Permit

Environmental Protection Act 1994

Environmental Authority EPML00820613

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

Environmental authority number: EPML00820613

Environmental authority takes effect on 30 October 2026.

The anniversary date of this environmental authority is 5 April each year.

Environmental authority holder

Name	Registered address
Tick Hill Mining Pty Ltd	278 Ross River Road, AITKENVALE QLD 4814

Environmentally relevant activity and location details

Environmentally relevant activities	Locations
Schedule 3 - 21 - A mining activity that is an ineligible ERA, other than a mining activity mentioned in items 9 to 20	ML7094; ML7096; ML7097
ERA 31 - Mineral processing - 2(b) - Processing, in a year, the following quantities of mineral products, other than coke - more than 100,000t	ML7094; ML7096

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).

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Mobile and temporary activities

If you operate a mobile and temporary ERA, other than regulated waste transport, you are required to maintain a work diary. You must:

- use the approved form for a work diary (ESR/2015/1696);
- keep the work diary records for 2 years after the last entry;
- inform the administering authority within 7 days of the work diary being lost or stolen;
- record the information required in the work diary for each location within 1 day of leaving the location.

Contaminated land

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

- the presence of, or happening of an event involving, a hazardous contaminant on the land that is causing, or is reasonably likely to cause, serious or material environmental harm (notice must be given within 24 hours); or
- if the land is contaminated land – a change in the condition of the land that is causing, or is reasonably likely to cause, serious or material environmental harm (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 land (notice must be given within 20 business days).

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

Take effect

Please note that, in accordance with section 200(1) 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, in accordance with section 200(2) of the EP Act, the day that the EA takes effect may not be before:

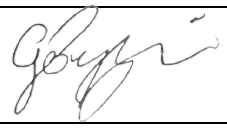
(a) if the authority is for a resource activity—the day the relevant tenure is granted to the applicant; or

(b) if a development permit for a material change of use of premises under the *Planning Act 2016* is necessary for carrying out an activity that related to the authority—the day the development permit takes effect; or

(c) if an SDA Approval under the *State Development and Public Works Organisation Act 1971* is necessary for carrying out an activity that relates to the authority—the day the approval takes 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 EA.



Signature

30 October 2026

Date

Giles Bezzina

Department of the Environment, Tourism, Science and Innovation
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:

Minerals Business Centre
PO Box 7230, Cairns QLD 4870
Phone: 07 4222 5352
Email: MineralsBusiness@detsi.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this EA, 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 restore the environment (section 319C)
- 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 EP Act. 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 and Federal Government agencies prior to commencing any activity at the site. For example, this may include permits or approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access State controlled roads), the Department of Natural Resources and Mines, Manufacturing, and Regional and Rural Development (to clear vegetation), and the Department of Primary Industries (to clear marine plants or to obtain a quarry material allocation).

Obligations under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act)

Matters of national environmental significance (MNES) are regulated under the Commonwealth EPBC Act rather than under state legislation. You may need to submit a referral if your project potentially impacts any matters protected under the EPBC Act. For more information on self-assessments, and referral and assessment processes, please visit the Australian Government Department of Climate Change, Energy, the Environment and Water's website at www.dcceew.gov.au/environment/epbc/advice.

Obligations under the *Aboriginal Cultural Heritage Act 2003* and *Torres Strait Islander Cultural Heritage Act 2003* (the Cultural Heritage Acts)

The Cultural Heritage Acts require anyone who carries out a land-use activity to exercise a duty of care. This 'duty of care' means land users must take all reasonable and practicable measures to ensure their activity does not harm Aboriginal or Torres Strait Islander cultural heritage, and applies to any activity where Aboriginal or Torres Strait Islander cultural heritage is located. For more information on your obligations under this legislation, please visit the Department of Women, Aboriginal and Torres Strait Islander Partnerships and Multiculturalism webpage at, www.dwatsipm.qld.gov.au.

