Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W6744/2022/1
Works approval holder	Process Minerals International Ltd.
ACN	063 988 894
Registered business address	20 Walters Drive, Osborne Park WA
DWER file number	DER2022/000534
Duration	09/01/2023 to 09/01/2028
Date of issue	09/01/2023
Premises details	Mount Marion Lithium Project Located on Mining Lease M15/717 in the Shire of Coolgardie

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed production / design capacity**
Category 54: Sewage facility: premises – (a) On which sewage is treated (excluding septic tanks); or (b) From which treated sewage is discharged onto land or into waters	170m^3 per day

This works approval is granted to the works approval holder, subject to the attached conditions, on 9 January 2023, by:

Abbie Crawford

Digitally signed by Abbie Crawford
Date: 2023.01.09 13:37:21 +08'00'

Abbie Crawford
A/MANAGER, WASTE INDUSTRIES

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Works approval history

Date	Reference number	Summary of changes
09/01/2023	W6744/2022/1	Works approval granted.

Interpretation

In this works approval:

(a) the words ‘including’, ‘includes’ and ‘include’ in conditions mean “including but not limited to”, and similar, as appropriate;

(b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;

(c) where tables are used in a condition, each row in a table constitutes a separate condition;

(d) any reference to an Australian or other standard, guideline, or code of practice in this works approval:

(i) if dated, refers to that particular version; and

(ii) if not dated, refers to the latest version and therefore may be subject to change over time;

(e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and

(f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This works approval requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this works approval.

Works approval conditions

The works approval holder must ensure that the following conditions are complied with:

Construction phase

Infrastructure and equipment

1. The works approval holder must:

(a) construct and/or install the infrastructure and/or equipment;

(b) in accordance with the corresponding design and construction / installation requirements; and

(c) at the corresponding infrastructure location; and

as set out in Table 1.

Table 1: Design and construction / installation requirements

	Infrastructure	Design and construction / installation requirements	Infrastructure location
Stage 2 Expansion of WWTP (increase design capacity to 120m^3/day)			
1.	Wastewater Treatment Plant (WWTP) comprising a Sequence Batch Reactor (SBR)	The sewage treatment system must be designed and constructed to meet the following specifications: a) Be able to receive and treat a sewage inflow of up to 50 m^3/day; b) Must comprise of the following equipment: i. SBR tank with heavy duty submersible aerators and floating decant weir; ii. Chlorine dosing system; iii. Sodium hypochlorite dosing system; iv. Poly aluminium chloride dosing system; v. 50, 000 L sludge tank storage; and vi. 50, 000 L Balance Tank c) Must be able to treat sewage to the following output emission standards: i. Biochemical Oxygen Demand <30 mg/L ii. Total Suspended Solids <40 mg/L iii. pH 6.5 to 8.5; iv. Total Nitrogen <50 mg/L	Schedule 1: Maps; Figure 2

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		v. Total Phosphorus <12mg/L vi. E.Coli <1000 CFU/100 mL; and d) Final treated effluent storage tank capable of storing at least three days worth of treated wastewater e) Have a sealed connection point for pumping-out tank sludge for off site disposal to a licensed waste facility; f) Incorporate an alarm system, as well as audible and visual pump fault alarms, which will activate in the event of; i. Pump faults; ii. System faults; iii. High tank levels; and iv. Overflows. g) All tanks to be sealed; h) Allow for manual operation if necessary; and i) All above-ground infrastructure is to be located within a bunded area of compacted earth to contain any leaks or spills that may arise.	
2.	Irrigation field	The irrigation field must be designed and constructed so as to meet the following specifications; a) Above ground sprinklers installed; b) Total irrigation area not less than 4.6 ha in size; c) Maintain a 5 m spray drift buffer from the edge of the sprinkler radius; d) An earthen containment bund to be constructed and maintained to prevent any wastewater travelling outside the spray field boundary; and e) Fauna proof fencing erected around the perimeter of the spray fields.	Schedule 1: Maps; Figure 2
3.	All	a) All sewage storage and treatment tanks, vessels, transfer pipelines and conveyance infrastructure must be impermeable, free of leaks and defects; b) All sewage conveyance, storage and treatment infrastructure must be designed and constructed to ensure that stormwater does not enter the sewage and treated wastewater system or	

