

## Licence

Licence number L8306/2008/3

Licence holder Newmont Boddington Gold Pty Ltd

**ACN** 101 199 731

Level 5, 500 Hay Street Registered business address

SUBIACO WA 6008

**DWER file number** INS-0001507

**Duration** 1/05/2023 to 30/04/2043

Date of issue 26/04/2023

Date of amendment 13/08/2025

**Premises details Newmont Boddington Gold Mine** 

Gold Mine Road, BODDINGTON WA 6390

Legal description -

As defined by the tenements listed in Schedule 1:

Maps.

Prescribed premises category description (Schedule 1, Environmental Protection Regulations 1987)	Assessed production / design capacity
Category 5: Processing or beneficiation of metallic or non-metallic ore	45,000,000 tonnes per annual period
Category 6: Mine dewatering	4,000,000 tonnes per annual period
Category 33: Chemical blending or mixing	35,000 tonnes per annual period
Category 54: Sewage facility	270 cubic metres per day
Category 57: Used tyre storage (general)	100 tyres
Category 63: Class I inert landfill site	2,000 tonnes per annual period
Category 73: Bulk storage of chemicals etc	6,000 cubic metres in aggregate

This amended licence is granted to the licence holder, subject to the attached conditions, on 13 August 2025 by:

MANAGER, RESOURCE INDUSTRIES ENVIRONMENTAL REGULATION (STATEWIDE DELIVERY)

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

# **Premises instrument history**

Date	Reference number	Summary of changes
22 May 2006	W6227/2006/1	Works Approval granted for the expansion of the existing RDA to facilitate recommencement of operations.
21 December 2006	W4295/2006/1	Works Approval granted for construction of accommodation village sewage facility.
15 February 2007	W4313/2006/1	Works Approval granted for construction of the processing plant.
1 May 2009	L8306/2008/1	Licence granted.
23 April 2014	L8306/2008/2	Licence reissued, including licence holder amendment and DWER licence review, issued in REFIRE format.
12 March 2015	L8306/2008/2	Amendment authorising Stage 7 to Stage 11 RDA embankment lifts and administrative corrections.
28 March 2019	L8306/2008/2	Amendment Notice 1, including licence review and operational changes.
7 May 2020	L8306/2008/2	Amendment to address matters subject to an appeal by the licence holder of conditions 1.3.1, 1.3.2, 3.8.1, 3.8.2 and 4.1.1 that were amended in Amendment Notice 1.
		Updated to current licence format, with minor errors corrected.
21 April 2021	L8306/2008/2	Amendment to increase throughput of processing plant to 45,000,000 tonnes per annual period, authorising construction of Stage 14 to Stage 18 lifts to F1/F3 RDA embankments, including further monitoring locations around F1/F3 RDA and including bioremediation facility.
11 February 2022	L8306/2008/2	Amendment to include details of the Stage 15 to Stage 18 Design Report for F1/F3 RDA.
		Amendment to allow for operation of Stage 16 of F1/F3 RDA once construction of that stage has been completed.
		Amendment to authorise construction of a temporary sump SD8SU-D1 to replace SD8SU-D when that sump is covered by earthworks of the Saddle Dam 8 buttress.
26 April 2023	L8306/2008/3	Licence renewed.
		Amendment to allow for operation of Stage 17 and 18 of F1/F3 RDA once construction of that stage has been completed.
		Amendment to authorise Thirty-Four Mile Brook Diversion Pond for discharge of mine dewater.
22 March 2024	L8306/2008/3	Amendment to extend the submission date of AER and AACR from 90 days to six months after the end of each annual period.
13 August 2025	L8306/2008/3	Amendment (APP-0026065) to authorise construction and operation of F1 RDA Stage 19 to Stage 22 embankment raises.
		CEO-initiated licence review on F1 RDA and R4 RDA.

## 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 is authorised to:
  - (a) construct embankment raises for the infrastructure listed in Table 1 to the construction height; and
  - (b) operate the infrastructure listed in Table 1 to the operating height, only when the Environmental Compliance Report as required by condition 38 has been submitted by the licence holder for that stage,

as specified in Table 1.

Table 1: Staged construction and operating heights

Infrastructure	Stage	Maximum construction height (m RL)	Maximum operating height (m RL) <sup>1</sup>
F1 RDA	14	350.5	350.5
	15	353.0	353.0
	16	355.5	355.5
	17	358.0	358.0
	18	361.0	361.0
	19	363.2	363.2
	20	365.7	365.7
	21	368.2	368.2
	22	369.9	369.9

Note 1: Maximum operating height must take into consideration freeboard requirements specified in condition 5.

- 2. The licence holder must ensure that all pipelines containing tailings residue or residue water, as depicted in Figure 4 of Schedule 1: Maps, are either:
  - (a) equipped with telemetry systems and pressure sensors along pipelines to allow the detection of leaks and failures;
  - (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.
- 3. The licence holder must ensure that waste disposed within the Contaminated Rock Facility and waste tyre disposal area, as depicted in Figure 6 of Schedule 1: Maps, must only comprise of:
  - (a) waste rock, including hydrocarbon contaminated waste rock;
  - (b) conveyor belt;
  - (c) oversized tyres, if:
    - (i) they are placed on the bottom of each bench with one batch height per bench:
    - (ii) batches are no more than 3 oversize tyres;

- (iii) batches are separated from one another by at least 1m;
- (iv) no oversized tyres are deposited within 50 m of the final toes of each bench; and
- (v) each bench shall be covered with 15 m of waste rock.
- (d) hydrocarbon contaminated soils and sediments stored within bioremediation cells within the Contaminated Blue Rock Facility. Bioremediation cells must be constructed with:
  - (i) 2m-deep compacted oxide floor that drains to a bunded evaporation sump that collects surface water from within the cell; and
  - (ii) three external bund walls around the perimeter of the cell to separate external runoff from the cell.
- 4. The licence holder must ensure that tailings, decant water, contaminated storm water and waste water treatment plant effluent are only discharged into containment infrastructure with the relevant infrastructure requirements and maintained and at the locations specified in Table 2.

**Table 2: Containment infrastructure** 

Containment infrastructure	Infrastructure location	Material accepted	Infrastructure requirements
F1 RDA	Labelled as 'F1 RDA', as depicted in Figure 3 of Schedule 1: Maps.	<ul> <li>Residue tailings generated from gold and copper production and associated activities.</li> <li>Water collected from F1 RDA underdrainage system, LCRS, beach drainage.</li> <li>Water collected from perimeter sump SD8SU-C2.</li> <li>Residue tailings from Catch Pit 1 and Catch Pit 2.</li> </ul>	Lined with a drainage layer, geomembrane (synthetic liner) with permeability equivalent to 1x10 <sup>-13</sup> m/s and a compacted clay liner with a permeability of not more than that exhibited by 300mm of 1x10 <sup>-8</sup> m/s.  The area outside the decant pond shall be lined with a system of seepage containment comparable to that of a compacted clay liner with a permeability of not more than that exhibited by 300mm of 1x10 <sup>-8</sup> m/s. Supplemental controls to include cutoff trenches, underdrainage solution collection pipes.
R4 RDA	Labelled as 'R4 RDA', as depicted in Figure 3 of Schedule 1: Maps.	Treated wastewater from sewage facilities within the premises and the Boddington Waste Water Treatment Plant.  Residue tailings waste water from Catch Pit 3 and/or Catch Pit 4.  Water from F1 RDA toe wells and perimeter sumps (SD3SU-A, SD3SU-B, SD3SU-B, SD3SU-B, SD5SU-A, SD5SU-B, SD7SU-A, SD7SU-B, SD7SU-A, SD7SU-B, SD8SU-C, SD8SU-D1).  Water from underdrainage system, LCRS, perimeter sump SD8SU-C2 and beach	Constructed from an in situ clay blanket capped by 1m of consolidated residue with a modelled permeability of 1.0 x 10 <sup>-8</sup> m/s.

Containment infrastructure	Infrastructure location	Material accepted	Infrastructure requirements
		drainage from F1 RDA into R4 RDA is only permitted according to condition 11.	
F1 RDA perimeter sumps  1. SD3SU-A  2. SD3SU-B  3. SD3SU-C  4. SD4SU-B  5. SD5SU-A  6. SD5SU-B  7. SD7SU-A  8. SD7SU-B  9. SD8SU-C  10. SD8SU-C2  11. SD8SU-D1	As labelled and depicted in Figure 3 of Schedule 1: Maps.	Water accumulated within the sump by toe drain water, groundwater and surface water inflows.  Tailings water from the F1 RDA beach drain (at SD8SU-C2 only).	Unlined with incorporated pumping system.
<ul><li>Catchpit 1</li><li>Catchpit 2</li><li>Catchpit 3</li><li>Catchpit 4</li></ul>	As labelled and depicted in Figure 4 of Schedule 1: Maps.	<ul> <li>Tailings slurry.</li> <li>Return water.</li> <li>Tailings residue and water from pipeline flushing.</li> </ul>	First stage concrete lined, second stage clay lined, with incorporated pumping system.
Process Water Pond	Labelled as 'Process Water Pond', as depicted in Figure 4 of Schedule 1: Maps.	Return water from F1 RDA and R4 RDA, water from the Impacted Water Sump, Thirty- Four Mile Brook Diversion Pond and South Clear Water Pond.	Earth fill embankment with a double HDPE liner.
Storm Water Pond Number 1	Labelled as 'Stormwater Pond 1', as depicted in Figure 4 of Schedule 1: Maps.	Contaminated stormwater.  Treated sewage wastewater from sewage facilities within the premises and the Boddington Wastewater Treatment Plant.	HDPE lined.
Storm Water Pond Number 2	Labelled as 'Stormwater Pond 2', as depicted in Figure 4 of Schedule 1: Maps.	Contaminated stormwater.	HDPE lined.
CIL Containment Sump	Labelled as 'CIL Containment Sump', as depicted in Figure 4 of Schedule 1: Maps.	Stormwater from the area surrounding the Carbon in Leach Area.  Residue tailings generated from gold and copper production and associated activities.	Constructed within a concrete bund.

Containment infrastructure	Infrastructure location	Material accepted	Infrastructure requirements	
South Clear Water Pond	Labelled as 'South Clear Water Pond', as depicted in Figure 2 of Schedule 1: Maps.	Wandoo South Pit dewatering and Waste Rock Dump runoff.	Low strength shale rock at depth greater than 8m overlain by clay / silt material from 2.5m to 8m depth with clay core embankments.	
Thirty-Four Mile Brook Diversion Pond	Labelled as '34 Mile Brook Diversion Pond', as depicted in Figure 2 of Schedule 1: Maps.	Wandoo North Pit dewatering.	Clay lining must be maintained.  Spillway to North Wandoo pit must be maintained.	
North Wandoo Pit	Labelled as 'North Wandoo Pit', as depicted in Figure 2 of Schedule 1: Maps.	Overflow from Thirty-Four Mile Brook Diversion Pond, including Wandoo North Pit dewatering.	Emergency discharge location for receiving overflow from Thirty-Four Mile Brook Diversion Pond via spillway.	
No. 7 Eastern Drain	Labelled as 'No. 7 Eastern Drain', as depicted in Figure 5 of Schedule 1: Maps.	Surface runoff from No.7 Waste Rock Dump.	Rip rap lined rectangular open channel.	
Number 9 Drain and Sediment Ponds	Labelled as 'No. 9 Drain and Sediment Ponds', as depicted in Figure 5 of Schedule 1: Maps.	Runoff from No. 9 Waste Rock Dump.	Cut in situ rectangular open channel.	
Impacted Water Drains (IWD01, IWD 02 and IWD03)	As labelled and depicted in Figure 5 of Schedule 1: Maps.	WRD seepage water.	Rock filled trenches incorporating slotted HDPE drainage pipe.	
Cut-off Trench 01	Labelled as 'Cut-off Trench 01' as depicted in Figure 5 of Schedule 1: Maps.	WRD seepage water.	Rock filled trench incorporating slotted HDPE drainage pipe.	
Mine Water Drain 05	Labelled as 'Mine Water Drain 05' as depicted in Figure 5 of Schedule 1: Maps	Mine runoff water.	Cut in situ, rectangular open channel.	
Wet Well Dike (WWD)	Labelled as 'Wet Well Dyke Embankment' as depicted in Figure 5 of Schedule 1: Maps	WRD Seepage water.	Earth fill embankment with a compacted clay core and a low-permeability cut-off barrier underlain.	

**5.** The licence holder must ensure that a freeboard equal to or greater than that specified in Table 3 is maintained for each containment infrastructure specified in Table 3.

**Table 3: Freeboard requirements** 

Containment infrastructure	Infrastructure location	Freeboard requirement	
F1 RDA	As labelled and depicted in	500 mm	
R4 RDA	Figure 3 of Schedule 1: Maps.		
F1 RDA perimeter sumps	As labelled and depicted in Figure 3 of Schedule 1: Maps.	300 mm	
Catch Pits 1, 2, 3 and 4	As labelled and depicted in		
Process Water Pond	Figure 4 of Schedule 1: Maps.		
Storm Water Pond Number 1			
Storm Water Pond Number 2			
Carbon in Leach Containment Sump			

- **6.** The licence holder must only accept waste if:
  - (a) it is of a type listed in Table 4;
  - (b) the quantity accepted is below any quantity limit listed in Table 4;
  - (c) it meets any specification listed in Table 4.

**Table 4: Waste acceptance** 

Waste type	Quantity limit	Specification
Inert Waste Type 1 <sup>1</sup>	2,000 tonnes per	None specified.
Inert Waste Type 2 <sup>1</sup>	annual period (cumulatively)	Plastic only (excluding used tyres)
Clean Fill <sup>1</sup>		None specified.
Controlled Waste Category K130: Sewage waste from reticulated sewage system	270 cubic metres per day (cumulatively)	Accepted through sewer inflow(s) only.
Controlled Waste Category K210: Septage wastes		Tankered into the premises and discharged in the pre-treatment area (as marked on Figure 2 in Schedule 1: Maps) via an enclosed pipeline.
		Tankered into the premises and discharged via the Pump Station receivable point.
Vegetable and food processing liquid wastes		None specified.
Controlled Waste Category L150: Industrial wash water contaminated with a controlled waste	None specified	Washdown water generated from the ship loading of Newmont Boddington Gold products at Bunbury Port.
Hydrocarbon contaminated material	1,600 m <sup>3</sup>	Material treated by bioremediation within the Bioremediation Facility to the specifications as required in condition 13.