Conditions of environmental authority

Relevant activity: The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Condition number	Condition
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** resulting from the authorised mining activities must not be released to the **receiving environment**.
A3	The **environmental authority** holder will not cause **environmental nuisance** outside the mining lease boundaries.
A4	In carrying out the mining activity authorised by this **environmental authority**, the holder of this **environmental authority** must comply with Schedule A – Table 1 (Authorised Activities).
A5	The holder of this **environmental authority** must: a) Install all measures, plant and equipment necessary to ensure compliance with the conditions of this **environmental authority**; b) Maintain such measures, plant and equipment in a proper and efficient condition; 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.
A6	The activities authorised by this **environmental authority** are limited to: a) **Care and maintenance** as defined in the definitions of this **environmental authority**; and b) The reclamation of tailings from the Tailings Storage Facility defined in Schedule A Figure 1a (Project Infrastructure Layout – Mine area) and Schedule A Figure 1b (Project Infrastructure Layout – Support Infrastructure) for processing on site, in accordance with the following criteria: i a maximum re-disturbance area of 6.5 hectares; ii processing using **gravity separation** methods only; c) Exploration activities in accordance with condition A15 of this **environmental authority**. d) Trial processing of tailings material within the Tailings Storage Facility footprint using a mobile crushing, milling and Carbon-in-Leach (CIL) processing circuit including associated infrastructure, at a rate not exceeding 50 tonnes of tailings material in any 24-hour period and for no longer than 1 calendar year from when processing first begins.
A7	The **environmental authority** holder must ensure that an estimated rehabilitation cost decision is in effect for the activity; and 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.

A8	The holder of this **environmental authority** must notify the **administering authority** by written notification within twenty-four (24) hours, after becoming aware of any 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**.
A9	Within ten (10) business days following the initial notification of an emergency 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.
A10	The holder of this **environmental authority** must record all environmental complaints received about the mining activities including the following details: 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.
A11	The holder of this **environmental authority** 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 ten (10) business days of completion of the investigation, or no later than ten (10) business days after the end of the timeframe nominated by the **administering authority** to undertake the investigation.
A12	By 11 October 2021, the holder of this environmental authority must: a) 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 yearly intervals, from the completion of the report referred to above c) provide each report to the administering authority within ninety (90) days of its completion.

A13	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 within two (2) years of the amendment or change being made, unless a different period is specified in the amended standard or relevant legislation; and b) Until compliance with the amended or changed standard is achieved, continue to remain in compliance with the standard that was current immediately prior to the relevant amendment or change.
A14	All exploration activity carried out on a mining lease listed in this **environmental authority** must comply with the provisions detailed in the **administering authority's** *Code of Environmental Compliance for Exploration and Mineral Development Projects* (*the Code*). Where there is a discrepancy between *the Code* and this **environmental authority**, the conditions of this **environmental authority** apply.
A15	Land disturbance must be rehabilitated in accordance with the most recent edition of the **administering authority's** guideline *Rehabilitation requirements for mining projects.*
A16	All buildings, structures, mining equipment and plant erected and/or used for the mining activities must be removed from the site prior to surrender, except where agreed in writing by the **administering authority** and the landowner.
A17	The environmental authority holder may dispose of up to 15 tonne per year of general waste generated at the mine for mining activities into the waste disposal trench facility located on ML7094 and identified in Schedule A Figure 2 (Latitude 21.642937, Longitude 131.928231).
A18	The environmental authority holder must bury general waste using the following or similar measures: - locate the waste pit so as to ensure that the waste will not contaminate any watercourse, waterway, groundwater, wetland or lake; - divert stormwater runoff from entering the pit; - crush drums and other containers to reduce the volume of waste; - make the pit safe and protect it from scavengers; - backfill the pit when the level of rubbish in the pit is not less than 1m below the surface; and - sufficiently overfill the pit to allow for settlement.
A19	All regulated waste must be removed from the site to a facility that is lawfully able to accept the waste under the *Environmental Protection Act 1994*.
A20	Contaminants that will, or have the potential to cause environmental harm must not be released directly or indirectly to any waters as a result of the authorised mining activities, except as permitted under the conditions of this environmental authority.
A21	All regulated **dams** must be designed, operated, maintained and decommissioned in accordance with the most recent edition of the **administering authority's** guideline *Manual for Assessing Hazard Categories and Hydraulic Performance of Dams.*

