

# Licence

Licence number	L8199/2007/2
Licence holder	Chichester Metals Pty Ltd
ACN (if applicable)	109 264 262
Registered business address	87 Adelaide Terrace EAST PERTH WA 6872
DWER file number	DER2013/001073-2
Duration	02/02/2012 to 03/02/2032
Date of amendment	26 August 2024
Premises details	Cloudbreak Iron Ore Mine
	Mining Tenements M45/1126, M46/401, M46/404, M46/405, M46/356, M46/402, M46/410, M46/411, M46/357, M46/453, M45/1128, M46/449, M46/452, M46/451, M46/454, M46/450, M45/1084, M45/1140, M45/1139, M45/1102, M45/1105, M45/1124, M45/1103, M45/1106, M45/1125, M45/1104, M45/1107, M45/1082, 45/1083, M45/1127, M45/1138, M45/1263, M45/1303, M46/403, M46/406, M46/407, M46/408, M46/409, M46/412, M46/413, M46/414, L46/46, L46/47, L46/48, L46/49, L46/51, L46/52, L46/57, L46/62, L46/64, L46/96 L46/99,

#### MULGA DOWNS WA 6751

E45/2499, E45/2652, E45/2497, E45/6960

As defined by Figure 1 in Schedule 1 of the Revised Licence

L46/130, L45/152 and Exploration Leases E45/2498, E46/590, E46/612,

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	50,000,000 tonnes per Annual Period
Category 6: Mine dewatering	Maximum of 175,000,000 tonnes per Annual Period (reinjected)
Category 52: Electric power generation	50.6 megawatts
Category 54: Sewage facility	812 cubic metres per day
Category 57: Used tyre storage	2,000 tyres
Category 64: Class II putrescible landfill site	10,000 tonnes per Annual Period
Category 73: Bulk storage of chemicals, etc.	7,700.5 cubic metres
Category 77: Concrete batching or cement products manufacturing	55,000 tonnes per annum

This licence is granted to the Licence holder, subject to the attached conditions, on 26 August 2024.

#### Alana Kidd

#### Manager, Green Energy

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

# Licence history

Date	Reference number	Summary of changes	
31/01/2008	L8199/2007/1	New Licence	
14/01/2010	L8199/2007/1	Licence amendment	
16/09/2010	W4765/2010/1	Saline reinjection trial	
09/12/2010	W4737/2010/1	Tailings storage facility	
30/12/2010	L8199/2007/1	Licence amendment	
27/01/2011	W4801/2010/1	Cloudbreak Camp Wastewater Treatment Plant Upgrade	
22/09/2011	W4995/2011/1	New desand plant	
05/01/2012	L8199/2007/1	Licence amendment	
02/02/2012	L8199/2007/2	Licence reissue	
09/08/2012	L8199/2007/2	Licence amendment to increase the capacity of category 6 from 25 mtpa to 48 mtpa	
22/11/2012	W5275/2012/1	Increase dewatering water reinjection to 85 GLpa	
14/03/2013	L8199/2007/2	Licence amendment to increase the capacity of category 52, inclusion of category 73 and replacing category 89 with category 64	
18/07/2013	L8199/2007/2	Licence amendment to increase the capacity for category 6, 54 and 73 and removal of vegetation health monitoring requirements as regulated under Part IV of the Act	
04/07/2013	W5381/2013/1	Brampton tailings storage facility	
28/11/2013	L8199/2007/2	Licence amendment to facilitate the construction and operation of additional mobile crushing and screening facilities, to include the monitoring of groundwater bores associated with the operation of the Brampton Phase 2 TSF and to lengthen the landfill tipping length	
16/04/2014	L8199/2007/2	Licence amendment to increase the capacity for category 6 from 85 mtpa to 95 mtpa for reinjection	
22/05/2014	W5642/2014/1	Magnetic separator	
18/12/2014	L8199/2007/2	Licence amendment to increase category 6 from 95 mtpa to 115 mtpa for groundwater reinjection and increase category 73 from 6,132 m <sup>3</sup> to 7,700.5 m <sup>3</sup>	
04/06/2015	W5815/2015/1	Brampton above ground tailings storage facility	
17/12/2015	L8199/2007/2	Licence amendment to modify the groundwater monitoring requirements for the bulk fuel facility, expand the prescribed premises boundary, update the landfill requirements, include two groundwater monitoring bores associated with the landfill, increase mine dewatering abstraction and reinjection from 115 mtpa to 150 mtpa and replace 18 of the power station gensets over the next 1 to 2 years and conversion to updated licence template	