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		storage infrastructure; and c) Chlorine must be stored in a designated area in above ground vessels located in a bunded area with a holding capacity of 110% of the total vessel/s contents.	
Stage 3 Expansion of WWTP (increase design capacity to 170m^3/day)			
4.	WWTP comprising a Sequence Branch Reactor	The additional new sewage treatment system must be designed and constructed to meet the following specifications: a) Be able to receive and treat a sewage inflow of up to 50 m^3/day; b) Must comprise of the following equipment: i. SBR tank with heavy duty submersible aerators and floating decant weir; ii. Irrigation tank; iii. Chlorine dosing system; iv. Sodium hypochlorite dosing system; v. Poly aluminium chloride dosing system; vi. 50,000 L sludge storage tank; vii. 50 kl PE buffer/balance tank; viii. Grundfos Sucrose Dosing; and ix. pH and chlorine sensors x. pumping unit which restricts inflow to 50 m^3/day. c) must be able to treat sewage to the following output emission standards: i. Biochemical Oxygen Demand <20 mg/L ii. Total Suspended Soilds <30 mg/L iii. pH 6.5 to 8.5; iv. Total Nitrogen <50 mg/L v. Total Phosphorus <12mg/L vi. E.Coli <1000 CFU/100 mL; and vii. Residual free chlorine 0.2 mg/L to 2.0 mg/L d) Final treated effluent storage tank capable of storing up to three days worth	Schedule 1: Maps; Figure 2

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		of treated wastewater e) Have a sealed connection point for pumping-out tank sludge for off site disposal to a licensed waste facility; f) Incorporate an alarm system, as well as audible and visual pump fault alarms, which will activate in the event of; i. Pump faults; ii. System faults; iii. High tank levels; and iv. Overflows. g) All tanks to be sealed; h) Allow for manual operation if necessary; and i) All above-ground infrastructure is to be located on an impervious bunded hardstand	
5.	Irrigation field	The irrigation field must be designed and constructed so as to meet the following specifications; a) Above ground sprinklers installed; b) Total irrigation area not less than 6.17 ha in size; c) Maintain a 5 m spray drift buffer from the edge of the sprinkler radius; d) An earthen containment bund to be constructed and maintained to prevent any wastewater travelling outside the spray field boundary; and e) Fauna proof fencing erected around the perimeter of the spray fields.	Schedule 1: Maps; Figure 2
6.	All	a) All sewage storage and treatment tanks, vessels, transfer pipelines and conveyance infrastructure must be impermeable, free of leaks and defects; b) All sewage conveyance, storage and treatment infrastructure must be designed and constructed to ensue that stormwater does not enter the sewage and treated wastewater system or storage infrastructure; c) Chlorine must be stored in a designated area in above ground vessels located in a bunded area with a holding capacity of 110% of the total vessel/s contents.	

Compliance reporting

2. The works approval holder must within 30 calendar days of an item of infrastructure or equipment required by condition 1 for Stage 2 being constructed and/or installed:

(a) undertake an audit of their compliance with the requirements of condition 1; and

(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

3. The works approval holder must within 30 calendar days of an item of infrastructure or equipment required by condition 1 for Stage 3 being constructed and/or installed:

(a) undertake an audit of their compliance with the requirements of condition 1; and

(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

4. The Environmental Compliance Report required by conditions 2 and 3, must include as a minimum the following:

(a) certification by a suitably qualified civil engineer that the items of infrastructure or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;

(b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and

(c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Environmental commissioning phase

Environmental commissioning requirements and emission limits

5. The works approval holder may only commence environmental commissioning of an item of infrastructure listed in condition 6 once the Environmental Compliance Report has been submitted for that item of infrastructure in accordance with condition 2 or condition 3 of this works approval.

6. Any environmental commissioning activities undertaken for an item of infrastructure specified in Table 2 may only be carried out:

(a) in accordance with the corresponding commissioning requirements; and

(b) for the corresponding authorised commissioning duration.

