waters must be undertaken so as to not cause erosion of the bed and banks of the receiving waters, or cause a material build-up of sediment in waters.
- E11 The environmental authority holder must monitor water quality within each release source in 'Table E1 Authorised contaminant release points', other than the Reverse Osmosis Treatment Plant, in a manner sufficient to determine the quality of stored water prior to any release and establish likely compliance with condition E6.
- E12 At any one time the environmental authority holder can only release contaminants from either release point RP2 or RP3 or RP4 in 'Table E1 Authorised Contaminant Release Points' and in accordance with the conditions of this environmental authority.
- E13 The administering authority must be notified by telephone or email of any release from release point RP1 at least 2 business days prior to any release commencing, and at least 2 business days prior to the cessation of any release.
 - Note: Successive or intermittent releases occurring within two (2) days of the cessation of any individual release can be considered part of a single release event and do not require individual notification for the purpose of compliance with condition E13.
- E14 The environmental authority holder must notify the administering authority via WaTERS before commencing the release of contaminants from release points other than RP1.
- E15 During the release of contaminants from a release point in 'Table E1 Authorised contaminant release points', other than RP1, all electronic data measured and recorded in accordance with conditions E4 and E5 must be reported to the administering authority daily via WaTERS for time intervals of fifteen minutes.
- E16 The notification required by condition E14 must include the submission of the following information:
 - a) Estimated release commencement date/time;
 - b) Expected release cessation date/time;
 - c) Any details (including available data) regarding likely impacts on the receiving water(s);
 - d) Release point/s;
 - e) Release volume (estimated);
 - f) Release pH, Total Suspended Solids and salinity; and
 - g) Receiving water/s including flow rate in m³/sec at the relevant gauging station.

If for unforeseen technical reasons WaTERS is unavailable, please contact the administering authority in writing.

- E17 The environmental authority holder must notify the administering authority via WaTERS no later than 48 hours after cessation of a release event notified under condition E14.
- E18 Within 28 days of cessation of a release event the environmental authority holder must provide the following information via WaTERS to the administering authority:
 - a) Release cessation date/time;
 - b) Natural flow rate in receiving water at the time of cessation;
 - c) Volume of water released;

- d) Details regarding the compliance of the release with the conditions of this environmental authority, including calculated release limits, natural flow and discharge volume.
- e) All in-situ water quality monitoring results;
- f) All laboratory analysis of water quality monitoring results; and
- g) Any other matters pertinent to the water release event.

Note: Successive or intermittent releases occurring from a single release point within two days of the cessation of any individual release are considered part of a single release event and do not require individual notification for the purpose of compliance with condition E18.

- E19 The environmental authority holder must implement and maintain a contaminant release management plan, which details how controlled releases are to be managed to ensure compliance with the conditions of this environmental authority.
- E20 The environmental authority holder must notify all potentially affected downstream landholders and other affected parties of a release of contaminants from a release point in 'Table E1 Authorised contaminant release points'. The notification must provide all relevant information to assist the affected downstream landholders and parties with the effective management of property and services.
- E21 If any of the release limits defined in 'Table E3 Contaminant release limits' are exceeded, the holder of the environmental authority must notify the administering authority via WaTERS within 24 hours of receiving the results.

If for unforeseen technical reasons WaTERS is unavailable, please contact the Pollution Hotline.

- E22 The environmental authority holder must, within 28 days of a release of contaminants in accordance with condition E2 that is not compliant with the conditions of this environmental authority, provide a report to the administering authority via WaTERS detailing:
 - a) the reason for the release; and
 - b) the location of the release; and
 - c) the total volume of the release and which (if any) part of this volume was non-compliant; and
 - d) the total duration of the release and which (if any) part of this period was non-compliant; and
 - e) all water quality monitoring results (including all laboratory analyses); and
 - f) identification of any environmental harm as a result of the non-compliance; and
 - g) all calculations of quality and flow; and
 - h) any other matters pertinent to the water release event.

If for unforeseen technical reasons WaTERS is unavailable, please contact the Pollution Hotline.

E23 Receiving waters must be monitored at the locations specified in 'Table E4 – Receiving waters and sediment monitoring sites'.

Description of waters	Monitoring site name	Monitoring site description	Location (GDA94,	* Zone 55)	Monitoring freque	ncy (waters
			Easting	Northing	Monthly during the wet season and every 3 months during the dry season ^[4]	Daily during contaminant release ^{[3][6]}
		Sandy	Creek Cate	chment		
Control site	s ^[1]					
Sandy Creek	SW019_SC	1.7 km upstream of RP3	492778	7776589	Yes	Yes
	SW015_SC ^[2]	1.5 km upstream of RP3, downstream of Sandy Creek Mine Site	492251	7775999	Yes	No
	SW020_SC	Upstream of Sarsfield Creek and RP2 input	491634	7775540	Yes	Yes
Plumtree Creek	SW050_NOL	Upstream of confluence with Sandy Creek	491172	7773423	Yes	No
Compliance	sites		1			
Sarsfield Creek	SW014_SC	Upstream of RP2	491411	7775987	Yes	No
Sandy Creek	SW087_SAR	Downstream of RP3	490955	7774866	Yes	No
	SW011_NOL	Downstream of RP2, RP3 and RP4	490446	7774109	Yes	No
	SW007_NOL	Downstream of all Sandy Creek RP's	489044	7772980	Yes	Yes
Plumtree Creek	SW056_NOL	Downstream of Sandy Creek and Plumtree Creek confluence	488900	7772764	Yes	No

Table E4 - Receiving waters and sediment monitoring sites

Description of waters	Monitoring site name	Monitoring site description	Location (GDA94,	* Zone 55)	Monitoring frequency (waters only)					
			Easting Northin		Monthly during the wet season and every 3 months during the dry season ^[4]	Daily during contaminant release ^{[3][6]}				
Interpretatio	on sites	I	1							
Sandy Creek	SW095_SAR	Downstream of SW014_SC	491312	7775385	Yes	No				
		Elphinsto	ne Creek (Catchment						
Control site	S ^[1]									
Elphinstone Creek	SW066_SAR	Upstream of confluence with Suhrs Creek	489277	7778293	Yes	No				
	SW096_SAR	Upstream of golf course drain	488974	7777992	Yes	Yes				
	SW098_SAR	Downstream of historic Mabel Mill area	487851	7777298	Yes	No				
	SW078_SAR	Downstream of confluence with Suhrs Creek. Downstream from Golf course and historic Mellaneur Pit	488665	7777720	Yes	No				
	SW058_SAR	Upstream of confluence with Suhrs Creek and SW066_SAR	490710	7779071	Yes	No				
One Mile Creek	SW037_SAR	Upstream of confluence with Elphinstone Creek	487474	7777295	Yes	Yes				
Suhrs Creek	SW054_SAR	1km upstream of RP1	490566	7778131	Yes	Yes				
	SW099_SAR	Upstream of RP1	489640	7778180	Yes	Yes				

Description of waters	Monitoring site name	Monitoring site description	Location (GDA94,	* Zone 55)	Monitoring frequency (waters only)				
			Easting	Northing	Monthly during the wet season and every 3 months during the dry season ^[4]	Daily during contaminant release ^{[3][6]}			
Compliance	sites								
Elphinstone Creek	SW035_SAR	Downstream of the Sarsfield Pit	488391	7777445	Yes	No			
	SW067_SAR	Downstream of Jessop's Gully and upstream of One Mile Creek	487401	7776771	Yes	No			
	SW092_SAR Buchannan's Gully	Between the Buck Reef Pit and the Sarsfield Pit	488652	7777193	Yes	No			
	SW070_SAR	Downstream of confluence of One Mile Creek	487058	7776605	Yes	No			
	SW071_SAR Jessop's Gully	Downstream of new Buck Reef WRD	487684	7776715	Yes	No			
	SW075_SAR Drainage Line	Downstream of RP6	487256	7775997	Yes	Yes			
	SW003_RC	Confluence of Elphinstone and downstream of RP6	486421	7775783	Yes	Yes			
Suhrs Creek	SW057_SAR	1km downstream of RP1	489024	7777757	Yes	Yes			
Interpretatio	on sites		1						
Elphinstone Creek	SW079_SAR	Similar location to SW035_SAR	488347	7777421	Yes	No			

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Description of waters	Monitoring site name	Monitoring site description	Location (GDA94,	* Zone 55)	Monitoring frequency (waters only)				
			Easting	Northing	Monthly during the wet season and every 3 months during the dry season ^[4]	Daily during contaminant release ^{[3][6]}			
		Mount Wright	t – Kirk Riv	er Catchme	ent				
Control site	S ^[1]								
Drainage line	SW024 MTW ^[5]	Reports to Kirk River	481895	7784160	Yes	Yes			
Compliance	sites								
Drainage line	SW012_MTW	Reports to Kirk River	481816	7784359	Yes	Yes			

Notes:

- [1] Control sites must:
- a) be from the same bio-geographic and climatic region; and
- b) have similar geology, soil types and topography; and
- c) contain a range of habitats similar to those at the compliance sites; and
- d) have a similar flow regime; and
- e) not be so close to the compliance sites that any disturbance at the compliance site also results in a change at the control site
- [2] Where access is not permitted off-lease by the landowner, an alternative monitoring location must be specified in the REMP required under condition *E*33, to measure in accordance with condition *E*23.
- [3] The first sample must be collected within two (2) hours of commencement of a release
- [4] To be scheduled to also coincide with three monthly groundwater monitoring
- [5] If SW024_MTW becomes impacted by groundwaters it will no longer be suitable as a control site.
- [6] During an authorised contaminant release event, at a minimum monitoring must occur at all monitoring sites that are relevant to the waters to which a contaminant release is occurring.
- * Monitoring locations depicted in Schedule K, Figure 2b Surface water monitoring locations.
- E24 Receiving waters must be monitored at the frequencies stated in 'Table E4 Receiving waters and sediment monitoring sites'.
- E25 Receiving waters must be monitored for the contaminants stated in 'Table E5 Receiving waters ambient trigger levels'

Table E5 - Receiving waters ambient trigger levels

Contaminant (mg/L unless specified otherwise) ^[1]	Trigger levels
Electrical conductivity (µS/cm)	1320 ^[2]
pH (pH units)	6.5 - 8.5 ^[3]
Turbidity (NTU)	25 ^[4]
Sulfate (SO4)	125 ^[2]
Aluminium	0.055 ^[5]
Arsenic	0.013 ^[5]
Cobalt	0.0014 ^[6]
Copper	0.0014 ^[5]
Molybdenum	0.034 ^[6]
Manganese	1.9 ^[5]
Uranium	0.0005 ^[6]
Zinc	0.008 ^[5]
Cyanide (as un-ionised HCN, measured as [CN])	0.007 ^[5]
Nitrate (as N)	2.4 ^[7]
Major lons	
Hardness	For interpretation purposes
Total Suspended Solids	

Notes:

1. All metals and metalloids must be measured as both 'total' (from analysis of an unfiltered sample) and 'dissolved' (from analysis of a field filtered sample). Contaminant limits for metals relate to dissolved concentrations.

2. 80th percentile reference groundwater at NOL_OB129, NOL_OB131 and NOL_OB132

3. Water quality guidelines "Upper Burdekin Sub-basin fresh waters – all sub-basin waters not named below"

4. Water quality guidelines "Upper Burdekin sub-basin fresh waters – all sub-basin waters not named below" 80th percentile baseflow

5. ANZECC DGV freshwater ecosystem 95% species protection

6. Low reliability ANZECC 2000 guideline value

7. Hickey & Martin (2009) 95% species protection

- E26 If a contaminant concentration at a compliance site in 'Table E4 Receiving waters and sediment monitoring sites' exceeds any of the trigger levels specified in 'Table E5 Receiving waters ambient trigger levels' the environmental authority holder must compare the compliance site results to the control site results for the same receiving waters and:
 - a) if the contaminant concentration measured at the compliance site is equal to or less than the contaminant concentration measured at the applicable control sites, no further action is required; or
 - b) if the contaminant concentration measured at the compliance site is greater than the contaminant concentration measured at the applicable control site:
 - i. notify the administering authority within 24 hours of becoming aware of the trigger level exceedance; and
 - undertake further sampling of potentially impacted waters at the compliance site in 'Table E4 - Receiving waters and sediment monitoring sites' for all contaminants specified in 'Table E5 - Receiving waters ambient trigger levels'; and
 - iii. complete an investigation into the potential for environmental harm to occur in accordance with ANZECC (2000) methodology, within three months of identifying this exceedance or the alternative timeframe specified by the administering authority; and
 - iv. within one week of completing the investigation, provide a written report to the administering authority detailing all pertinent aspects of the investigation (such as objectives, applied methodology, investigation outcomes, assumptions relied upon and justification for any assertions made) and any actions undertaken and/or proposed to prevent or minimise environmental harm

Note: Where an exceedance of a trigger level has occurred and is being investigated, in accordance with part b) of this condition, no further reporting is required for subsequent trigger events for that contaminant.