Note 1: Definitions for waste type are specified in the Landfill Waste Classification and Waste Definitions 1996 (as amended 2019).

7. The licence holder must ensure that wastes accepted at the inert landfill are only subjected to the process(es) set out in Table 5 and in accordance with any process limits described in Table 5.

**Table 5: Waste processing** 

Waste type <sup>1</sup>	Activity	Process specifications <sup>2,3</sup>			
Clean Fill	Receipt, handling	(1)	Dispose of waste by landfilling must only take place within the		
Inert Waste	and disposal of waste produced at		Inert Landfill depicted in Figure 6 in Schedule 1: Maps; and		
Type 1	the premises.	(2)	(2)	(2)	The separation distance between the base of the landfill and
Inert Waste Type 2			the highest groundwater level shall not be less than 2m.		
Special Waste Type 1		(1)	To be removed from site to a licensed facility.		

- Note 1: Definitions for waste type are specified in the Landfill Waste Classification and Waste Definitions 1996 (as amended 2019).
- Note 2: Requirements for landfilling tyres are specified in Part 6 of the Environmental Protection Regulations 1987.

  Note 3: Additional requirements for the acceptance and landfilling of controlled waste (including as
- **8.** The licence holder must manage the landfilling activities to ensure:
  - (a) waste is levelled and compacted as soon as practicable after it is discharged;
  - (b) waste is placed and compacted to ensure all faces are stable and capable of retaining restoration material; and
  - (c) restoration of the landfill takes place within six months after disposal in that landfill has been completed.
- **9.** The licence holder is permitted to burn timber that cannot be reasonably and practicably removed from the premises, if:
  - (a) it is performed in a designated burning area with the burn pit identified on Figure 6 in Schedule 1: Maps;
  - (b) the timber is free of treated timbers;
  - (c) it is burnt quickly and in such a way that the generation of smoke is minimised; burning does not commence before 0800 and the Fire Control Officer for the premises declares the area safe by the end of shift at the end of the same day; and
  - (d) there is present in the area from the time burning commences until the Fire Control Officer for the Premises declares the area safe:
    - (i) a fire fighting vehicle carrying at least 500 litres of water, fitted with at least 30 m of 19 mm diameter rubber hose and with a pump capacity capable of delivering a minimum 250 litres of water per minute at a minimum of 700 kPa through a nozzle capable of projecting water by spray or by jet; and
    - (ii) two persons, who have such qualifications in firefighting.
- **10.** The licence holder must:
  - (a) undertake inspections as detailed in Table 6; and
  - (b) where any inspection identified 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 record of all inspections undertaken.

**Table 6: Inspection of infrastructure** 

Scope of inspection	Infrastructure location	Type of inspection	Frequency of inspection
Tailings pipelines	Labelled as 'Tailings and process water return line bunded corridor', as depicted in Figure 4 of Schedule 1: Maps.	Visual integrity.	Twice daily
Return water lines	Labelled as 'Tailings and process water return line bunded corridor', as depicted in Figure 4 of Schedule 1: Maps.	Visual integrity.	Twice daily
F1 RDA and R4 RDA	Labelled as 'F1 RDA' and 'R4 RDA', as depicted in Figure 3 of Schedule 1: Maps.	<ul> <li>Visual inspection for freeboard.</li> <li>Visual inspection for bird or wildlife mortality.</li> </ul>	Daily
F1 RDA decant pond	Labelled as 'Decant Pond Pump Station', as depicted in Figure 3 of Schedule 1: Maps.	<ul> <li>Visual integrity of decant pump, underdrainage system, LCRS, and beach drainage.</li> <li>Visual for decant pond size and location.</li> </ul>	Daily
		<ul> <li>Survey of decant pond elevation; and</li> <li>Visual integrity of HDPE liner.</li> </ul>	Weekly
		<ul> <li>Survey of tailings beach; and</li> <li>Bathymetric survey of decant pond.</li> </ul>	Quarterly

Note 1: Freeboard requirements specified in condition 10.

- **11.** The licence holder is permitted to discharge seepage collected from the underdrainage, beach drainage and leachate collection recovery systems to R4 RDA in the following circumstances:
  - (a) when the F1 RDA decant pond volume is anticipated to reach the Target Limit (as defined in Table 22); and
  - (b) notification has been made to the CEO in accordance with condition 41.
- **12.** The licence holder must ensure that the waste types specified in Table 7 are only subjected to the corresponding process, subject to the corresponding process limits and/or specifications.

#### **Table 7: Waste processing**

Waste type	Process	Process limits and/or specifications
Hydrocarbon contaminated soils other than those treated in the Contaminated Blue Rock Facility	Bioremediation	<ul> <li>(1) Must be treated and retained in the bioremediation facility until the treated material meets TRH concentrations below the Screening Levels for commercial/industrial premises, NEPM (Assessment of Site Contamination).</li> <li>(2) If the above limits are not met disposal must be by a licensed Controlled Waste carrier and according to the Environmental Protection (Controlled Waste) Regulations 2004.</li> </ul>
	Disposal to:  Inert landfill,  Contaminated Blue Rock Facility.	(1) TRH concentrations below the Ecological Screening Levels for commercial/industrial premises according to the NEPM (Assessment of Site Contamination).

13. The licence holder must ensure that the infrastructure and equipment listed in Table 8 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 8.

Table 8: Infrastructure and equipment requirement

Site infrastructure and equipment	Ope	rational requirement	Infrastructure location
F1 RDA	(1)	HDPE clay liner system must be maintained.	Labelled as 'F1 RDA', as depicted
	(2)	Decant water recovery at the decant pond must be maximised at all times.	in Figure 3 of Schedule 1:
	(3)	Decant pond size must be maintained as small as possible during operation and must not exceed the extent of the underlying HDPE liner during normal operation and for storm events up to 25-year ARI for up to 24 hours.	Maps.
	(4)	A minimum separation distance of 200 m must be maintained between the decant pond boundary and all saddle dams.	
	(5)	The F1 RDA underdrainage system, LCRS, beach drainage must be maintained, with collected water pumped to the decant pond for recovery.	
	(6)	Tailings slurry must be treated with Caro's acid prior to discharge at the F1 RDA.	
R4 RDA	pumping system at the decant pond.		Labelled as 'R4 RDA', as depicted in Figure 3 of
	(2)	The R4 RDA underdrainage system must be maintained, with collected water pumped to the decant pond for recovery.	Schedule 1: Maps.

Site infrastructure and equipment	Ope	rational requirement	Infrastructure location
F1 RDA perimeter sumps (comprising 11 individual sumps	(1)	Perimeter sump must be operated, and if needed, modified, to maintain unsaturated ground conditions around the F1 RDA perimeter.	As labelled and depicted in Figure 3 of Schedule 1: Maps.
listed in Table 2)	(2)	Nominal storage capacity of perimeter sump must be no less than specified:	iviaps.
		(a) SD3SU-A – 3,900 m <sup>3</sup> ;	
		(b) SD3SU-B – 15,000 m <sup>3</sup> ;	
		(c) SD3SU-C – 17,900 m <sup>3</sup> ;	
		(d) SD4SU-B – 10,000 m <sup>3</sup> ;	
		(e) SD5SU-A – 20,600 m <sup>3</sup> ;	
		(f) SD5SU-B $- 33,500 \text{ m}^3$ ;	
		(g) SD7SU-A – $7,800 \text{ m}^3$ ;	
		(h) SD7SU-B $-9,700 \text{ m}^3$ ;	
		(i) SD8SU-C $- 1,900 \text{ m}^3$ ;	
		(j) SD8SU-C2 – 1,100 $m^3$ ;	
		(k) SD8SU-D1 $- 45,900 \text{ m}^3$ .	
	(1) Pumping equipment at each perimeter sump must be maintained and operated to ensure perimeter sumps do not overtop.		
	(2)	Sump water must be pumped to either the R4 RDA or Process Water Pond and must not be discharged to the environment.	
	(3)	Sump water from SD8SU-C2 must be pumped to the F1 RDA, or in the event where the requirements of condition 11 are met, the R4 RDA.	
Catchpits (comprising four individual	(1)	First-stage concrete liner and second-stage clay liner must be maintained.	As labelled and depicted in Figure 4 of Schedule 1:
catchpits individual listed in Table 2)	(2)	Tailings slurry and tailings residue within the catchpits must not be discharged to the environment and may only be discharged to R4 RDA, subject to limit specified in condition 26.	Maps.
Bioremediation facility	(1)	Only hydrocarbon contaminated material generated on the premises is accepted for treatment in the facility.	'Bioremediation
	(2)	Water from the evaporation sumps must be treated through an oil water separator prior to discharge to the process pond.	Facility', as depicted in Figure 6 of Schedule 1: Maps.
	(3)	Each cell must have:	
		<ul> <li>(a) A HDPE lined evaporation sump 2 m deep with a gradient sufficient to direct all surface water the sumps.</li> </ul>	
		(b) Three bund walls around each cell 2.5 m high.	
		(c) Sloped to prevent uncontaminated water entering the cells.	

#### **Construction phase**

14. The licence holder must construct the Stage 15 to Stage 18 embankment raises to

the F1 RDA in accordance with the documentation detailed in Table 9.

Table 9: Construction requirements for raises to F1 RDA

Document	Parts	Date of document
F1/F3 Residue disposal area: Stage 15 – Stage 18 Design Report	All	10 August 2021

#### **15.** The licence holder must:

- (a) construct and/or install the infrastructure;
- (b) in accordance with the corresponding design and construction requirements;
- (c) at the corresponding infrastructure location; and
- (d) within the corresponding timeframe,

as set out in Table 10.

Table 10: Design and construction requirements

Item	Infrastructure	Design and construction requirement	Infrastructure location	Timeframe
1	SD8SU-D1	<ul> <li>Unlined with incorporated pumping system.</li> <li>Sized to contain the same volume of seepage as currently contained within SD8SU-D.</li> </ul>	Located approximately 150 m to the south of the existing sump SD8SU-D, on the outer perimeter of the F1 RDA.	None specified.
2	Perimeter sump SD3SU-B	<ul> <li>Perimeter sump must be constructed as deep as practicable, with a minimum depth of 5 mbgl.</li> <li>Perimeter sump must be constructed with a storage capacity of no less than 15,000 m³.</li> <li>Equipped with pumping system and pipelines for discharge to R4 RDA.</li> </ul>	Labelled as 'SD3SU-B', as depicted in Figure 3 of Schedule 1: Maps.	Prior to operation (i.e., tailings deposition) of F1 RDA Stage 19 embankment raise.
2	Thirty-Four Mille Brook Diversion Pond spillway	<ul> <li>Spillway constructed at RL 237 m of Thirty-Four Mile Brook Diversion Pond;</li> <li>Width at base is 10 m, with total depth of 1 m;</li> <li>Comprise a 500mm-thick grouted riprap apron;</li> <li>Spillway linked directly into drain constructed in oxide fill, directed towards discharge at North Wandoo Pit.</li> </ul>	Located between Thirty- Four Mile Brook Diversion Pond and North Wandoo Pit.	None specified.
3	F1 RDA Stage 19 embankment raise	Embankment raise (and starter embankments) must be constructed in accordance with specifications in the	Labelled as 'F1 RDA', as depicted in	None specified.
4	F1 RDA Stage 20 embankment raise	F1/F3 RDA Stage 19-22 Design Report, including:  o Embankment raise material must be moisture conditioned and compacted	Figure 3 of Schedule 1: Maps.	
5	F1 RDA Stage 21 embankment raise	to 98% SMDD (± 2% OMC) in nominally 300 mm lifts.		

Item	Infrastructure	Design and construction requirement	Infrastructure location	Timeframe
6	F1 RDA Stage 22 embankment raise	<ul> <li>Upstream and downstream embankment slope constructed to 1V:2H and 1V:3H, respectively.</li> <li>Embankment crest must have 2%</li> </ul>		
		crossfall towards the upstream embankment.		
		<ul> <li>Bunding with nominal height of 750 mm must be constructed on the downstream crest.</li> </ul>		
		<ul> <li>Benches must be constructed to nominal width of 5,000 mm, slightly sloping towards the downstream embankment.</li> </ul>		
		<ul> <li>Starter embankments must be equipped with a cut-off trench, constructed in accordance with specifications in the F1/F3 RDA Stage 19-22 Design Report, including:</li> </ul>		
		<ul> <li>Minimum depth of 500 mm within the underlying natural clay lithology.</li> </ul>		
		<ul> <li>Nominal trench width of 4,000 mm.</li> </ul>		
		<ul> <li>Backfilled with low permeability fill.</li> </ul>		
		<ul> <li>Liner must be expanded along the western embankments of the F1 RDA in accordance with specifications in the F1/F3 RDA Stage 19-22 Design Report, including:</li> </ul>		
		<ul> <li>Lined with 300 mm of compacted low permeability fill.</li> </ul>		
		<ul> <li>Overlain with HDPE liner with thickness of at least 1.5 mm.</li> </ul>		
		<ul> <li>Minimum slope of 1V:400H towards the tailings beach.</li> </ul>		
		<ul> <li>Extent of HDPE liner must encompass areas specified in Figure 12 of Schedule 2: Construction drawings for the relevant stage of embankment raise.</li> </ul>		
		<ul> <li>During each embankment raise, the underdrainage system must be extended in accordance with specifications in the F1/F3 RDA Stage 19-22 Design Report, including:</li> </ul>		
		<ul> <li>By installing perforated drainage pipes with filter socks in 50 mm centres on HDPE liner, where required.</li> </ul>		
		<ul> <li>During each embankment raise, the tower drain towers must be raised using concrete pipes in accordance with specifications in the F1/F3 RDA Stage 19-22 Design Report, where required.</li> </ul>		
		<ul> <li>During each embankment raise, beach drain pipes must be extended in accordance with specifications in the F1/F3 RDA Stage 19-22 Design Report, where required.</li> </ul>		
		Embankment buttressing and extension		

Item	Infrastructure	Design and construction requirement	Infrastructure location	Timeframe
		of base buttress must be constructed in accordance with specifications in the F1/F3 RDA Stage 19-22 Design Report, including:  Constructed using structural fill (e.g., sand, gravel, waste rock, oxide, hardpan or clay).  Extension of the base buttress must		
		consist of approximately 250 mm thick sand filter medium, followed by approximately 250 mm thick gravel drainage medium at the base.		
		<ul> <li>Buttress must have 2% crossfall towards the downstream embankment.</li> </ul>		
		<ul> <li>Bunding with nominal height of 1,000 mm must be constructed on the downstream end.</li> </ul>		
		<ul> <li>Breaks must be constructed at approximately 50 m intervals in the buttress bunding to allow for drainage.</li> </ul>		
		Water cart must be used for dust suppression during construction activities, where required to manage fugitive dust.		
7	F1 RDA emergency spillway	Spillway may be constructed on the Stage 19, 20, 21, or 22 embankment raises.	As labelled and depicted in Figure 11 of	None.
		Spillway must be constructed at the saddle between Saddle Dam 2 and the Wattle Pit embankment, with the channel leading into the D1 Dam.	Schedule 1: Maps.	
		Spillway and spillway channel base must be scarified, moisture conditioned, and compacted to 95% SMDD (± 2% OMC) to a depth of at least 300 mm.		
		Spillway and spillway channel must be lined with geotextile, followed by an erosion protection layer with a nominal thickness of 500 mm.		
		Spillway must contain sufficient capacity to contain flow rate of 11 m³/s.		
		Water cart must be used for dust suppression during construction activities, where required to manage fugitive dust.		

