Licence number L9037/2017/1

Licence holder Mt Marion Lithium Management Pty Ltd

ACN 666 116 365

Registered business address 20 Walters Drive

OSBORNE PARK WA 6017

DWER file number DER2017/000308-1

Duration 27/06/2017 to 26/06/2035

Date of issue 27/06/2017 **Date of amendment** 28/08/2024

Premises details Mount Marion Lithium Project

Shire of Coolgardie

Mining tenement M15/1000, M15/717 and on private land known as Hamptons Lease Area 53, portion of Lot 105 on Deposited

Plan 40396, Volume 2668 Folio 420.

| Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>) | Assessed production capacity |
|----------------------------------------------------------------------------------------------------------|------------------------------|
| Category 5: Processing or beneficiation of metallic and non-metallic ore | 5,000,000 tonnes per year |
| Category 6: Mine dewatering | 650,000 tonnes per year |
| Category 12: Screening etc. of material | 200,000 tonnes per year |
| Category 54: Sewage facility, 100 m³ or more per day | 170 m³/day |
| Category 57: Used tyre storage (general) | 1,000 tyres |
| Category 64: Class II putrescible landfill | 2,000 tonnes per annum |
| Category 73: Bulk storage of chemicals etc. | 480 kL LNG |
| | 884 kL Diesel |
| Category 85B: Water desalination plant | 0.73 gigalitres per year |

This amended licence is granted to the licence holder, subject to the attached conditions, on 28 August 2024, by:

MANAGER, RESOURCE INDUSTRIES

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

Licence history

| Date | Reference number | Summary of changes |
|------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27/06/2017 | L9037/2017/1 | Licence granted. |
| 16/12/2017 | L9037/2017/1 | Amendment Notice 1 - Amendment to allow 2.1 Mtpa of coarse reject (tailings) material to be disposed to: western verge of Ghost Crab Pit northern ramp of Ghost Crab Pit Backloaded to existing waste rock landforms on M15/1000 and co-mingled with existing waste from mining operations. |
| 31/05/2019 | L9037/2017/1 | Amendment Notice 2 - Throughputs increased to: Category 5 - 3.0 Mtpa using upgraded spodumene processing plant Category 64 - 1250 tpa (operation of additional landfill in waste rock dump) Category 73 - 480 kL LNG Category 85 - 70 m³/day (construction and operation of an additional WWTP and doubling of spray field) |
| 19/09/2019 | L9037/2017/1 | Use of approximately 10,000 tonnes / annual period of coarse rejects (coarse fraction of the tailings stream) for construction purposes. Discharge approximately 35,040 tonnes per year of oleic acid sludge material (from the Dissolved Air Flotation (DAF) process) sludge to the Ghost Crab Pit TSF; Addition of Category 85B to allow disposal of 0.73 GL per annum of RO (reverse osmosis) brine into the Mt Marion pits (N1, N2 and C1), this involves construction of discharge pipelines from the RO Plant and turkey's nests to the discharge pits. Addition of Category 6 to allow for disposal of 0.65 GL of dewater from the North (N1 & N2) and Central pits (C1) into adjacent pits or to containment structures (turkeys nests) onsite; This involves the construction of discharge pipelines from the North and Central Pits to other Mt Marion pits and/or turkeys nests. Use of dewater / RO Brine water for dust suppression onsite not allowed Consolidation of Amendment Notices 1 and 2 into the amended licence. |
| 5/07/2022 | L9037/2017/1 | Amendment to allow: Change in Prescribed Premise boundary (inclusion of Hamptons Lease area). Change in Category 6: Dewatering location (to include the Hamptons Lease area) |

| | | Change to the Category 64: Class II putrescible landfill – throughput increased to 2,000 tonnes and footprint increased to include entire waste rock landform. Addition of Category 12: Screening of material – throughput of 100,000 tpa. Change to Category 85: Sewage facility and WWTP capacity: replacement of the two WWTP with 1 new WWTP, throughput of 70 m³/day. Another new WWTP to be constructed in parallel with the 70m³/day plant to increase throughput to 90 m³/day. Change in Table 9: Infrastructure and Equipment description: |
|------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Process Plant: removal of specific conveyor numbers and inclusion of further crushing and screening infrastructure to allow plant to reach current throughput of 3.0 Mtpa, and |
| | | Category 73 infrastructure updated to reflect current infrastructure on premises. |
| | | Removal of completed conditions. |
| | | Amendment to: |
| | | Increase throughput of categories 5 (to 5 Mtpa), 12 (to 200,000 tpa) and 73 (diesel to 884 kL). |
| 19/12/2023 | L9037/2017/1 | Removal of infrastructure already constructed from infrastructure design and construction requirements table. |
| | | Addition of annual environmental reporting condition. |
| | | Restructure licence conditions to latest licence format. |
| | | Amendment to: |
| | | Change Licence Holder name and ACN. |
| | | Add additional tailings discharge points (spigots) to the existing Ghost Crab In-Pit Tailings Storage Facility |
| 28/08/2024 | L9037/2017/1 | Transfer Wastewater Treatment Plant (WWTP) Stage two and three from works approval W6744/2022/1 to this licence. |
| | | Amend the existing Category 85 to Category 54 with a maximum capacity of 170 m³/ day. |
| | | Administrative change of typographical error, increasing diesel storage capacity from 854 kL to 884 kL. |

Definitions

In this licence, the terms in Table 1 have the meanings defined.