A22	The **environmental authority** holder must develop and implement an environmental monitoring program sufficient to demonstrate compliance with the conditions of this **environmental authority** by **1 December 2020** or prior to commencement of reclamation of tailings activities (whichever comes first).
A23	The environmental monitoring program required by Condition A22 must include quarterly surface water monitoring of the open cut pit and reclaimed TSF footprint for the parameters listed in Table B2.
A24	Except where specified otherwise in another condition of this authority, all monitoring records or reports required by this **environmental authority** must be kept for a period of not less than five (5) years.
A25	The environmental authority holder must ensure analyses and tests required to be conducted under this **environmental authority** are carried out by an **appropriately qualified person** and analysed by a laboratory that has NATA accreditation for such analyses and tests, except as otherwise authorised by the **administering authority.**
A26	**Significant residual impacts** to prescribed environmental matters are not authorised under this environmental authority or the *Environmental Offsets Act 2014*.
A27	Records demonstrating that each impact to a **prescribed environmental matter** 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.
B1	The holder of the environmental authority must not directly or indirectly release fuels, oils, lubricants or other contaminants to land.
B2	The holder of the environmental authority must ensure that all chemical, fuel and oil storage facilities less than 10 000L on a mining tenement, must be designed and operated in accordance with Australian Standard 1940 – 'The storage and handling of flammable and combustible liquids', Section 2, Minor Storage.
B3	Contaminants must not be released directly or indirectly to any groundwater.
B4	Groundwater must be monitored: a) at the locations specified in **Table B1 - Groundwater monitoring locations and frequency**; and b) at the frequencies specified in **Table B1 - Groundwater monitoring locations and frequency**; and c) for the quality characteristics identified in **Table B2 - Groundwater contaminant limits** for the aquifer in which the bore is located.
B5	Groundwater measured from any monitoring bore specified in **Table B1 - Groundwater monitoring locations and frequency** must not exceed the corresponding Limit A specified in **Table B2 – Groundwater contaminant limits** on any five (5) consecutive sampling occasions as defined in **Table B1 - Groundwater monitoring locations and frequency.**
B6	Groundwater measured from any monitoring bore specified in **Table B1 - Groundwater monitoring locations and frequency** must not exceed the corresponding Limit B specified in **Table B2 – Groundwater quality limits** on any three consecutive sampling occasions.
Table B1	**Table B1 – Groundwater monitoring locations and frequency**

Monitoring	Location	Bore	Monitoring Frequency

Point	MGA54		Details		
	Easting	Northing	Surface RL (m)[1]	Standing Water Level	Groundwater Quality
THGW001	TBA[1] (see Schedule A - Figure 2)	TBA[1] (see Schedule A - Figure 2)	TBA[1]	Quarterly	Quarterly
THGW002	TBA[1] (see Schedule A - Figure 2)	TBA[1] (see Schedule A - Figure 2)	TBA[1]	Quarterly	Quarterly
THGW003	-21.64841841	139.9203194	TBA[1]	Quarterly	Quarterly
THGW004	-21.64085402	139.92961307	TBA[1]	Quarterly	Quarterly
THGW005	-21.65258985	139.92416338	TBA[1]	Quarterly	Quarterly
THGW006	-21.6464215	139.92722393	TBA[1]	Quarterly	Quarterly

Table B2

Table B2 – Groundwater contaminant limits

Parameter	Units	Contaminant Limit	
		Limit A	Limit B
Depth to groundwater	SWL m RL	TBA[1]	TBA[1]
pH	pH units	TBA[1]	TBA[1]
Electrical conductivity	µS/cm	TBA[1]	TBA[1]
Total dissolved solids	mg/L	TBA[1]	TBA[1]
Suspended solids	mg/L	TBA[1]	TBA[1]
Total Hardness (as $CaCo_3$)	mg/L	Interpretation purposes only	
Hydroxide alkalinity (as $CaCo_3$)	mg/L	Interpretation purposes only	
Bicarbonate alkalinity (as $CaCo_3$)	mg/L	Interpretation purposes only	
Total alkalinity (as $CaCo_3$)	mg/L	Interpretation purposes only	
Sulfate (as SO_4)	mg/L	TBA[1]	TBA[1]
Chloride	mg/L	Interpretation purposes only	
Sulfate to Chloride Ratio		Interpretation purposes only	
Calcium	mg/L	Interpretation purposes only	
Magnesium	mg/L	Interpretation purposes only	
Potassium	mg/L	Interpretation purposes only	
Sodium	mg/L	Interpretation purposes only	
Ionic balance		Interpretation purposes only	