29/04/2016         L8199/2007/2         Amendment to extend licence expiry date to 3 February 2032           01/03/2017         L8199/2007/2         Licence amendment to include specific groundwater emission points and monitoring requirements, remove reference to the implementation of the <i>Cloudbreak Water Management Scheme</i> , changes to the landfill ambient groundwater monitoring, increase category 5 production capacity and removal of conditions that are not valid, enforceable or risk-based           27/02/2018         L8199/2007/2         Amendment Notice 1           14/11/2018         L8199/2007/2         Licence amendment to include the construction and operation of the Norfolk and Kangaroo transfer ponds           07/12/2018         L8199/2007/2         Licence amendment to remove perchlorate lons from Table 3.6.1 for ambient groundwater monitoring at the TSF           23/07/2019         L8199/2007/2         Licence amendment to allow the disposal of reverse comosis reject water to be discharged to the existing Cloudbreak Camp irrigation area; and the inclusion of additional areas for the disposal of tyres and conveyor belts           3/06/2020         L8199/2007/2         Licence amendment to rubroirs new saline injection bores (Qakover aquifer), new groundwater monitoring bores, reduced TSF inspection frequency for Brampton Phase 3 TSF when not operational and to remove inactive monitoring bores.           16/12/2020         L8199/2007/2         Licence amendment for the following: • Construction of additional saline water injection from the dewatering of Bigge mining pits; • Bisposal of HDPE liner and piping into existing pits and waste dumps where tyres and con	Date	Reference number	Summary of changes	
points and monitoring requirements, remove reference to the implementation of the <i>Cloudbreak Water Management Scheme</i> , changes to the landfill ambient groundwater monitoring, increase category 5 production capacity and removal of conditions that are not valid, enforceable or risk-based           27/02/2018         L8199/2007/2         Amendment Notice 1 Licence amendment to include the construction and operation of the Norfolk and Kangaroo transfer ponds           14/11/2018         L8199/2007/2         Licence amendment to construct and operate the Brampton Southern Strips In-Pit TSF, changes to the licence relating to category 52 and the premises boundary           07/12/2018         L8199/2007/2         DWER initiated amendment to remove perchlorate ions from Table 3.6.1 for ambient groundwater monitoring at the TSF usence amendment to allow the disposal or reverse osmosis reject water to be discharged to the existing Cloudbreak Camp irrigation area; and the inclusion of additional areas for the disposal or tyres and conveyor belts           3/06/2020         L8199/2007/2         Licence amendment to authorise new saline injection bores (Dakover aquifer), new groundwater monitoring bores, reduced TSF inspection frequency for Brampton Phase 3 TSF when not operational and to remove inactive monitoring bores.           18/12/2020         L8199/2007/2         Licence amendment for the following: • Construction of additional saline injection bores to assist with an anticipated increase in saline water injection bores to assist with an anticipated increase in saline water injection form the dewatering of Bigge mining pits; • Disposal of HDPE liner and piping into existing pits and waste dumps where tyres and conveyor belts are disposed of; • Updating the definitions 1996 as	29/04/2016	L8199/2007/2	Amendment to extend licence expiry date to 3 February 2032	
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14/11/2018         L8199/2007/2         Licence amendment to construct and operate the Brampton Southern Strips In-Pit TSF, changes to the licence relating to category 52 and the premises boundary           07/12/2018         L8199/2007/2         DWER initiated amendment to remove perchlorate ions from Table 3.6.1 for ambient groundwater monitoring at the TSF           23/07/2019         L8199/2007/2         Licence amendment to allow the disposal of reverse osmosis reject water to be discharged to the existing Cloudbreak Camp irrigation area; and the inclusion of additional areas for the disposal of tyres and conveyor belts           3/06/2020         L8199/2007/2         Licence amendment to authorise new saline injection bores (Oakover aquifer), new groundwater monitoring bores, reduced TSF inspection frequency for Brampton Phase 3 TSF when not operational and to remove inactive monitoring bores.           16/12/2020         L8199/2007/2         Licence amendment for the following: <ul> <li>Construction of additional saline injection bores to assist with an anticipated increase in saline water injection from the dewatering of Bigge mining pits;</li> <li>Revision of the saline injection point to allow for sufficient monitoring of the water quality of additional saline water is anticipated to be reinjected into the Oakover aquifer;</li> <li>Construct a Bigge transfer and settlement pond to support the additional saline water abstracted from the Bigge mining pits;</li> <li>Disposal of HDPE liner and piping into existing pits and waste dumps where tyres and conveyor belts are disposed of;</li> <li>Updating the definitions of 'Ucen Fill' and a new definition of 'Uncontaminated Fill' have been included</li> <li>Changi</li></ul>	27/02/2018	L8199/2007/2	Licence amendment to include the construction and operation of the	
3.6.1 for ambient groundwater monitoring at the TSF           23/07/2019         L8199/2007/2         Licence amendment to allow the disposal of reverse osmosis reject water to be discharged to the existing Cloudbreak Camp irrigation area; and the inclusion of additional areas for the disposal of tyres and conveyor belts           3/06/2020         L8199/2007/2         Licence amendment to authorise new saline injection bores (Oakover aquifer), new groundwater monitoring bores, reduced TSF inspection frequency for Brampton Phase 3 TSF when not operational and to remove inactive monitoring bores.           16/12/2020         L8199/2007/2         Licence amendment for the following: <ul> <li>Construction of additional saline injection bores to assist with an anticipated increase in saline water injection from the dewatering of Bigge mining pits;</li> <li>Revision of the saline injection pipeline sample point to allow for sufficient monitoring of the water quality of additional saline water is anticipated to be reinjected into the Oakover aquifer;</li> <li>Construct a Bigge transfer and settlement pond to support the additional saline water bastracted from the Bigge mining pits;</li> <li>Disposal of HDPE liner and piping into existing pits and waste dumps where tyres and conveyor belts are disposed of;</li> <li>Updating the definitions of the Landfill Waste Classification and Waste Definitions 1996 as the definitions of 'Clean Fill' and a new definition of 'Uncontaminated Fill' have been included</li> <li>Changing the WWTP irrigation area; and</li> <li>Removal of saline injection bores RP208, SRP209, SRP210, SRP211, SRP211 and SRP212 as compliance documentation has been received.</li> </ul> <li>O1/04/2021</li> <li>L819</li>	14/11/2018	L8199/2007/2	Licence amendment to construct and operate the Brampton Southern Strips In-Pit TSF, changes to the licence relating to	
water to be discharged to the existing Cloudbreak Camp irrigation area; and the inclusion of additional areas for the disposal of tyres and conveyor belts         3/06/2020       L8199/2007/2       Licence amendment to authorise new saline injection bores (Oakover aquifer), new groundwater monitoring bores, reduced TSF inspection frequency for Brampton Phase 3 TSF when not operational and to remove inactive monitoring bores.         16/12/2020       L8199/2007/2       Licence amendment for the following:         16/12/2020       L8199/2007/2       Licence amendment for the saline injection bores to assist with an anticipated increase in saline water injection from the dewatering of Bigge mining pits;         16/12/2020       L8199/2007/2       Construct a Bigge transfer and settlement pond to allow for sufficient monitoring of the water quality of additional saline water is anticipated to be reinjected into the Oakover aquifer;         •       Construct a Bigge transfer and settlement pond to support the additional saline water is anticipated to be reinjected into the Susport the additional saline water befinitions of the Landfill Waste Classification and Waste Definitions of 1996 as the definitions of Clean Fill' and a new definition of 1906 as the definitions of Clean Fill' and a new definition rea; and         01/04/2021       L8199/2007/2       Licence amendm	07/12/2018	L8199/2007/2		
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<ul> <li>Construction of additional saline injection bores to assist with an anticipated increase in saline water injection from the dewatering of Bigge mining pits;</li> <li>Revision of the saline injection pipeline sample point to allow for sufficient monitoring of the water quality of additional saline water is anticipated to be reinjected into the Oakover aquifer;</li> <li>Construct a Bigge transfer and settlement pond to support the additional saline water abstracted from the Bigge mining pits;</li> <li>Disposal of HDPE liner and piping into existing pits and waste dumps where tyres and conveyor belts are disposed of;</li> <li>Updating the definitions of the Landfill Waste Classification and Waste Definition of 'Uncontaminated Fill' have been included</li> <li>Changing the WWTP irrigation area to reflect the correct size the irrigation area; and</li> <li>Removal of saline injection bores RP208, SRP209, SRP210, SRP211 and SRP212 as compliance documentation has been received.</li> <li>Ulicence amendment for the following:</li> <li>Construction and operation of an additional 81 reinjection bores; and</li> <li>Extension to the saline pipeline. Licence reformatted into current Licence template with condition numbers modified.</li> </ul>	3/06/2020	L8199/2007/2	Licence amendment to authorise new saline injection bores (Oakover aquifer), new groundwater monitoring bores, reduced TSF inspection frequency for Brampton Phase 3 TSF when not	
01/04/2021       L8199/2007/2         L8199/2007/2       Licence amendment for the saline pipeline.	16/12/2020	L8199/2007/2	Licence amendment for the following:	
01/04/2021       L8199/2007/2         L8199/2007/2       Licence amendment for the following:         01/04/2021       L8199/2007/2			anticipated increase in saline water injection from the	
additional saline water abstracted from the Bigge mining pits;         Disposal of HDPE liner and piping into existing pits and waste dumps where tyres and conveyor belts are disposed of;         Updating the definitions of the Landfill Waste Classification and Waste Definitions 1996 as the definitions of 'Clean Fill' and a new definition of 'Uncontaminated Fill' have been included         Changing the WWTP irrigation area to reflect the correct size the irrigation area; and         Removal of saline injection bores RP208, SRP209, SRP210, SRP211 and SRP212 as compliance documentation has been received.         01/04/2021       L8199/2007/2         Licence amendment for the following:         Construction and operation of an additional 81 reinjection bores; and         Extension to the saline pipeline.         Licence reformatted into current Licence template with condition numbers modified.			sufficient monitoring of the water quality of additional saline	
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<ul> <li>bores; and</li> <li>Extension to the saline pipeline.</li> <li>Licence reformatted into current Licence template with condition numbers modified.</li> </ul>	01/04/2021	L8199/2007/2	Licence amendment for the following:	
Licence reformatted into current Licence template with condition numbers modified.				
numbers modified.			Extension to the saline pipeline.	
21/07/2023 L8199/2007/2 Licence amendment for the following:			•	
	21/07/2023	L8199/2007/2	Licence amendment for the following:	