**16.** The licence holder must design, construct, and install groundwater monitoring bores in accordance with requirements specified in Table 11.

Table 11: Infrastructure requirements – groundwater monitoring bores

Infrastructure	Design, construction, and installation requirements	Monitoring bore location	Timeframe
Replacement operational	Well design and construction:  Designed and constructed in accordance with	Indicative locations as	Must be constructed,

Infrastructure	Design, construction, and installation requirements	Monitoring bore location	Timeframe
monitoring bores: 1. F1BR22S-2; 2. F1BR22D; 3. F1BR23D; 4. F1BR23D; 5. F1BR24S; 6. F1BR24D-2; 7. F1BR25S;	ASTM D5092/D5092M-16.  Bore screens for target the part, or parts, of the following aquifers:  (i) Bores with S-suffix must target seasonal shallow groundwater system;  (j) Bores with D-suffix must target weathered and fractured bedrock groundwater system.  Logging of borehole	labelled and depicted in Figure 9 of Schedule 1: Maps.	developed (purged), and determined to be operational prior to the decommissioning of corresponding existing operational monitoring bores.
8. F1BR25D-2; 9. F1BR26S-2; 10. F1BR26D; 11. F1BR29S; 12. F1BR29D; 13. F1BR35S; 14. F1BR35D; 15. F1BR38S-2;	Soil samples must be collected and logged during the installation of the monitoring bores.  A record of the geology encountered during drilling must be described and classified in accordance with the AS 1726.  Any observations of staining, odours or other indications of contamination must be included in the bore log.  Bore construction log		
16. F1BR38D.	Bore construction details must be documented within a bore construction log to demonstrate compliance with <i>ASTM D5092/D5092M-16</i> . The construction logs must include elevations of the top of casing position to be used as the reference point for standing water level measurements, and the elevations of the ground surface protective installations.		
Regional monitoring bores: 17. F1BR49S; 18. F1BR49D; 19. F1BR50S; 20. F1BR50D; 21. F1BR51S; 22. F1BR51D; 23. F1BR52S; 24. F1BR52D; 25. F1BR53S;	Bore development  All installed monitoring bores must be developed after drilling to remove fine sand, silt, clay, and any drilling mud residues from around the bore screen to ensure the hydraulic functioning of the bore.  A detailed record must be kept of bore development activities and included in the bore construction log.  Installation survey  The vertical (top of casing) and horizontal position of each monitoring bore must be surveyed and subsequently mapped by a suitably qualified		Must be constructed, developed (purged), and determined to be operational prior to operation (i.e., tailings deposition) of the F1 RDA Stage 19 embankment raise.
26. F1BR53D; 27. F1BR54S; 28. F1BR54D.	Bore network map A bore location map (using aerial image overlay) must be prepared and include the location of all monitoring bores in the monitoring network and their respective identification numbers.		

## **Emissions and discharges**

#### Air emissions

17. The licence holder must ensure that the emissions specified in Table 12 are discharged only from the corresponding emission location and at the corresponding height specified in Table 12.

#### Table 12: Point source emissions to air

Emission point reference	Emission point	Emission point height (m)	Source, including any abatement	Emission infrastructure location
A1	Secondary crushing circuit	7	Secondary crushing circuit via bag filters.	As labelled and depicted in Figure 7 of Schedule 1: Maps
A2	Coarse screening circuit		Coarse screening circuit via bag filters.	
A3	Tertiary crushing circuit		Tertiary screening circuit via bag filters.	
A4	Fine Ore Bin 1 (625- BIN-1-01) vent	28	Cyclone feed sump/ fine	
A5	Fine Ore Bin 2 (625- BIN-2-01) vent		screening area, including water sprays	
A6	Fine Ore Bin 3 (625- BIN-3-01) vent			
A7	Fine Ore Bin 4 (625- BIN-4-01) vent			
A13	Carbon regeneration kiln 1 stack	22	Carbon regeneration kiln 1.	
A14	Carbon regeneration kiln 2 stack		Carbon regeneration kiln 2.	
A15	Bullion smelting furnace room stack	17	Bullion smelting furnace.	
A24	Elution vessels and gas- fired heaters exhaust duct	16.45	Elution vessels and gas-fired heaters.	
A25	Electrolyte and electrowinning cells vent	19	Electrolyte and electrowinning cells.	
A26	Cyanide destruction circuit vent	11	Cyanide destruction circuit.	Labelled as 'Caros Acid Cyanide Destruct System', as depicted in Figure 3 of Schedule 1: Maps.

#### **Fugitive dust emissions**

**18.** The licence holder must use all reasonable and practical measures to prevent, and where that is not practicable, to minimise, dust emissions from the premises.

#### **Odour emissions**

19. The licence holder must ensure that odour emitted from the premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the premises.

## **Monitoring**

- **20.** The licence holder must ensure that:
  - (a) all water and sediment samples are collected and preserved in accordance with AS/NZS 5667.1;
  - (b) all surface water sampling is conducted in accordance with AS/NZS 5667.6;
  - (c) all groundwater sampling is conducted in accordance with AS/NZS 5667.11;
  - (d) all sediment sampling is conducted in accordance with AS/NZS 5667.12;
  - (e) all stack air sampling is conducted in accordance with AS 4323.1;
  - (f) all non-continuous sampling and analysis of stack air quality are undertaken by a holder of NATA accreditation for the relevant methods of sampling and analysis; and
  - (g) all laboratory samples are submitted to a laboratory with current NATA accreditation for the parameters relevant parameters measured.
- **21.** The licence holder must ensure that:
  - (a) monthly monitoring is undertaken at least 15 days apart;
  - (b) quarterly monitoring is undertaken at least 45 days apart;
  - (c) six monthly monitoring is undertaken at least five months apart; and
  - (d) annual monitoring is undertaken at least nine months apart.
- 22. The licence holder must ensure that all monitoring equipment used on the premises to comply with conditions 27, 28 and 29 is calibrated in accordance with the manufacturer's specifications.
- 23. The licence holder must, 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.

#### **Process monitoring**

- **24.** The licence holder must record production or throughput data and any other process parameters to any non-continuous monitoring undertaken.
- **25.** The licence holder must undertake monitoring of the water balance for F1 RDA each quarterly period and, as a minimum, record the following information:
  - (a) volume of tailings stored in the F1 RDA;
  - (b) tailings volume discharged to the F1 RDA;
  - (c) estimated water volume in tailings discharged to the F1 RDA;
  - (d) tailings water returned to the processing plant;
  - (e) volumes of seepage underdrainage collected from the underdrainage and LCRS and returned to the F1 RDA;
  - (f) volumes of beach drainage returned to F1 RDA;
  - (g) volumes of perimeter sump water returned to F1 RDA;
  - (h) volumes of perimeter sump water discharged to R4 RDA;
  - (i) rainfall;
  - (j) evaporation; and

- (k) estimated seepage, derived as the residual between the sum of all water input components [i.e., (c), (e), (f), (g), (i)] and the sum of all water output components [i.e., (d), (e), (j)].
- **26.** The licence holder must undertake the monitoring specified in Table 13 and record and investigate results that do not meet any limit specified.

**Table 13: Process monitoring** 

Monitorin g point	Monitoring location	Process description	Parameter	Unit	Frequency	Limit	Method
Residue booster station	Labelled as 'Caros Acid Cyanide Destruct System', as depicted in Figure 3 of Schedule 1: Maps.	Tailings slurry to be discharged at F1 RDA.	WAD cyanide	mg/L	No less than every 15 minutes	50 (60- minute averaging period)	Continuous WAD cyanide analyser
Catch Pit 3	As labelled	Tailings slurry.		Prior to a	50	None	
Catch Pit 4	and depicted in Figure 4 of				discharge event to R4 RDA		specified
	Schedule 1: Maps.	<ul> <li>Return water.</li> </ul>					
	Mapo.	Tailings residue and water from pipeline flushing.					

#### **Air monitoring**

**27.** The licence holder must undertake the monitoring in Table 14 according to the specifications in that table.

Table 14: Monitoring of point source emissions to air

refe dep	ssion point rence, as icted in Figure Schedule 1: os	Parameter	Units <sup>1</sup>	Averaging period	Frequency <sup>2</sup>	Method
(1)	Secondary crushing circuit (A1);	РМ				USEPA Method 5 or USEPA Method 17
(2)	Coarse screening circuit (A2);	PM <sub>10</sub>				USEPA Method 201A <sup>3</sup>
(3)	Tertiary crushing circuit (A3);		mg/m³ g/s	Stack Test (60-minute average)	Six monthly	
(4)	Carbon regeneration kiln 1 stack (A13);					
(5)	Carbon regeneration					

refe dep	ission point erence, as icted in Figure Schedule 1: os	Parameter	Units <sup>1</sup>	Averaging period	Frequency <sup>2</sup>	Method
(6)	kiln 2 stack (A14); Bullion smelting furnace room stack (A15).					
(1)	Carbon regeneration kiln 1 stack	Sulfur dioxide				USEPA Method 6, 6C or 8
(2) (3) (4)	(A13) Carbon regeneration kiln 2 stack(A14) and Bullion smelting furnace room	NOx		Stack test (30-minute average)		USEPA Method 7E
(1)	stack (A15) Bullion	Benzene				
(-)	smelting furnace room stack (A15)		μg/m³ g/s			USEPA Method 18

#### Water monitoring

28. The licence holder must undertake the monitoring specified in Table 15 and record and investigate results that do not meet any target and/or limit specified.

Table 15: Monitoring of surface water quality

Monitoring point reference	Monitoring location	Parameter	Unit	Averaging period	Frequency	Target	Limit
F1 RDA: (1) F1 DECANT;	As labelled and depicted	pH <sup>2</sup>	pH unit	Spot sample	Monthly	Between 5.0 – 9.0 <sup>3</sup>	
(2) F1 UD; (3) F1 LCRS.	in Figure 8 of Schedule 1: Maps.	Electrical conductivity <sup>2</sup>	μS/cm				
R4 RDA:	. mape.	Total dissolved solids	mg/L				
(4) R4 DECANT <sup>4</sup> .		Total suspended solids	mg/L				
F1 RDA perimeter sumps:		Total metals and metalloids, including <sup>4</sup> :  (1) aluminium (AI);	mg/L				

Note 1: All units are referenced to STP dry.

Note 2: Monitoring must be undertaken to reflect normal operating conditions and any limits or conditions on inputs or

Note 3: If sampling conditions do not suit the method, particle size distribution analysis may be conducted using USEPA Methods 5 or 17.

Monitoring point reference	Monitoring location	Parameter	Unit	Averaging period	Frequency	Target	Limit
(5) SD3SU-A; (6) SD3SU-B; (7) SD3SU-C; (8) SD4SU-B; (9) SD5SU-A; (10) SD5SU-B; (11) SD7SU-A; (12) SD7SU-B; (13) SD8SU-C; (14) SD8SU-C; (15) SD8SU-D1.		(2) arsenic (As); (3) cadmium (Cd); (4) cobalt (Co); (5) chromium (Cr); (6) copper (Cu); (7) iron (Fe); (8) mercury (Hg); (9) manganese (Mn); (10) molybdenum (Mo); (11) nickel (Ni); (12) lead (Pb);					
Background sites <sup>1</sup> : (16) HBBK14; (17) SDBK2; (18) 34MBPD1; (19) HRPB1;		(13) antimony (Sb); (14) selenium (Se); (15) thallium (TI); (16) tungsten (W); (17) zinc (Zn)					
(20) 34BK109; (21) 34BK110; (22) BGBK6; (23) WHBK10; (24) PISWP01; (25) BMSWP01.		Major ions, including: (1) bicarbonate (HCO <sub>3</sub> ); (2) sulfate (SO <sub>4</sub> ); (3) calcium (Ca); (4) chloride (Cl); (5) fluoride (F); (6) magnesium (Mg); (7) potassium (K); (8) sodium (Na); (9) titratable acidity (H <sup>+</sup> ).	mg/L				
		WAD cyanide	mg/L				50
Background sites <sup>1</sup> : (26) WHBK10.	As labelled and depicted in Figure 8 of Schedule 1: Maps	Parameters, including: (1) dissolved oxygen; (2) biochemical oxygen demand.	mg/L	Spot sample	Monthly		
		Nutrients, including: (1) total nitrogen; (2) total phosphorus.	mg/L	Spot sample	Monthly		
		Microbial parameters, including: (1) <i>E. coli</i> ; (2) thermotolerant coliforms.	cfu/ 100mL	Spot sample	Monthly		

Note 1: Monthly sampling only required when flowing, where there is adequate water to be sampled.

#### Table 16:Monitoring of ambient groundwater

Note 2: In-field non-NATA-accredited analysis permitted.

Note 3: Target for pH is only applicable for F1 RDA perimeter sump monitoring points.

Note 4: Dissolved metal analysis must also be undertaken for R4 RDA decant pond.