Table 1: Definitions

| Term | Definition | |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ACN | Australian Company Number | |
| Amendment Notice | means an amendment granted under s.59 of the EP Act in accordance with the procedure set out in s.59B of the EP Act. | |
| Annual Period | means a 12-month period commencing from 1 January until 31 December. | |
| Approved Policy | has the same meaning given to that term under the EP Act. | |
| AS/NZS 5667.1 | means the Australian Standard AS/NZS 5667.1 Water Quality – Sampling – Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples. | |
| AS/NZS 5667.10 | means the Australian Standard AS/NZS 5667.11 Water Quality – Sampling – Guidance on the sampling of waste waters. | |
| AS/NZS 5667.11 | means the Australian Standard AS/NZS 5667.11 Water Quality – Sampling – Guidance on the sampling of groundwaters. | |
| BOD | Biochemical Oxygen Demand | |
| 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 | |
| Compliance Report | means a report in a format approved by the CEO as presented by the Licence Holder or as specified by the CEO (guidelines and templates may be available on the Department's website). | |
| Condition | means a condition to which this Licence is subject under s.62 of the EP Act. | |
| Department | means the department established under s.35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act. | |
| Department Request | means a request for Books or other sources of information to be produced, made by an Inspector or the CEO to the Licence Holder in writing and sent to the Licence Holder's address for notifications, as described at the front of this Licence, in relation to: | |

| | () | |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | (a) compliance with the EP Act or this Licence; | |
| | (b) the Books or other sources of information maintained in accordance with this Licence; or | |
| | (c) the Books or other sources of information relating to Emissions from the Premises. | |
| Discharge | has the same meaning given to that term under the EP Act. | |
| DMIRS | Department of Mines, Industry Regulation and Safety. | |
| DWER | Department of Water and Environmental Regulation. | |
| Emission | has the same meaning given to that term under the EP Act. | |
| Environmental Harm | has the same meaning given to that term under the EP Act. | |
| EP Act | means the Environmental Protection Act 1986 (WA). | |
| EP Regulations | means the Environmental Protection Regulations 1987 (WA). | |
| Freeboard | means the distance between the maximum water surface elevation and the top of retaining banks or structures at their lowest point. | |
| HDPE | High density polyethylene | |
| Implementation Agreement or Decision | has the same meaning given to that term under the EP Act. | |
| Inspector | means an inspector appointed by the CEO in accordance with s.88 of the EP Act. | |
| Licence | refers to this document, which evidences the grant of a Licence by the CEO under s.57 of the EP Act, subject to the Conditions. | |
| Licence Holder | refers to the occupier of the premises being the person to whom this Licence has been granted, as specified at the front of this Licence. | |
| LNG | liquefied natural gas | |
| Material Environmental Harm | has the same meaning given to that term under the EP Act. | |
| mbgl | metres below ground level | |
| Pollution | has the same meaning given to that term under the EP Act. | |
| Premises | refers to the premises to which this Licence applies, as specified at the front of this Licence and as shown on the map in Schedule 1 to this Licence. | |
| Prescribed Premises | has the same meaning given to that term under the EP Act. | |
| Primary Activities | refers to the Prescribed Premises activities listed on the front of this Licence as described in Schedule 2, at the locations shown in Schedule 1. | |
| Pollution Premises Prescribed Premises | has the same meaning given to that term under the EP Act. refers to the premises to which this Licence applies, as specified at the front of this Licence and as shown on the map in Schedule 1 to this Licence. has the same meaning given to that term under the EP Act. refers to the Prescribed Premises activities listed on the front of the Licence as described in Schedule 2, at the locations shown in | |

| RO Brine | Reverse Osmosis Brine |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Serious Environmental Harm | has the same meaning given to that term under the EP Act. |
| Spot sample | a discrete sample taken randomly (with regard to time and/or location) from a body of water. |
| Unreasonable Emission | has the same meaning given to that term under the EP Act. |
| Waste | has the same meaning given to that term under the EP Act. |
| Works | refers to the Works described in Table 3 at the locations shown in Schedule 1 of this Licence to be carried out at the Premises, subject to the Conditions. |
| WWTP | Wastewater Treatment Plant |

Interpretation

In this licence:

- (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 licence:
 - (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 licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

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

Infrastructure and equipment

1. The licence holder must ensure that the site infrastructure and equipment listed in Table 2 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 2.

Table 2: Infrastructure and equipment requirements

| Site infrastructure and equipment | Operational requirement | Infrastructure location | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--|
| Ore processing infrastructi | Ore processing infrastructure | | |
| Crushing circuits: Primary, secondary and tertiary crusher, screens, conveyors, product stackers | Dust suppression systems must be used during operation. Dust suppression systems including water sprays fitted to conveyors, head chutes and stackers must be kept maintained. Drive in sumps maintained to capture sediment in stormwater runoff | Refer to Schedule 1, Figure 1: Crushing and beneficiation plant | |
| Beneficiation Plant: Process and raw water tanks, Wet screening and sizing circuit, Dense Media Separation (DMS) plant including fines treatment, Dense media regrind circuit, Classification cyclone and classifiers, Flotation circuit, Thickeners | 4. All pipelines containing environmentally hazardous materials are provided with secondary containment adequate to contain any spill for a period equal to the time between routine inspections. | Refer to Schedule 1, Figure 1: Crushing and beneficiation plant | |
| Tailings storage facility (tailings): Ghost Crab in-pit TSF | The tailings level must not exceed RL 374, (below ~ 6m from lowest point of pit crest) Tailings discharge to Ghost Crab to be via multiple spigots, which will be rotated to achieve an even rate of tailings rise within the facility. All piping will be constructed in accordance with AS/NZS 2033:2008 "Installation of polyethylene pipe systems" and contained within appropriate sized bunding to contain any potential spills. | Refer to Schedule 1, Figure 1: Ghost Crab Tailings Storage Facility | |