Date	Reference number	Summary of changes		
		<ul> <li>Rename the existing "Bigge Transfer Pond" to "Garden Transfer Pond 1";</li> </ul>		
		<ul> <li>Include the existing CBCC Saline Transfer Pond that was constructed in 2014;</li> </ul>		
		<ul> <li>Include the installation of multiple additional spigots at Brampton TSF;</li> </ul>		
		<ul> <li>Include additional dewatering infrastructure to equip additional bores required at the existing saline infrastructure due to new point source emissions required to groundwater table; and</li> </ul>		
		<ul> <li>Additional 250 EP WWTP at the Cloudbreak West Village to support the accommodation of personnel adjacent to the Bigge Mining area.</li> </ul>		
26 08/ 2024	L8199/2007/2	Licence amendment for the following:		
		<ul> <li>increase Brampton in-pit tailings storage facility (TSF) maximum tailings elevation deposition point from the existing 423 metres relative level (m RL) to 426.7 m RL;</li> </ul>		
		<ul> <li>increase the maximum groundwater reinjection limit from 150 gigalitres (GL) per annum to the 175 GL per annum; and</li> </ul>		
		<ul> <li>addition of prescribed premises category 77 (concrete batching) to allow concrete batching/cement products manufacturing up to 55,000 tonnes per annum for use on projects both within and outside the prescribed premises.</li> </ul>		