**<sup>29.</sup>** The licence holder must undertake monitoring specified in Table 16 and record and investigate results that do not meet any target and/or limit specified.

Monitoring point reference	Monitoring location	Parameter	Unit	Averaging period	Frequency	Target	Limit
Operational	As labelled	Standing water level	mbgl	Spot sample	Quarterly		
monitoring bores:	and depicted in Figure 9		mAHD				
(1) O234BR3;	of Schedule	pH <sup>1</sup>	рН			Between	
<ul><li>(2) F1BR19S;</li><li>(3) F1BR19D;</li></ul>	1: Maps.	P1.1	unit			$5.0 - 9.0^2$	
(4) F1BR22S-2 <sup>2</sup> ;		Electrical	μS/cm				
(5) F1BR22D <sup>2</sup> ;		conductivity <sup>1</sup>	'				
(6) F1BR23S <sup>2</sup> ;		Total dissolved	mg/L				
(7) F1BR23D <sup>2</sup> ;		solids					
(8) F1BR24S <sup>2</sup> ;		Dissolved metals	mg/L				
(9) F1BR24D-2 <sup>2</sup> ;		and metalloids, including:					
(10) F1BR25S <sup>2</sup> ;		(1) aluminium (AI);					
(11) F1BR25D-2 <sup>2</sup> ;		(2) arsenic (As);					
(12) F1BR26S-2 <sup>2</sup> ;		(3) cadmium (Cd);					
(13) F1BR26D <sup>2</sup> ;		(4) cobalt (Co);					
(14) F1BR29S <sup>2</sup> ;		(5) chromium (Cr);					
(15) F1BR29D <sup>2</sup> ;		(6) copper (Cu);					
(16) F1BR31S;		(7) iron (Fe);					
(17) F1BR31D;		(8) mercury (Hg);					
(18) F1BR35S <sup>2</sup> ; (19) F1BR35D <sup>2</sup> ;		(9) manganese					
(19) F1BR35D ; (20) F1BR36S;		(Mn);					
(20) F1BR36D;		(10) molybdenum (Mo);					
(22) F1BR38S-2 <sup>2</sup> ;		(11) nickel (Ni);					
(23) F1BR38D <sup>2</sup> ;		(12) lead (Pb);					
(24) F1BR39S;		(13) antimony (Sb);					
(25) F1BR39D-2;		(14) selenium (Se);					
(26) F1BR41S <sup>2</sup> ;		(15) thallium (TI);					
(27) F1BR41D <sup>2</sup> ;		(16) tungsten (W);					
(28) R4BR107S;		(17) zinc (Zn)					
(29) R4BR107D; (30) R4BR13.		Major ions, including:	mg/L				
		(1) bicarbonate (HCO <sub>3</sub> );					
		(2) sulfate (SO <sub>4</sub> );					
		(3) calcium (Ca);					
		(4) chloride (CI);					
		(5) fluoride (F);					
		(6) magnesium (Mg);					
		(7) potassium (K);					
		(8) sodium (Na); (9) titratable acidity					
		(H <sup>+</sup> ).					
		Total cyanide	mg/L				
		WAD cyanide	mg/L				0.5
Regional monitoring bores:	As labelled and depicted	Standing water level	mbgl	Spot sample	Quarterly		4.0
(31) BUBR6;	in Figure 9		mAHD				
(32) BUBR7;	of Schedule 1: Maps.	pH <sup>1</sup>	pH unit			Between 5.0 – 9.0 <sup>2</sup>	
(33) BUBR10; (34) F1BR34S;		Electrical conductivity <sup>1</sup>	μS/cm				
(35) F1BR34D; (36) F1BR40S;		Total dissolved solids	mg/L				

Monitoring point reference	Monitoring location	Parameter	Unit	Averaging period	Frequency	Target	Limit
(37) F1BR40D; (38) F1BR42S; (39) F1BR42D;		Metals and metalloids, including <sup>3</sup> :	mg/L				
(40) F1BR43S;		(1) aluminium (AI);					
(41) F1BR43D;		(2) arsenic (As);					
(42) F1BR44S;		(3) cadmium (Cd);					
(43) F1BR44D;		(4) cobalt (Co);					
(44) F1BR45S;		(5) chromium (Cr);					
(45) F1BR45D;		(6) copper (Cu);					
(46) F1BR49S <sup>3</sup> ;		(7) iron (Fe);					
(47) F1BR49D <sup>3</sup> ;		(8) mercury (Hg);					
(48) F1BR50S <sup>3</sup> ;		(9) manganese					
(49) F1BR50D <sup>3</sup> ;		(Mn);					
(50) F1BR51S <sup>3</sup> ;		(10) molybdenum (Mo);					
(51) F1BR51D <sup>3</sup> ;		(11) nickel (Ni);					
(52) F1BR52S <sup>3</sup> ;		(12) lead (Pb);					
(53) F1BR52D <sup>3</sup> ;		(13) antimony (Sb);					
(54) F1BR53S <sup>3</sup> ;		(14) selenium (Se);					
(55) F1BR53D <sup>3</sup> ;		(15) thallium (TI);					
(56) F1BR54S <sup>3</sup> ;		(16) tungsten (W);					
(57) F1BR54D <sup>3</sup> ;		(17) zinc (Zn)					
(58) R4BR102S;							
(59) R4BR102D;		Major ions, including:	mg/L				
(60) R4BR105S;		(1) bicarbonate					
(61) R4BR105D;		(HCO <sub>3</sub> );					
(62) R4BR106S;		(2) sulfate (SO <sub>4</sub> );					
(63) R4BR106D.		(3) calcium (Ca);					
		(4) chloride (CI);					
Non-RDA		(5) fluoride (F);					
monitoring bores:		(6) magnesium (Mg);					
(64) WD7BR4		(7) potassium (K);					
(65) WD8BR5		(8) sodium (Na);					
(66) WD9BR3		(9) titratable acidity					
(67) WTBR2		(H <sup>+</sup> ).					
		Total cyanide	mg/L				
		WAD cyanide	mg/L				0.5
Regional monitoring bore:	As labelled and depicted	Standing water level	mbgl	Spot sample	Quarterly		4.0
(68) MUBR1; (69) R4BR109.	in Figure 9 of Schedule 1: Maps.		mAHD				

Note 1: In-field non-NATA-accredited analysis permitted.

#### **Vegetation condition monitoring**

- 30. The licence holder must undertake monitoring of vegetation:
  - at the monitoring point reference for the parameters and at the frequency (a) specified in Table 17;
  - by comparing the results of the monitoring event against previous monitoring (b) events and identify whether any observable decline in vegetation health and/or vegetation death has taken place; and

Note 2: Monitoring of at this location with location may also be conducted at a replacement bore location with a different monitoring point reference, corresponding to those specified in condition 16.

Monitoring at this location is only required following installation of monitoring bore at this location in accordance with

Note 3: requirements specified in condition 16.

(c) if a decline in vegetation health and/or vegetation death was found to have taken place, implement the corresponding management actions,

as specified in Table 17.

**Table 17: Monitoring of vegetation condition** 

Monitoring point reference	Monitoring location	Parameter	Frequency	Management action
(1) F1 RDA, R4 RDA and surrounding vegetation	Labelled as 'Extent of multispectral data collection', as depicted in Schedule 1: Maps, Figure 10	(1) Plant cell density (using multispectral imagery on one hectare grids)	Annually	<ul> <li>Investigate the potential causes of impact (i.e., observed vegetation health decline and/or vegetation death), including use of nearby groundwater monitoring information.</li> <li>If the cause of impact is</li> </ul>
Operational monitoring bores: (1) O234BR3; (2) F1BR19S; (3) F1BR22S-2; (4) F1BR24S; (6) F1BR24S; (6) F1BR25S; (7) F1BR26S-2; (8) F1BR29S; (9) F1BR31S; (10) F1BR35S; (11) F1BR36S; (12) F1BR38S-2; (13) F1BR39S; (14) F1BR41S; (15) R4BR107S; (16) R4BR13.  Regional monitoring bores: (17) BUBR6; (18) BUBR7; (19) BUBR10; (20) F1BR34S; (21) F1BR40S; (22) F1BR42S; (23) F1BR42S; (24) F1BR44S; (25) F1BR45S; (26) F1BR49S; (27) F1BR50S; (28) F1BR51S; (29) F1BR52S; (30) F1BR53S; (31) F1BR54S;	As labelled and depicted in Schedule 1: Maps, Figure 9.	<ul><li>(1) Visual inspection of vegetation condition;</li><li>(2) Photographic documentation.</li></ul>	Quarterly	likely to be changes in local groundwater conditions (e.g., standing water level, groundwater quality):  notify the CEO within seven days of the impact being identified;  develop and implement a mitigation strategy to improve local groundwater and/or seepage recovery and prevent further impacts to vegetation; and  submit to the CEO a report on the mitigation strategy within 90 days of the impact being identified, including timeframe for implementation.

Monitoring point reference	Monitoring location	Parameter	Frequency	Management action
(32) R4BR102S;				
(33) R4BR105S;				
(34) R4BR106S;				
(35) MUBR1;				
(36) R4BR109.				

#### **Sediment monitoring**

**31.** The licence holder must undertake monitoring specified in Table 18.

Table 18: Monitoring of sediment quality

Monitoring point	Monitoring location	Parameter	Unit	Averaging period	Frequency
R4 RDA: (1) R4SED	Labelled as 'R4 DECANT', as depicted in Schedule 1: Maps, Figure 8.	(1) Cobalt	mg/kg	Spot sample	Annually, at a minimum.

## **Specified actions**

32. The licence holder must provide a report to the CEO on each item specified in Table 19 and its corresponding requirements within the timeframe specified in Table 19.

**Table 19: Specified actions** 

Item	Specified action requirement	Timeframe
1	Dust monitoring review	Prior to 31 March
	The licence holder must undertake an ambient dust monitoring program with following objectives:	the 2027.
	(1) Assess the validity of previous dust modelling results, in relation to potential exceedance of the following ambient dust assessment criteria	ı:
	(a) 24-hour average PM <sub>10</sub> concentration of 50 μg/m <sup>3</sup> ;	
	(b) Annual average PM <sub>10</sub> concentration of 25 μg/m <sup>3</sup> .	
	(2) Determine the likely source of dust received at human receptors locate the east of the F1 RDA, in relation to tailings storage at the F1 RDA an any other activities at the prescribed premises;	
	(3) Determine whether further ambient dust monitoring and/or investigation are required. If not, specify the rationale.	ns
	The ambient dust monitoring program must be supported by empirical data, including (but not limited to):	
	(1) Continuous real-time ambient dust monitoring (e.g., PM <sub>10</sub> , PM <sub>2.5</sub> ) for a period of at least twelve months; and	
İ	(2) Meteorological data (e.g., wind speed, wind direction, etc).	
	A report on the ambient dust monitoring program must be prepared and submitted to the CEO within the corresponding timeframe, specifying how the three objectives described were met.	е

The licence holder must undertake a groundwater monitoring network review with the following objectives:  (1) Assess whether ambient groundwater levels and chemistry around and hydraulically downgradient of F1 RDA Saddle Dam 3 are being influenced by tailings and/or perimeter sump seepage.  (2) If seepage influences are likely to be present, delineate the extent of seepage influences and determine whether groundwater within any public drinking water source area has been influenced.  (3) Assess whether additional groundwater monitoring bores hydraulically downgradient of the F1 RDA are required, for the purposes of meeting objective (2). If so, specify the locations and timeframe for implementation. If not, provide justification.  The groundwater monitoring network review must be supported by empirical data, including (but not limited to):  (1) Ambient groundwater monitoring data from at least, but not limited to, the following groundwater monitoring bores: BUBR10, F1BR29S, F1BR29D, F1BR31S, F1BR31D, F1BR34S, F1BR34D, F1BR44S, F1BR44D, F1BR45S, F1BR45D, F1BR51S, F1BR51D, F1BR52S, and F1BR52D.  A report on the groundwater monitoring network review must be prepared and submitted to the CEO within the corresponding timeframe, specifying how the three objectives described were met. The report must include, at a minimum:  (1) Relevant ambient groundwater monitoring data considered in the assessment, in either a graphical and/or tabulated format;	Timeframe
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<ul> <li>(1) Assess whether ambient groundwater levels and chemistry around and hydraulically downgradient of F1 RDA Saddle Dam 3 are being influenced by tailings and/or perimeter sump seepage.</li> <li>(2) If seepage influences are likely to be present, delineate the extent of seepage influences and determine whether groundwater within any public drinking water source area has been influenced.</li> <li>(3) Assess whether additional groundwater monitoring bores hydraulically downgradient of the F1 RDA are required, for the purposes of meeting objective (2). If so, specify the locations and timeframe for implementation. If not, provide justification.</li> <li>The groundwater monitoring network review must be supported by empirical data, including (but not limited to):</li> <li>(1) Ambient groundwater monitoring data from at least, but not limited to, the following groundwater monitoring bores: BUBR10, F1BR29S, F1BR29D, F1BR31S, F1BR31D, F1BR34S, F1BR34D, F1BR34S, F1BR44D, F1BR45D, F1BR45D, F1BR51S, F1BR51D, F1BR52S, and F1BR52D.</li> <li>A report on the groundwater monitoring network review must be prepared and submitted to the CEO within the corresponding timeframe, specifying how the three objectives described were met. The report must include, at a minimum:</li> <li>(1) Relevant ambient groundwater monitoring data considered in the assessment, in either a graphical and/or tabulated format;</li> </ul>	commencement of operation (i.e.,
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downgradient of the F1 RDA are required, for the purposes of meeting objective (2). If so, specify the locations and timeframe for implementation. If not, provide justification.  The groundwater monitoring network review must be supported by empirical data, including (but not limited to):  (1) Ambient groundwater monitoring data from at least, but not limited to, the following groundwater monitoring bores: BUBR10, F1BR29S, F1BR29D, F1BR31S, F1BR31D, F1BR34S, F1BR34D, F1BR43S, F1BR43D, F1BR44S, F1BR44D, F1BR45S, F1BR45D, F1BR51S, F1BR51D, F1BR52S, and F1BR52D.  A report on the groundwater monitoring network review must be prepared and submitted to the CEO within the corresponding timeframe, specifying how the three objectives described were met. The report must include, at a minimum:  (1) Relevant ambient groundwater monitoring data considered in the assessment, in either a graphical and/or tabulated format;	Stage 19 embankment raise.
data, including (but not limited to):  (1) Ambient groundwater monitoring data from at least, but not limited to, the following groundwater monitoring bores: BUBR10, F1BR29S, F1BR29D, F1BR31S, F1BR31D, F1BR34S, F1BR34D, F1BR43S, F1BR43D, F1BR44S, F1BR44D, F1BR45S, F1BR45D, F1BR51S, F1BR51D, F1BR52S, and F1BR52D.  A report on the groundwater monitoring network review must be prepared and submitted to the CEO within the corresponding timeframe, specifying how the three objectives described were met. The report must include, at a minimum:  (1) Relevant ambient groundwater monitoring data considered in the assessment, in either a graphical and/or tabulated format;	
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assessment, in either a graphical and/or tabulated format;	
(O) Figure (a) waits a social incompany of the base was indicated	
(2) Figure(s) using aerial imagery as the basemap, indicating:	
(a) the location of groundwater monitoring bores considered in the assessment;	
(b) the extent of any nearby public drinking water source areas; and	
(c) the location of additional groundwater monitoring bores, if required.	