| Site infrastructure and equipment | Operational requirement | Infrastructure location |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tailings storage (coarse reject material): Waste rock landforms | Waste rock landforms containing coarse reject tailings must have drainage capable of containing any run-off or stormwater originating from the landform surface. | Refer to Schedule 1, Figure 1: Waste Rock Landforms 1 - 5 |
| Ore sorting infrastructure Used in conjunction with mobile crushing plants. | 9. Dust suppression systems must be used during operation. 10. Dust suppression systems including water sprays fitted to conveyors, head chutes and stackers must be kept maintained. | Refer to Schedule 1, Figure 2: Mobile crushing areas |
| Categories 5, 6 and 85B wa | ter management infrastructure | |
| Turkey's Nests (Processing and dewatering) | 11. Lined with HDPE; and 12. 300 mm freeboard to be maintained. | Refer to Schedule 1, Figure 1: Mining turkeys nest, Processing turkeys nest, Other labelled turkeys nests Any turkeys nest present on the prescribed premises and not labelled in the figures of Schedule 1. |
| Pipelines: Including tailings, tailings return, dewatering and RO brine pipelines | 13. Must be positioned in v-drains with sufficient capacity to contain any spill for a period equal to the time between routine inspections. 14. Must be inspected daily. 15. Isolation valves, telemetry and flow metres are to be maintained to manufacturers specifications | Refer to Schedule 1, Figure 3 |
| Northern Pit 1, Northern Pit 2 Central C01 Pit; | A minimum vertical freeboard of 6 meters must be maintained below the lowest crest level at all times. | Refer to Schedule 1, Figure 3 |
| Categories 5 and 12 Crushing and screening infrastructure | | |
| Mobile crushing plants Category 5 | 17. Bunds maintained around the screening plant and product stockpile area18. Shields and covers on transfer points to be kept maintained. | Refer to Schedule 1, Figure 2: Mobile crushing areas |

| Site infrastructure and equipment | Operational requirement | Infrastructure location |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Mobile crushing plants Category 12 | | Refer to Schedule 1, Figure 1: |
| Category 12 | | Waste rock landforms 1 - 5 |
| Category 54 wastewater tre | atment infrastructure and management | |
| Wastewater treatment plants | 19. Tank bunding to be maintained so as to contain volume of 110% of the largest tank. | Refer to Schedule 1, Figure 1: |
| Submerged aerated filter WWTP capacity 70 m³/day | 20. Treated effluent is to be discharged via irrigation to the 6.64 ha irrigation field indicated in Schedule 1, Figure 1 | WWTP and spray field |
| Two Sequence Batch Reactor WWTPs, each of capacity of 50 m³/day Irrigation field | 21. Sprinklers in the irrigation field are to be maintained and operated such that the effluent does not pond or runoff from the irrigation field. | |
| Category 57 Used tyre man | agement | |
| Used tyre storage | 22. Maximum of 1,000 tyres stored across the premises. | Refer to Schedule 1, Figure 1 |
| | 23. Stored at two waste disposal facilities and at workshops. | |
| Category 64 landfill infrastr | ructure and management | |
| Class II putrescible landfill | 24. Landfill trenches to be located on waste rock landforms within the Waste Rock Landform boundary seen in Figure 1. | Refer to Schedule 1, Figure 1: Landfill & biofarm |
| | 25. No more than two landfill trenches are to be open on the waste rock landform at any one time. | (Ghost Crab WRL) Waste Rock |
| | 26. Tip face to not exceed 30 m in length. | Landform 2 and Landfill |
| | 27. Landfill trench not to exceed 2 metres in depth, and | |
| | 28. Tipping area(s) to be covered each week with a dense (at least 200 mm) layer of inert and incombustible material. | |
| | 29. Signage to be maintained so as to be legible. | |
| | 30. Inspected weekly to ensure correct wastes are being disposed of and that trenchers are being covered weekly | |
| | 31. Waste that has been washed or blown away from the tipping area is to be return to the tipping area at least one in each month. | |
| | | |

| Site infrastructure and equipment | Operational requirement | Infrastructure location |
|-------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------|
| Category 73 | | |
| Fuel supply: 3 x 57,000 L diesel tanks, 1 x 53,000 L, and 6 x 110,000 L tanks. LNG: 8 x 60,000L tanks | 32. None specified | Refer to Schedule 1, Figure 1: LNG/Fuel Farm |
| Category 85B Reverse osn | nosis water treatment infrastructure | |
| Reverse Osmosis Plant | 33. None specified | Refer to Schedule 1, Figure 3: |
| | | RO plant |
| Other Activities: | | |
| Biofarm (bioremediation pad) within Ghost Crab waste rock landform | 34. None specified | Refer to Schedule 1, Figure 1 and Figure 2. |
| Workers' accommodation camp | | |
| Motor Control Centres within Processing Plant | | |
| Control rooms/administration offices/workshops | | |
| Final product stockyard, weighbridge | | |

Infrastructure design and construction

- 2. The Licence Holder must install and undertake the Works for the infrastructure and equipment:
 - (a) specified in Column 1;
 - (b) to the requirements specified in Column 2; and
 - (c) at the location specified in Column 3
 - of Table 3 below.
- 3. Within 60 days of the completion of the Works specified in Column 1 of Table 3, the Licence Holder must provide to the CEO a compliance document certified by the installer confirming each item of infrastructure or component of infrastructure specified in Column 1 of Table 3 below has been constructed to the requirements specified in Column 2. The compliance document shall be signed by a person authorised to represent the Licence Holder.

Table 3: Infrastructure design and construction requirements

| Column 1 | Column 2 | Column 3 |
|---------------------------|----------------------------------------|---------------------|
| Infrastructure/ Equipment | Requirements (design and construction) | Site plan reference |
| Category 5 infrastructure | | |

| Column 1 | Column 2 | Column 3 |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Infrastructure/ Equipment | Requirements (design and construction) | Site plan reference |
| Ore sorting infrastructure | Dust suppression systems must be installed that include Output Output | Category 5 infrastructure refer to Schedule 1, figure 2: |
| | a. water sprays fitted to conveyors, head chutes and stackers, | Mobile crushing areas |
| | fitting of screens and covers on transfer points. | |
| Dewatering and RO Brine d | isposal infrastructure | |
| Pipelines: Including tailings, tailings return, dewatering and RO brine pipelines | Up to 500 mm diameter welded poly pipeline with v-drains installed. | Refer to Schedule 1, figure 3 |
| | Isolation valves and telemetry to be installed. | |
| | A flow meter to be installed on each pipeline to allow discharge volumes to be measured. | |
| V- drains | 5. The v-drains must have sufficient capacity to completely contain any discharges from pipeline leakage or breach for a period equal to the time between routine inspections. | Not depicted |
| Dewatering and RO Brine turkey nests | Constructed with minimum 1.5 mm welded HDPE liner | As shown in Figure 1 in Schedule 1 |
| | 7. Fenced to prevent fauna access | |

