



Licence number	L9012/2016/1
Licence holder	Linden Gold Pty Ltd
ACN	138 222 705
Registered business address	Level 2, 8 Colin Street WEST PERTH WA 6005
DWER file number	DER2016/002205
Duration	10/04/2017 to 10/04/2037
Date of issue	11/04/2017
Date of amendment	19 May 2022
Premises details	Second Fortune Gold Mine Legal description - Mining tenements M39/255, M39/649 and M39/650. Miscellaneous licence L39/12. MENZIES WA 6436 As defined by the coordinates in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 5: Processing or beneficiation of metallic or non-metallic ore	156,000 tonnes per annual period
Category 6: Mine dewatering	420,000 tonnes per annual period
Category 89: Class II or III putrescible landfill site	1,026 tonnes per annual period

This amended licence is granted to the licence holder, subject to the attached conditions, on 19 May 2022, by:

Samara Rogers

**A/MANAGER, RESOURCE INDUSTRIES
REGULATORY SERVICES**

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

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Licence history

Date	Reference number	Summary of changes
10/10/2013	W5474/2013/1	New application for category 6 mine dewatering
02/02/2017	W5474/216/1	Amendment Notice 1 to works approval to include category 5 processing or beneficiation of metallic or non-metallic ore
10/04/2017	L9012/2016/1	New application for licence for operation of Stage 2 processing infrastructure. Stage 1 is only authorised upon submission of compliance documentation in accordance with works approval W5474/2013/1.
25/07/2017	L9012/2016/1	Amendment to Licence to incorporate changes to locations of groundwater monitoring bores and minor structural changes to the evaporation ponds.
01/04/2021	L9012/2016/1	Amendment for licence transfer
19/05/2022	L9012/2016/1	Amendment to increase Category 6 throughput capacity to 420,000 tonnes per annual period, change groundwater monitoring requirements and include Category 89 activity.

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:

Premise Operation

Infrastructure and equipment

1. The licence holder shall record and investigate the exceedance of any descriptive or numerical limit in all the monitoring works;
2. The licence holder must ensure that the site infrastructure and equipment listed in Table 1 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 1.

Table 1: Infrastructure and equipment requirements

Site infrastructure and equipment	Material accepted	Infrastructure requirement	Infrastructure location
Evaporation Pond 1	Dewatering effluent	Maintain a minimum freeboard of 500 millimetres; and Compacted clay lined to achieve a permeability of less than 1×10^{-8} m/s.	Located as depicted in Schedule 1: Maps, Figure 2.
Evaporation Cannon	Dewatering effluent	Must not be operated when wind speed exceeds 4 m/s.	Located as depicted in Schedule 1: Maps, Figure 4
North Landfill	Inert waste and putrescible waste	Dust suppression during landfill operations (e.g. trenching, tipping, covering) using water carts; Active tipping area must not exceed 100 m in length, 30 m in width and 2 m in height; Landfill trench must not exceed 25 m in width; Base of landfill trench must maintain 3 m separation distance from the water table; Waste must be covered monthly using overburden with thickness of at least 200 mm; Landfill trench must be surrounding by safety bunding at least 1 m in height; Barrier mesh fencing must be constructed and maintained to capture windblown waste; Monthly inspection around landfill area to return windblown waste to the	Located as depicted in Schedule 1: Maps, Figure 2.

		tipping area; and Records maintained of volume of waste accepted for reporting purposes.	
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3. The licence holder shall ensure that the dewatering pipeline is either:
- (a) equipped with telemetry systems and pressure sensors along pipelines to allow the detection of leaks and failures; or
 - (b) equipped with automatic cut-outs in the event of a pipe failure; or
 - (c) provided with secondary containment sufficient to contain any spill for a period equal to the time between routine inspections.
4. The licence holder shall:
- (a) undertake inspections as detailed in Table 2;
 - (b) where any inspection identifies that an appropriate level of environmental protection is not being maintained, take corrective action to mitigate adverse environmental consequences as soon as practicable; and
 - (c) maintain a written log of all inspections undertaken with each inspection record signed by a responsible person.