Contaminant ^[1]	Contaminant limit ^{[2][3} specified otherwise)		Monitoring Frequency					
	T <=48 hrs	T>48hrs						
Electrical conductivity (µS/cm)		50[5]	Every 15 minutes during a					
pH (pH Unit)	6.5	-8.5 ^[6]	release					
Turbidity (NTU)	For interpret	ation purposes						
TSS	6	20 ^[5]						
Sulfate		3D ^[7]						
Aluminium	0.15 ^[8]	0.055 ^[9]						
Arsenic	0.14 ^[8]	0.013 ^[9]						
Cobalt	TBD ^[7]	TBD ^[7]						
Copper ^[4]	0.0025 ^[8]	0.0014 ^[9]						
Manganese	3.6 ^[8]	1.9 ^[9]	Daily during release (the					
Molybdenum	0.034 ^[10]	0.034 ^[10]	first sample must be taken					
Uranium	TBD ^[7]	TBD ^[7]	within 2 hours of					
Zinc ^[4]	0.031 ^[8]	0.008 ^[9]	commencement of release.					
Cyanide (as un-ionised HCN, measured as [CN])	0.018 ^[8]	0.007 ^[9]						
Nitrate (as N)	6.9 ^[11]	2.4 ^[12]						
Major ions								
Hardness	For interpret	ation purposes						

Notes:

1. All metals and metalloids must be measured as both 'total' (from analysis of an unfiltered sample) and 'dissolved' (from analysis of a field filtered sample). Contaminant limits for metals relate to dissolved concentrations

2. Based on time since commencement of release measured in hours (T).

3. Where a contaminant limit is exceeded at a compliance site and the applicable control site also exceeds this concentration on the same day of sampling, the value of the control site applies as the contaminant limit for that sampling event.

- 4. For each sampling event, hardness adjustment for selected metals in freshwaters can be undertaken in accordance with Table 3.4.3, Table 3.4.4 and the requirements of ANZECC (2000)
- 5. Water quality guidelines "Upper Burdekin sub-basin fresh waters all sub-basin waters not named below
- 6. Water quality guidelines "Upper Burdekin sub-basin fresh waters all sub-basin waters not named below" 80th percentile event flow
- 7. TBD by 1 March 2021 based on locally derived reference values.
- 8. ANZECC (2000) 80% species protection level
- 9. ANZECC (2000) 95% species protection level
- 10. Low reliability ANZECC 2000 guideline value
- 11. Hickey & Martin 80% species protection
- 12. Hickey & Martin 95% species protection
- E27 The contaminant concentrations in water measured at a compliance site specified in 'Table E4 Receiving waters and sediment monitoring sites' must not exceed any contaminant limit specified in 'Table E6 – Receiving water contaminant limits during a release'.
- E28 Sediments must be monitored at the locations specified in 'Table E4 Receiving waters and sediment monitoring sites'.
- E29 Sediments must be monitored for the contaminants stated in 'Table E7 Sediment quality objectives and trigger levels'.

	Sediment quality (mg/kg) ^{1, 2}										
Contaminant ¹	Trigger levels (mg/kg) ³	Sediment quality objectives (mg/kg) ⁴	Monitoring Frequency								
Antimony	2	25									
Arsenic	20	70									
Cadmium	1.5	10									
Chromium	80	370									
Copper	65	270	- Twice a year (once at the end of the wet								
Lead	50	220	season and once at the end of the dry season)								
Nickel	21	52									
Mercury	0.15	1									
Zinc	200	410									

Table E7 - Sediment quality objectives and trigger levels

Notes:

 Analysis for metals/metalloids concentrations in sediment must be conducted on the <2mm fraction of the sample and measured as a dilute acid extractable concentration in a manner consistent with the Revision of the ANZECC/ARMCANZ Sediment Quality Guidelines, CSIRO (May 2013)

- 2. For sediment quality, compliance site monitoring results are to be compared:
 - a. Directly to the guideline values from the Revision of the ANZECC/ARMCANZ Sediment Quality Guidelines, CSIRO (May 2013), if insufficient reference site monitoring data is available; or
 - b. The relevant reference site monitoring data, which must be normalised to account for any difference in particle size distribution (i.e. conduct a fractionated sediment analysis based on comparing the metals concentrations of the <63µm sediment fraction with the >63µm to <2mm sediment fraction)
- 3. ANZECC (2000) Interim Sediment Quality Guidelines low values based on total sediments
- 4. ANZECC (2000) Interim Sediment Quality Guidelines high values based on total sediments
- E30 Sediments must be monitored at the monitoring frequency stated in 'Table E7 Sediment quality objectives and trigger levels'.
- E31 The contaminant concentrations measured at a compliance site specified in 'Table E4 Receiving waters and sediment monitoring sites' must not exceed any sediment quality objective specified in 'Table E7 Sediment quality objectives and trigger levels'.
- E32 If a contaminant concentration measured at a compliance site specified in 'Table E4 Receiving waters and sediment monitoring sites' exceeds any trigger level specified in 'Table E7 - Sediment quality objectives and trigger levels', the environmental authority holder must compare this result to the applicable control site; and
 - a) if the contaminant concentration measured at the compliance site is equal to or less than the contaminant concentration measured at the applicable control site, no further action is required; or
 - b) if the contaminant concentration measured at the compliance site is greater than the contaminant concentration measured at the applicable control site:
 - i. notify the administering authority within 24 hours of becoming aware of the trigger level exceedance; and
 - ii. undertake further sampling of potentially impacted sediments at the compliance site specified in 'Table E4 - Receiving waters and sediment monitoring sites' for all contaminants specified in 'Table E7 - Sediment quality objectives and trigger levels'; and
 - iii. complete an investigation into the potential for environmental harm to occur in accordance with ANZECC (2000) methodology, within three months of identifying this exceedance or the alternative timeframe specified by the administering authority; and
 - iv. within one week of completing the investigation, provide a written report to the administering authority detailing all pertinent aspects of the investigation (such as objectives, applied methodology, investigation outcomes, assumptions relied upon and justification for any assertions made) and any actions undertaken and/or proposed to prevent or minimise environmental harm.

- **Note:** Where an exceedance of a trigger level has occurred and is being investigated, in accordance with part b) of this condition, no further reporting is required for subsequent trigger events for that contaminant.
- E33 The environmental authority holder must develop and implement a Receiving Environment Monitoring Program (REMP) for all stages of the activity to monitor, identify and describe any adverse impacts to receiving water environmental values, quality and flows due to the authorised activity. The REMP must include monitoring of the effects of the mine on the receiving environment periodically (under natural flow conditions) and while contaminants are being discharged from the site. For the purposes of the REMP, the receiving environment is all underlying groundwaters and the surface waters of Sandy Creek, Plumtree Creek, Elphinstone Creek and Connolly Creek and connected or surrounding waterways within 5km downstream of the activities. The REMP should encompass any sensitive receiving waters or environmental values downstream of the authorised activity that will potentially be directly affected by an authorised release of contaminants.
- E34 A REMP Design Document that addresses the requirements of condition E33 must be prepared and made available to the administering authority upon request.
- E35 A report outlining the findings of the REMP, including all monitoring results and interpretations must be prepared annually and provided to the administering authority upon request. The REMP report must include:
 - a) an assessment of background reference water quality; and
 - b) the condition of downstream water quality compared against water quality objectives; and
 - c) an assessment of the health of downstream riparian vegetation communities; and
 - d) the suitability of current release limits to protect downstream environmental values; and
 - e) a discussion of any impacts of releases on the receiving environment
- E36 The environmental authority holder must implement and maintain a Water Management Plan developed by an appropriately qualified person.
- E37 The environmental authority holder must implement and maintain a Brine Waste Management Plan (BWMP). The BWMP must include as a minimum:
 - a) identification and characterisation of liquid and solid wastes generated by the Reverse Osmosis Water Treatment plant, including volumes measured;
 - b) a program for safe disposal of all wastes generated, including details of waste management control strategies and methods;
 - c) monitoring and reporting of the brine and waste generated from mining activities, including groundwater and surface water monitoring as required under this environmental authority; and
 - d) measures to be implemented to prevent brine waste causing environmental harm in the receiving environment
- E38 All liquid and solid wastes generated by the Reverse Osmosis Water Treatment plant must be disposed of in either the Sarsfield Pit, Buck Reef West Pit, Nolan's Tailings Storage Facility Expansion or off-site to a licensed facility that is lawfully able to accept the waste under the *Environmental Protection Act 1994*.

- E39 Contaminated water may be piped or trucked or transferred by some other means that does not contravene the conditions of this environmental authority and deposited into artificial water storage structures, such as farm dams or tanks, or used directly at properties owned by the environmental authority holder or a third party (with the consent of the third party).
- E40 An Erosion and Sediment Control Plan must be developed by an appropriately qualified person and implemented for all stages of the activities on the site to minimise erosion and the release of sediment to receiving waters and contamination of stormwater.
- E41 The environmental authority holder must not release contaminants to groundwater.
- E42 Groundwater quality and standing water levels must be monitored at the locations specified in 'Table E8 Groundwater monitoring locations and frequency'.

Monitoring		(GDA94 – e55)	Top of Casing RL	Screened interval RL	Monitoring Frequency						
Point ^[1]	Easting	Northing	(m) ^[2]	(m)	Standing Water Level	Groundwater Quality					
Aquifer descri	ption: Raven	swood Gran	ites and Volcar	nics							
Compliance be	ores										
MTW_OB012	481813	7784245	327.15	4 – 37							
MTW_OB014	482805	7784864	302.50	25 - 37							
NOL_OB129	490178	7772986	241.90	18 - 30							
NOL_OB131	488104	7771438	227.95	14 - 23	Every 3 months	Every 3 months					
NOL_OB132	487967	7771978	228.15	14 - 31		,					
NOL_OB133	488215	7773403	242.95	15 - 37	_						
SAR_OB089	487624	7776813	241.55	5 – 8.3	_						
SAR_OB090	487627	7776817	241.55	20 – 23.2							
SAR_OB100	487969	7775688	256.15	18 - 30	Every 3 months	Every 3 months					
SAR_OB109	491081	7774720	247.60	9 - 30							
SAR_OB108	491852	7775399	256.95	9 - 37							
Operational bo	ores										
MTW_OB002	482841	7784309	373.90	2 - 25							
MTW_OB005	482036	7784061	331.40	15.6–30.5	_						
MTW_OB015	482665	7783833	319.70	18-30	_						
SAR_OB099	490965	7775110	247.50	35 - 50	_						
SC_OB012	492102	7777001	265.10	1.8-21.1	Every 3 months	Every 3 months					
SC_OB025	491874	7777772	283.05	16 - 43	_						
SAR_OB088	487883	7776554	245.10	15-18.4	_						
NOL_OB138	488769.92	7773569.2	236.722	20 - 26	_						
NOL_OB139	489370.53	7773581.8	234.993	20 - 26							
NOL_OB140	490262.23	7773624.9	245.237	20 - 26							
Interpretation	bores										
NOL_OB143	489793	7773921	236.04	7 – 31	Every 3 months	Every 3 months					
NOL_OB096	488670	7772630	230.90	12-18							
NOL_OB0149	488717	7773889	237.64	5 – 15							

Table E8 – Groundwater monitoring locations and frequency

Permit Environmental authority EPML00979013

NOL_OB082A	490197	7774885	247.57	44 - 50
NOL_OB124	488672	7772628	230.95	29 - 50
SAR_OB069 ³	490879	7774908	244.65	6 - 14
NOL_OB086	491392	7775896	253.40	4 - 6
NOL_OB126	490605	7775198	258.40	9 - 30
NOL_OB107 ³	489641	7775451	256.30	5 - 13
NOL_OB092	489169	7775716	266.30	2 - 9
NOL_OB093	489169	7775710	266.35	12 - 50
SAR_OB113	488286	7775581	262.70	19 - 25
NOL_OB108	489008	7776006	277.90	19 - 22
SAR_OB119	489005	7776478	268.20	20 - 26
SAR_OB092	487767	7777005	247.20	22 - 25
SAR_OB093	488132	7777268	251.05	6.3-9.3
SAR_OB094	488131	7777273	250.75	22.3-25.3
SAR_OB080	488531	7777499	248.60	2 - 4
SAR_OB048	488363	7777973	263.85	1 – 18.6
SAR_OB057A	489302	7777624	259.00	10 - 27
SAR_OB066	489475	7778287	258.00	4 - 12
SAR_OB067	489472	7778285	257.95	18 - 43
SAR_OB074	490584.5	7778219	265.949	4.5 - 21
SC_OB014A ³	491755	7777496	292.85	25-30.4
SC_OB004A ³	491957	7777174	267.70	7.3-25.8
SC_OB037	492654	7777252	263.35	7 - 37
SC_OB031	492650	7776500	260.30	10 - 18

Notes:

1. Compliance bores, interpretation bores and operational bores depicted in Schedule K - Figure 2a - Groundwater bore network

2. RL must be measured at the top of the bore casing to the nearest 5cm.

3. Where a groundwater bore is being utilised for seepage recovery via pumping groundwater depth measurements are not required whilst the pump is being operated.