	Aluminium	µg/L	TBA[1]	TBA[1]
	Antimony	µg/L	TBA[1]	TBA[1]
	Arsenic	µg/L	TBA[1]	TBA[1]
	Boron	µg/L	TBA[1]	TBA[1]
	Cadmium	µg/L	TBA[1]	TBA[1]
	Chromium	µg/L	TBA[1]	TBA[1]
	Cobalt	µg/L	TBA[1]	TBA[1]
	Copper	µg/L	TBA[1]	TBA[1]
	Lead	µg/L	TBA[1]	TBA[1]
	Manganese	µg/L	TBA[1]	TBA[1]
	Molybdenum	µg/L	TBA[1]	TBA[1]
	Nickel	µg/L	TBA[1]	TBA[1]
	Selenium	µg/L	TBA[1]	TBA[1]
	Zinc	µg/L	TBA[1]	TBA[1]
	Fluoride	mg/L	TBA[1]	TBA[1]
	Cyanide (Total)	mg/L	TBA[1]	TBA[1]
	Cyanide (Free)	mg/L	TBA[1]	TBA[1]
	Cyanide (WAD)	mg/L	TBA[1]	TBA[1]
	Ammonia	mg/L	TBA[1]	TBA[1]
	Total nitrogen	mg/L	TBA[1]	TBA[1]
	Nitrate	mg/L	TBA[1]	TBA[1]
	Nitrite	mg/L	TBA[1]	TBA[1]
B7	If groundwater measured from any bore specified in T**able B1 - Groundwater monitoring locations and frequency** exceeds the corresponding Limit specified in **Table B2 – Groundwater contaminant limits** on any one (1) sampling occasion the environmental authority holder must resample the groundwater within the compliance bore for all exceeding parameters within 10 business days of receipt of results.			
B8	Monitoring and sampling must be carried out in accordance with the requirements of the latest version of the following documents unless otherwise approved by the administering authority: a) for waters and aquatic environments, the Queensland Government's Monitoring and Sampling Manual 2009 – Environmental Protection (Water) Policy 2009; and 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; and c) for subterranean aquatic fauna, the Guideline for the Environmental Assessment of Subterranean Aquatic Fauna.			

<table>
<tr><td>B9</td><td>The consequence category of any structure, including existing structures, 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 – the Manual) at the following times:
a) prior to the commencement of the reclamation activities under condition A6; or
b) prior to any change in its purpose or the nature of its stored contents.</td></tr>
<tr><td>B10</td><td>The consequence category assessment completed under Condition B9 must be submitted to the administering authority at least 30 days (unless otherwise agreed to a shorter period) prior to the commencement of the activities that triggered the preparation of the consequence category assessment.</td></tr>
<tr><td>B11</td><td>All existing structures must comply with the timetable for any further assessments in accordance with Condition B9 and specified in Table B3 – Transitional hydraulic performance requirements for existing structures, depending on the consequence category for each existing structure assessed in the most recent previous certification for that structure.</td></tr>
<tr><td>B12</td><td>Table B3 ceases to apply for a structure once any of the following events has occurred:
a) it has been brought into compliance with the hydraulic performance criteria applicable to the structure under the Manual; or
b) it has been decommissioned; or
c) it has been certified as no longer being assessed as a regulated structure.</td></tr>
<tr><td>Table B3</td><td>Table B3 – Transitional hydraulic performance requirements for existing structures
Transition period required for existing structures to achieve the requirements of the Manual for Assessing Consequence Categories and Hydraulic Performance of Dams
<table>
<tr><td>Compliance with criteria</td><td>High consequence</td><td>Significant consequence</td><td>Low consequence</td></tr>
<tr><td>>90% and a history of good compliance performance in last 5 years</td><td>No transition required</td><td>No transition required</td><td>No transitional conditions apply.
Review consequence assessment every 7 years.</td></tr>
<tr><td>>70%-≤90%</td><td>Within 7 years, unless otherwise agreed with the administering authority, based on no history of unauthorised releases.</td><td>Within 10 years, unless otherwise agreed with the administering authority, based on no history of unauthorised releases.</td><td>No transitional conditions apply.
Review consequence assessment every 7 years.</td></tr>
</table></td></tr>
</table>