Emissions and discharges

4. The licence holder must ensure that the emissions specified in Table 4, are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 4: Authorised discharge points

| Emission | Discharge point | Discharge point location |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Tailings (with the exception of coarse reject material) | Ghost Crab Pit in-pit TSF | As shown in Schedule 1: Figure 1 |
| Coarse reject (tailings) materials | Discharge to Waste rock landforms, Or Use for construction purposes only within operational pit areas or within the processing plant footprint. | As shown in Schedule 1, figure 1: Waste Rock Landforms 1 – 5 Northern Pits 1 and 2 Central Pit (C01) Beneficiation plant |
| Treated effluent from WWTPs | Irrigation spray field | As shown in Schedule 1: Figure 1 |
| Class II waste (putrescible and inert) | Trenches within the Landfill & biofarm (Ghost Crab WRL) and | As shown in Schedule 1: Figure 1 |

| Emission | Discharge point | Discharge point location |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| | Waste Rock Landform 2 and Landfill | |
| Used tyres and rubber | Waste rock landforms 1 -5 Ghost Crab Pit Northern Waste Rock Landform. Ghost Crab Southern Waste Rock Landform | As shown in Schedule 1: Figure 1 |
| Dewatering effluent | Pits: Northern Pit 1, Northern Pit 2 and Central C01 Pit; Ghost Crab in- Pit TSF; and dust suppression within operational areas of process plant and mines. | As shown in Schedule 1: Figure 1 and 4 |
| RO Brine | Ghost Crab Pit in-pit TSF; and Pits: Northern Pit 1, Northern Pit 2 and Central C01 Pit RO Brine is not to be used for dust suppression | As shown in Schedule 1: Figure 1 |

Dust suppression.

- **5.** The licence holder must ensure that where groundwater and dewater effluent is used for dust suppression, it is applied in a manner that does not impact vegetation.
- The licence holder must ensure dewatering effluent is only used for dust suppression activities within already cleared areas within the area depicted in Schedule 1, Figure 4, excluding topsoil stockpiles and rehabilitation.

Discharge of dewatering effluent to Ghost Crab In-Pit TSF

7. The licence holder must only discharge up to 16,000 kL/year of dewatering effluent to the Ghost Crab In-Pit TSF.

Emission Limits

8. The Licence Holder must ensure that the treated wastewater effluent that is discharged to the irrigation spray field for the parameters in Column 1 of Table 5 meets the limits specified in Column 2 of Table 5.

Table 5: Treated effluent quality limits table

| Column 1 | Column 2 |
|------------------------------------|-----------------|
| Parameters | Limit |
| BOD | <30 mg/L |
| Total Suspended Solids | <40 mg/L |
| Total Nitrogen | <50 mg/L |
| Total Phosphorus | ≤12 mg/L |
| рН | 6.5 – 8.5 |
| Thermo-tolerant Coliforms (E.Coli) | <1000 cfu/100ml |

Monitoring

- **9.** The licence holder must ensure that:
 - (a) monitoring is undertaken in each monthly period such that there are at least 15 days in between the days on which samples are taken in successive months;
 - (b) monitoring is undertaken in each quarterly period such that there are at least 45 days in between the days on which samples are taken in successive quarters; and
 - (c) monitoring is undertaken in each annual period such that there are at least 9 months in between the days on which samples are taken in successive years.
- 10. All sample analysis must be undertaken by laboratories with current accreditation from the National Association of Testing Authorities (NATA) for the relevant parameters, unless indicated otherwise in the relevant table.
- 11. The Licence Holder must ensure that all monitoring equipment used on the Premises to comply with the Conditions of this Licence is calibrated in accordance with the manufacturer's specifications.

Discharge Point Monitoring

- **12.** The licence holder must monitor emissions:
 - (a) from each discharge point;
 - (b) at the corresponding monitoring location;
 - (c) for the corresponding parameter;
 - (d) at the corresponding frequency;
 - (e) in the corresponding unit; and
 - (f) using the corresponding method,

as set out in Table 6.

Table 6: Emissions and discharge monitoring

| Discharge point | Monitoring location | Parameter | Frequency | Unit | Method |
|----------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------|-----------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| | Tailings pipeline flowmeter | Volume of tailings (wet) | Monthly | kL | - |
| Ghost Crab inpit TSF | Tailings decant pond | Level of the tailings decant pond in Ghost Crab Pit | Annually | Metres below lowest point of pit crest and m RHD | - |
| Waste rock landforms as depicted in Schedule 1, Figure 1 | - | Volume of tailings (coarse rejects) | Monthly | Tonnes | Calculated from volume of coarse rejects discharged to waste rock landforms |

| Discharge point | Monitoring location | Parameter | Frequency | Unit | Method |
|------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------|-------------------|-----------|---------------------------------------|
| Dewatering water discharged to Ghost Crab in- pit TSF | Ghost Crab Pit dewatering line flow meter | Volume of dewatering water | Monthly | kL | |
| RO Brine discharged to Northern Pts 1 and 2 and Central Pit (C01) | RO Brine line flow meter | Volume of RO Brine | Monthly | kL | |
| RO Brine discharged to Ghost Crab in- pit TSF | Ghost Crab Pit RO Brine line flow meter | Volume of RO Brine | Monthly | kL | - |
| Dewatering discharged to Northern Pts 1 and 2 and Central Pit (C01) | Dewatering pipeline flow meters | Volume of dewatering | Monthly | kL | |
| | | Volume | Monthly | kL | |
| Water used for dust | Turkeys nests | Ra ²²⁶ , | Quarterly Bq/L | | AS/NZS 5667.1 AS/NZS 5667.11 |
| suppression (mixture of raw | where dust suppression | Ra ²²⁸ | | Bq/L | |
| water and | water is drawn | Pb ²¹⁰ | | | |
| dewatering effluent) | from. | Gross α | | | |
| cindent) | | Gross β | | | |
| | | BOD | Quarterly mg/L AS | mg/L |] |
| WWTP treated effluent | | Total Suspended Solids | | | |
| | discharge | Total Nitrogen | | mg/L | AS/NZS 5667.10 |
| | pipeline (post treatment and pre-discharge) | Total Phosphorus | | mg/L | |
| | | pН | | - | |
| | | Thermo- tolerant Coliforms (E.Coli) | | cfu/100ml | |