Table 2: Inspection of infrastructure

Scope of inspection	Type of inspection	Frequency of inspection
Dewatering effluent pipeline	Visual check of integrity	Daily
Evaporation Pond 1 and 2 freeboard	Visual check to confirm required freeboard capacity is available	Daily
Evaporation cannons	Visual check of integrity and to ensure no overspray is occurring beyond Evaporation Pond Walls	Daily (when in operation)
Process water infrastructure, tanks and pipelines	Visual check of integrity	Daily

Emissions

5. The licence holder shall ensure that where waste is emitted to groundwater from the emission point in Table 3, and identified on the map of emission points in Schedule 1, it is done so in accordance with the conditions of this licence.

Table 3: Emissions points to groundwater

Emission point reference	Description of material	Source including abatement
Evaporation Pond (G1); and Evaporation Pond (G2); as depicted on the map of infrastructure, emission points and monitoring in Schedule 1: Maps.	Dewatering effluent and biterms from the reverse osmosis plant only.	Dewatering of mine pit and biterms from reverse osmosis plant

6. The licence holder must ensure that any dewatering effluent shall only be disposed of in the following manner:
- (a) used for dust suppression in a manner that minimises damage to surrounding vegetation; or
 - (b) is discharged into an authorised location outlined in condition 5.

Monitoring

7. The licence holder shall ensure that:
- (a) quarterly monitoring is undertaken at least 45 days apart; and
 - (b) six-monthly monitoring is undertaken at least 5 months apart.
8. The licence holder shall 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.
9. The licence holder shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.
10. The licence holder shall undertake the monitoring in Table 4 according to the specifications in that table.

Table 4: Monitoring of point source emissions to groundwater

Emission point reference	Parameter	Units	Averaging period	Frequency
Dewatering discharge outlet to Evaporation Pond 1 and 2 (G1, G2)	Volumetric flow rate	m ³ /day	Monthly	Continuous

11. The licence holder shall undertake ambient environmental quality monitoring in Table 5 according to the specifications in that table.

Table 5: Monitoring of groundwater

Monitoring point reference and location	Parameter	Units	Limit	Averaging period	Frequency
GW1 and GW3 As depicted in Schedule 1: Maps, Figure 3.	Standing water level ¹	mbgl m(AHD)	None specified	Spot sample	Quarterly
GW2, GW4, GW6 and GW7 As depicted in Schedule 1: Maps, Figure 3.			≥4 mbgl		
GW2, GW4, GW6	pH ¹	pH units	None	Spot	Quarterly

Monitoring point reference and location	Parameter	Units	Limit	Averaging period	Frequency
and GW7	Total dissolved solids	mg/L	specified	sample	
As depicted in Schedule 1: Maps, Figure 3.	Total nitrates ²				
	Total sulfates ²				
	Metals and metalloids ² Mg, Na, K, Al, As, Ca, Cd, Cr, Co, Cu, g, Pb, Mn, Ni, Se, Tl and Zn				

Note 1: In-field non-NATA accredited analysis is authorised.

Note 2: Level of detection is required to be sufficient to enable a comparison with ANZG Guidelines (2018).

Note 3: Monitoring requirements for GW1 will apply after it has been repaired in accordance with Condition 20.

- 12.** The licence holder shall undertake the monitoring in Table 6 according to the specifications in that table.

Table 6: Monitoring of surface water quality

Monitoring point reference and location	Parameter	Units	Limit	Averaging period	Frequency
Evaporation Pond 1, as depicted in Schedule 1: Maps, Figure 3	pH ¹	pH units	None specified	Spot sample	Six-monthly
	Total dissolved solids	mg/L			
	Metals and metalloids ² Mg, Na, K, Al, As, Ca, Cd, Cr, Co, Cu, g, Pb, Mn, Ni, Se, Tl and Zn				

Note 1: In-field non-NATA accredited analysis is authorised.

Note 2: Level of detection is required to be sufficient to enable a comparison with ANZG Guidelines (2018).

Records and reporting

- 13.** All information and records required by the licence shall:
- be legible;
 - if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
 - except for records listed in 12(d), be retained for at least 6 years from the date the records were made or until the expiry of the licence or any subsequent licence; and
 - for the following records, be retained until the expiry of the licence and any subsequent licence:
 - off-site environmental effects; or
 - matters which affect the condition of the land or water.
 - be available to be produced to an inspector or the CEO, as required.