## **Records and reporting**

- **33.** 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.
- **34.** 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 conditions 5, 10, 11, 12, 14, 15, and 16 of this licence;

- (c) any maintenance of infrastructure that is performed in the course of complying with conditions 2, 3, 4, 6, 7, 8, 9 and 13 of this licence;
- (d) monitoring programmes undertaken in accordance with condition 24, 25, 26, 27, 28, 29, 30 and 31 of this licence; and
- (e) complaints received under condition 33 of this licence.
- **35.** The books specified under condition 34 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 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.
- **36.** 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 six months after the end of that annual period an Annual Audit Compliance Report in the approved form.
- 37. The licence holder must submit to the CEO no later than six months after the end of each annual period, an Annual Environmental Report for that annual period for the conditions listed in Table 20, and which provides information in accordance with the corresponding requirement set out in Table 20.

**Table 20: Annual Environmental Report** 

Condition	Parameter	Format or form
	Summary of any failure or malfunction of any pollution control equipment or any incidents that have occurred during the annual period and any actions taken.	None specified.
Condition 24	Any relevant process, production or operational data recorded.	None specified.
Condition 25	Monthly water balance of F1 RDA.	Tabulated data for water balance, including raw data files, such as Excel, .csv or equivalent editable format.
Condition 26	Process monitoring limit exceedances and the outcome of any investigations.	None specified.
Condition 27	Point source air monitoring results, including a summary of trends in monitoring results and a comparative assessment against historical monitoring data.	Tabulated data for monitoring results; Time-series plots for trend analysis; and Raw data files, such as Excel, .csv or equivalent editable format.
Condition 28; Condition 29	Surface water and ambient groundwater monitoring results, including any target and/or limit exceedances and the outcome of any investigations, as well as a summary of trends in surface water and ambient groundwater monitoring results.  A comparative assessment against relevant Australian drinking water guideline values at relevant surface water monitoring location (SDBK2) and groundwater monitoring locations (BUBR10, F1BR34S, F1BR34D, F1BR43D,	Tabulated data for monitoring results; Time-series plots for trend analysis; lonic composition analysis; and Raw data files, such as

Condition	Parameter	Format or form
	F1BR44S, F1BR44D, F1BR45S, F1BR45D, F1BR51S, F1BR51D, F1BR52S, and F1BR52D).	Excel, .csv or equivalent editable format.
Condition 30	Vegetation condition monitoring results, including a summary of trends in monitoring results, a comparative assessment against historical monitoring data, as well as identification of any observed decline in vegetation health and/or vegetation death and the outcome of any management actions taken to investigate potential causes.	None specified.
Condition 31	Ambient sediment quality monitoring results, including a summary of trends in monitoring results and a comparative assessment against historical monitoring data.	Tabulated data for monitoring results; Time-series plots for trend analysis; and Raw data files, such as Excel, .csv or equivalent editable format.
Condition 33	Summary of complaints received during the annual period and any actions taken.	None specified.
Condition 36	Compliance against the conditions of this licence.	AACR
	Copies of original monitoring reports submitted to the licence holder by third parties relating to the requirements of this licence.	As received by the licence holder from third parties.
Condition 41	Summary of environmental incidents during the annual period and any actions taken.	None specified.

- **38.** The licence holder must within 90 calendar days of an item of infrastructure or equipment required by conditions 14 and 15 being constructed and/or installed:
  - (a) undertake an audit of their compliance with the requirements of condition 14 and/or 15 for that item of infrastructure: and
  - (b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.
- **39.** The Environmental Compliance Report required by condition 38 must include, as a minimum, the following:
  - (a) certification by a suitably qualified engineer that the items of infrastructure or components thereof, as specified in condition 14 and/or 15 have been constructed in accordance with the relevant requirements specified in condition 14 and/or 15, respectively; or
  - (b) as constructed plans and a detailed site plan for each item or component of infrastructure specified in conditions 14 and/or 15; and
  - (c) be signed by a person authorised to represent the licence holder and contains the printed name and position of that person.
- **40.** The licence holder must, within 60 calendar days of the monitoring bores required by condition 16 being constructed, submit to the CEO a bore construction report evidencing compliance with the requirements of condition 16.
- **41.** The licence holder must ensure that the parameters listed in Table 21 are notified to the CEO in accordance with the notification requirements specified in Table 21.

#### **Table 21: Notification requirements**

Condition	Parameter	Notification requirement <sup>1</sup>	Format or form
	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause a pollution.	Part A: As soon as practicable but no later than 5pm of the next usual working day from the day the breach is identified.	N1 form <sup>2</sup> .
Condition 26, 28 and 29	Breach of any limits specified in the licence.	Part B: As soon as practicable.	
Condition 11	Discharge of water from underdrainage, LCRS drainage and beach drainage to R4 RDA	Within 48 hours of any planned discharge, detailing:  (1) circumstances arising to the discharge;  (2) planned duration of discharge; and	None specified.
		(3) expected volume to be discharged.	
		Within seven days of completing any planned discharge, detailing:  (1) actual duration of discharge;  (2) actual volume discharged; and  (3) any environmental impacts observed during the	None specified.
Condition 23	Calibration report	discharge.  As soon as practicable.	None specified.

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

Note 2: Forms are in Schedule 3: Notification & Forms.

## **Definitions**

In this licence, the terms in Table 22 have the meanings defined.

#### **Table 22: Definitions**

Term	Definition
ACN	Australian Company Number
AHD	means the Australian height datum.
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).
annual period	a 12-month period commencing from 1 January until 31 December of the same year.
ARI	means average recurrence interval.
ASTM D5092/ D5092M-16	means the ASTM D5092/D5092M-16 Standard practice for design and installation of groundwater monitoring wells.
AS 1726	means the Australian Standard AS 1726 Geotechnical site investigations.
AS 4323.1	means the Australian Standard AS4323.1 Stationary Source Emissions Method 1: Selection of sampling positions.
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 Water Quality – Sampling – Guidance of sampling programs, sampling techniques and the preservation and handling of samples.
AS/NZS 5667.6	means the Australian Standard AS/NZS 5667.11 Water Quality – Sampling – Guidance on sampling of rivers and streams.
AS/NZS 5667.11	means the Australian Standard AS/NZS 5667.11 Water Quality – Sampling – Guidance on sampling of groundwaters.
AS/NZS 5667.12	means the Australian Standard AS/NZS 5667.11 Water Quality – Sampling – Guidance on sampling of bottom sediments.
Australian drinking water guideline values	refers to the health guideline values specified in Chapter 10 of the National Health and Medical Research Council (NHMRC) and Natural Resource Management Ministerial Council (NRMMC) (2011), <i>Australian Drinking Water Guidelines Paper 6 National Water Quality Management Strategy</i> , NHMRC, NRMMC, Commonwealth of Australia, Canberra, Australian Capital Territory.
averaging period	means the time over which a limit or target is measured or a monitoring result is obtained.
books	has the same meaning given to that term under the EP Act.

Term	Definition
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
CIL	means Carbon In Leach.
clean fill	has the same meaning given to that term in the Landfill Waste Classification and Waste Definitions 1996 (as amended 2019).
controlled waste	has the same meaning given to that term under the Environmental Protection (Controlled Waste) Regulations 2004.
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.
	means an area of the Onsite Waste Disposal Area that has been designated by the licence holder and which:
designated burning	1. is at least 50 m from the boundary of the Onsite Waste Disposal Area;
area	has no inflammable material on it, other than the timber, for a radius of 50 m; and
	<ol> <li>is positioned on an area of Onsite Waste Disposal Area, where waste (other than the timber to be burnt) has not been deposited.</li> </ol>
discharge	has the same meaning given to that term under the EP Act.
E. coli	means Escherichia coli.
ecological screening levels	refers to guideline values detailed in Schedule B1 of the NEPM.
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 licence.
emission	has the same meaning given to that term under the EP Act.
EP Act	Environmental Protection Act 1986 (WA)
EP Regulations	Environmental Protection Regulations 1987 (WA)
F1 RDA	means the tailings storage facility (i.e., residue disposal area) for the premises. Also referred to as the F1/F3 RDA.
F1 RDA decant pond	means the body of process water stored within the F1 RDA below the beach formation, as depicted in Schedule 1: Maps.
F1/F3 RDA Stage 19-22 Design Report	refers to the Knight Piesold Pty Limited (2023), F1/F3 Residue Disposal Area Stage 19 – Stage 22 Design Report, KP Report No. PE801-00048/213, Newmont Document No. 11147-666-91RE-0044.
Fire Control Officer	means a person who has such qualifications in firefighting or fire control as are

Term	Definition	
	approved, appointed to that position by the licence holder.	
freeboard	means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point.	
fugitive emissions	means all emissions not arising from point sources identified in this licence.	
HDPE	means high-density polyethylene.	
inert waste type 1	has the same meaning given to that term in the Landfill Waste Classification and Waste Definitions 1996 (as amended 2019).	
inert waste type 2	has the same meaning given to that term in the Landfill Waste Classification and Waste Definitions 1996 (as amended 2019).	
LCRS	means Leakage Collection and Recovery System.	
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.	
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 the National Association of Testing Authorities Australia.	
NATA-accredited	refers to a laboratory that is accredited by the NATA for the specified analysis of a sample at the time of the analysis.	
NEPM	means the National Environmental Protection (Assessment of Site Contamination) Measure.	
normal operating conditions	means any operation of a particular process (including abatement equipment), excluding start-up, shut-down and upset conditions, in relation to stack sampling and monitoring.	
NOx	means oxides of nitrogen, calculated as the sum of nitric oxide and nitrogen dioxide, and expressed as nitrogen dioxide.	
PM	means total particulate matter, including both solid fragments of material and miniscule droplets of liquid.	
PM <sub>10</sub>	means particles with an aerodynamic diameter equal to or less than 10 µm.	
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as depicted on the premises map in Schedule 1 to this licence.	
prescribed premises	has the same meaning given to that term under the EP Act.	
quarterly	means the four inclusive periods from 1 January to 31 March, 1 April to 30 June, 1 July to 30 September, and 1 October to 31 December.	
RDA	means Residue Disposal Area.	
RL	means Reduced Level (above sea level).	
six monthly	means the two inclusive periods from 1 January to 30 June, and 1 July to 31 December.	

Term	Definition	
special waste type 1	has the same meaning given to that term in the Landfill Waste Classification and Waste Definitions 1996 (as amended 2019).	
spot sample	means a discrete sample representative at the time and place at which the sample is taken.	
stack test	means a discrete set of samples taken over a representative period at normal operating conditions.	
STP dry	means standard temperature and pressure (0 °Celsius and 101.325 kilopascals, respectively) and dry.	
suitably qualified engineer	<ol> <li>holds a Bachelor of Engineering recognised by the Australian Institute of Engineers;</li> <li>has a minimum of five years of experience working in the design and/or implementation of the relevant infrastructure; and</li> <li>where the relevant infrastructure relates to an embankment raise to the F1 RDA, has a minimum of five years of experience working in civil or geotechnical engineering, including experience in the design of tailings storage facilities,</li> <li>or who is otherwise approved by the CEO to act in this capacity.</li> </ol>	
Target Limit	refers to the maximum F1 RDA decant pond volume that ca be safely stored on F1 RDA, as determined by the licence holder.	
treated timber	means timber chemically treated or preserved with substances, including copper chrome arsenate, high temperature creosote, pigment emulsified creosote and light organic solvent preservative treated timbers.	
TRH	means total recoverable hydrocarbons.	
USEPA	means United States Environmental Protection Agency.	
usual working day	means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia.	
voc	means volatile organic compounds.	
WAD cyanide	means Weak Acid Dissociable cyanide.	
waste	has the same meaning given to that term under the EP Act.	
WRD	means waste rock dump.	
μS/cm	means microsiemens per centimetre.	