Ambient Monitoring

- **13.** The licence holder must monitor the groundwater for the parameter listed in Table 6:
 - (a) at the corresponding monitoring location;

- (b) in the corresponding unit;
- (c) at no less that the corresponding frequency; and
- (d) for the corresponding averaging period.,

as set out in Table 7.

Table 7: Monitoring of ambient groundwater

| Parameter | Monitoring location | Unit | Frequency | Averaging period |
|----------------------|--------------------------------------------------------------------------------|------|-----------|------------------|
| Standing water level | Monitoring bores MTMPZ1, MTMPZ2 and MTMPZ4 as depicted in Schedule 1, Figure 5 | mbgl | quarterly | Spot samples |

Monitoring of tailings storage facility water balance

- 14. The licence holder must undertake monitoring of the water balance for Ghost Crab in pit TSF each monthly period, and (as a minimum) record the following information:
 - (a) site rainfall;
 - (b) evaporation rate;
 - (c) decant water recovery volumes;
 - (d) volume of tailings deposited;
 - (e) tailings solid content (w/w%):
 - (f) volume of water in tailings;
 - (g) volume of reverse osmosis brine discharged to Ghost Crab in-pit TSF;
 - (h) volume of dewatering effluent discharged to Ghost Crab in-pit TSF; and
 - (i) estimate of seepage losses.

Recording of results of monitoring

15. The licence holder must record the results of all monitoring activity required by conditions 12, 13 and 14.

Specified Actions (dust suppression)

- The Licence Holder must develop site-specific concentration ratios for Ra²²⁶, Ra²²⁸, Pb²¹⁰, gross alpha and gross beta. These ratios must be developed through monitoring in accordance with the guideline the IAEA *Technical reports series No.* 486 (IAEA, 2019).
- 17. A report providing the site specific concentration ratios as required by condition 16 must be submitted by 1 December 2025. The report must include results of monitoring of site-specific species, the site specific concentration ratios and a discussion on how they were derived from the monitoring.
- 18. A soil monitoring plan must be developed to assess the levels of contamination by radionuclides within soil that is potentially impacted by the application of water for dust suppression. The monitoring plan must be developed in accordance with the guidelines, *Guideline Assessment and management of contaminated sites* and the *Technical reports series No. 486* (IAEA, 2019), and submitted by 1 December 2024.
- **19.** The licence holder must use the site-specific concentration ratios developed in condition 17, the radionuclide levels monitored in accordance with condition 12 and

- the plan provided under condition 18, to assess the rate of accumulation of radionuclides due to dust suppression activities and calculate the peak radiological impact as expected at the end of mine life. This assessment must be completed and submitted in a report to the CEO by 30 March 2028.
- 20. If the peak radiological impact as calculated in condition 19 is estimated to exceed 0.88 Bq/g (maximum) or 0.67 Bq/g (average), a dust management plan must be submitted that will ensure the peak radiological impact will not exceed 0.88Bq/g (maximum) or 0.67Bq/g (average). This plan must be submitted to the CEO within 90 days of the report required in condition 19.

Records and reporting

Non-compliance Notification (7 Days)

- 21. The licence holder must record the following information in relation to complaints received by the licence 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 licence holder to investigate or respond to any complaint.
- **22.** The licence holder must:
 - (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and
 - (b) prepare and submit to the CEO by no later than 30 March each year an Annual Audit Compliance Report in the approved form.
- 23. The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:
 - (a) the calculation of fees payable in respect of this licence;
 - (b) the works conducted in accordance with condition 3 of this licence;
 - (c) any maintenance of infrastructure that is performed in the course of complying with condition 1 of this licence:
 - (d) monitoring programmes undertaken in accordance with conditions 12, 13 and 14 of this licence; and
 - (e) complaints received under condition 21 of this licence.
- **24.** The books specified under condition 23 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 licence holder for the duration of the licence; and
 - (d) be available to be produced to an inspector or the CEO as required.

Annual Environmental Report

25. The licence holder must submit to the CEO by no later than 30 March each year, an Annual Environmental Report for that annual period for the conditions listed in Table 8, and which provides information in accordance with the corresponding requirement set out in Table 8.

Table 8: Annual Environmental Report

| Condition | Requirement |
|-----------|---------------------------------------------------------------------------------------------------------------------|
| 12 | (a) Cumulative monthly volumes of water or tailings discharged and discharge location per year. |
| | (b) Laboratory data sheets for WWTP treated effluent for quarterly monitoring. |
| | (c) Tabulated data summary of monitoring results |
| | (d) An interpretation of monitoring data results including comparison to historical trends. |
| 13 | Tabulated groundwater monitoring data results and time series graphs for each monitoring well over a 4 year period. |
| 14 | (a) Water balance monitoring data |
| | (b) An interpretation of monitoring data results including comparison to historical trends. |

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below (Error! Reference source not found.).