- 14.** 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 90 days after the end of that annual period, an Annual Audit Compliance Report in the approved form.
- 15.** The licence holder shall implement a complaints management system that, as a minimum, records and details the number of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.
- 16.** The licence holder must submit to the CEO by no later than 90 days after the end of each annual period, an Annual Environmental Report for that annual period for the conditions listed in Table 7, and which provides information in accordance with the corresponding requirement set out in Table 7.

Table 7: Annual environmental report requirements

Condition or table (if relevant)	Parameter	Format or form
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken.	None specified.
-	Actual throughput	None specified.
9	Monitoring of point source emissions to groundwater	None specified.
10 and 11	Ambient environmental quality monitoring	None specified.
13	Compliance against conditions of this licence	Annual Audit Compliance Report (AACR)
14	Complaints summary	None specified.

- 17.** The licence holder shall ensure that the Annual Environmental Report also contains an assessment of the information contained within the report against previous monitoring results and licence limits.
- 18.** The licence holder shall submit the information in Table 8 to the CEO according to the specifications in that table.

Table 8: Non-annual reporting requirements

Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of annual period)	Format or form
-	Copies of original monitoring reports submitted to the licence holder by third parties	Not applicable	Within 14 days of the CEO's request	As received by the licence holder from third parties

19. The licence holder shall ensure that the parameters listed in Table 9 are notified to the CEO in accordance with the notification requirements of the table.

Table 9: Notification requirements

Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
1 and 8	Breach of any limit specified in the licence	Part A: As soon as practicable but no later than 5pm of the next usual working day. Part B: As soon as practicable.	N1
9	Calibration report	As soon as practicable.	None specified

Note 1: Notification requirements in the licence shall not negate the requirement to comply with s72 of the Act.

Improvement Conditions

20. The licence holder must ensure that the infrastructure listed in Table 10 remains operational in accordance with the requirements specified in Table 10.

Table 10: Construction requirements – groundwater monitoring bore

Infrastructure	Infrastructure requirements	Monitoring well locations	Timeframe
Groundwater monitoring bores: <ul style="list-style-type: none"> • GW1 • GW2 • GW3 • GW4 • GW6 • GW7 	<ul style="list-style-type: none"> • Must be determined to be operational to meet the monitoring requirements as required by Condition 11, Table 5; and • Must not have construction design altered (e.g., location of the bore, total depth to the base of bore, screen depth, screen interval), unless the CEO is notified with justifications provided for any alterations. 	As depicted in Schedule 1: Maps, Figure 3.	Must be repaired and determined to be operational by 30 November 2022.

21. The licence holder must, within seven calendar days of the infrastructure listed in Table 10 being determined as operational, notify the CEO evidencing compliance with the requirements of condition 20.
22. The licence holder must investigate and determine the following parameter in accordance with the requirements specified in Table 11.

Table 11: Groundwater bore improvement requirements

Parameter	Unit	Limit of reporting	Monitoring point reference	Monitoring point location	Timeframe
Total depth to the base of bore	mbgl	0.1	<ul style="list-style-type: none"> • GW1 • GW2 • GW3 • GW4 • GW6 • GW7 	As depicted in Schedule 1, Figure 3.	28 February 2022

- 23.** The licence holder must, within 30 calendar days of determining the parameter specified in Table 11, submit the information to the CEO evidencing compliance with the requirements of condition 22.

Definitions

In this licence, the terms in Table 12 have the meanings defined.

Table 12: Definitions

Term	Definition
ACN	Australian Company Number
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
AHD	means the Australian height datum
annual period	a 12 month period commencing from 1 July until 30 June of the immediately following year.
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 <i>Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples</i> .
AS/NZS 5667.11	means the Australian Standard AS/NZS 5667.1 <i>Water Quality – Sampling – Guidance on sampling of groundwaters</i>
ASTM D5092/D5092M-16	Means the ASTM international standard for standard practice for design and installation of groundwater monitoring wells (Designation: ASTM D5092/D5092M-16), as amended from time to time.
averaging period	means the time over which a limit is measured or a monitoring result is obtained.
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer of the Department. “submit to / notify the CEO” (or similar), means either: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
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.
EP Act	<i>Environmental Protection Act 1986</i> (WA)