E43 Groundwater quality and standing water levels must be monitored at the frequencies specified in 'Table E8 – Groundwater monitoring locations and frequency'.

E44 Groundwater quality must be monitored for all quality characteristics stated in 'Table E9 – Groundwater quality limits'.

Table E9 - Groundwater quality limits

B	5		Quality Characteristics																				
Bore identifications	Limit Type	Aluminium (mg/L)		Arconic (mg/1)		Cadmium (mg/l)	Condit (III8/ F)		Cobbci 11.18/17	Copper (mg/l)	EC (uS/cm)	рН	Free Cyanide (r		Manganoce (mg/l)	Molybdenum (mg/L)		Nitrate as N (NO3	Sulfate as SO4 (mg/L)			בוווה (חוו\$/ ר)	Zinc (mg/l)
		Dissolved	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total			(mg/L)	Dissolved	Total	Dissolved	Total	(NO3) (mg/L)	ng/L)	Dissolved	Total	Dissolved	Total
MTW- OB012	Limit A	NA	0.008 ^[2]	0.007 ^[2] ^[3]	NA	NA	0.0030 ^[2]	0.004 ^[2] ^[3]	NA	0.0036	1644 ^[2]	NA	NA	2.018 ^[2]	2.430 ^[2]	0.002 ^[2]	NA	0.05 ^[2]	61 ^[2]	0.0136 ^[2]	0.0156 ^[2]	0.0102 ^[2]	0.0272 ^[2]
	Limit B	0.055 ^[6]	0.008 ^[2]	0.009 ^[2]	0.0002 ^[2]	0.002 ^[2]	0.0036 ^[2]	0.005 ^[2]	0.0005 ^[2]	0.0066	1690 ^[2]	6.5- 8.5	0.004 [[]	2.335 ^[2]	2.496 ^[2]	0.003 ^[2]	0.003	0.07 ^[2]	66 ^[2]	0.0159 ^[2]	0.0173 ^[2]	0.0214 ^[2]	0.0494 ^[2]
MTW- OB014	Limit A	NA	0.024 ^[2]	0.024 ^[2]	NA	NA	NA	NA	NA	0.0005	1394 ^[2]	NA	NA	1.378 ^[2]	1.418 ^[2]	0.004 ^[2]	0.005	NA	242 ^[2]	0.0040 ^[1]	0.0048 ^[1]	0.0025 ^[2]	0.0066 ^[2]
00014	Limit B	0.055 ^[6]	0.041 ^[2]	0.042 ^[2]	0.0002 ^[2]	0.002 ^[2]	0.0005 ^[2]	0.0005 ^[2]	0.0005 ^[2]	0.0008	1422 ^[2]	6.5- 8.5	0.004 [[]	1.819 ^[2]	1.819 ^[2]	0.006 ^[2]	0.006	0.01 ^[2]	245 ^[2]	0.0054 ^[1]	0.0057 ^[1]	0.0072 ^[2]	0.0150 ^[2]
NOL- OB129	Limit A	NA	0.011 ^[2]	0.013 ^[2]	NA	NA	0.0005 ^[2]	0.0012 ^[2]	0.0005 ^[2]	0.0044 ^[2]	656 ^{[2] [3]}	NA	NA	3.136 ^[2]	3.202 ^[2]	NA	0.004	0.02 ^[2]	38 ^[2]	0.0122 ^[2]	0.0140 ^[2]	0.0090 ^[2]	0.0192 ^[2]
00129	Limit B	0.055 ^[6]	0.013 ^[2]	0.014 ^[2]	0.0002 ^[2]	0.002 ^[2]	0.0008 ^[2]	0.0031 ^[2]	0.0008 ^[2]	0.0076 ^[2]	728 ^{[2] [4]}	6.5- 8.5	0.004 [[]	3.205 ^[2]	3.369 ^[2]	0.004 ^[2]	0.005	0.06 ^[2]	44 ^[2]	0.0169 ^[2]	0.0193 ^[2]	0.0101 ^[2]	0.0222 ^[2]
NOL- OB131	Limit A	NA	0.003 ^[2]	NA	NA	NA	0.0024 ^[2]	0.0030 ^[2]	NA	NA	896[2] [3]	NA NA	NA	0.014 ^[2]	0.027 ^[2]	NA	0.003	0.39 ^[2]	130 ^[2]	0.0026 ^[2]	0.0026 ^[2]	0.0068 ^[2]	0.0112 ^[2]
00131	Limit B	0.055 ^[6]	0.004 ^[2]	0.004 ^[2]	0.0002 ^[2]	0.002 ^[2]	0.0030 ^[2]	0.0048 ^[2]	0.0005 ^[2]	0.0005 ^[2]	960[2] [4]	6.5- 8.5	0.004 [[]	0.019 ^[2]	0.053 ^[2]	0.003 ^[2]	0.004	0.40 ^[2]	164 ^[2]	0.0030 ^[2]	0.0030 ^[2]	0.0116 ^[2]	0.0346 ^[2]
NOL- OB132	Limit A	NA	0.014 ^[2]	0.013 ^[2]	NA	NA	0.0005 ^[2]	0.0005 ^[2]	NA	0.0010 ^[2]	1491 ^[2]	NA	NA	0.236 ^[2]	0.233 ^[2]	0.016 ^[2]	0.018	0.04 ^[2]	53 ^[2]	0.0096 ^[2]	0.0106 ^[2]	0.0080 ^[2]	0.0170 ^[2]
00102	Limit B	0.055 ^[6]	0.018 ^[2]	0.018 ^[2]	0.0002 ^[2]	0.003 ^[2]	0.0030 ^{[[2}][4]	0.0050 ^[2]	0.0005 ^[2] [4]	0.0165 ^[2]	1977 ^[2]	6.5- 8.5	0.004	1.127 ^[2]	1.140 ^[2]	0.018 ^[2]	0.019	0.06 ^[2]	56 ^[2]	0.0113 ^[2]	0.0143 ^[2]	0.0140 ^[2]	0.0355 ^[2]
NOL- OB133	Limit A	NA	0.043 ^[2]	0.045 ^[2]	NA	NA	0.0007 ^[2]	0.0010 ^[2]	NA	0.0034 ^[2]	1373 ^[2]	NA	NA	0.618 ^[2]	0.679 ^[2]	0.036 ^[2]	0.038	0.01 ^[2]	17 ^[2] ^[3]	0.0048 ^[1]	0.0050 ^[1]	0.0068 ^[2]	0.0160 ^[2]
	Limit B	0.055 ^[6]	0.046 ^[2]	0.048 ^[2]	0.0002 ^[2]	0.002 ^[2]	0.0016 ^{[[2}] [4]	0.0016 ^[2]	0.0005 ^[2]	0.0058 ^[2]	1386 ^[2]	6.5- 8.5	0.004	0.694 ^[2]	0.719 ^[2]	0.038 ^[2]	0.040	0.03 ^[2]	21 ^[2]	0.0050 ^[1]	0.0057 ^[1]	0.0092 ^[2]	0.0328 ^[2]
SAR- OB089	Limit A	NA	0.320(3)	0.327 ⁽³⁾	NA	NA	0.0010 ^[3]	NA	0.0010 ^[3]	0.0020 ^[3]	2488 ^[3]	NA	NA	0.810 ^[3]	0.879 ^[3]	0.008[3]	0.011 [3]	0.02 ^[3]	911 ^[3]	0.0128 ^[3]	0.0138[3]	0.0100 ^[3]	0.0100 ^[3]
55005	Limit B	0.055 ^[6]	0.460 ^[4]	0.505 ^[4]	0.0002 ^[6]	0.002 ^[5]	0.0020 ^[4]	0.0020 ^[4]	0.0020 ^[4]	0.0022 ^[4]	3088 ^[4]	6.5- 8.5	0.004 [[]	1.330 ^[4]	1.900 ^[6]	0.009 ^[4]	0.383 [4]	1.31 ^[4]	1023 [[]	0.0144 ^[4]	0.0158 ^[4]	0.0302 ^[4]	0.0302 ^[4]
SAR- OB090	Limit A	NA	0.007 (3)	0.007 [3]	NA	NA	0.0020 ^[3]	0.0020 ^[3]	0.0005 ^[3]	0.0020 ^[3]	1720 ^[3]	NA	NA	1.400 ^[3]	1.510 ^[3]	0.007 ^[3]	0.008	0.06 ^[3]	515[3]	0.0098 ^[3]	0.0118 ^[3]	0.0060 ^[3]	0.0170 ^[3]
00000	Limit B	0.055 ^[6]	0.008 [4]	0.009 [4]	0.0002 ^[6]	0.002 ^[5]	0.0025 ^[4]	0.0028 ^[4]	0.0006 ^[4]	0.0065 ^[4]	1884 ^[4]	6.5- 8.5	0.004 [[]	1.682 ^[4]	1.772 ^[4]	0.010 ^[4]	0.011	0.24 ^[4]	671 ^[4]	0.0114 ^[4]	0.0124 ^[4]	0.0195 ^[4]	0.0292 ^[4]
SAR- OB100	Limit A	NA	0.047 ^[2]	0.047 ^[2]	NA	NA	NA	0.0022 ^[2]	NA	0.0082 ^[2]	1284 ^[2]	NA	NA	2.360 ^[2]	2.776 ^[2]	0.012 ^[2] ^[3]	0.013 [2] [3]	0.27 ^[2]	33 ^[2]	0.0150 ^[2]	0.0170 ^[2]	0.0032 ^[2]	0.0180 ^[2]

	Limit B	0.055 ^[6]	0.080 ^[2] ^[4]	0.085 ^[2] ^[4]	0.0002 ^[2]	0.002 ^[2]	0.0005 ^[2] ^[4]	0.0035 ^[2]	0.0005 ^[2]	0.0106 ^[2]	1298 ^[2]	6.5- 8.5	0.004 [6]	3.224 ^[2]	3.508 ^[2]	0.013 ^[2]	0.176 [[] 2] [4]	0.99 ^[2]	42 ^[2] ^[4]	0.0195 ^[2] ^[4]	0.0222 ^[2]	0.0065 ^[2] ^[4]	0.0345 ^[2]
SAR- OB109	Limit A	NA	0.059 ^[2] ^[3]	0.060 ^[2] ^[3]	NA	NA	0.0050 ^[2]	0.0082 ^[2]	0.0005 ^[2]	0.0022 ^[2]	2559 ^[2]	NA	NA	0.117 ^[2] ^[3]	0.152 ^[2]	0.003 ^[2]	0.003 [[] 2] [3]	5.43 ^[2]	1094 [2] [3]	0.0106 ^[2]	0.0116 ^[2]	0.0120 ^[3]	0.0120 ^[3]
	Limit B	0.055 ^[6]	0.062 ^[2] ^[4]	0.062 ^[2]	0.0002 ^[2]	0.002 ^[2]	0.0055 ^[2]	0.0090 ^[2]	0.0013 ^[2]	0.0041 ^[2]	2697 ^[2]	6.5- 8.5	0.004 [6]	0.181 ^[2]	0.184 ^[2]	0.005 ^[2]	0.005 [[] 2] [4]	6.04 ^[2]	1160 [2] [4]	0.0116 ^[2]	0.0120 ^[2]	0.0200 ^[4]	0.0200 ^[4]
SAR- OB108	Limit A	NA	0.068 ^[2]	0.070 ^[2]	NA	NA	NA	NA	NA	0.0104 ^{(1]}	782 ^{[1] [7]}	TBA	TBA	6.380 ⁽¹⁾	6.508 ^{(1]}	0.006 ^[1]	0.007 [[] 1] [3]	TBA	6[1][3]	0.0048 ^[1]	0.0048 ^[1]	0.0053 ⁽¹⁾ ^[3]	0.0228 ^{(1]}
	Limit B	0.055 ^[1]	0.089 ^[2] ^[4]	0.092 ^[2]	0.0002 ^[1]	0.002 ^[1]	0.0010 ^{(1]}	0.0020 ^{(1]}	0.0005 ^{(1]}	0.0243 ^{(1]}	1300 ^[1] [4] [7]	6.5- 8.5	0.004 [6]	7.502 ⁽¹⁾ ^[4]	7.611 ⁽¹⁾	0.021 ^[1]	0.026 [[] 1] [4]	0.01 ^[1]	11 ^{[1][4]}	0.0050 ^[1]	0.0057 ^[1] ^[4]	0.0081 ⁽¹⁾ ^[4]	0.0286 ^{(1]}

^[1] Interim limit (<8 data points) ^[2] Interim limit (8-12 data points) ^[3] 80th %ile bore data ^[4] 95th %ile bore data ^[5] Drinking water ^[6] Aquatic Ecosystem ^[7] Draft WQO

TBA Means to be advised to the administering authority by **31 January 2023** via an amendment application.