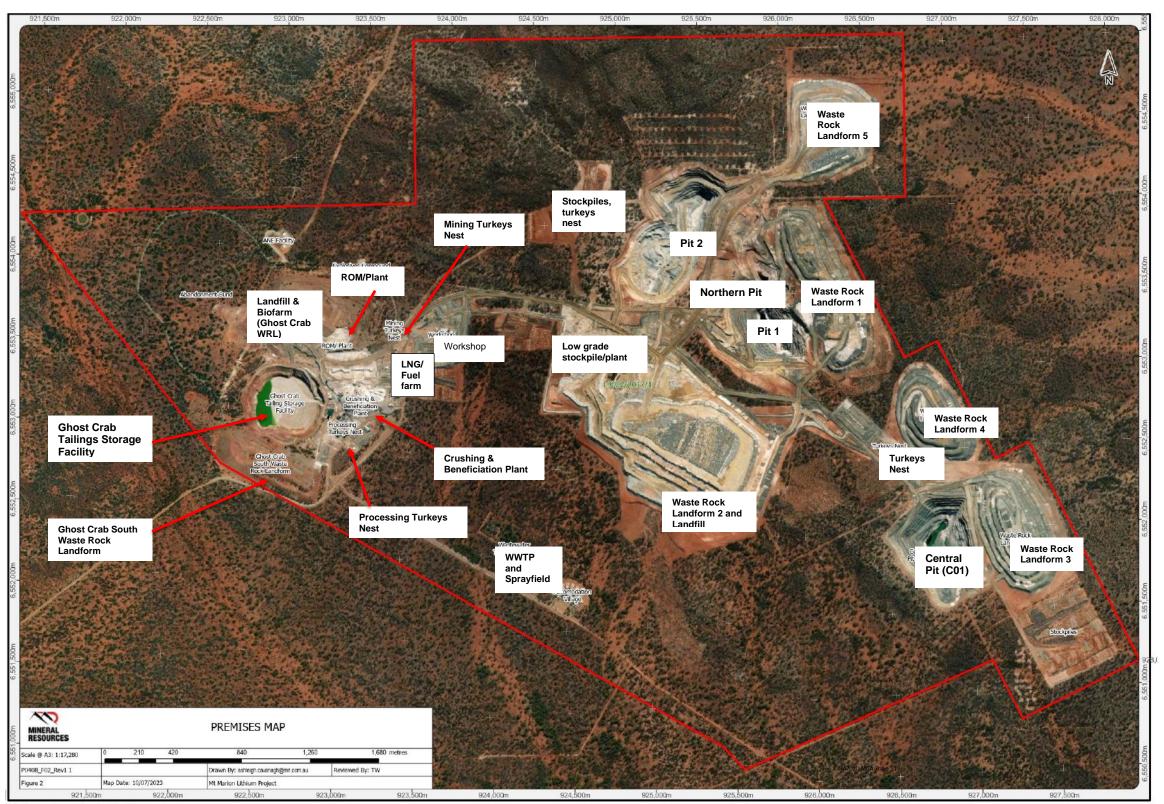


Figure 1: Map of the boundary of the prescribed premises and site layout

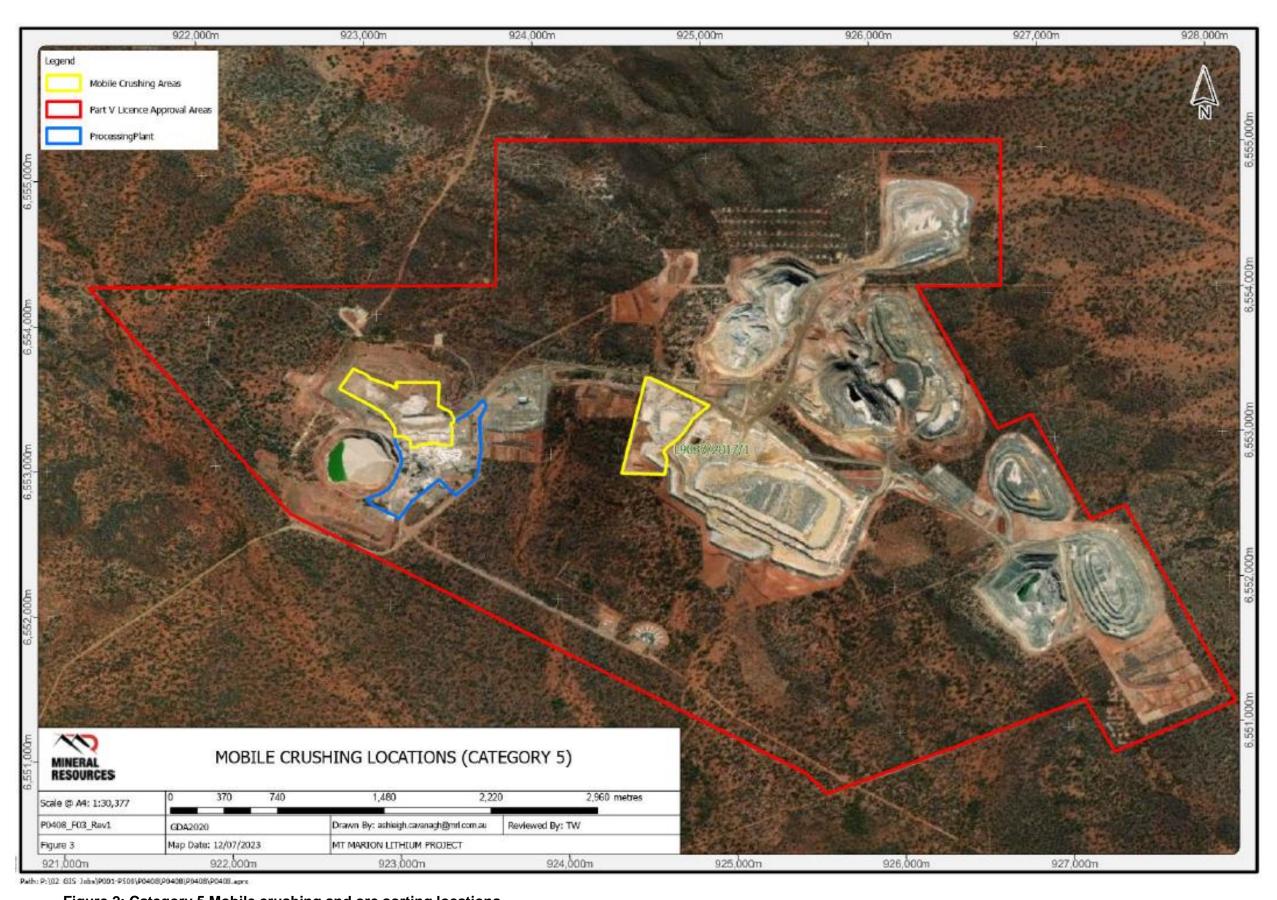