Term	Definition
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
freeboard	means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
m	means metres;
mbgl	means metres below ground level
monthly period	means a one-month period commencing from the first day of a month until the last day of the same month.
NATA	means National Association of Testing Authorities, Australia
NATA accredited	means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis
premises	refers to 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 licence.
prescribed premises	has the same meaning given to that term under the EP Act.
quarterly	means the 4 inclusive periods from 1 April to 30 June, 1 July to 30 September, 1 October to 31 December and in the following year, 1 January to 31 March;
Schedule 1	means Schedule 1 of this Licence unless otherwise stated;
Schedule 2	means Schedule 2 of this Licence unless otherwise stated; and
spot sample	means a discrete sample representative at the time and place at which the sample is taken.
waste	has the same meaning given to that term under the EP Act.

END OF CONDITIONS

Schedule 1: Maps

Premises map

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

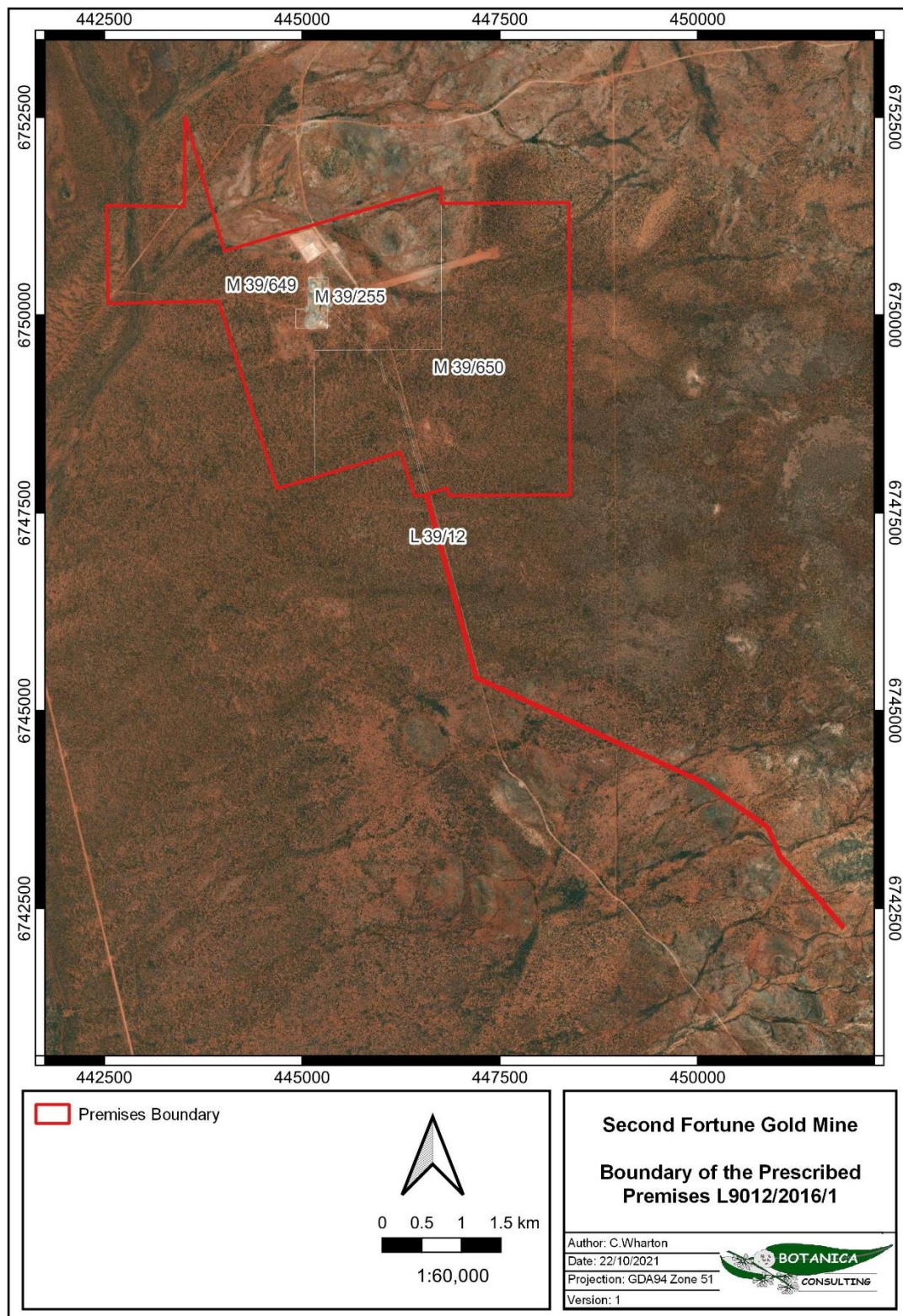


Figure 1: Map of the boundary of the prescribed premises

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IR-T06 Licence template (v7.0) (February 2020)