#### **END OF CONDITIONS**

# **Schedule 1: Maps**

## Land tenure comprising the prescribed premises

Mining tenements log			
Tenement ID	Area		
M70/21	Main mining area		
M70/22	Main mining area		
M70/23	Main mining area		
M70/24	Main mining area		
M70/25	Main mining area		
M70/26	Main mining area		
M70/564	Main mining area		
M70/799	Main mining area		
G70/215	Main mining area		
L70/28	Hotham River pump station		
L70/95	Accommodation village		
L70/96	Village sewage treatment plant		
M264SA(2)	Main mining area		
M70/462	Main mining area		
M70/588	Main mining area		
M70/589	Main mining area		
M70/1031	Main mining area		
M70/1236	Main mining area		
M70/1237	Main mining area		
M70/1238	Main mining area		
G70/218	Main mining area		
G70/219	Main mining area		
G70/272	Main mining area		
L70/152	Hedges Dam & Pipeline		
L70/165	Hedges Pump Station		
M70/1221	Junglen Gully		
M70/590	D6 water storage dam		
ML70/751	D6 water storage dam		
ML70/752	D6 water storage dam		

## **Premises map**

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

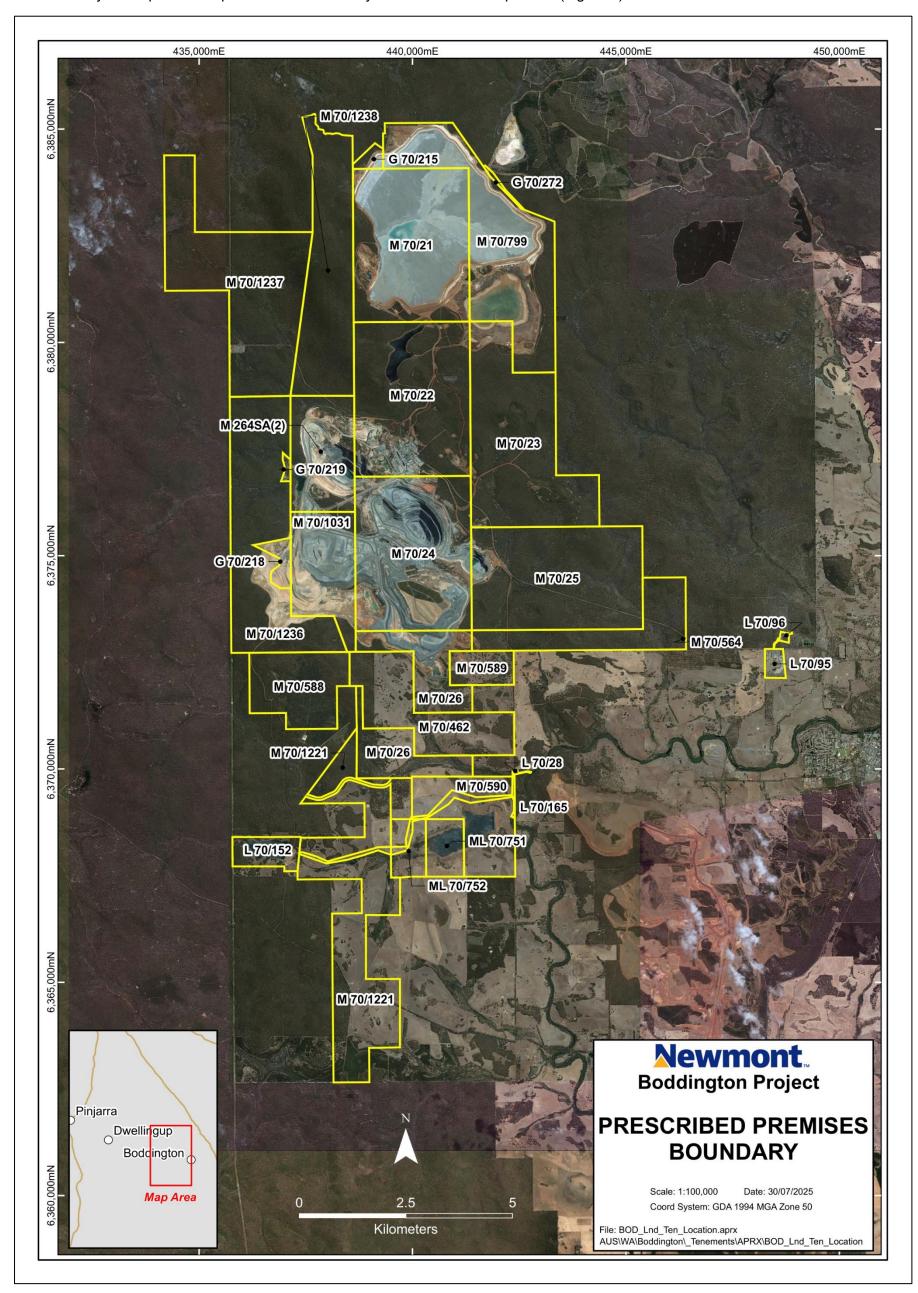


Figure 1: Map of the boundary of the prescribed premises

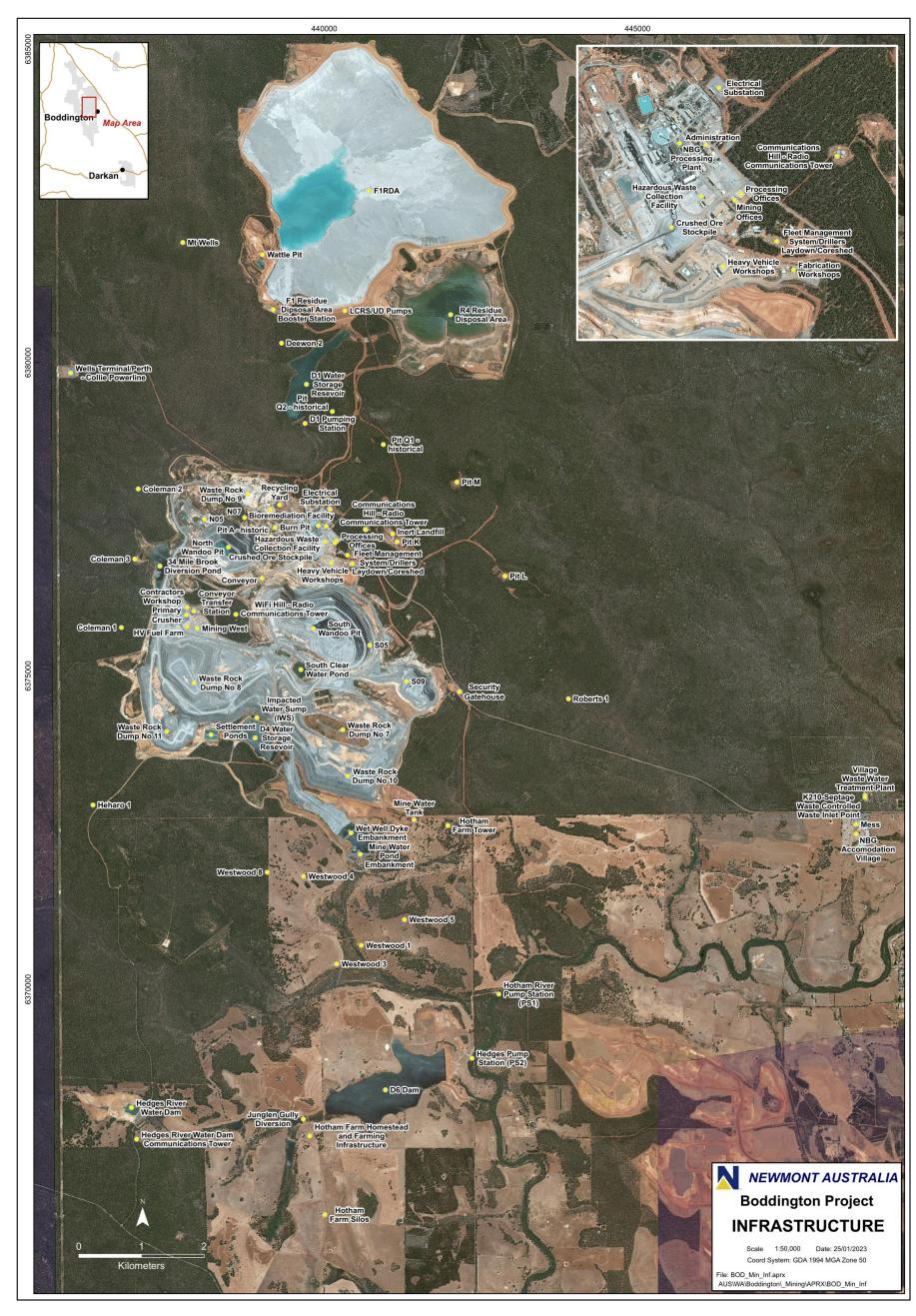


Figure 2: Site layout and infrastructure

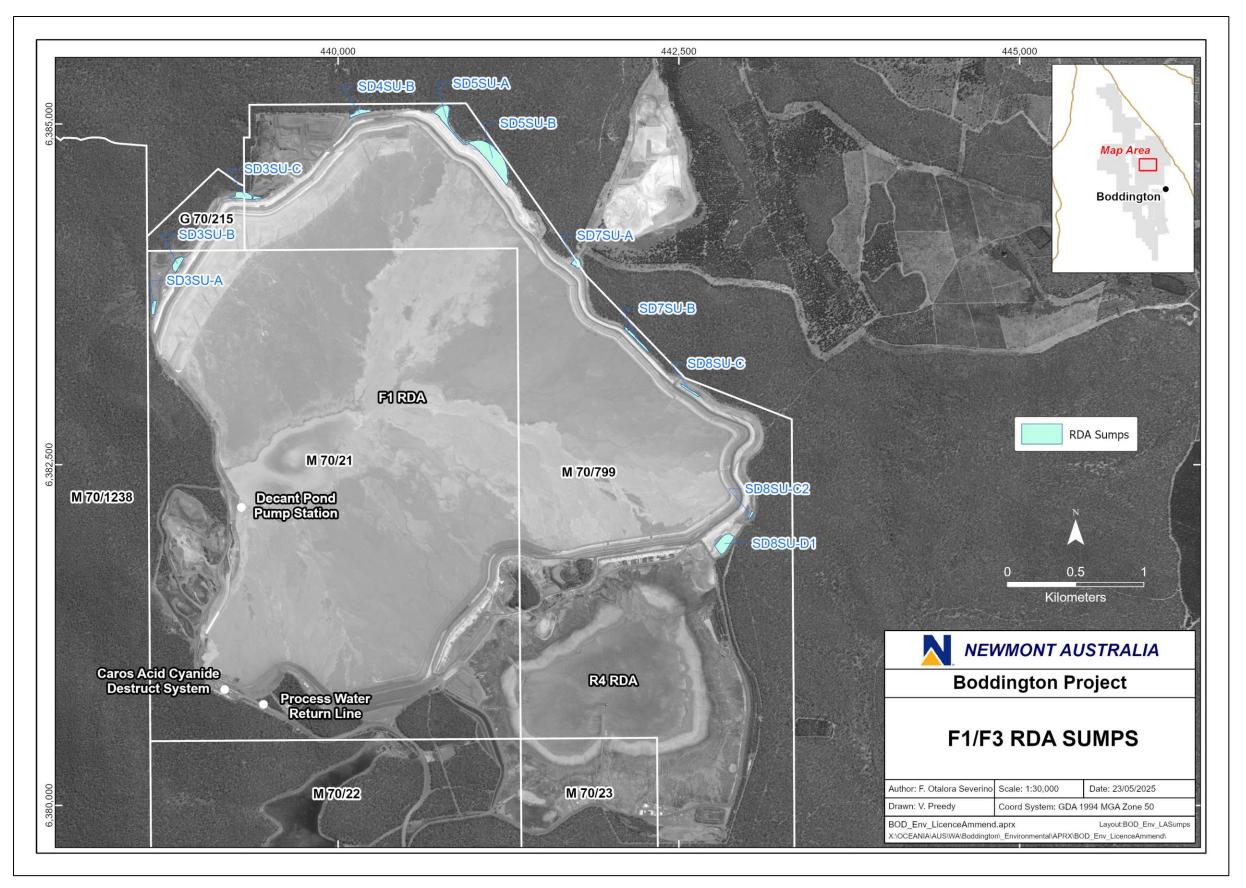


Figure 3: Containment infrastructure – RDAs