	>50-≤70%	Within 5 years unless otherwise agreed with the administering authority, based on no history of unauthorised releases.	Within 7 years unless otherwise agreed with the administering authority, based on no history of unauthorised releases.	Review consequence assessment every 7 years.
	≤50%	Within 5 years or as per compliance requirements (e.g. TEP timing)	Within 5 years or as per compliance requirements (e.g. TEP timing).	Review consequence assessment every 5 years.
	Regulated levee designed to prevent the ingress of clean flood water <100% compliant	Within 5 years unless otherwise agreed with the administering authority.		
B13	Certification of the transitional assessment required by condition B11 (as applicable) must be provided to the administering authority by 4 October 2022.			
C1	The holder of the environmental authority must not commence any activity involving the use, handling, storage, transport or processing of cyanide unless a Cyanide Management Plan has been prepared by an appropriately qualified person.			
C2	The environmental authority holder must implement and maintain the Cyanide Management Plan for the duration of the Carbon-in-Leach (CIL) processing activities authorised under Condition A6(d).			
C3	The Cyanide Management Plan required by Condition C1 must include documented procedures, performance measures and operational controls for: a) the transport of cyanide to the site; b) the storage of cyanide on site; c) the preparation, handling and use of cyanide-containing reagents; d) the destruction of cyanide from processed tailings; e) emergency response procedures for cyanide-related incidents; f) measures to prevent access to cyanide-contaminated water by wildlife; g) the prevention, containment, management and remediation of cyanide spills; h) the monitoring, inspection and maintenance of cyanide storage, handling and processing infrastructure; and i) the decommissioning and removal of cyanide-related infrastructure at the completion of CIL processing activities.			
C4	All Carbon-in-Leach (CIL) trial processing activities, equipment and associated infrastructure must be located wholly within the approved Tailings Storage Facility footprint identified in Schedule A.			
C5	By 1 April 2027, the holder of this environmental authority must submit an amendment application under the *Environmental Protection Act 1994* to amend **Table B2 – Groundwater Contaminant Limits** by replacing Contaminant Limit A and Contaminant Limit B identified as 'TBA' with			

	nominated values.
C6	By 1 April 2027, the holder of this environmental authority must submit an amendment application under the *Environmental Protection Act 1994* to amend **Table B1 – Groundwater Monitoring Locations and Frequency** by replacing groundwater monitoring locations and surface reduced levels (RLs) identified as 'TBA' with nominated values.

Definitions

Key terms and/or phrases used in this document are defined in this section. 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.

"administering authority" means the Department of Environment and Resource Management or its successor.

"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 relative to the subject matter using the relevant protocols, standards, methods or literature.

"care and maintenance" means a mining project where production has ceased (whether temporary or permanent) and the mining activity is limited to maintenance of mine infrastructure, rehabilitation and any other environmental management of significantly disturbed land.

"consecutive sampling occasions" means successive sampling events and includes resampling of groundwaters that is required under condition B7.

"contaminant" has the same meaning given in section 10 of the *Environmental Protection Act 1994*.

"dam" means a land-based structure or a void that is designed to contain, divert or control flowable substances, and includes any substances that are thereby contained, diverted or controlled by that land-based structure or void and associated works. However; a dam does *not* mean a fabricated or manufactured tank or container designed to a recognised standard, *nor* does a dam mean a land-based structure where that structure is designed to an Australian Standard. In case there is any doubt, a levee (dyke or bund) is a dam, but (for example) a bund designed for spill containment to AS1940 is *not* a dam.

"environmental authority" means an environmental authority granted in relation to an environmentally relevant activity under the *Environmental Protection Act 1994*.

"environmental harm" has the same meaning given in section 14 of the *Environmental Protection Act 1994*.

"environmental nuisance" has the same meaning given in section 15 of the *Environmental Protection Act 1994*.

"**existing structure**" means a structure that prior to the issue of this environmental authority 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 suspension.

"**gravity separation**" means mineral processing that excludes the use of any reagent such as cyanide and onsite heavy metal processing such as refining and smelting.

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

"hazard 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 "Manual for Assessing Hazard Categories and Hydraulic Performance of Dams", prepared by the Department of Environment and Resource Management, as amended from time to time.

'**prescribed environmental matters'** has the meaning in section 10 of *the Environmental Offsets Act 2014*, limited to the matters of State environmental significant listed in schedule 2 of the *Environmental Offsets Regulation 2014.*

"regulated dam" means any dam in the significant or high hazard category as assessed using the *Manual for Assessing Hazard Categories and Hydraulic Performance of Dams* published by the administering authority.

“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;

(b) groundwater; and

(c) an area that is not specified in Schedule A – Table 1 (Authorised Activities) of this environmental authority

“release” in relation to release of a contaminant to the receiving environment has the same meaning given in Schedule 4 of the *Environmental Protection Act 1994*.