NA Limit B to protect EV's

- E45 Groundwater measured at any compliance bore specified in 'Table E8 Groundwater monitoring locations and frequency' must not exceed the corresponding Limit A specified in 'Table E9 Groundwater quality limits' on any five consecutive sampling occasions.
- E46 Groundwater measured at any compliance bore specified in 'Table E8 Groundwater monitoring locations and frequency' must not exceed the corresponding Limit B specified in 'Table E9 Groundwater quality limits' on any three consecutive sampling occasions.
- E47 If groundwater measured at any compliance bore specified in 'Table E8 Groundwater monitoring locations and frequency' exceeds the corresponding Limit B specified in 'Table E9 Groundwater quality limits' on any one sampling occasion the environmental authority holder must resample the groundwater within the compliance bore for all exceeding parameters within ten business days of receipt of results.
- E48 By 24 February 2023, the environmental authority holder must ensure that groundwater quality measured in operational bores specified in 'Table E8 Groundwater monitoring locations and frequency' is improved.
- E49 The environmental authority holder must install, operate and maintain Seepage Management Systems to prevent seepage from all site infrastructure moving beyond the operational bores specified in 'Table E8 Groundwater monitoring locations and frequency'.
- E50 The Seepage Management Systems required by condition E49 must, at a minimum:
 - a) include effective control measures to minimise seepage from all site infrastructure; and
 - b) include effective control measures to capture and pump-back seepage sufficient to prevent migration into surface waters; and
 - c) include effective control measures to ensure seepage does not report to groundwater in the receiving environment; and
 - d) include effective control measures to ensure compliance with condition E48; and
 - e) include adequate detection measures to analyse and confirm the effectiveness of all control measures required by this condition
- E51 The environmental authority holder must implement a Seepage Management Plan (SMP). The SMP must, at a minimum:
 - a) describe the Seepage Management Systems required by condition E49; and
 - b) include adequate control measures to ensure groundwater quality in compliance bores listed in Table
 'E8 Groundwater monitoring locations and frequency' comply with all limits specified in 'Table E9 Groundwater quality limits'; and
 - c) include all measures necessary to ensure that the management intent for groundwater is achieved in accordance with condition E48; and
 - d) include all measures necessary to ensure compliance with conditions E1 and E41; and
 - e) include adequate measures to intercept seepage sufficient to prevent migration beyond the operational and compliance bores as specified in 'Table E8 – Groundwater monitoring locations and frequency'; and
 - f) include adequate measures to determine if any additional control measures e.g. interception bores or interception trenches are required; and
 - g) include an action plan to implement and/or install any additional control measures that are required; and

- h) include a map or figure that depicts the location and type of seepage control measures installed; and
- i) be reviewed annually for the effectiveness of the components and include details of improvements undertaken in the previous year; and
- j) address any comments made by the administering authority

The SMP must be made available to the administering authority annually from 4 February 2021.

- E52 The environmental authority holder must implement a Groundwater Management Program that has been developed by an appropriately qualified person.
- E53 The Groundwater Management Program required by Condition E52 must:
 - a) identify potential sources of contamination to groundwater from the activity; and
 - b) identify the location of groundwater users and the type of use; and
 - c) ensure that all potential groundwater impacts due to the activity are identified, monitored and mitigated; and
 - d) document sampling and monitoring methodology; and
 - e) ensure that adequate groundwater monitoring and data analysis is undertaken to achieve the following objectives:
 - i. detect any impacts to groundwater levels due to the activity; and
 - ii. detect any impacts to groundwater quality due to the activity; and
 - iii. determine trends in groundwater quality
 - f) include an appropriate quality assurance and quality control program; and
 - g) include a conceptual groundwater model; and
 - h) include a review process to identify improvements to the program that includes addressing any comments provided by the administering authority
- E54 The Groundwater Management Program required by condition E52 must be reviewed on an annual basis by an appropriately qualified person to determine if it continues to meet the requirements of condition E53.
- E55 The environmental authority holder must implement a Subterranean Fauna Monitoring and Management Program that has been developed by an appropriately qualified person.
- E56 The Subterranean Fauna Monitoring and Management Program required by condition E55 must include adequate monitoring of subterranean species of stygofauna and troglofauna in all groundwaters and hyporheic waters potentially impacted by the mining activities and must achieve the following objectives:
 - a) identify and describe all subterranean fauna species present; and
 - b) assess and describe predicted impacts to all subterranean fauna identified; and
 - c) recommend impact mitigation and minimisation measures for the fauna identified; and
 - d) monitor and record the effects of the mining activity on the subterranean fauna species; and
 - e) recommend actions, including timeframes for implementation, to ensure that potential impacts to subterranean fauna are prevented
- E57 The environmental authority holder must implement recommendations from the Subterranean Fauna Monitoring and Management Program developed under condition E55 within the recommended timeframes.

- E57 The environmental authority holder must implement recommendations from the Subterranean Fauna Monitoring and Management Program developed under condition E55 within the recommended timeframes.
- E58 The construction, maintenance and decommissioning of groundwater monitoring bores must be undertaken in a manner that:
 - a) prevents contaminants entering the groundwater; and
 - b) ensures the integrity of the bores to obtain representative groundwater samples from the target aquifer; and
 - c) maintains the hydrogeological environment within the aquifer
- E59 A bore drill log must be kept for each operational, compliance and observation groundwater monitoring bore which includes:
 - a) bore identification reference and geographic coordinate location;
 - b) specific construction information including but not limited to depth of bore, depth and length of casing, depth and length of screening and bore sealing details;
 - c) standing groundwater level and water quality parameters including physical parameters and results of laboratory analysis for the possible trigger parameters;
 - d) lithological data and stratigraphic interpretation by an appropriately qualified person to identify important features associated with groundwater monitoring; and
 - e) target aquifer formation of the bore
- E60 The following information must be recorded in relation to all water monitoring required under the conditions of this environmental authority and submitted to the administering authority in the specified format:
 - a) the date on which the sample was taken;
 - b) the time at which the sample was taken;
 - c) the monitoring point at which the sample was taken;
 - d) the measured or estimated daily quantity of contaminated water released from all release points;
 - e) the release flow rate at the time of sampling for each release point;
 - f) the results of all monitoring and details of any exceedances of the conditions of this environmental authority;
 - g) water quality monitoring data must be provided to the administering authority in the specified electronic format upon request
- E61 The environmental authority holder must complete an annual analysis of groundwater data for all locations in 'Table E8 Groundwater monitoring locations and frequency' and any further groundwater monitoring locations monitored under the Receiving Environment Monitoring Program as required under condition E33.
- E62 Monitoring and sampling must be carried out in accordance with written procedures and must address the requirements of the latest version of the following documents unless otherwise approved by the administering authority:
 - a) for waters and aquatic environments, the latest version of the Queensland Government's Monitoring and Sampling Manual;

- b) for groundwater, Groundwater Sampling and Analysis A Field Guide (2009:27 GeoCat#6890.1) and Australian Standard AS/NZS 5667.11:1998 Water Quality – Sampling – Guidance on sampling of groundwaters;
- c) for subterranean aquatic fauna, the Queensland Government's Guideline for the Environmental Assessment of Subterranean Aquatic Fauna

END OF SCHEDULE E

Schedule F: Sewage Treatment

- F1 Treated sewage effluent from the sewage treatment plant must comply with the release limits stated in 'Table F1 – Treated sewage effluent contaminant release limits'.
- F2 The only contaminants permitted to be released to land is treated sewage effluent in compliance with the release limits stated in 'Table F1 Treated sewage effluent contaminant release limits'.

Table F1 - Treated sewage effluent contaminant release limits

Contaminant (mg/L unless specified otherwise)	Release limit	Limit type	Frequency
5 day Biochemical oxygen demand	20	Maximum	Monthly
Total suspended solids	30	Maximum	Monthly
Nitrogen	30	Maximum	Monthly
Phosphorus	15	Maximum	Monthly
E-coli (Organisms/100ml)	1000	Maximum	Monthly
pH (pH units)	6.0 - 9.0	Range	Monthly

- F3 Treated sewage effluent may only be released to land in accordance with the conditions of this environmental approval within the nominated area(s) at Mt Wright and Ravenswood Golf Course (as identified in 'Table A1 Authorised activities and locations'.
- F4 The application of treated sewage effluent to land must be carried out in a manner such that:
 - a) vegetation is not damaged; and
 - b) there is no surface ponding of effluent; and
 - c) there is no run-off or over-spray of effluent
- F5 If areas irrigated with sewage effluent are accessible to employees or the general public, prominent signage must be provided advising that effluent is present and care should be taken to avoid consuming or otherwise coming into unprotected contact with the effluent.
- F6 All sewage effluent releases must be monitored at the frequency and for the parameters specified in 'Table F1 – Treated sewage effluent contaminant release limits'.
- F7 The daily volume of effluent release to land must be measured and records kept of the volumes of effluent released.
- F8 When circumstances prevent the irrigation or beneficial reuse of treated sewage effluent such as during or following rain events, waters must be directed to a wet weather storage or alternative measures must be taken to store or lawfully dispose of effluent.
- F9 Sewage effluent must only be supplied to another person or organisation that has a written plan detailing how the user of the treated sewage effluent will comply with their general environmental duty under section 319 of the *Environmental Protection Act 1994* whilst using the treated sewage effluent.

END OF SCHEDULE F

Schedule G: Land and Rehabilitation

- G1 The environmental authority holder must rehabilitate all land disturbed by the activities in accordance with 'Table G1 - Final Land Use and Rehabilitation Approval Schedule', in a manner that ensures rehabilitated areas achieve the following rehabilitation objectives:
 - a) safe for humans and wildlife;
 - b) non-polluting;
 - c) stable;
 - d) able to sustain an agreed post-mining land-use;
 - e) re-vegetated with species endemic to the area with no declared pest species; and
 - f) compliant with all conditions of this environmental authority

Table G1 - Final Land Use and Rehabilitation Approval Schedule

Mine Domain	Mine Feature Name	Post-mine land description	Indicator	Completion criteria
	Potable water treatment plant	Native Ecosystem	TBA ¹	TBA ¹
	Reverse osmosis treatment plant	Native Ecosystem	TBA ¹	TBA ¹
	Sewage treatment plant	Sewage Treatment Plant	TBA ¹	TBA ¹
	Sarsfield workshop and office area	Native Ecosystem	TBA ¹	TBA ¹
	Sarsfield plant site & conveyors	Native Ecosystem	TBA ¹	TBA ¹
Infrastructure	Mine village	Native Ecosystem	TBA ¹	TBA ¹
	Nolans plant site	Native Ecosystem	TBA ¹	TBA ¹
	Nolan's support infrastructure	Native Ecosystem	TBA ¹	TBA ¹
	Buck Reef site	Native Ecosystem	TBA ¹	TBA ¹
	Buck Reef West mining support infrastructure	Native Ecosystem	TBA ¹	TBA ¹
	Ravenswood roads & tracks	Native Ecosystem TBA ¹		TBA ¹
	Mt Wright roads & tracks	Native Ecosystem		
	Mt Wright workshop and office area	Native Ecosystem/Low Intensity Grazing	TBA ¹	TBA ¹
	Buck Reef West roads	Native Ecosystem	TBA ¹	TBA ¹