Table 2: Environmental commissioning requirements

	Infrastructure	Commissioning requirements	Authorised commissioning duration
Stage 2 Expansion of WWTP			
1.	WWTP comprising a Sequence Batch Reactor	a) Volumetric flow metres are maintained on the WWTP outlet to the irrigation field; b) Sludge is contained within sealed sludge tanks prior to removal by a licensed waste carrier for disposal to a licensed disposal facility; and c) Spills of wastewater and chemicals that are outside of a vessel/container are	For a period not exceeding 60 calendar days

	Infrastructure	Commissioning requirements	Authorised commissioning duration
		cleaned up immediately.	
2.	Irrigation field	a) Not more than 120 m^3 per day of treated effluent to be applied to the designated irrigation area; b) An earthen containment bund is to be maintained to prevent any wastewater travelling outside the spray field boundary; c) Irrigation is managed to prevent ponding and pooling of effluent on the ground surface of the irrigation spray field; and d) No treated effluent is permitted to be discharged outside of the irrigation area identified in Schedule 1.	
Stage 3 Expansion of WWTP			
3.	WWTP comprising a Sequence Batch Reactor	a) Volumetric flow metres are maintained on the WWTP outlet to the irrigation field; b) Sludge is contained within sealed sludge tanks prior to removal by a licensed waste carrier for disposal to a licensed disposal facility; and c) Spills of wastewater and chemicals that are outside of a vessel/container are cleaned up immediately.	For a period not exceeding 60 calendar days
4.	Irrigation field	a) Not more than 170 m^3 per day of treated effluent to be applied to the designated irrigation area; b) An earthen containment bund is to be maintained to prevent any wastewater travelling outside the spray field boundary; c) Irrigation is managed to prevent ponding and pooling of effluent on the ground surface of the irrigation spray field; and d) No treated effluent is permitted to be discharged outside of the irrigation area identified in Schedule 1.	

7. During environmental commissioning, the works approval holder must ensure that the emission(s) specified in Table 3, are discharged only from the corresponding discharge point(s) and only at the corresponding discharge point location(s).

Table 3: Environmental commissioning requirements (for both Stages 2 and 3)

Emission	Discharge point	Discharge point location
Treated effluent	Sprinklers within the irrigation field	Irrigation field as shown in Schedule 1: Maps; Figure 2

Monitoring during environmental commissioning

8. The works approval holder must monitor emissions during environmental commissioning in accordance with Table 4.

Table 4: Emissions and discharge monitoring during environmental commissioning

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit	Method
Stage 2 Expansion of WWTP						
Irrigation field	Flow meter	Volume	Continuous	Cumulative daily	kL/day	N/A
	Treated effluent tank outlet	*E.Coli*	Weekly	Spot sample	cfu/100mL	AS/NZS 5667.10
		Biochemical Oxygen Demand			mg/L	
		Total Suspended Solids				
		Total Nitrogen				
		Total Phosphorus				
		pH[1]	Continuous	N/A	pH units	
Stage 3 Expansion of WWTP						
Irrigation field	Flow meter	Volume	Continuous	Cumulative daily	kL/day	N/A
	Treated effluent tank outlet	*E.Coli*	Weekly	Spot sample	cfu/100mL	AS/NZS 5667.10
		Biochemical Oxygen Demand			mg/L	
		Total				

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit	Method
		Suspended Solids				
		Total Nitrogen				
		Total Phosphorus				
		Free Chlorine[1]	Continuous	N/A		
		pH[1]		N/A	pH units	

Note 1 – non- NATA *in situ* testing permitted

9. All sample analysis must be undertaken by laboratories with current accreditation from the National Association of Testing Authorities (NATA) for relevant parameters, unless otherwise specified in Table 4.

10. The works approval holder must record the results of all monitoring activity required by condition 8.

Environmental commissioning report

11. The works approval holder must submit to the CEO an Environmental Commissioning Report within 30 calendar days of the completion date of the environmental commissioning for each item of infrastructure specified in Table 2 for Stage 2.

12. The works approval holder must submit to the CEO an Environmental Commissioning Report within 30 calendar days of the completion date of the environmental commissioning for each item of infrastructure specified in Table 2 for Stage 3.

13. The works approval holder must ensure the Environmental Commissioning Report required by condition 11 and condition 12 of this works approval includes the following:

(a) a summary of the environmental commissioning activities undertaken, including timeframes and amount of wastewater processed;

(b) a summary of the treated effluent monitoring results recorded in accordance with condition 8 for the applicable WWTP expansion stage;

(c) copies of laboratory reports for treated effluent monitoring results recorded in accordance with condition 8 for the applicable WWTP expansion stage;

(d) a summary of the environmental performance of each item of infrastructure or equipment as installed, which at a minimum includes records detailing:

i. a comparison of the treated effluent monitoring results against discharge limits for the applicable WWTP expansion stage specified in condition 18; and

ii. assessment of irrigation field performance against operational requirements for the applicable WWTP expansion stage in condition 6.