‘**significant residual impact’** has meaning in section 8 of the *Environmental Offsets Act 2014.*

"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**.**

Schedule A – Tables and maps

Schedule A – Table 1 (Authorised Activities)

Mine Feature Name	Location (GDA94 Zone 54)		Maximum Disturbance Area (hectares)
	Easting	Northing	
Waste rock dump	389044	7606382	6.9
	389279	7606423	
	389290	7606376	
	389333	7606355	
	389247	7606163	
	388978	7606151	
Tailings dam (including decant ponds)	388396	7605918	10.89
	388606	7605918	
	388604	7605746	
	388660	7605685	
	388772	7605685	
	388779	7605470	
	388580	7605316	
	388371	7605437	
	388364	7605671	
	388394	7605704	
Tailings dam reclamation area (part of the 17.4 ha of Tailings Dam)	388595	7605627	6.51
	388761	7605632	
	388772	7605459	
	388592	7605352	
	388413	7605457	
	388411	7605539	
	388592	7605534	
Open Pit	388831	7606053	3
	388904	7606021	
	388920	7605964	
	388859	7605828	
	388808	7605807	
	388772	7605828	
	388744	7605869	
	388743	7605947	

Mine Feature Name	Location (GDA94 Zone 54)		Maximum Disturbance Area (hectares)
	Easting	Northing	
	388775	7606011	
Infrastructure (including processing plant area)	388826	7605717	6.66
	389012	7605723	
	389010	7605361	
	388818	7605356	
Borrow pit (part of infrastructure)	TBA	TBA	0.24
Access Tracks	Not applicable	Not Applicable	2.0

Mine Feature Name	Location (GDA94 Zone 54)		Maximum Disturbance Area (hectares)
	Easting	Northing	
Borrow pits	Not applicable	Not applicable	13.9
Exploration	Not applicable	Not applicable	Less than 1