Mine Domain	Mine Feature Name	Post-mine land description	Indicator	Completion criteria
	Old Nolans Tailings Storage Facility	Native Ecosystem	TBA ¹	TBA ¹
Tailings	Nolans Tailings Storage Facility Expansions	Native Ecosystem	TBA ¹	TBA ¹
	Dry Stack Tailings Storage Facility	Revegetated Tailings Dam	TBA ¹	TBA ¹
	Landfill area	Native Ecosystem	TBA ¹	TBA ¹
	Nolans waste rock dump	Revegetated Waste Rock Dump	TBA ¹	TBA ¹
	Sarsfield waste rock dump	Revegetated Waste Rock Dump	TBA ¹	TBA ¹
Overburden and Waste	Nolans ROM & mineralised waste dumps	Revegetated Waste Rock Dump	TBA ¹	TBA ¹
	Sarsfield ROM & mineralised waste dumps	Native Ecosystem	TBA ¹	TBA ¹
	Mt Wright waste rock dump & ROM	Revegetated Waste Rock Dump and Sealed Portal	TBA ¹	TBA ¹
	Back Reef West waste rock dump	Revegetated Waste Rock Dump	TBA ¹	TBA ¹
	Process water pond	Water Dams	TBA ¹	TBA ¹
	TSF dam	Water Dams	TBA ¹	TBA ¹
	Mt Wright sediment management	Sediment Dams	TBA ¹	TBA ¹
	Sarsfield water management	Sediment Dams	TBA ¹	TBA ¹
Water management	Nolan's water management	Sediment Dams	TBA ¹	TBA ¹
	Underground water supply infrastructure	Native Ecosystem	TBA ¹	TBA ¹
	Buck Reef West Water management	Native Ecosystem	TBA ¹	TBA ¹
	Seepage recovery	Native Ecosystem	TBA ¹	TBA ¹
	Sarsfield Pit	Open Void	TBA ¹	TBA ¹
Pits	Nolans Pit	Open Void	TBA ¹	TBA ¹
	Buck Reef West Pit	Open Void	TBA ¹	TBA ¹
Historic mining area	Heap leach pads 1 and 2	Revegetated Leach Pads	TBA ¹	TBA ¹

Mine Domain	Mine Feature Name	Post-mine land description	Indicator	Completion criteria
	Golf course/ Historic Mellaneur Pit	Golf Course	TBA ¹	TBA ¹
	Waste rock dump 1 (SYC & OCA)	Revegetated Waste Rock Dump	TBA ¹	TBA ¹
	Waste rock dump 2 & ROM (Buck Reef)	Revegetated Waste Rock Dump	TBA ¹	TBA ¹
	Sandy Creek Tailings Storage Facility	Native Ecosystem	TBA ¹	TBA ¹
	Mt Wright historic workings and exploration	Native Ecosystem/Low Intensity Grazing	TBA ¹	TBA ¹
	Sandy Creek plant site	Native Ecosystem	TBA ¹	TBA ¹
Other	Sarsfield acoustic bund	Native Ecosystem TBA ¹		TBA ¹
	Buck Reef West acoustic bund	Native Ecosystem TBA ¹		TBA ¹
	Helipad	Native Ecosystem	TBA ¹	TBA ¹
	Topsoil stockpiles	Native Ecosystem	TBA ¹	TBA ¹

Notes:

1. TBA fields to be provided to the administering authority **5 March 2018** and in accordance with the administering authorities' rehabilitation guideline 'Rehabilitation requirements for mining resource activities (EM1122)'

- G2 A Post Mine Land Use Plan ('PMLUP') that describes how the rehabilitation objectives in condition G1 will be achieved must be developed, documented and implemented for all stages of the activity by 5 March 2018. The PMLUP must at minimum include:
 - a) schematic representation of the proposed final land form inclusive of site drainage features;
 - b) details of proposed slope design and erosion and sediment controls;
 - c) proposed cover designs for encapsulation of waste material, including performance criteria;
 - d) proposed re-vegetation methods inclusive of plant species selection, propagation methods and establishment of suitable plant growth medium (i.e. top soil);
 - e) materials balance for all rehabilitation requirements including available top soil and material suitable for encapsulating waste in accordance with the proposed encapsulation methodology;
 - f) geotechnical, geochemical and hydrological studies necessary to demonstrate likely success of proposed rehabilitation methodology to achieve the required rehabilitation outcomes;
 - g) an investigation of proposed residual voids including potential for generation/mobilisation of contaminants, potential pathways for release of contaminants to waters (including groundwater) and a long-term void water balance model; and
 - h) a rehabilitation-monitoring program sufficient to identify if required rehabilitation outcomes have been achieved.

- G3 Rehabilitation in accordance with condition G2 must commence progressively, and within 6 months (or longer period agreed in writing with the administering authority) of completion of activities causing significant disturbance to land.
- G4 All explosives, flammable or corrosive substances, hazardous chemicals, toxic substances, gases and dangerous goods must be stored and handled in accordance with:
 - a) the current Australian Standard where applicable; or
 - b) where no relevant Australian Standard exists, store such materials within an on-site containment system sufficient to prevent release to the receiving environment.
- G5 Significant residual impacts to prescribed environmental matters, other than if the impacts were authorised by an existing authority issued before the commencement of the *Environmental Offsets Act 2014*, are not authorised under this environmental authority or the *Environmental Offsets Act 2014* unless the impact is specified in 'Table G2 Significant residual impacts to prescribed environmental matters'.

Table G2 – Significant residual impacts to prescribed environmental matters

Prescribed environmental matter	Location of impact	Maximum extent of impact		
	GDA94 (Zone 55)			
Prescribed Regional Ecosystem (RE) within defi	ned distance of the defi	ning banks of a watercourse		
RE 9.12.1a <i>Eucalyptus crebra</i> and/or <i>E. xanthoclada</i> and/or <i>E. drepanophylla</i> low open woodland on igneous rocks	Easting 489143, Northing 7774174	28.9ha		
RE 9.3.1 <i>Eucalyptus camaldulensis</i> and/or <i>E.</i> <i>tereticornis</i> +/- <i>Melaleuca</i> spp. +/- <i>Casuarina</i> <i>cunninghamiana</i> fringing woodland on channels and levees	Easting 488693, Northing 7774020	0.9ha		

- G6 Records demonstrating that each impact to a prescribed environmental matter not listed in 'Table G2 Significant residual impacts to prescribed environmental matters' did not, or is not likely to, result in a significant residual impact to that matter must be:
 - a) completed by an appropriately qualified person; and
 - b) kept for the life of the environmental authority.
- G7 An environmental offset made in accordance with the *Environmental Offsets Act 2014* and Queensland Environmental Offsets Policy, as amended from time to time, must be undertaken for the maximum extent of impact to each prescribed environmental matter authorised in 'Table G2 – Significant residual impacts to prescribed environmental matters', unless a lesser extent of the impact has been approved in accordance with condition G9.
- G8 Prior to the commencement of any impacts to a prescribed environmental matter for which an environmental offset is required by condition G7, a report completed by an appropriately qualified person that contains an analysis of the estimated maximum extent of impact to each prescribed environmental matter must be provided to the administering authority.
- G9 The report required by condition G8 must be approved by the administering authority before the notice of election, if applicable, is given to the administering authority.

- G10 The notice of election for the environmental offset required by condition G9, if applicable, must be provided to the administering authority no less than three months before the proposed commencement of the significant residual impacts for which the environmental offset is required.
- G11 All previous disturbance on mining lease ML1722, as depicted in 'Schedule K, Figure 3' must be rehabilitated in accordance with conditions G1 and G2 of this environmental authority.

Note: ML1722 was replaced by ML100172.

G12 All previous disturbance on the area covered by mining lease ML100156, as depicted in 'Schedule K, Figure 3' must be rehabilitated in accordance with conditions G1 and G2 of this environmental authority.

END OF SCHEDULE G

Schedule H: Heritage

H1 The environmental authority holder must implement and maintain a Historic Heritage Management Plan.

END OF SCHEDULE H

Schedule I: Regulated Structures

- I1 The consequence category of any structure must be assessed by a suitably qualified and experienced person in accordance with the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933) at the following times:
 - a) prior to the design and construction of the structure, if it is not an existing structure; or
 - b) if it is an existing structure prior to any change in its purpose or the nature of its stored contents.
- I2 A consequence assessment report and certification must be prepared for each structure assessed and the report may include a consequence assessment for more than one structure.
- I3 Certification must be provided by the suitably qualified and experienced person who undertook the assessment, in the form set out in the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933).
- 14 Conditions 15 to 19 inclusive do not apply to existing structures.
- I5 All regulated structures must be designed by, and constructed under the supervision of, a suitably qualified and experienced person in accordance with the requirements of the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933).
- I6 Construction of a regulated structure is prohibited unless the environmental authority holder has submitted to the administering authority and 28 days have elapsed, the following:
 - a) a consequence category assessment report, as required by condition I2, and
 - b) the suitably qualified and experienced person certified design and design plan; and
 - c) the associated operating procedures produced by a suitably qualified and experienced person.
- I7 Certification must be provided by the suitably qualified and experienced person who oversees the preparation of the design plan in the form set out in the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933), and must be recorded in the Regulated Structures register.
- I8 Regulated structures must:
 - a) be designed and constructed in accordance with and conform to the requirements of the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933);
 - b) be designed and constructed with due consideration given to ensuring that the design integrity would not be compromised on account of:
 - i. floodwaters from entering the regulated structure from any watercourse or drainage line; and
 - ii. wall failure due to erosion by floodwaters arising from any watercourse or drainage line.
 - c) have the floor and sides of the structure designed and constructed to prevent or minimise the passage of the wetting front and any entrained contaminants through either the floor or sides of the structure during the operational life of the structure and for any period of decommissioning and rehabilitation of the structure.
- 19 Certification by the suitably qualified and experienced person who supervises the construction must be submitted to the administering authority within 10 days of the completion of construction of the regulated structure (or a timeframe agreed to by the administering authority), and state that:
 - a) the 'as constructed' drawings and specifications meet the original intent of the design plan for that regulated structure; and
 - b) construction of the regulated structure is in accordance with the design plan.

- 110 All affected persons must be provided with a copy of the emergency action plan in place for each regulated structure:
 - a) for existing structures that are regulated structures, within ten (10) business days of this condition taking effect;
 - b) prior to the operation of the new regulated structure; and
 - c) if the emergency action plan is amended, within five (5) business days of it being amended.
- 111 Operation of a regulated structure, except for an existing structure, must not commence unless the environmental authority holder has submitted to the administering authority all of the following:
 - a) one electronic copy of the design plan and certification of the 'design plan' in accordance with condition I6;
 - b) a set of 'as constructed' drawings and specifications;
 - c) certification of the 'as constructed drawings and specifications' in accordance with condition I9;
 - where the regulated structure is to be managed as part of an integrated containment system for the purpose of sharing the design storage allowance (DSA) volume across the system, a copy of the certified system design plan;
 - e) the requirements of this authority relating to the construction of the regulated structure have been met;
 - f) the environmental authority holder has entered the details required under this authority, into a Register of Regulated Structures; and
 - g) there is a current operational plan for the regulated structure.
- I12 For existing structures that are regulated structures:
 - a) where the existing structure that is a regulated structure is managed as part of an integrated containment system for the purpose of sharing the DSA volume across the system, the environmental authority holder must submit to the administering authority within three (3) months of the commencement of this condition a copy of the certified system design plan including that structure; and
 - b) there must be a current operational plan for the existing structures.
- 113 Each regulated structure must be maintained and operated, for the duration of its operational life until decommissioned and rehabilitated, in a manner that is consistent with the current operational plan and, if applicable, the current design plan and associated certified 'as constructed' drawings.
- 114 Conditions 115 to 117 inclusive apply to all Regulated Structures other than those certified as low consequence category for 'failure to contain overtopping'.
- 115 The Mandatory Reporting Level (the MRL) specified in 'Table 11 Hydraulic Performance Criteria' must be marked on a regulated structure in such a way that during routine inspections of that structure, it is clearly observable.
- 116 The environmental authority holder must, as soon as practical and within forty-eight (48) hours of becoming aware, notify the administering authority when the level of the contents of a regulated structure reaches the MRL.
- 117 The environmental authority holder must, immediately on becoming aware that the MRL has been reached, act to prevent the occurrence of any unauthorised discharge from the regulated structure.