(e) a review of the works approval holder's performance and compliance against the conditions of this works approval; and

(f) where they have not been met, measures proposed to meet the manufacturer's design specifications and the conditions of this works approval, together with timeframes for implementing the proposed measures.

Time limited operations phase

Commencement and duration

14. The works approval holder may only commence time limited operations for an item of infrastructure identified in condition 16 where the Environmental Commissioning Report for that item of infrastructure as required by condition 11 or condition 12 has been submitted by the works approval holder.

15. The works approval holder may conduct time limited operations for an item of infrastructure specified in condition 16 (as applicable):

(a) for a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 14 for that item of infrastructure; or

(b) until such time as a licence for that item of infrastructure is granted in accordance with Part V of the *Environmental Protection Act 1986*, if one is granted before the end of the period specified in condition 15(a).

Time limited operations requirements and emission limits

16. During time limited operations, the works approval holder must ensure that the premises infrastructure and equipment listed in Table 5 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 5.

Table 5: Infrastructure and equipment requirements during time limited operations

	Infrastructure	Operational requirements	Authorised commissioning duration
Stage 2 Expansion of WWTP			
1.	WWTP comprising a Sequence Batch Reactor	a) Volumetric flow metres are maintained on the WWTP outlet to the irrigation field; b) Sludge is contained within sealed sludge tanks prior to removal by a licensed waste carrier for disposal to a licensed disposal facility; and c) Spills of wastewater and chemicals that are outside of a vessel/container are cleaned up immediately.	For a period not exceeding 180 calendar days
2.	Irrigation field	a) Not more than 120 m^3 per day of treated effluent to be applied to the designated irrigation area; b) An earthen containment bund is to be maintained to prevent any wastewater travelling outside the spray field boundary; c) Irrigation is managed to prevent ponding and pooling of effluent on the ground	

	Infrastructure	Operational requirements	Authorised commissioning duration
		surface of the irrigation spray field; and d) No treated effluent is permitted to be discharged outside of the irrigation area identified in Schedule 1.	
Stage 3 Expansion of WWTP			
3.	WWTP comprising a Sequence Batch Reactor	a) Volumetric flow metres are maintained on the WWTP outlet to the irrigation field; b) Sludge is contained within sealed sludge tanks prior to removal by a licensed waste carrier for disposal to a licensed disposal facility; and c) Spills of wastewater and chemicals that are outside of a vessel/container are cleaned up immediately.	For a period not exceeding 180 calendar days
4.	Irrigation field	a) Not more than 170 m^3 per day of treated effluent to be applied to the designated irrigation area; b) An earthen containment bund is to be maintained to prevent any wastewater travelling outside the spray field boundary; c) Irrigation is managed to prevent ponding and pooling of effluent on the ground surface of the irrigation spray field; and d) No treated effluent is permitted to be discharged outside of the irrigation area identified in Schedule 1.	

17. During time limited operations, the works approval holder must ensure that the emission(s) specified in Table 6, are discharged only from the corresponding discharge point(s) and only at the corresponding discharge point location(s).

Table 6: Authorised discharge points (for both Stages 2 and 3)

Emission	Discharge point	Discharge point location
Treated effluent	Sprinklers within the irrigation field	Irrigation field as shown in Schedule 1: Maps; Figure 2

18. During the time limited operations, the works approval holder must ensure that the emissions from the discharge point listed in Table 7 do not exceed the corresponding limit(s) for the applicable WWTP expansion stage when monitored in accordance with condition 19.

Table 7: Emission and discharge limits during time limited operations

Discharge point	Parameter	Limit
Stage 2 Expansion of WWTP		
Irrigation field	Biochemical oxygen demand (BOD)	30 mg/L
	Total Suspended Solids (TSS)	40 mg/L
	pH	6.5 – 8.5
	Total Nitrogen (TN)	50 mg/L
	Total Phosphorus (TP)	12 mg/L
	E.Coli	1000 cfu/100 ml
Stage 3 Expansion of WWTP		
Irrigation field	Biochemical oxygen demand (BOD)	20 mg/L
	Total Suspended Solids (TSS)	30 mg/L
	pH	6.5 – 8.5
	Total Nitrogen (TN)	50 mg/L
	Total Phosphorus (TP)	12 mg/L
	E.Coli	1000 cfu/100 ml
	Free chlorine	0.2mg/L – 2.0mg/L