## 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**

## Infrastructure and equipment

- 1 The Licence Holder shall ensure that all pipelines or sections of pipelines containing tailings and high risk saline pipelines (as identified on the map of environmentally sensitive areas depicted in Figure 2, Schedule 1) are:
  - (a) Either equipped with telemetry; 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.
- 2 The Licence Holder shall ensure that waste material is only stored and/or treated within vessels or compounds listed in Table 1 and identified on the map of containment infrastructure in Schedule 1, in accordance with the requirements specified within Table 1.

Storage vessel or compound	Material	Requirements		
TSFs	Tailings	• Maintain a minimum 0.5 m freeboard in addition to capacity to contain a 1 in 100 year storm event over 72 hours from the operational pond surface to lowest elevation of perimeter embankment; and		
		• Visual markers installed at the deposition ramp for freeboard monitoring.		
		Brampton In-Pit TSF		
		Maximum operating level of Reduced Level 418.1 m; and		
		<ul> <li>Maximum tailings elevation at deposition point Reduced Level 426.7 m.</li> </ul>		
		Tailings Deposition Pipeline		
		Multiple disposal points; and		
		• Deposition pipe extended at least 10-15 m away from the northern boundary wall.		
		Tailings Delivery Pipelines		
		Constructed of HDPE and/or steel;		
		<ul> <li>All pipeline routes to follow existing road networks and pipeline corridors, where possible;</li> </ul>		
		• Flow meters installed at the start and near the end of the deposition pipelines (or as close to the end as operationally possible); and		
		Pressure sensors installed along deposition pipelines.		
Settlement ponds	Water	HDPE liner/concrete or similar impermeable layer; and		
		Minimum vertical freeboard of 200 mm.		
Transfer ponds	Saline water	HDPE liner/concrete or similar impermeable layer; and		
		Minimum vertical freeboard of 200 mm.		