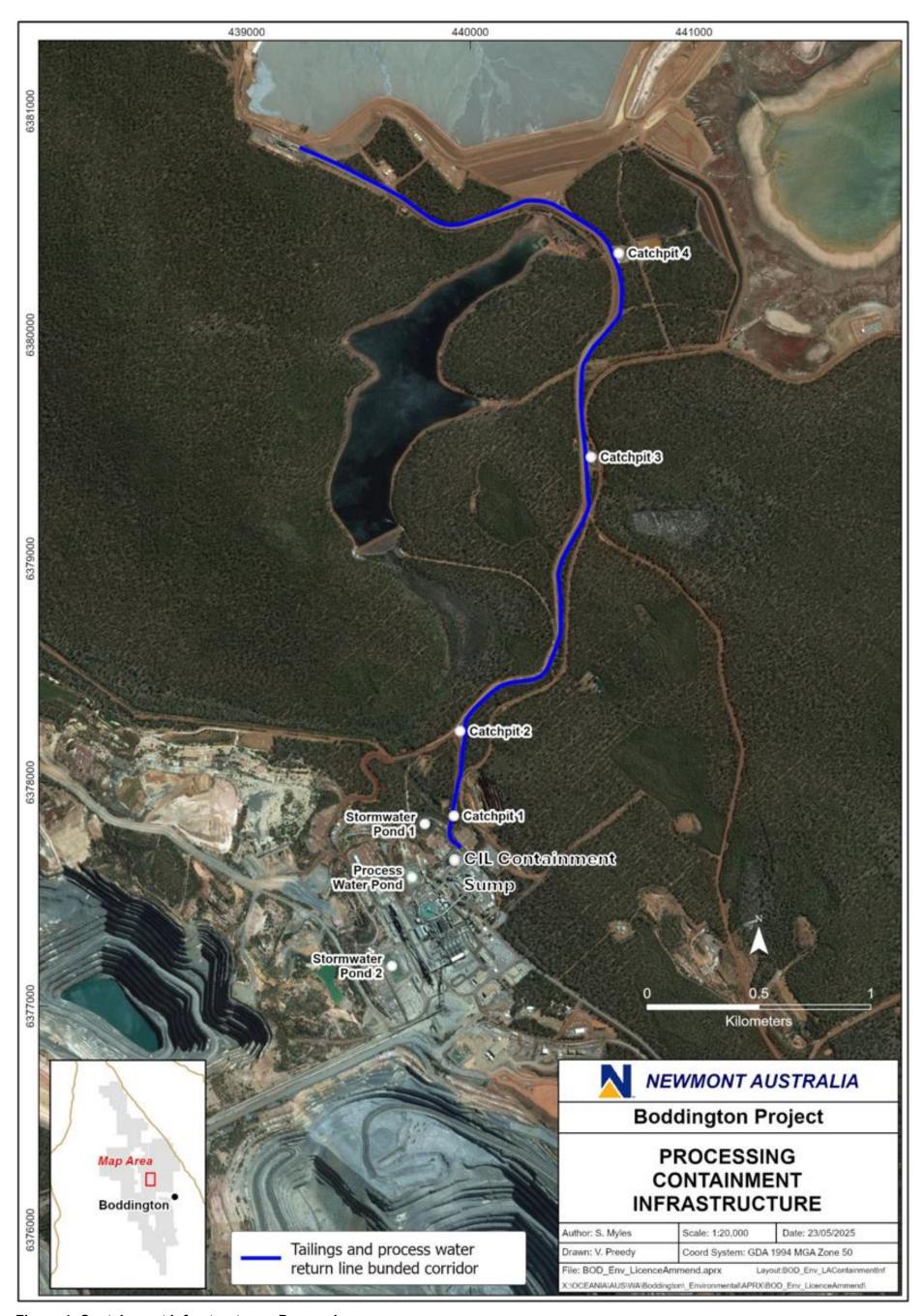


Figure 4: Containment infrastructure – Processing

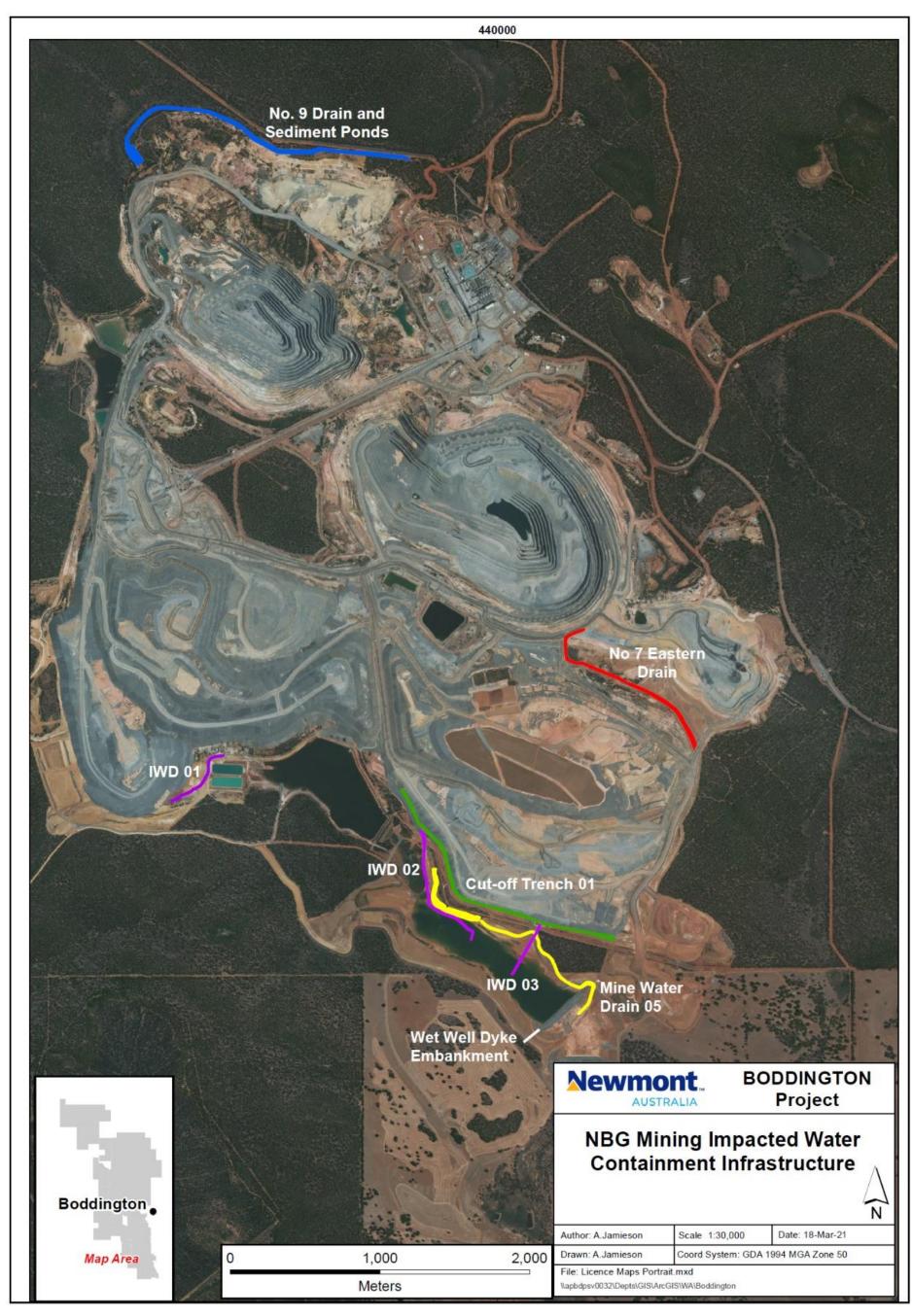


Figure 5: Containment infrastructure – Mining-impacted water

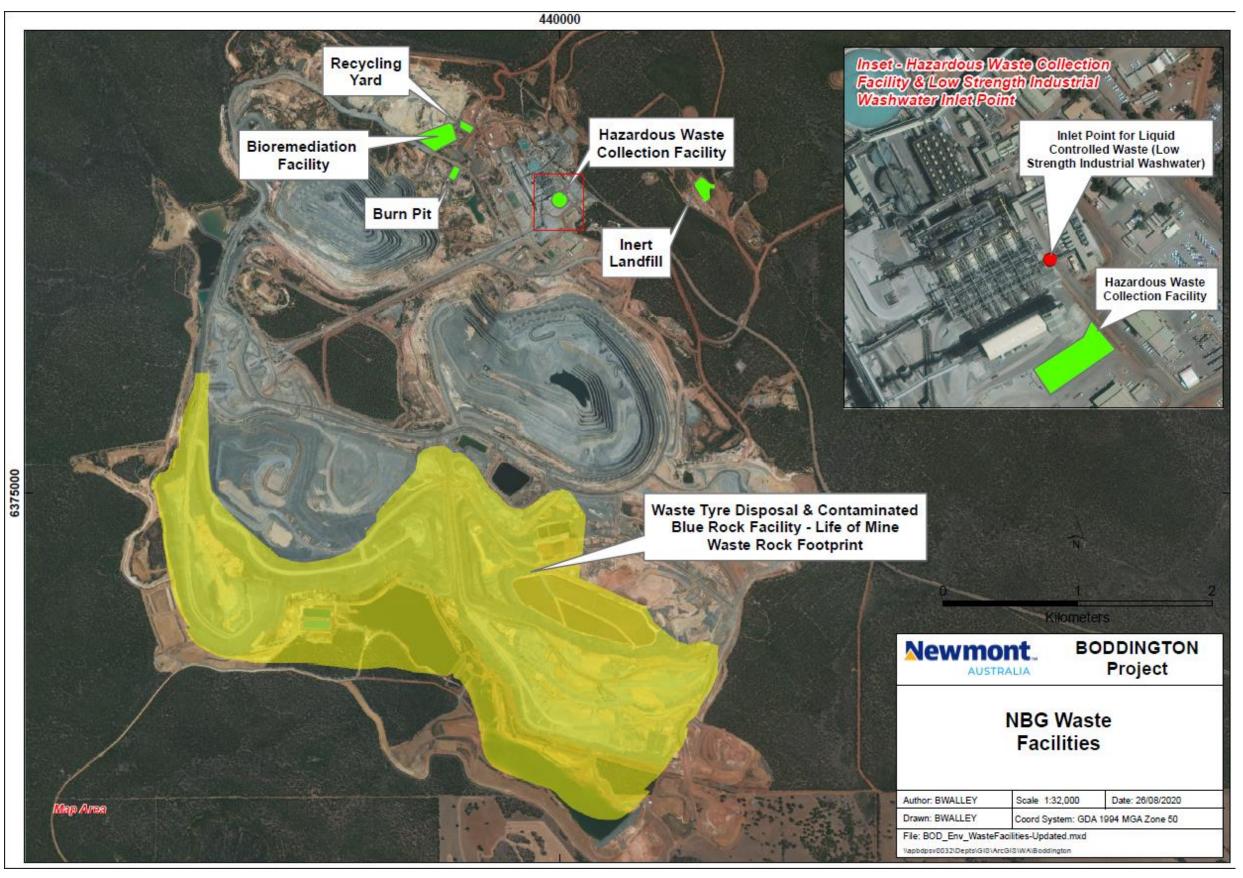


Figure 6: Location of waste disposal sites

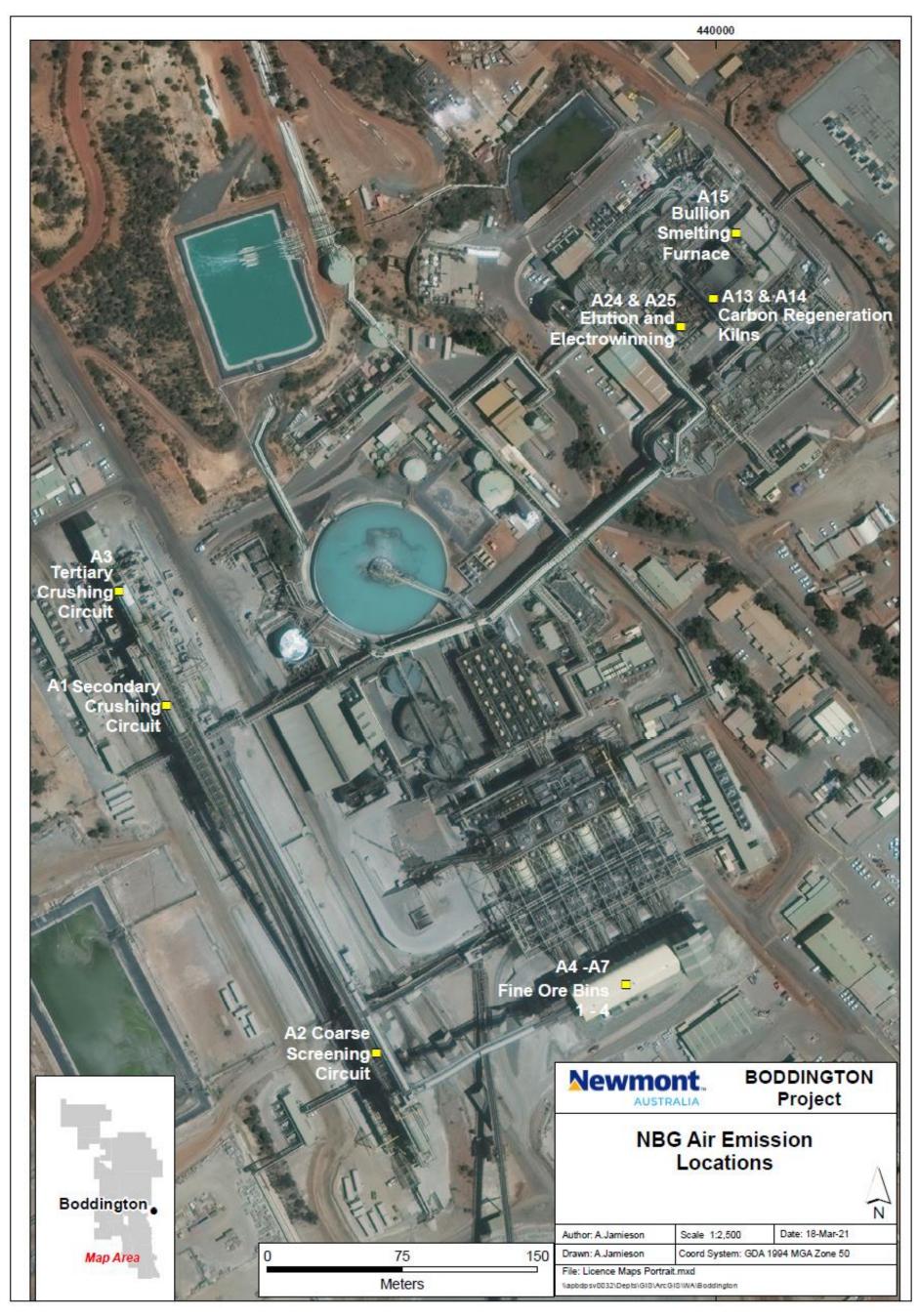


Figure 7: Air emission locations

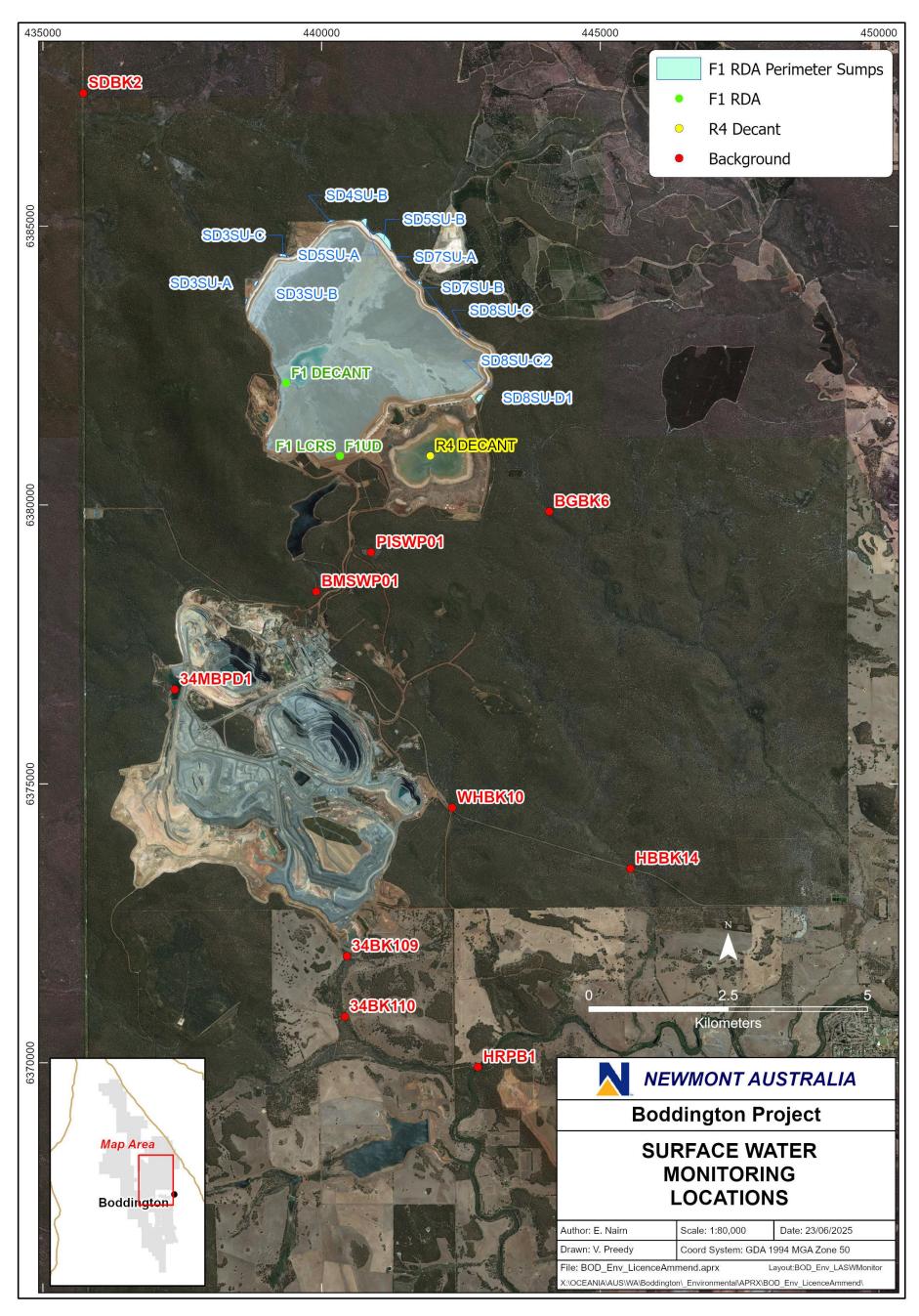


Figure 8: Surface water monitoring sites

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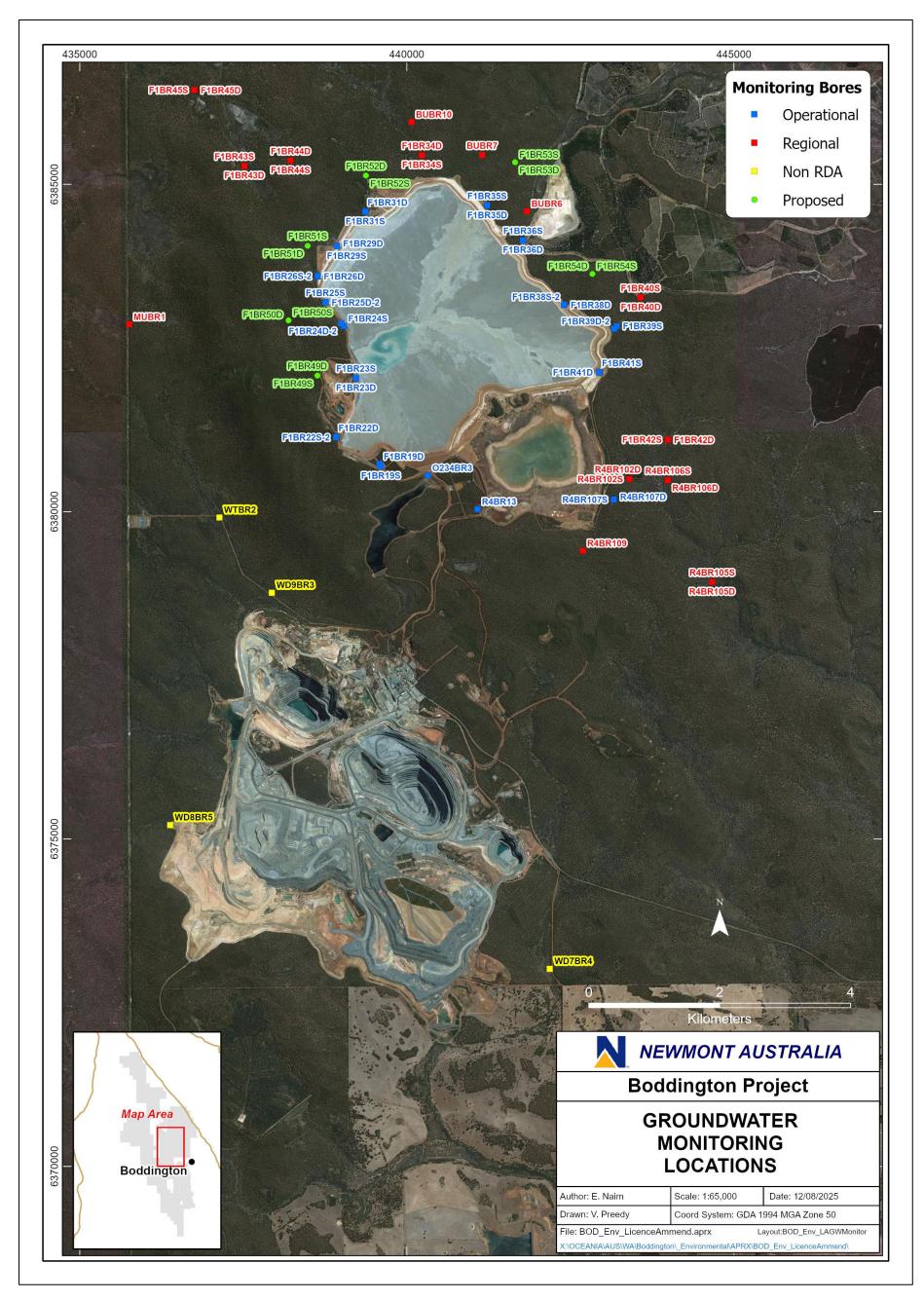


Figure 9: Groundwater monitoring bore locations

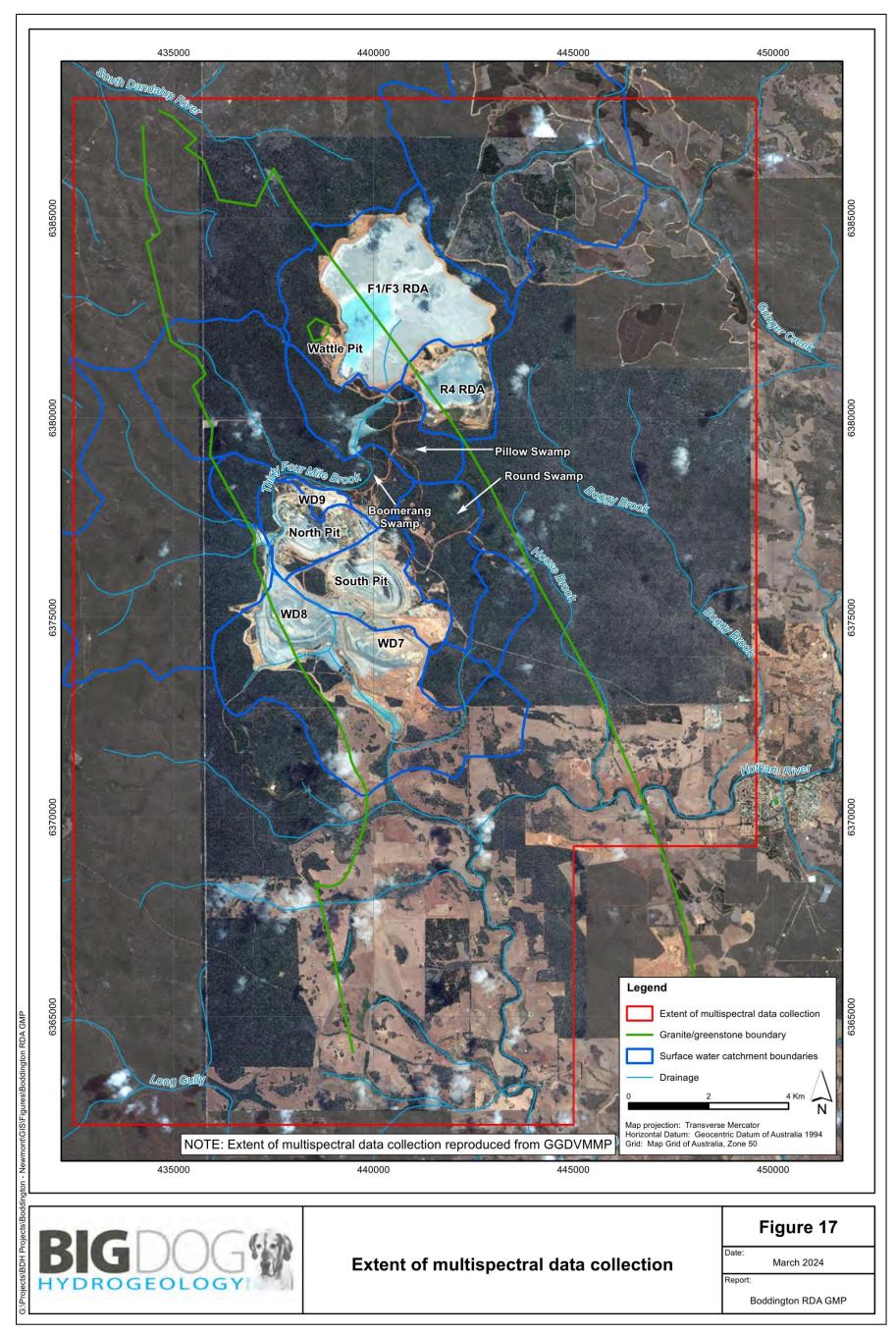


Figure 10: Extent of multispectral data collection for plant cell density monitoring



Figure 11: Indicative location for F1 RDA spillway

## **Schedule 2: Construction drawings**

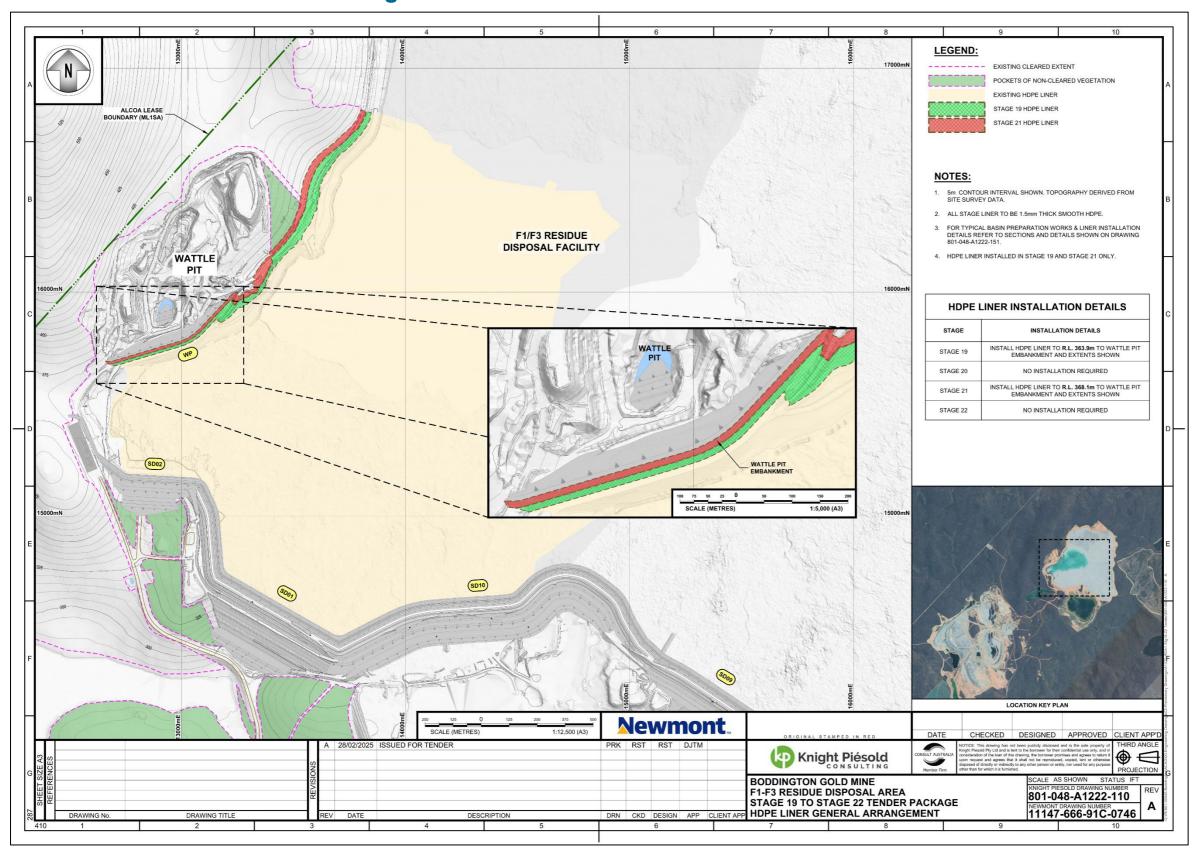


Figure 12: HDPE liner extent for F1 RDA embankment raises

L8306/2008/3 (Amended: 13 August 2025)

IR-T06 Licence template (v6.0) (February 2020)

## **Schedule 3: Notification & Forms**

Licence: Form:	L8306/2008/3 N1	Licence holder: Date of breach:	Newmont Boddington Gold Pty Ltd
			or any failure or malfunction of any nas caused, is causing or may cause
These pages o	outline the informati	on that the operator must p	rovide.
Units of measu	rement used in inf	ormation supplied under Par of the emission. Where app	rt A and B requirements shall be ropriate, a comparison should be made of
Part A			
Licence Number	er		
Name of opera	tor		
Location of Premises			
Time and date	of the detection		
Notification	requirements for	the breach of a limit	
	reference/ source	ine breach of a minit	
Parameter(s)	Telefence, 30dice		
Limit			
Measured value	 P		
Date and time of monitoring  Measures taken, or intended to			
be taken, to sto	•		
po takon, to otc	pp the emission		
_			
	-	=	of any pollution control equipment or
any incident	which has cause	d, is causing or may cause	e pollution
Date and time	of event		
	escription of the		
location of the	event		
Description of where any release			
into the enviror	nment took place		
Substances po	tentially released		
Best estimate of	of the quantity or		
rate of release	of substances		
Measures taken , or intended to			

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## OFFICIAL

be taken, to stop any emission	
Description of the failure or	
accident	

## Part B

I all B	
Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to	
prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify,	
limit or prevent any pollution of the environment	
which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the	
Premises in the preceding 24 months.	
Name	
Post	
Signature on behalf of	
Date	