Monitoring during time limited operations

19. The works approval holder must monitor emissions during time limited operations in accordance with Table 8.

Table 8: Emissions and discharge monitoring during time limited operations

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit	Method
Stage 2 Expansion of WWTP						
Irrigation field	Flow meter	Volume	Volume	Cumulative daily	kL/day	N/A
	Treated effluent tank outlet	*E.Coli*	Weekly	Spot sample	cfu/100mL	AS/NZS 5667.10
		Biochemical Oxygen Demand			mg/L	
		Total Suspended				

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit	Method
		Solids				
		Total Nitrogen				
		Total Phosphorus				
		pH[1]	Continuous	N/A	pH units	
Stage 3 Expansion of WWTP						
Irrigation field	Flow meter	Volume	Continuous	Cumulative daily	kL/day	N/A
	Treated effluent tank outlet	*E.Coli*	Weekly	Spot sample	cfu/100mL	AS/NZS 5667.10
		Biochemical Oxygen Demand			mg/L	
		Total Suspended Solids				
		Total Nitrogen				
		Total Phosphorus				
		Free Chlorine[1]	Continuous	N/A		
		pH[1]		N/A	pH units	

Note 1 – non- NATA *in situ* testing permitted

20. All sample analysis must be undertaken by laboratories with current accreditation from the National Association of Testing Authorities (NATA) for relevant parameters, unless otherwise specified in Table 8.

21. The works approval holder must record the results of all monitoring activity required by condition 19.

Compliance reporting

22. The works approval holder must submit to the CEO a report on the time limited operations within 30 calendar days of the completion date of time limited operations for Stage 2.

23. The works approval holder must submit to the CEO a report on the time limited operations within 30 calendar days of the completion date of time limited operations for Stage 3 or within 30 calendar days before the expiration date of the works approval, whichever is the sooner.

24. The works approval holder must ensure the report required by condition 22 and condition 23 includes the following:

(a) a summary of the time limited operations, including timeframes and amount of wastewater processed;

(b) a summary of monitoring parameter results obtained during time limited operations under condition 19.

(c) copies of laboratory reports for treated effluent monitoring results recorded in accordance with condition 19.

(d) a summary of the environmental performance of each item of infrastructure or equipment as installed, which at a minimum includes records detailing the:

i. comparison of the treated effluent monitoring results against discharge limits specified in condition 18 for the applicable WWTP expansion stage; and

ii. assessment of the irrigation field performance against operational requirements in condition 16 for the applicable WWTP expansion stage.

(e) a review of the works approval holder's performance and compliance against the conditions of this works approval; and

(f) where they have not been met, measures proposed to meet the manufacturer's design specification and the conditions of this works approval, together with timeframes for implementing the proposed measures.

Records and reporting (general)

25. The works approval holder must record the following information in relation to complaints received by the works approval holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

(a) the name and contact details of the complainant, (if provided);

(b) the time and date of the complaint;

(c) the complete details of the complaint and any other concerns or other issues raised; and

(d) the complete details and dates of any action taken by the works approval holder to investigate or respond to any complaint.

26. The works approval holder must maintain accurate and auditable books including the following records, information, reports, and data required by this works approval:

(a) the works conducted in accordance with condition 1;

(b) commissioning conducted in accordance with condition 6;

(c) time limited operations conducted in accordance with condition 16;

(d) any maintenance of infrastructure that is performed in the course of complying with conditions 6 and 16;

(e) monitoring programmes undertaken in accordance with conditions 8 and 19; and

(f) complaints received under condition 25.

27. The books specified under condition 26 must:

(a) be legible;

(b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;

(c) be retained by the works approval holder for the duration of the works approval; and

(d) be available to be produced to an inspector or the CEO as required.

Definitions

In this works approval, the terms in 9 have the meanings defined.

Table 9: Definitions

Term	Definition
annual period	a 12 month period commencing from 1 January until 31 December of the immediately following year.
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
Department	means the department established under section 35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Part V Division 3 of the EP Act.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
environmental commissioning	means the sequence of activities to be undertaken to test equipment integrity and operation, or to determine the environmental performance, of equipment and infrastructure to establish or test a steady state operation and confirm design specifications.
Environmental Commissioning Report	means a report on any commissioning activities that have taken place and a demonstration that they have concluded, with focus on emissions and discharges, waste containment, and other environmental factors.
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and/or equipment has been constructed and/or installed in accordance with the works approval.
EP Act	*Environmental Protection Act 1986* (WA).
EP Regulations	*Environmental Protection Regulations 1987* (WA).
premises	the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1) in Schedule 1 to this works approval.