- 118 The environmental authority holder must assess the performance of each regulated structure or linked containment system over the preceding November to May period based on actual observations of the available storage in each regulated structure or linked containment system taken prior to 1 July of each year.
- 119 By 1 November of each year, storage capacity must be available in each regulated structure (or network of linked containment systems with a shared DSA volume), to meet the Design Storage Allowance (DSA) volume for the structure (or network of linked containment systems), as specified in 'Table I1- Hydraulic performance criteria'.
- 120 The environmental authority holder must, as soon as possible and within forty-eight (48) hours of becoming aware that the regulated structure (or network of linked containment systems) will not have the available storage to meet the DSA volume on 1 November of any year, notify the administering authority.
- I21 The environmental authority holder must, immediately on becoming aware that a regulated structure (or network of linked containment systems) will not have the available storage to meet the DSA volume on 1 November of any year, act to prevent the occurrence of any unauthorised discharge from the regulated structure or linked containment systems.
- I22 Each regulated structure must be inspected each calendar year by a suitably qualified and experienced person.
- 123 At each annual inspection, the condition and adequacy of all components of the regulated structure must be assessed and a suitably qualified and experienced person must prepare an annual inspection report containing details of the assessment and include a recommendations section, with any recommended actions to ensure the integrity of the regulated structure or a positive statement that no recommendations are required.
- 124 The suitably qualified and experienced person who prepared the annual inspection report must certify the report in accordance with the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933).
- 125 The environmental authority holder must within twenty (20) business days of receipt of the annual inspection report, provide to the administering authority:
 - a) the recommendations section of the annual inspection report; and
 - b) if applicable, any details of any actions being taken in response to those recommendations

Table I1 – Hydraulic performance criteria

Name of Regulated	Design	Spillway Capacity		Design Storage Allowance (DSA)		Mandatory Reporting Level (MRL)		Purpose of
Structure	Consequence Category	Design Criteria	m RL	Design Criteria	m RL	Design Criteria	m RL	structure
Old Nolan's Tailings Storage Facility	Non-operational							
Nolan's Tailings Storage Facility Expansion Stage 1A (RL260.0m)	High	1:100,000 AEP	RL 259.0	1:100 AEP 3 month wet season + process inputs	RL 257.3 (1,660ML)	Greater of 1:100 AEP 72 hour storm; or 1:100 AEP wind event	RL 258.4	Permanent containment of gold processing tailings and RO plant brine waste
Nolan's Tailings Storage Facility Expansion Stage 1B (RL270.0m)	High	1:100,000 AEP	RL 269.0	1:100 AEP 3 month wet season + process inputs	RL 267.5 (1,660ML)	Greater of 1:100 AEP 72 hour storm; or 1:100 AEP wind event	RL 268.5	Permanent containment of gold processing tailings and RO plant brine waste
Nolan's Tailings Storage Facility Expansion Stage 1C (RL280.0m)	High	1:100,000 AEP	RL 279.0	1:100 AEP 3 month wet season + process inputs	RL 277.6 (1,660ML)	Greater of 1:100 AEP 72 hour storm; or 1:100 AEP wind event	RL 278.5	Permanent containment of gold processing tailings and RO plant brine waste
Nolan's Tailings Storage Facility Expansion Stage 2 (RL286.0m)	High	1:100,000 AEP	RL 285.0	1:100 AEP 3 month wet season + process inputs	RL 283.7 (805ML)	Greater of 1:100 AEP 72 hour storm; or 1:100 AEP wind event	RL 284.5	Permanent containment of gold processing tailings and RO plant brine waste
Nolan's Tailings Storage Facility Expansion Stage 3 (RL305.5m)	High	1:100,000 AEP	RL 304.5	1:100 AEP 3 month wet season + process inputs	RL 297.6 (1,660ML)	Greater of 1:100 AEP 72 hour storm; or 1:100 AEP wind event	RL 303.75	Permanent containment of gold processing tailings and RO plant brine waste
Nolan's Tailings Storage Facility Expansion Stage 6 (RL313.0m)	High	1:100,000 AEP	RL 312.0	1:100 AEP 3 month wet season + process inputs	RL 308.5 (805ML)	Greater of 1:100 AEP 72 hour storm; or 1:100 AEP wind event	RL 311.25	Permanent containment of gold processing tailings and RO plant brine waste

Permit Environmental authority EPML00979013

Name of Regulated	Design Consequence	Spillway Capacity		Design Storage Allowance (DSA)		Mandatory Reporting Level (MRL)		Purpose of
Structure	Category	Design Criteria	m RL	Design Criteria	m RL	Design Criteria	m RL	structure
Dry Stack Tailings Storage Facility	High	TBD	TBD	1: 100 AEP 3 month wet season + process inputs	TBD	TBD	TBD	Permanent containment of gold processing tailings
Sandy Creek Tailings Storage Facility				Non-operat	ional			
Nolan's / Sarsfield Pit	Significant	N/A	N/A	1:10 AEP 3 month wet season + process inputs	RL 235.6 (1,516 ML)	1:100 AEP	RL 235.8	Tailings and mine affected water
Buck Reef West Pit ⁽¹⁾	Significant	N/A	Spill RL 259.0	1:20 AEP 3 month wet season + process inputs	RL 223.5	1:10 AEP 72 hour storm		Permanent containment of gold processing tailings
Sandy Creek ROW 1 & 2 Dam				Non-operat	ional			
Sandy Creek ROW 3 Dam				Non-operat	ional			
Process Water	Significant	1:100 AEP	RL 271.9	N/A	N/A	N/A	N/A	Recycling and supply of process water to the processing plant.
Sarsfield Sediment Dam	Significant	1:100 AEP	RL 247.7	N/A	N/A	N/A	N/A	Containing surface runoff from the Nolans and Sarsfield waste rock dumps.

Notes:

TBD means to be determined based on the risk classification and the final certified design plans

(1) Buck Reef West Pit is not a regulated structure for the purposes of the conditions of this environmental authority until deposition of mine tailings into the pit commences

- I26 The environmental authority holder must provide a copy of any reports, documentation and certifications prepared under this authority, including but not limited to any Register of Regulated Structures, consequence assessment, design plan and other supporting documentation, to a new holder on transfer of this authority.
- I27 Regulated structures must not be abandoned but be either:
 - a) decommissioned and rehabilitated to achieve compliance with condition I28; or
 - b) be left in-situ for a use by the landholder provided that:
 - i. it no longer contains contaminants that will migrate into the environment; and
 - ii. it contains water of a quality that is demonstrated to be suitable for its intended use(s); and

Environmental authority EPML00979013

- iii. the holder of the environmental authority and the landholder agree in writing that the;
 - a. dam will be used by the landholder following the cessation of the environmentally relevant activity(ies); and
 - b. landholder is responsible for the dam on and from an agreed date
- I28 Before surrendering this environmental authority, the site must be rehabilitated to achieve a safe, stable, non-polluting landform and rehabilitated in accordance with 'Table G1- Final Land Use and Rehabilitation Approval Schedule'.
- I29 A Register of Regulated Structures must be established and maintained by the environmental authority holder for each regulated structure.
- 130 The environmental authority holder must provisionally enter the required information in the Register of Regulated Structures when a design plan for a regulated structure is submitted to the administering authority.
- 131 The environmental authority holder must make a final entry of the required information in the Register of Regulated Structures once compliance with condition 111 and 112 has been achieved.
- 132 The environmental authority holder must ensure that the information contained in the Register of Regulated Structures is current and complete on any given day.
- 133 All entries in the Register of Regulated Structures must be approved by the chief executive officer for the holder of this environmental authority, or their delegate, as being accurate and correct.
- 134 All existing structures that have not been assessed in accordance with either the Manual or the former Manual for Assessing Hazard Categories and Hydraulic Performance of Dams must be assessed and certified in accordance with the Manual within six (6) months of amendment of the authority adopting this schedule.
- I35 All regulated structures must be specified in 'Table I1- Hydraulic performance criteria'.
- I36 Each regulated structure authorised by this environmental authority as specified in 'Table A1 Authorised Disturbance', must meet the hydraulic performance criteria listed in 'Table I1 – Hydraulic performance criteria' for that structure.
- I37 The hydraulic performance criteria specified in 'Table I1 Hydraulic performance criteria' are the minimum mandatory performance requirements; regulated structures must be managed in a manner that ensures compliance with all conditions of this environmental authority.
- 138 Closure plans must be in place for each of the following structures listed in 'Table I1 Hydraulic performance criteria':
 - a) Old Nolan's Tailings Storage Facility;
 - b) Sandy Creek Tailings Storage Facility;
 - c) Sandy Creek ROW 3 Dam;
 - d) Sandy Creek ROW 1 & 2 Dam.
- I39 The closure plans required by condition I38 must address each of the closure considerations of the guideline: ANCOLD Guidelines on Tailings Dams, Planning, Design, Construction, Operation and Closure Revision 1 (July 2019).
- 140 Once tailings deposition commences, the standing water level within Buck Reef West Pit must not exceed RL 228.7.
- I41 Once tailings deposition commences, the RL must be visibly marked on the internal pit wall of the Buck Reef West Pit and the standing water level within Buck Reef West Pit must be measured at least monthly and recorded.

- 142 The deposition of tailings in Buck Reef West Pit must not cause a release of contaminants to groundwater.
- 143 The standing water level within Buck Reef West Pit must be modelled using a suitably complex water balance model and the water balance model must be validated annually using all relevant data including groundwater monitoring data, climatic data and the measured standing water level in the Buck Reef West Pit.
- 144 The environmental authority holder must ensure that tailings stored within Buck Reef West Pit are submerged beneath a minimum one (1) metre water cover at all times.

END OF SCHEDULE I

Schedule J: Definitions

Key terms and/or phrases used in this document are defined in this section. Applicants should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined, it has its ordinary meaning.

Acceptance criteria means the measures by which actions implemented are deemed to be complete. The acceptance criteria indicate the success of the decommissioning and rehabilitation outcomes or remediation of areas which have been significantly been disturbed by the mining activities. Acceptance criteria may include information regarding:

- a) stability of final land forms in terms of settlement, erosion, weathering, pondage and drainage;
- b) control of geochemical and contaminant transport processes;
- c) quality of runoff waters and potential impact on receiving environment;
- d) vegetation establishment, survival and succession;
- e) vegetation productivity, sustained growth and structure development;
- f) fauna colonisation and habitat development;
- g) ecosystem processes such as soil development and nutrient cycling, and the recolonisation of specific fauna groups such as collembola, mites and termites which are involved in these processes;
- h) microbiological studies including recolonisation by mycorrhizal fungi, microbial biomass and respiration;
- i) effects of various establishment treatments such as deep ripping, topsoil handling, seeding and fertiliser application on vegetation growth and development;
- j) resilience of vegetation to disease, insect attack, drought and fire;
- k) vegetation water use and effects on ground water levels and catchment yields

Administering authority is the agency that administers the environmental authority provisions under the *Environmental Protection Act 1994*.

Affected person means someone whose drinking water can potentially be impacted because of discharges from a dam or their life or property can be put at risk due to dwellings or workplaces being in the path of a dam break flood.

Airblast overpressure means energy transmitted from the blast site within the atmosphere in the form of pressure waves. The maximum excess pressure in this wave, above ambient pressure is the peak airblast overpressure measured in decibels linear (dBL).

Ambient (or total) noise at a place, means the level of noise at the place from all sources (near and far), measured as the Leq for an appropriate time interval.

Annual exceedance probability or **AEP** means the probability that at least one event in excess of a particular magnitude will occur in any given year.

Annual inspection report means an assessment prepared by a suitably qualified and experienced person containing details of the assessment against the most recent consequence assessment report and design plan (or system design plan);

- a) against recommendations contained in previous annual inspections reports;
- b) against recognised dam safety deficiency indicators;
- c) for changes in circumstances potentially leading to a change in consequence category;
- d) for conformance with the conditions of this authority;

- e) for conformance with the 'as constructed' drawings;
- f) for the adequacy of the available storage in each regulated dam, based on an actual observation or observations taken after 31 May each year but prior to 1 November of that year, of accumulated sediment, state of the containment barrier and the level of liquids in the dam (or network of linked containment systems);
- g) for evidence of conformance with the current operational plan

Appropriately qualified person means a person who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis on performance relating to the subject matter using the relevant protocols, standards, methods or literature.

Assessed or **assessment** by a suitably qualified and experienced person in relation to a consequence assessment of a dam, means that a statutory declaration has been made by that person and, when taken together with any attached or appended documents referenced in that declaration, all of the following aspects are addressed and are sufficient to allow an independent audit of the assessment:

- a) exactly what has been assessed and the precise nature of that determination;
- b) the relevant legislative, regulatory and technical criteria on which the assessment has been based;
- c) the relevant data and facts on which the assessment has been based, the source of that material, and the efforts made to obtain all relevant data and facts; and
- d) the reasoning on which the assessment has been based using the relevant data and facts, and the relevant criteria

Associated works in relation to a dam, means:

- a) operations of any kind and all things constructed, erected or installed for that dam; and
- b) any land used for those operations

Authority means an environmental authority or a development approval.

Background with reference to the water schedule means the average of samples taken prior to the commencement of mining from the same waterway that the current sample has been taken.

Blasting means the use of explosive materials to fracture:

- a) rock, coal and other minerals for later recovery, or
- b) structural components or other items to facilitate removal from a site or for reuse

Certification means assessment and approval must be undertaken by a suitably qualified and experienced person in relation to any assessment or documentation required by this manual, including design plans, 'as constructed' drawings and specifications, construction, operation or an annual report regarding regulated structures, undertaken in accordance with the Board of Professional Engineers of Queensland Policy Certification by RPEQs (ID: 1.4 (2A)).

Certifying, certify or certified has a corresponding meaning as 'certification'.