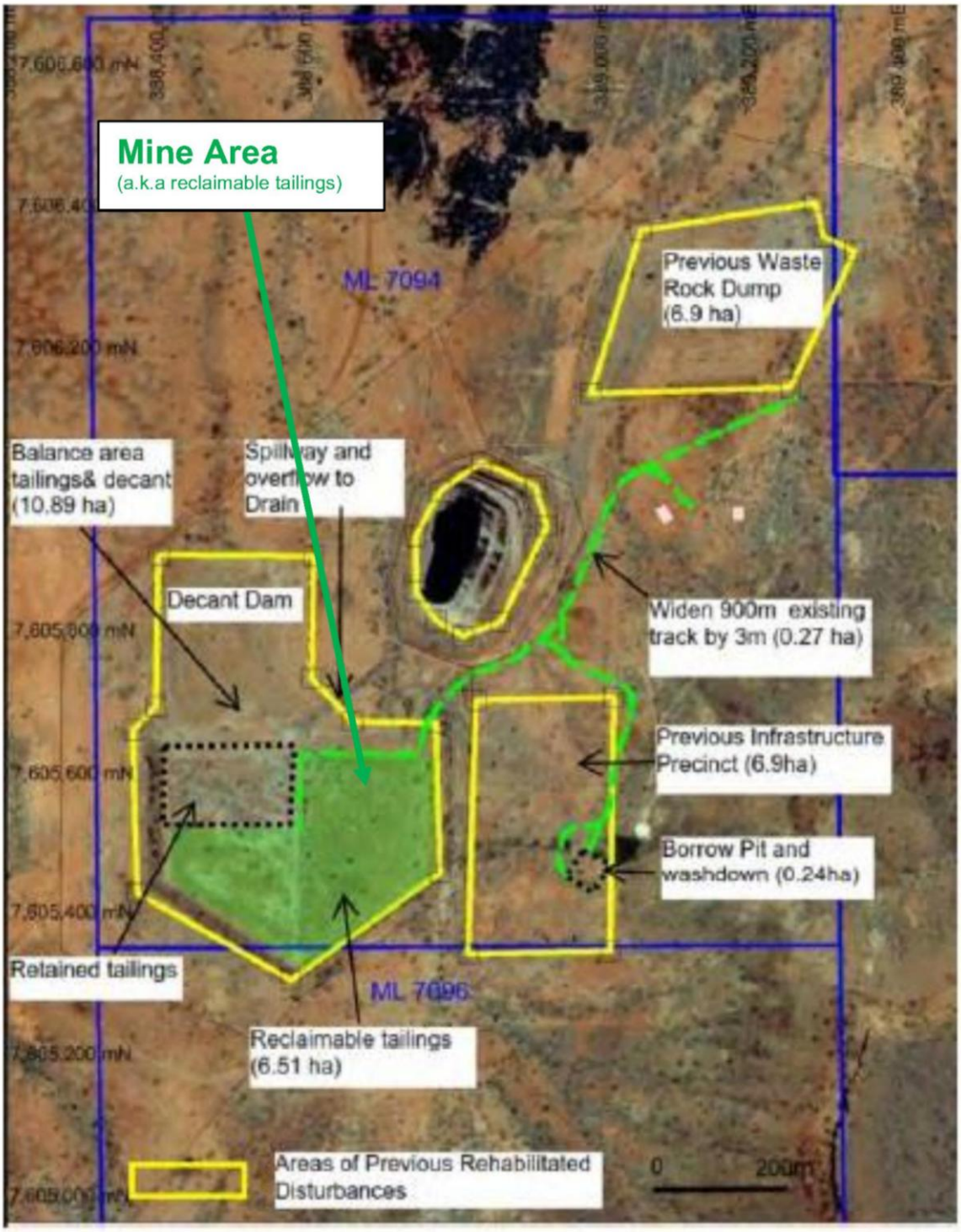


Figure 1a: Project Infrastructure Layout – Mine area

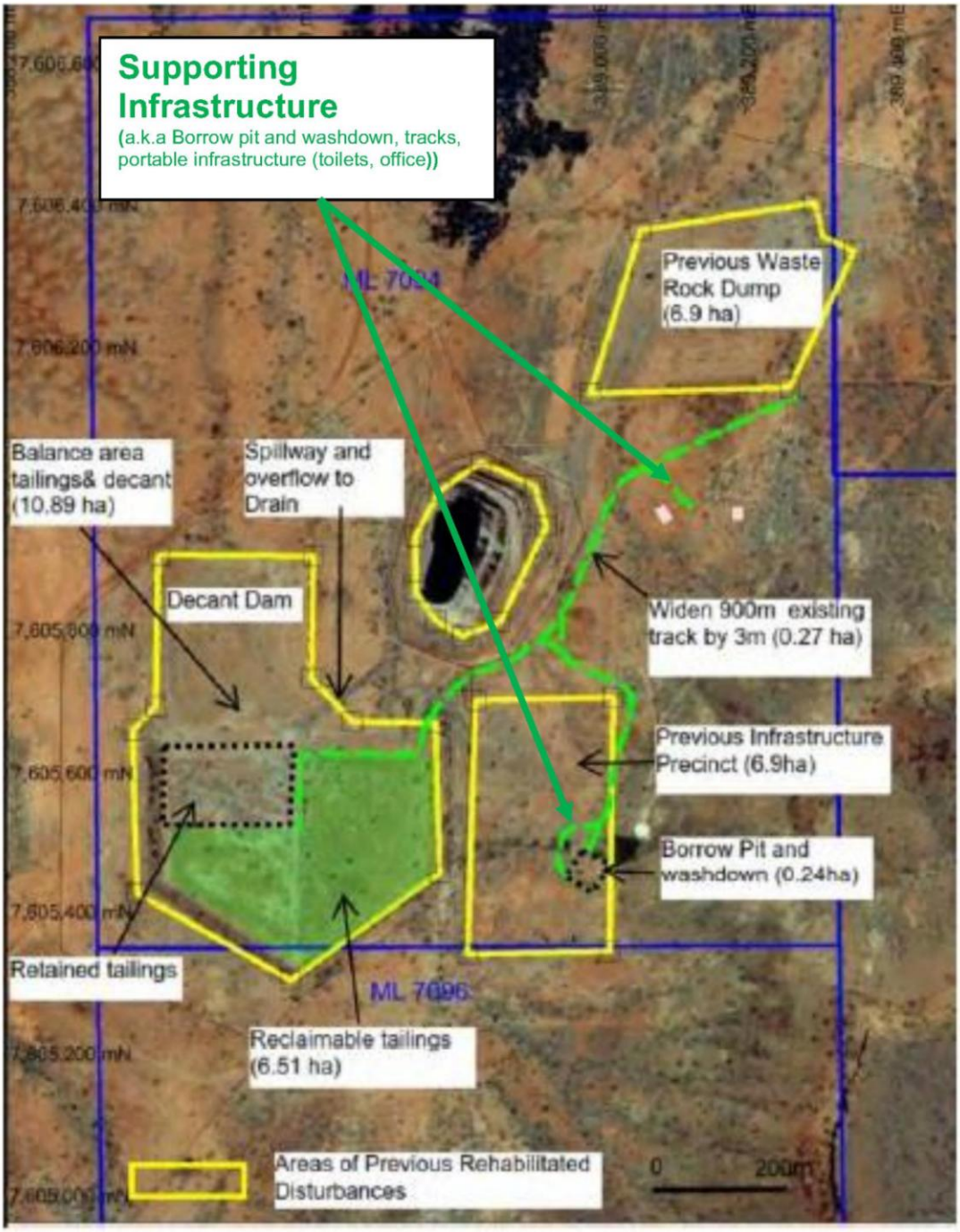


Figure 1b: Project Infrastructure Layout – Supporting Infrastructure