Term	Definition
prescribed premises	has the same meaning given to that term under the EP Act.
Suitably qualified civil engineer	Means a person who: (a) holds a Bachelor of Engineering degree recognised by Engineers Australia; and (b) has a minimum of five years of experience working in a supervisory role in civil or structural engineering; and (c) is employed by an independent third party external to the Works Approval Holder's business; or is otherwise approved in writing by the CEO to act in this capacity.
time limited operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
waste	has the same meaning given to that term under the EP Act.
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions.
works approval holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below (Figure 1).

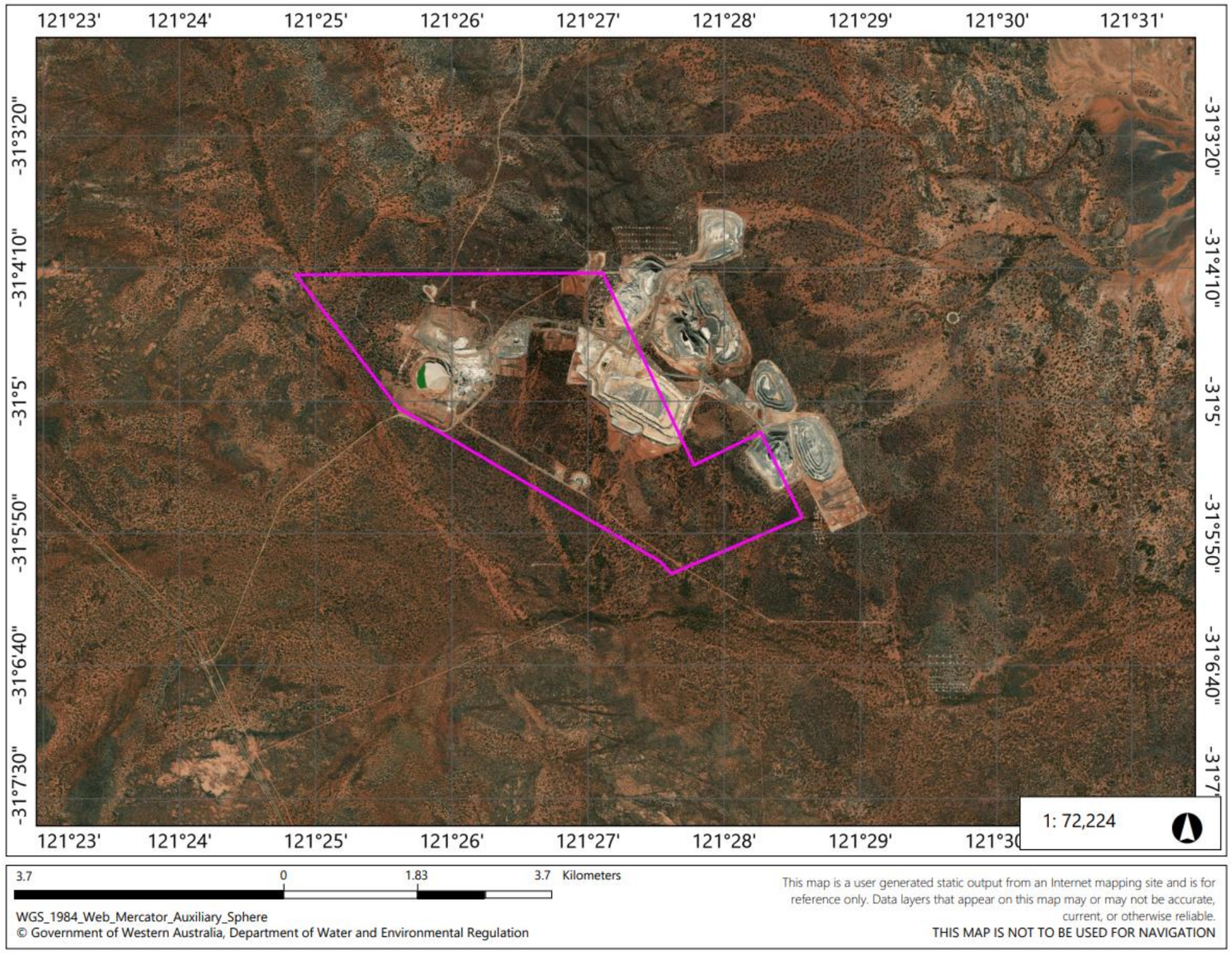

Figure 1: Map of the boundary of the prescribed premises (shown in pink)