The location of key infrastructure and emission points are shown on the map below.

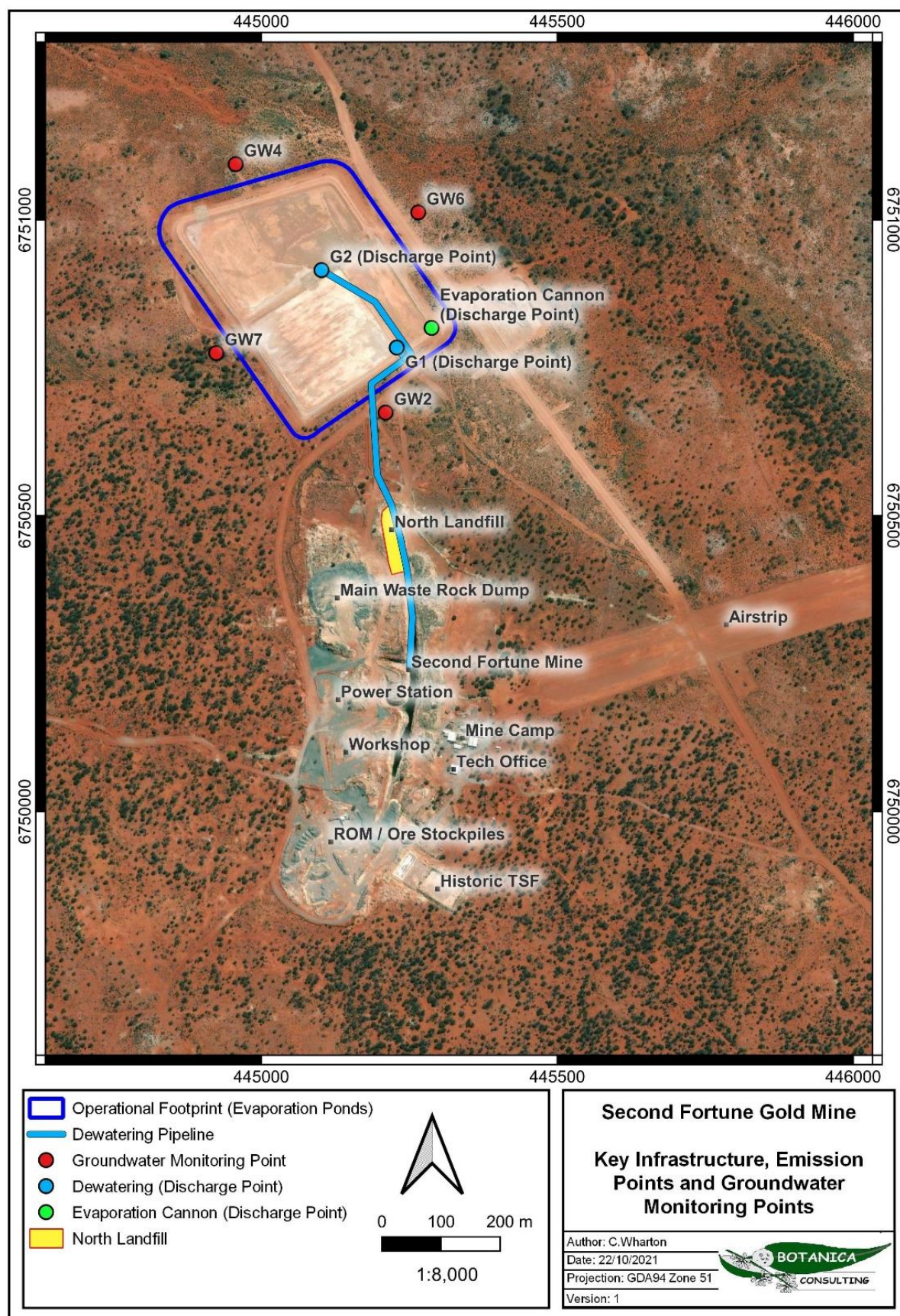


Figure 2: Map of infrastructure and emission points

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IR-T06 Licence template (v7.0) (February 2020)