Figure 2: Category 5 Mobile crushing and ore sorting locations

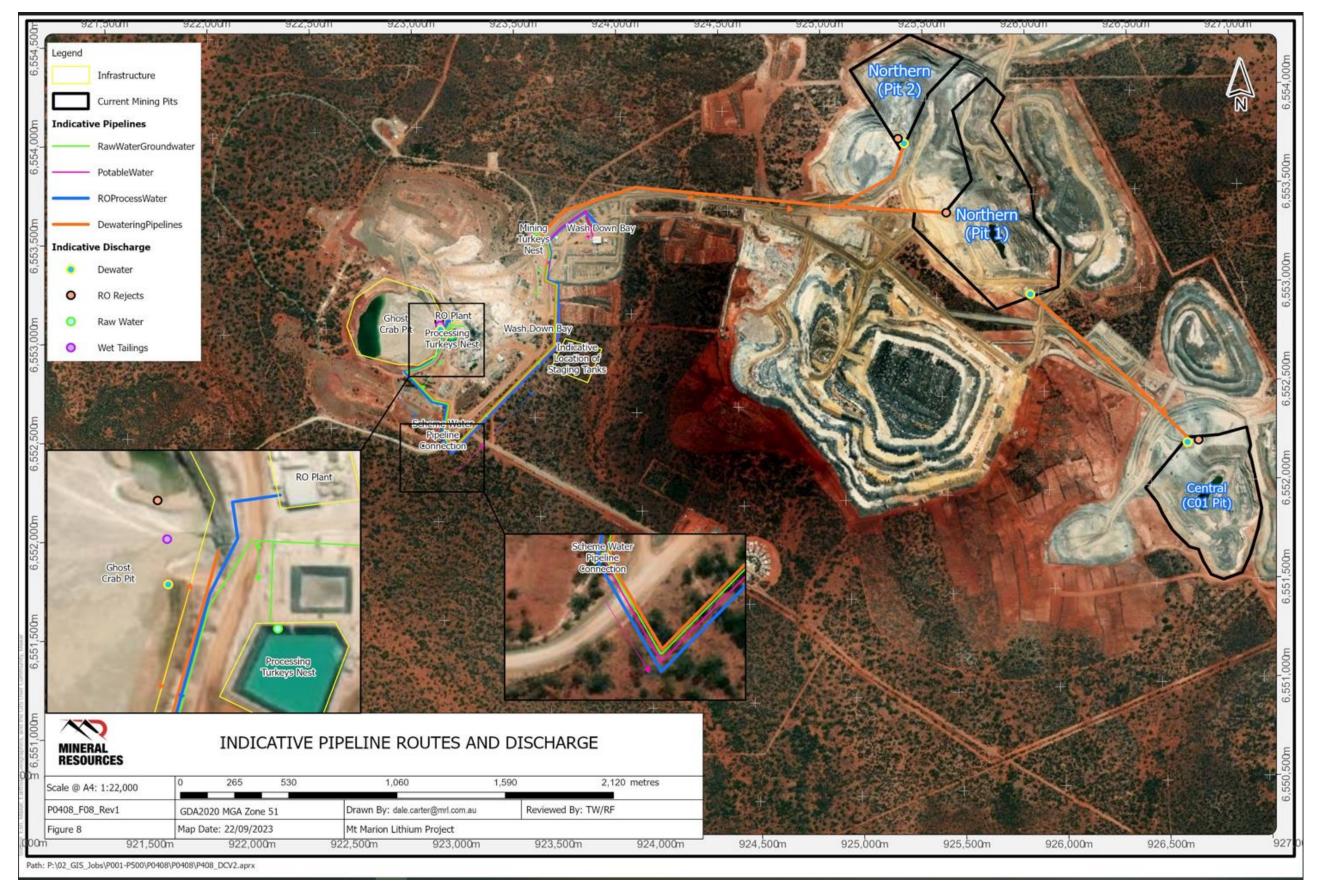


Figure 3: Pipeline routes and discharge points

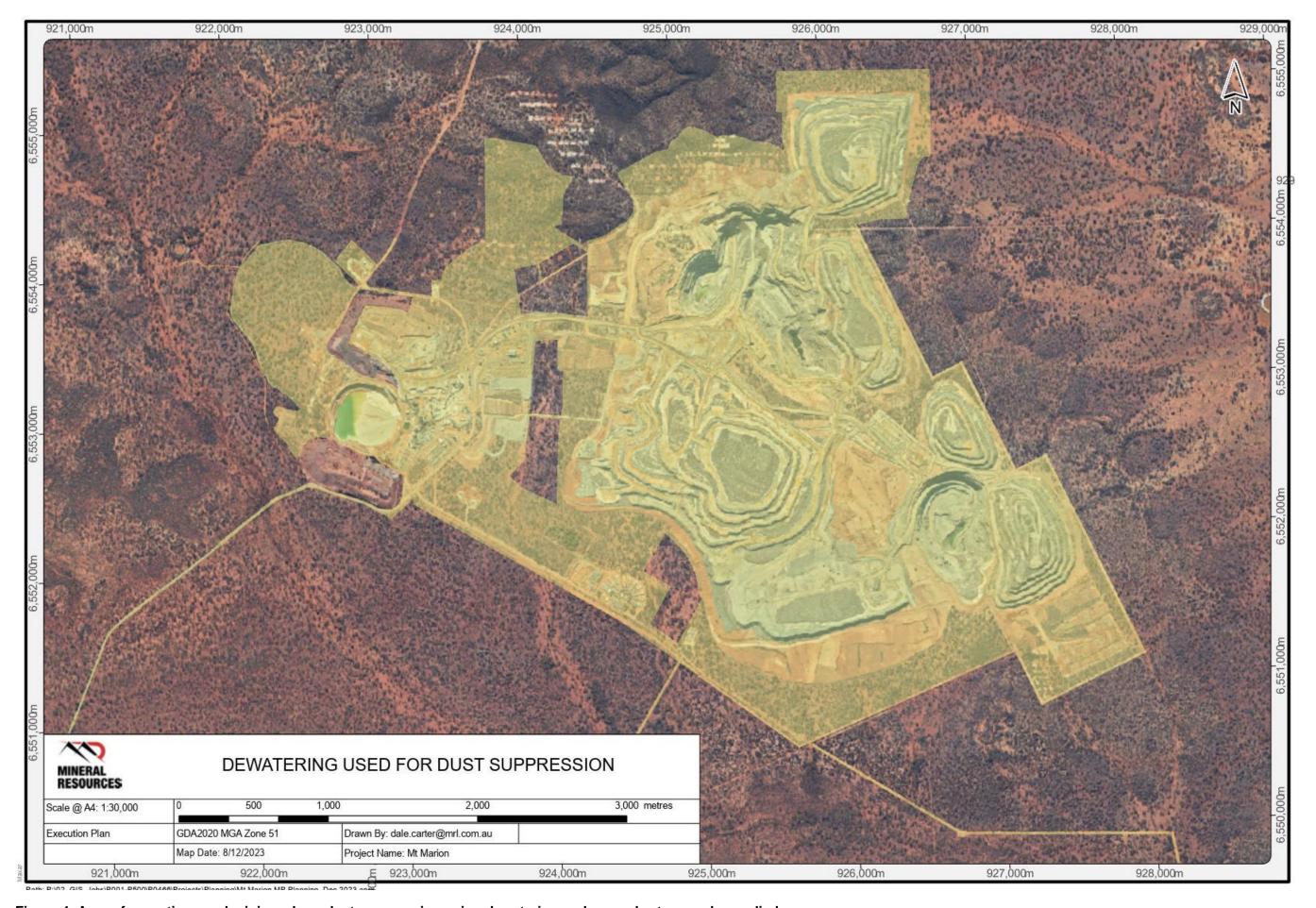