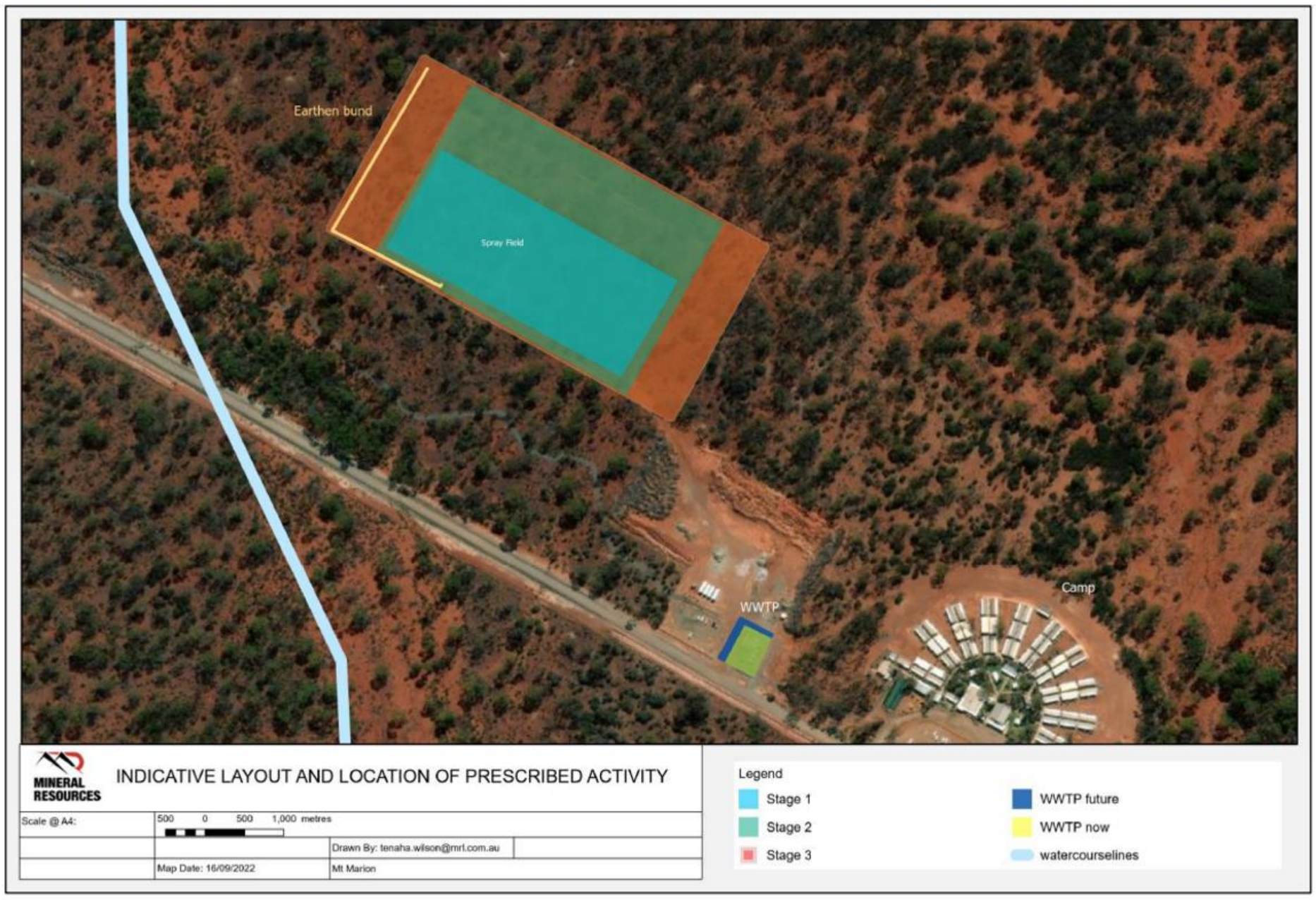

Figure 2: Layout and location of wastewater treatment plant and irrigation area