Chemical means:

- a) an agricultural chemical product or veterinary chemical product within the meaning of the *Agricultural* and Veterinary Chemicals Code Act 1994 (Commonwealth); or
- b) a dangerous good under the dangerous goods code; or
- c) a lead hazardous substance within the meaning of the Work Health and Safety Regulation 2011; or
- d) a drug or poison in the standard for the uniform scheduling of drugs and poisons prepared by the Australian Health Ministers' Advisory Council and published by the Commonwealth; or

- e) any substance used as, or intended for use as
 - i. a pesticide, insecticide, fungicide, herbicide, rodenticide, nematocide, miticide, fumigant or related product; or
 - ii. a surface active agent, including, for example, soap or related detergent; or
 - iii. a paint solvent, pigment, dye, printing ink, industrial polish, adhesive, sealant, food additive, bleach, sanitiser, disinfectant, or biocide; or
 - iv. a fertiliser for agricultural, horticultural or garden use; or
- f) a substance used for, or intended for use for
 - i. mineral processing or treatment of metal, pulp and paper, textile, timber, water or wastewater; or
 - ii. manufacture of plastic or synthetic rubber

Commercial place means a workplace used as an office or for business or commercial purposes, which is not part of the mining activity and does not include employees' accommodation or public roads.

Consecutive sampling occasions means successive sampling events and includes resampling of groundwaters that is required under condition E30.

Consequence in relation to a structure as defined, means the potential for environmental harm resulting from the collapse or failure of the structure to perform its primary purpose of containing, diverting or controlling flowable substances.

Consequence category means a category, either low, significant or high, into which a dam is assessed as a result of the application of tables and other criteria in the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933).

Construction or **constructed** in relation to a regulated structure includes building a new regulated structure and lifting or otherwise modifying an existing regulated structure, but does not include investigations and testing necessary for the purpose of preparing a design plan.

Contaminants includes any prescribed water contaminants listed under Schedule 10 of the *Environmental Protection Regulations 2019.*

Contaminated water has the same meaning as "contaminants"

Dam means a land-based structure or a void that contains, diverts or controls flowable substances, and includes any substances that are thereby contained, diverted or controlled by that land-based structure or void and associated works.

Design plan is a document setting out how all identified consequence scenarios are addressed in the planned design and operation of a regulated structure.

Design storage allowance or **DSA m**eans an available volume, estimated in accordance with the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933) published by the administering authority, must be provided in a dam as at 1 November each year in order to prevent a discharge from that dam to an annual exceedance probability (AEP) specified in that manual.

Development approval means a development approval under the *Integrated Planning Act 1997*, the *Sustainable Planning Act 2009*, or the *Planning Act 2016* in relation to a matter that involves an environmentally relevant activity under the *Environmental Protection Act 1994*.

Disturbance of land includes:

a) compacting, removing, covering, exposing or stockpiling of earth;

- b) removal or destruction of vegetation or topsoil or both to an extent where the land has been made susceptible to erosion;
- c) carrying out mining within a watercourse, waterway, wetland or lake;
- d) the submersion of areas by tailings or hazardous contaminant storage and dam/structure walls;
- e) temporary infrastructure, including any infrastructure (roads, tracks, bridges, culverts, dam/structures, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc.) which is to be removed after the mining activity has ceased;
- f) releasing of contaminants into the soil, or underlying geological strata

However, the following areas are not included when calculating areas of 'disturbance':

- a) areas off lease (e.g. Roads or tracks which provide access to the mining lease);
- b) areas previously disturbed which have achieved the rehabilitation outcomes;
- by agreement with the administering authority, areas previously disturbed which have not achieved the rehabilitation objective(s) due to circumstances beyond the control of the mine operator (such as climatic conditions);
- areas under permanent infrastructure. Permanent infrastructure includes any infrastructure (roads, tracks, bridges, culverts, dam/structures, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc.) which is to be left by agreement with the landowner;
- e) disturbance that pre-existed the grant of the tenure

Dry season means May to December each calendar year

EC means electrical conductivity.

Effluent means treated wastewater released from sewage treatment plants.

Emergency action plan means documentation forming part of the operational plan held by the holder or a nominated responsible officer, that identifies emergency conditions that sets out procedures and actions that will be followed and taken by the dam owner and operating personnel in the event of an emergency. The actions are to minimise the risk and consequences of failure, and ensure timely warning to affected persons and the implementation of protection measures. The plan must require dam owners to annually review and update contact information where required.

Environmental authority holder means the holder of this environmental authority or any other works conducted by another entity on the approved leases.

Existing structure means a structure that prior to 3 March 2017 meets any or both of the following, a structure:

- a) with a design that is in accordance with the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933) and that is considerably in progress;
- b) that is under considerable construction or that is constructed

Flowable substance means matter or a mixture of materials which can flow under any conditions potentially affecting that substance. Constituents of a flowable substance can include water, other liquids fluids or solids, or a mixture that includes water and any other liquids fluids or solids either in solution or in suspension.

Foreseeable future is the period used for assessing the total risk of an event occurring. Permanent structures and ecological sustainability should be expected to still exist at the end of a 150-year foreseeable future with an acceptable risk of failure before that time.

General waste means:

- a) construction wastes and demolition waste;
- b) solid inert waste;
- c) putrescible wastes and domestic garbage;
- d) green wastes; and
- e) general recyclable wastes, consisting of paper, cardboard, recyclable plastics, glass, aluminium, and steel cans
- Note 1: Paper covered plasterboard must only be received at the approved place if it is generated by construction and demolition activities and delivered to the approved place as part of a mixed load of materials;
- Note 2: Drums containing any residual regulated wastes are themselves a regulated waste and must not be accepted for disposal at the approved place unless they have been triple rinsed or thoroughly cleaned.

Holder means:

- a) where this document is an environmental authority, any person who is the holder of, or is acting under, that environmental authority; or
- b) where this document is a development approval, any person who is the registered operator for that development approval

Hydraulic performance means the capacity of a regulated dam to contain or safely pass flowable substances based on the design criteria specified for the relevant consequence category in the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933).

Hyporheic means the waters in the saturated sediment and porous space adjacent to surface waters where exchange between groundwater and surface water can occur.

Improved means a statistically significant difference that demonstrates that the quality has become or been made better over time.

Infrastructure means water storage dams, roads and tracks, buildings and other structures built for the purpose of mining activities.

La 10, adj, 15 mins means the a-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 15-minute measurement period, using fast response.

La 1, adj, 15 mins means the a-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 15-minute measurement period, using fast response.

La, max adj, t means the average maximum a-weighted sound pressure level, adjusted for noise character and measured over any 15-minute period, using fast response.

Land in the 'land and rehabilitation schedule' of this document means land excluding waters and the atmosphere, that is, the term has a different meaning from the term as defined in the *Environmental Protection Act 1994*. For the purposes of the *Acts Interpretation Act 1954*, it is expressly noted that the term 'land' in this environmental authority relates to physical land and not to interests in land.

Land use means the selected post mining use of the land, which is planned to occur after the cessation of mining operations.

Landfill unit means a discrete area of land or an excavation that receives solid waste.

Landfill facility means land and structures at the site approved used for the disposal of solid waste.

Leachate means a liquid that has passed through or emerged from, or is likely to have passed through or emerged from, a material stored, processed or disposed of at the operational land which contains soluble, suspended or miscible contaminants likely to have been derived from the said material.

Levee means an embankment that only provides for the containment and diversion of stormwater or flood flows from a contributing catchment, or containment and diversion of flowable materials resulting from releases from other works, during the progress of those stormwater or flood flows or those releases; and does not store any significant volume of water or flowable substances at any other times.

Licensed place means the mining activities carried out at the mining tenements detailed in 'Table A1 – Authorised activities and location' of this environmental authority.

m means metres.

Mandatory reporting level or **MRL** means a warning and reporting level determined in accordance with the criteria in the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933) published by the administering authority.

Manual means the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933) published by the administering authority.

Measures includes any measures to prevent or minimise environmental impacts of the activity such as bunds, silt fences, diversion drains, capping, and containment systems.

Mine affected water means the following types of water:

- a) pit water, tailings dam water, processing plant water;
- b) water contaminated by a mining activity which would have been an environmentally relevant activity under Schedule 2 of the *Environmental Protection Regulation 2019* if it had not formed part of the mining activity;
- c) rainfall runoff which has been in contact with any areas disturbed by mining activities which have not yet been rehabilitated, excluding rainfall runoff discharging through release points associated with erosion and sediment control structures that have been installed in accordance with the standards and requirements of an Erosion and Sediment Control Plan to manage such runoff, provided that this water has not been mixed with pit water, tailings dam water, processing plant water or workshop water;
- d) groundwater which has been in contact with any areas disturbed by mining activities which have not yet been rehabilitated;
- e) groundwater from the mine's dewatering activities;
- f) a mix of mine affected water (under any of paragraphs a) to f) and other water
- g) does not include surface water runoff which, to the extent that it has been in contact with areas disturbed by mining activities that have not yet been completely rehabilitated, has only been in contact with:
 - Iand that has been rehabilitated to a stable landform and either capped or revegetated in accordance with the acceptance criteria set out in the environmental authority but only still awaiting maintenance and monitoring of the rehabilitation over a specified period of time to demonstrate rehabilitation success; or
 - ii. land that has partially been rehabilitated and monitoring demonstrates the relevant part of the landform with which the water has been in contact does not cause environmental harm to waters or groundwater, for example:

a.areas that are been capped and have monitoring data demonstrating hazardous material adequately contained with the site;

- b.evidence provided through monitoring that the relevant surface water would have met the water quality parameters for mine affected water release limits in this environmental authority, if those parameters had been applicable to the surface water runoff; or
- c. both

Minimise is to reduce to the smallest possible amount or degree.

Modifying see definition of 'construction'.

Natural flow means flow in the receiving environment that is caused by precipitation and/or groundwater in their natural state, not as a result of human activity.

Non-polluting means having no adverse impacts upon the receiving environment.

Noxious means harmful or injurious to health or physical wellbeing, other than trivial harm.

Offensive means causing reasonable offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive, other than trivial harm.

Operational plan includes:

- a) normal operating procedures and rules (including clear documentation and definition of process inputs in the **DSA**);
- b) contingency and emergency action plans including operating procedures designed to avoid and/or minimise environmental impacts including threats to human life resulting from any overtopping or loss of structural integrity of the regulated structure

Peak particle velocity (ppv) means a measure of ground vibration magnitude which is the maximum rate of change of ground displacement with time, usually measured in millimetres/second (mms).

Potentially acid forming (PAF) means any ore or rock with either a net acid producing potential of greater than 5 kg of H₂SO₄/tonne or a net acid generation oxidation pH of less than 4.5 (pH unit).

Protected area means:

- a) a protected area under the Nature Conservation Act 1992; or
- b) a marine park under the Marine Parks Act 2004; or
- c) a world heritage area

Receiving environment in relation to an activity that causes or may cause environmental harm, means the part of the environment to which the harm is, or may be, caused. The receiving environment includes (but is not limited to):

- a) a watercourse or surface waters;
- b) groundwater

Receiving waters has the same meaning as receiving environment.

Regulated structure means any structure in the significant or high consequence category as assessed using the Manual for assessing consequence categories and hydraulic performance of structures (ESR/2016/1933) published by the administering authority. A regulated structure does not include:

- a) a fabricated or manufactured tank or container, designed and constructed to an Australian Standard that deals with strength and structural integrity of that tank or container;
- b) a sump or earthen pit used to store residual drilling material and drilling fluid only for the duration of drilling and well completion activities;
- c) a flare pit

Rehabilitation means the process of reshaping and revegetating land to restore it to a stable landform and in accordance with the acceptance criteria set out in this environmental authority and, where relevant, includes remediation of contaminated land.

Release event means a surface water discharge from mine affected water storages or contaminated areas on the licensed place.

Representative means a sample set that covers the variance in monitoring or other data either due to natural changes or due to operational phases of the mining activities.

Residual drilling material means waste drilling materials including muds and cuttings or cement returns from well holes and which have been left behind after the drilling fluids are pumped out.

Residual void means an open pit resulting from the removal of ore and/or waste rock that will remain following the cessation of all mining activities and completion of rehabilitation processes.

Revegetated means the re-establishment of vegetation of a species¹ and density of cover similar to surrounding undisturbed areas or the landform that existed before mining activities on soil surfaces associated with the construction or rehabilitation of a watercourse diversion.

¹Not including a species declared under the *Stock Route Management Regulation 2003* as a category class 1 pest, category class 2 pest or category class 3 pest.

RL means reduced level, relative to mean sea level as distinct from depths to water.