Figure 4: Area of operations and mining where dust suppression using dewatering and groundwater may be applied.

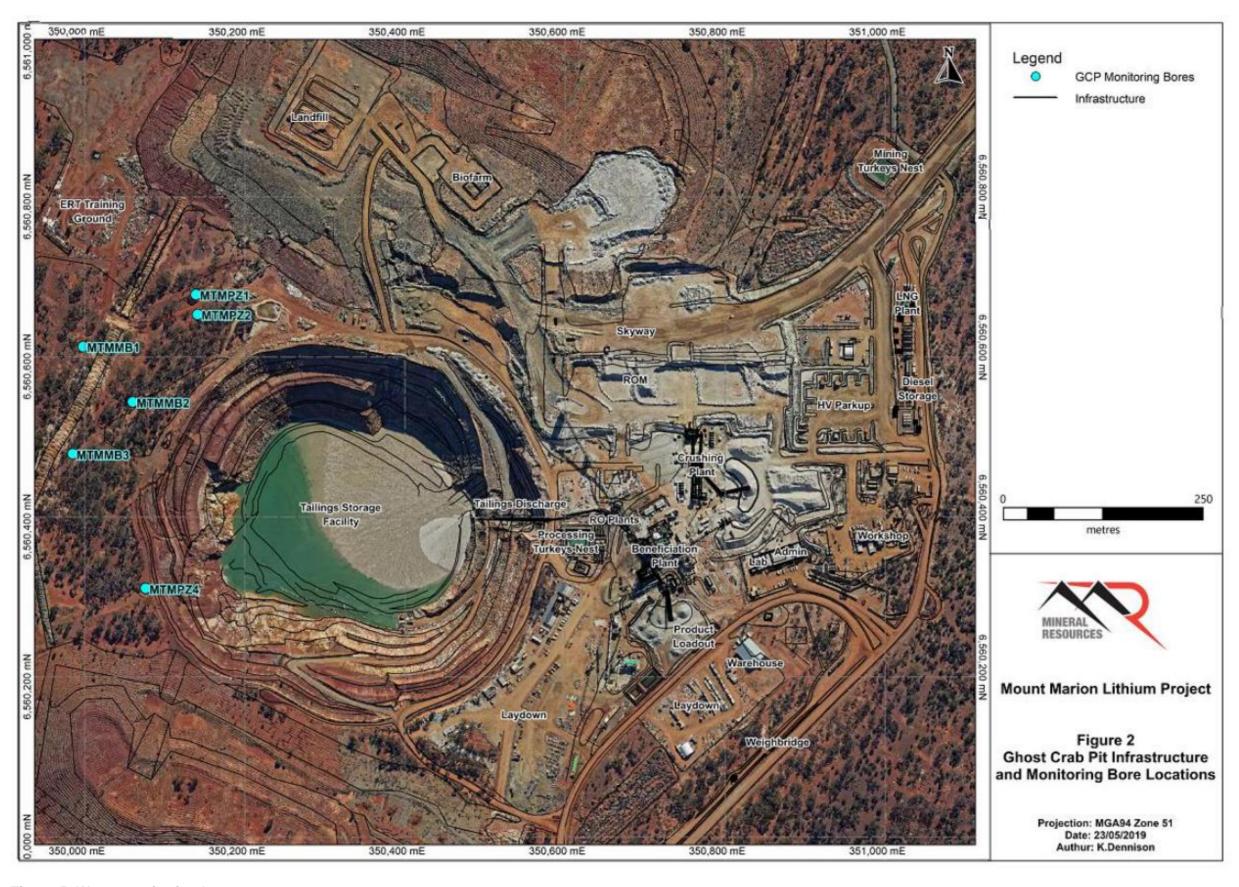


Figure 5: Water monitoring bores