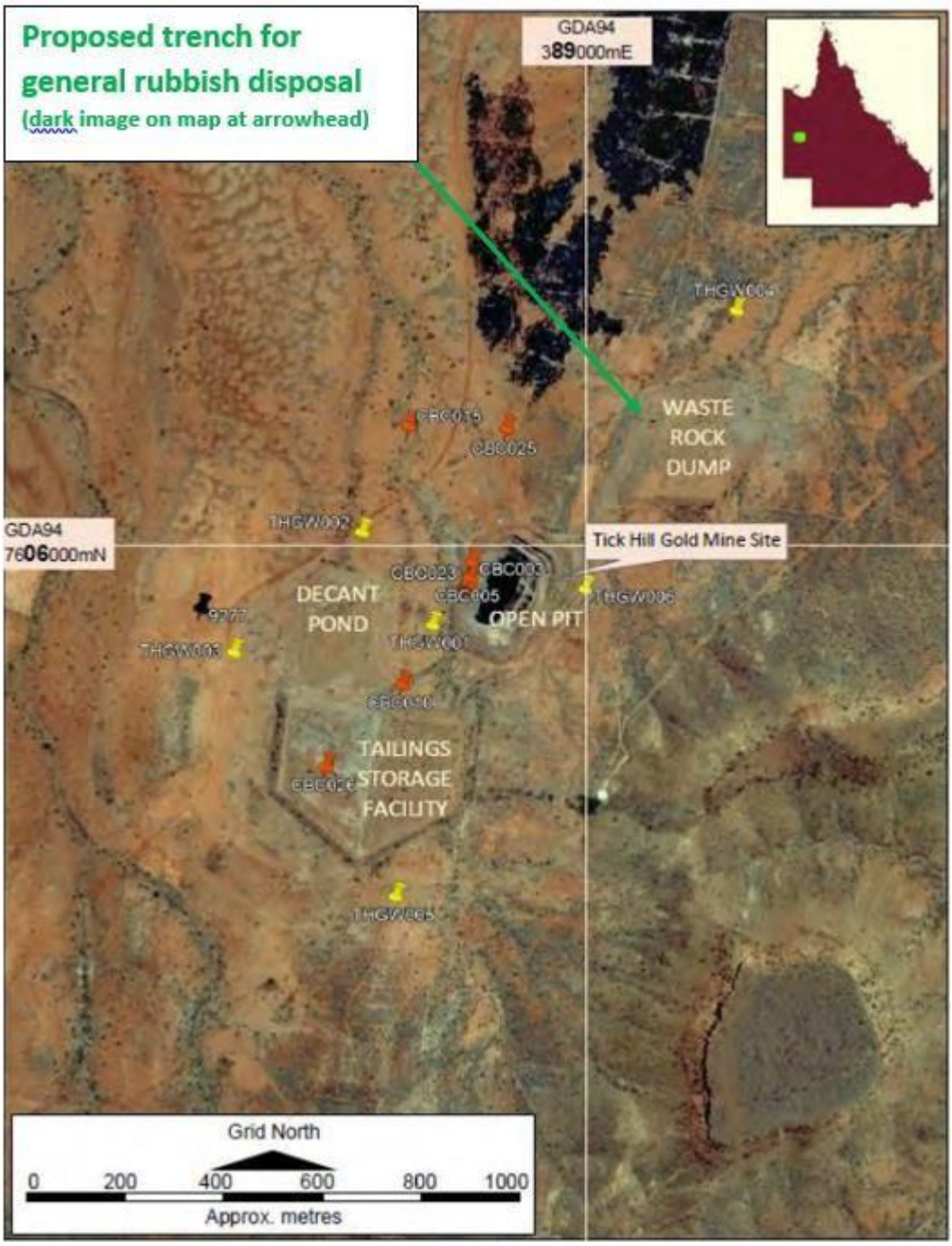


Figure 2: Groundwater monitoring locations (shown in yellow) and trench for waste disposal (green).

END OF ENVIRONMENTAL AUTHORITY