Sensitive place means:

- a) a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- b) a motel, hotel or hostel; or
- c) an educational institution; or
- d) a medical centre or hospital; or
- e) a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
- f) a public park or gardens; or
- g) a sensitive receptor
- Note: The definition of '**sensitive place**' and '**commercial place**' is based on Schedule 1 of *Environmental Protection (Noise) Policy 2019.* That is, a sensitive place is inside or outside on a dwelling, library and educational institution, childcare or kindergarten, school or playground, hospital, surgery or other medical institution, commercial & retail activity, protected area or an area identified under a conservation plan under *Nature Conservation Act 1992* as a critical habitat or an area of major interest, marine park under *Marine Parks Act 2004*, park or garden that is outside of the mining lease and open to the public for the use other than for sport or organised entertainment. A commercial place is inside or outside a commercial or retail activity.

A mining camp (i.e., accommodation and ancillary facilities for mine employees or contractors or both, associated with the mine the subject of the environmental authority) is not a sensitive place for that mine or mining project, whether or not the mining camp is located within a mining tenement that is part of the mining project the subject of the environmental authority. For example, the mining camp might be located on neighbouring land owned or leased by the same company as one of the holders of the environmental authority for the mining project, or a related company. Accommodation for mine employees or contractors is a sensitive place if the land is held by a mining company or related company, and if occupation is restricted to the employees, contractors and their families for the particular mine or mines which are held by the same company or a related company.

For example, a township (occupied by the mine employees, contractors and their families for multiple mines that are held by different companies) would be a sensitive place, even if part or all of the township were constructed on land owned by one or more of the companies.

Sensitive receptor has the meaning in schedule 2 of the Environmental Protection (Noise) Policy 2019.

Spillway means a weir, channel, conduit, tunnel, gate or other structure designed to permit discharges from the dam, normally under flood conditions or in anticipation of flood conditions.

Stable means land form dimensions are or will be stable within tolerable limits now and in the foreseeable future. Stability includes consideration of geotechnical stability, settlement and consolidation allowances, bearing capacity (trafficability), erosion resistance and geochemical stability with respect to seepage, leachate and related contaminant generation.

Structure means any dam or levee.

Suitably qualified and experienced person in relation to regulated structures means a person who is a Registered Professional Engineer of Queensland (RPEQ) under the provisions of the *Professional Engineers Act 2002*, and has demonstrated competency and relevant experience:

- a) for regulated dams, an RPEQ who is a civil engineer with the required qualifications in dam safety and dam design;
- b) for regulated levees, an RPEQ who is a civil engineer with the required qualifications in the design of flood protection embankments

Note: It is permissible that a suitably qualified and experienced person obtain subsidiary certification from an RPEQ who has demonstrated competence and relevant experience in either geomechanics, hydraulic design or engineering hydrology.

System design plan means a plan that manages an integrated containment system that shares the required DSA and/or ESS volume across the integrated containment system.

Void means any constructed, open excavation in the ground.

Water is defined under schedule 4 of the Water Act 2000.

Water quality means the chemical, physical and biological condition of water.

Watercourse has the same meaning given in the Water Act 2000.

Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water in natural or artificial watercourses, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater or any part-thereof.

WaTERS means Water Tracking and Electronic Reporting System or subsequent updated system, used to submit monitoring data and notify the Queensland Government. [https://waters.ehp.qld.gov.au/] or contact psd.help@qld.gov.au

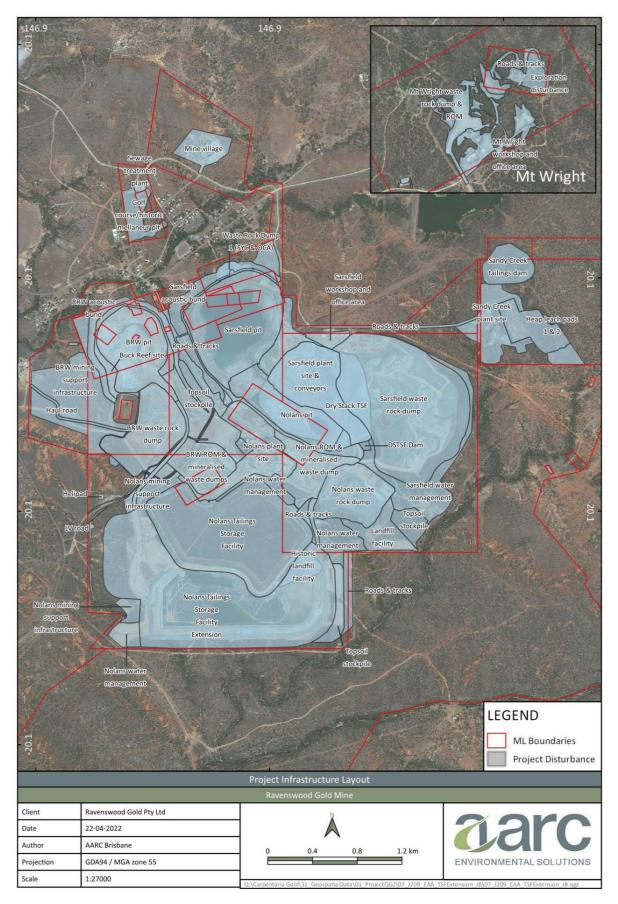
Wet season means January, February, March and April each calendar year.

µs/cm means micro siemens per centimetre.

END OF SCHEDULE J

Schedule K – Maps and Plans

Figure 1a (Project Infrastructure Layout)



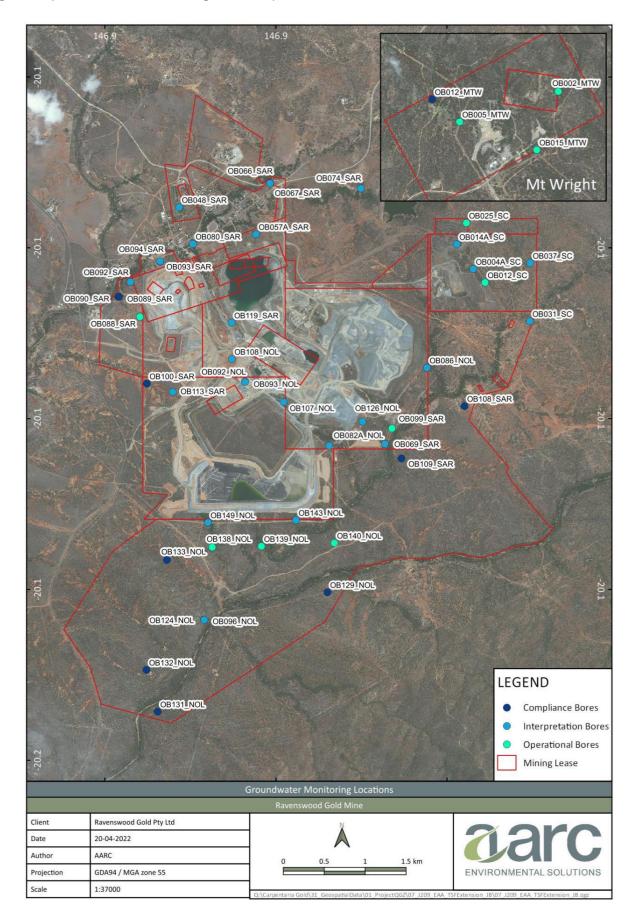


Figure 2a (Groundwater monitoring locations)

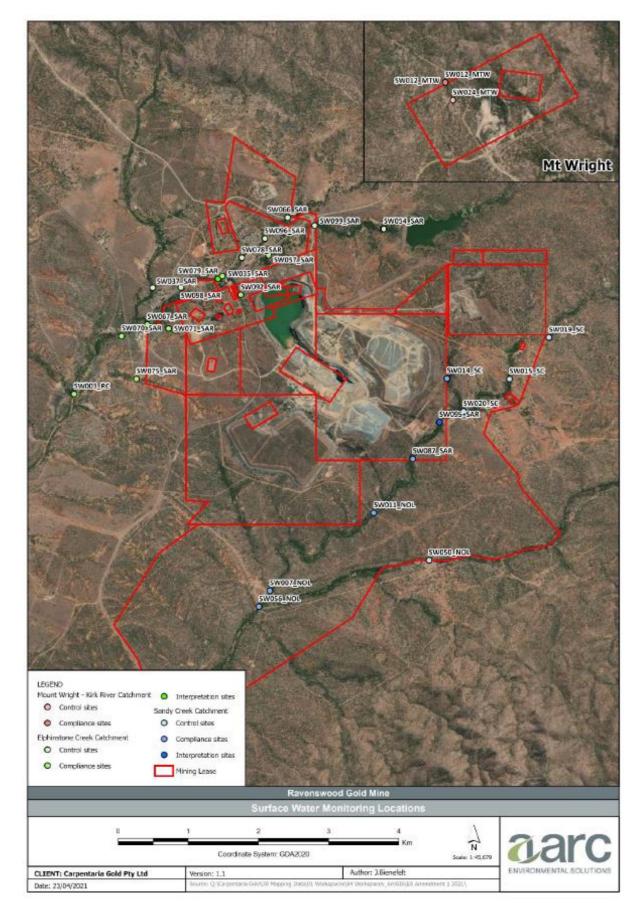


Figure 2b (Surface water monitoring locations)

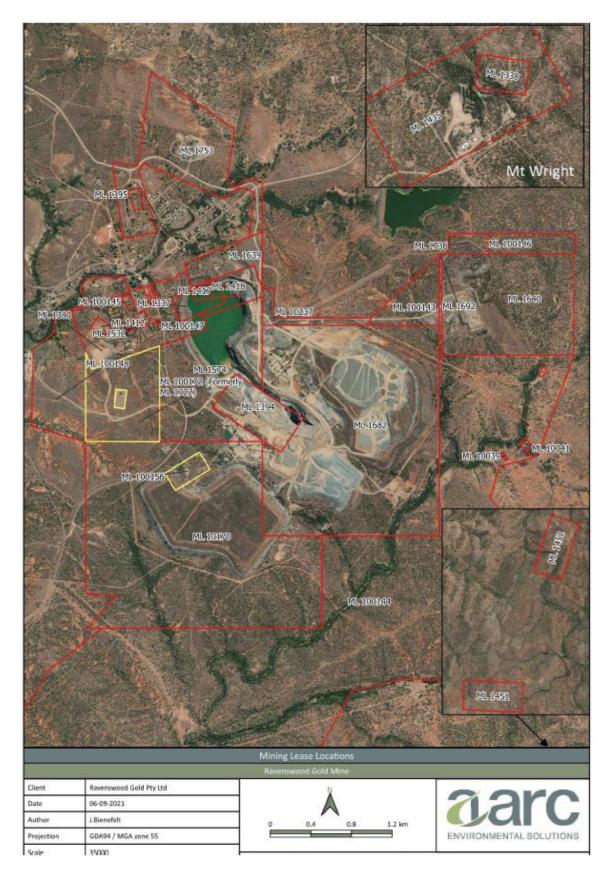
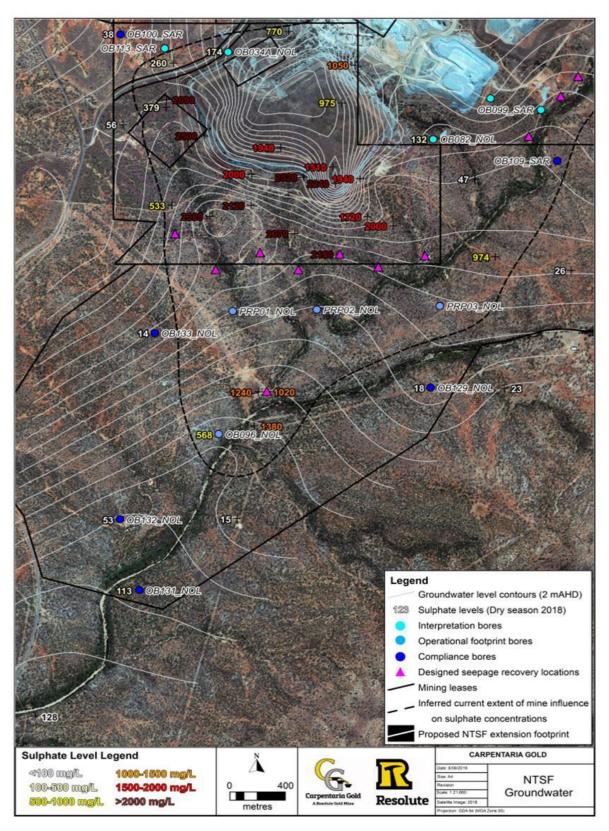


Figure 3 (Mining lease ML1722, ML100172 and ML10056 locations)

Figure 4 Seepage Recovery



END OF SCHEDULE K

END OF ENVIRONMENTAL AUTHORITY