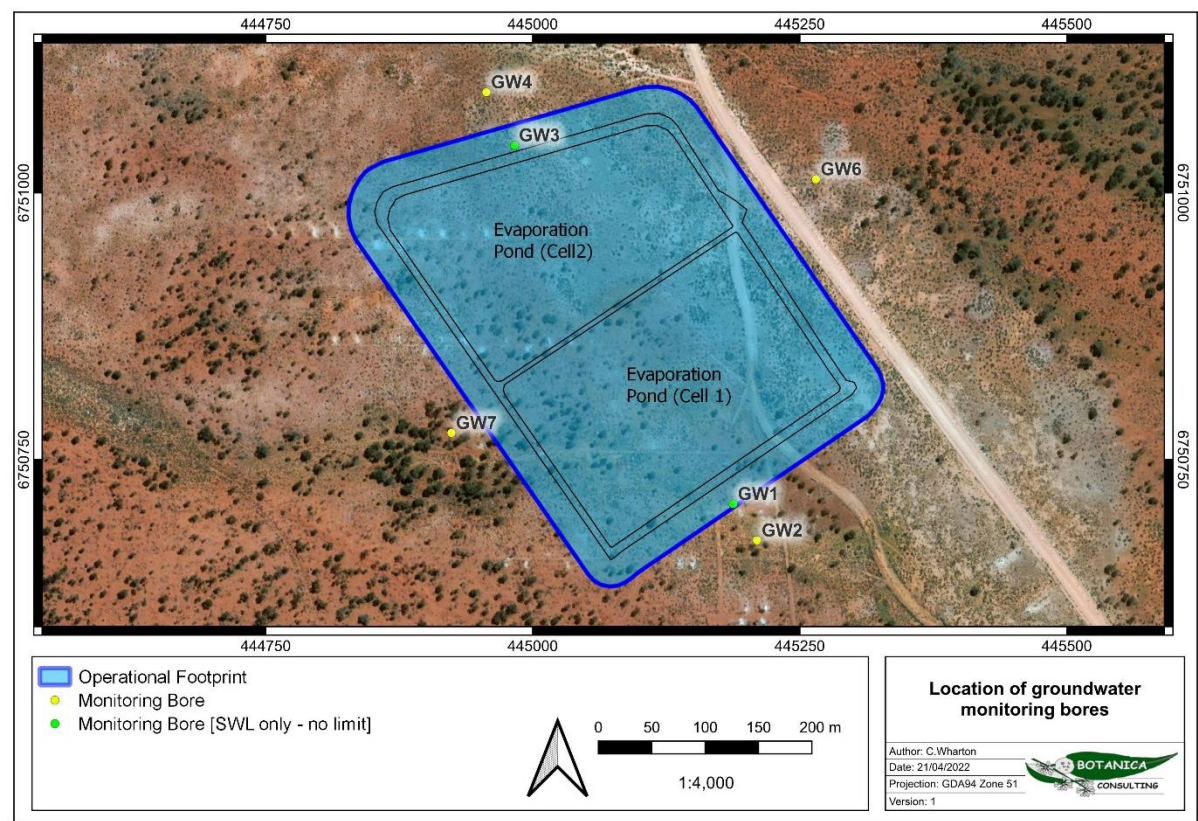


Figure 3: Location of groundwater monitoring bores

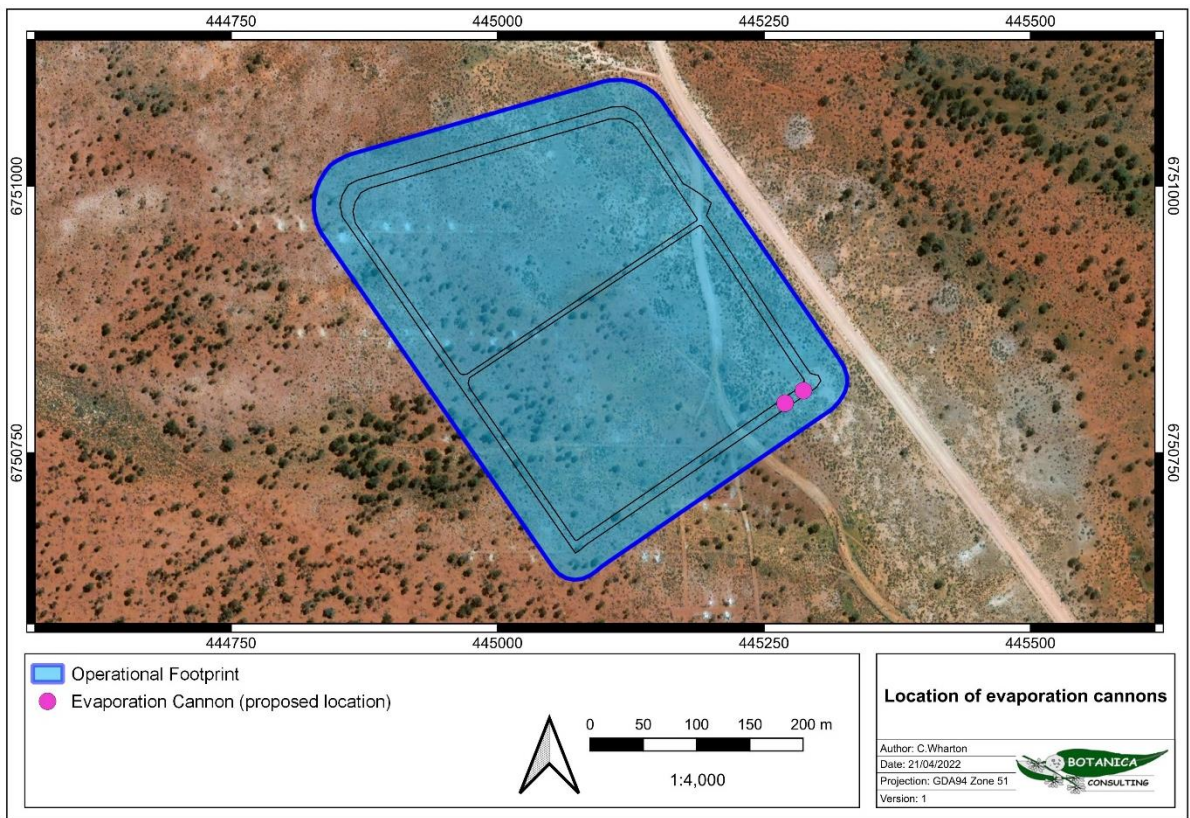


Figure 4: Location of evaporation cannons

Schedule 2: Premises boundary

The premises boundary is defined by the coordinates in Table 13.

Table 13: Premises boundary coordinates (GDA94)

Easting	Northing	Zone
1034136	6729736	50
1034115	6729721	50
1033364	6730662	50
1033225	6731038	50
1032431	6731651	50
1029634	6733120	50
1029121	6735467	50
1028872	6735479	50
1028732	6735987	50
1027250	6735630	50
1026621	6738064	50
1025214	6738129	50
1025271	6739357	50
1026265	6739311	50
1026317	67340431	50
1026728	6738698	50
1029517	6739359	50
1029507	6739159	50
1031129	6739083	50
1030955	6735381	50
1029415	6735454	50
1029399	6735528	50
1029144	6735467	50
1029653	6733135	50
1032451	6731667	50
1033245	6731053	50
1033384	6730677	50

Schedule 3: Monitoring bore information

The location of groundwater monitoring bores is defined by the coordinates in Table 14.

Table 14: Groundwater monitoring bore coordinates (GDA94) and depths

Bore ID	Easting	Northing	Depth of bore hole (mbgl) ¹
GW1	445185.96	6750710.63	>9.7
GW2	445215.24	6750677.53	>7.63
GW3	444980.54	6751042.05	>6.60
GW4	444960.86	6751097.35	>6.6
GW6	445262.16	6751010.17	>6.9
GW7	444923.60	6750775.84	>7.4

Note 1: Depth of bore hole based on using standing water level monitoring data.