**Table 1: Containment infrastructure** 

Sumps at Bulk Fuel Facilities	Potentially hydrocarbon contaminated stormwater	<ul> <li>HDPE liner/concrete or similar impermeable layer; and</li> <li>Minimum vertical freeboard of 200 mm for structures which are over 1,000 mm in depth.</li> </ul>
Heavy vehicle wash down facility treated oily water storage ponds	Potentially hydrocarbon contaminated treated wastewater from oily water separators	<ul> <li>HDPE liner/concrete or similar impermeable layer; and</li> <li>Minimum vertical freeboard of 200 mm.</li> </ul>
Jacanas WWTP treatment tanks	Wastewater	Minimum vertical freeboard of 300 mm.

- **3** 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 record of all inspections undertaken.

#### Table 2: Inspection of infrastructure

Scope of inspection	Type of inspection	Frequency of inspection
Tailings delivery pipelines	Visual integrity	Daily whilst operational
Tailings decant water return pipelines	Visual integrity	Daily whilst operational
Tailings storage facility embankment freeboard	Visual to confirm required freeboard capacity is available	Daily whilst operational and within 24 hours of a significant rainfall event when access permits; OR Fortnightly whilst not operational and within 24 hours of a significant rainfall event when access permits.
Saline injection infrastructure (transfer ponds and pipelines)	Visual integrity	Daily
Bulk fuel facility	Leak detection system to identify potential leaks	Daily

- **4** The Licence Holder shall undertake an annual water balance for the TSFs. The water balance shall as a minimum consider the following:
  - (a) Site rainfall;
  - (b) Evaporation;
  - (c) Tailings return water recovery volumes;
  - (d) Seepage recovery volumes; and
  - (e) Volumes of tailings deposited.

5 The Licence Holder shall ensure that where wastes produced on the Premises are not taken off-site for lawful use or disposal, they are managed in accordance with the requirements in Table 3.

Waste type	Management strategy	Requirements
Sewage	Biological, physical and chemical treatment	812 m <sup>3</sup> /day cumulatively
Inert Waste Type 1 Putrescible Waste Clean Fill Uncontaminated Fill	Receipt, handling and disposal of waste by landfilling Clean Fill and Uncontaminated Fill landfilling into waste rock materials or completed mining	<ul> <li><u>All waste types</u></li> <li>No more than 10,000 tonnes per year of all waste types cumulatively shall be disposed of by landfilling;</li> <li>Disposal of waste by landfilling shall only take place within the landfill area shown on the Map of emission points in Schedule 1; and</li> <li>Landfilling of Clean Fill and Uncontaminated Fill shall only take place within waste rock materials or completed mining voids and/or waste rock dumps</li> </ul>
Contaminated Solid Waste meeting the acceptance criteria for Class I or II landfills as detailed in the Landfill Definitions	voids and/or waste rock dumps Receipt, handling and disposal of waste by landfilling	<ul> <li>binpleted mining volds and/or waste rock damps shown on the map of emission point in Schedule 1.</li> <li>Disposal of steel, untreated timber and concrete in mining volds and waste rock facilities shall only occur at the locations shown on the Map of emissions points in Schedule 1;</li> <li>Waste shall be placed in a defined trench or within an area enclosed by earthen bunds;</li> <li>The active tipping area shall be restricted to a maximum linear length of 100 m; and</li> <li>Construction, operation and decommissioning of landfill cells can occur within the defined landfill area providing there is no waste within:</li> <li>&gt; 50 m of any surface water body; and</li> <li>&gt; 3m of the highest level of the water table aquifer</li> </ul>
Inert Waste Type 2 (HDPE liner, HDPE piping, used tyres and conveyor belts)	Storage Burial in waste rock materials or completed mining voids and/or waste rock dumps	<ul> <li>Not more than 2,000 used tyres shall be stored at the premises at any one time;</li> <li>Used tyre stacks shall not exceed 500 tyres per stack and 5 m in height;</li> <li>Used tyre stacks are to be stored no less than 6 m from any other tyre stacks; and</li> <li>The waste tyre stockpiles shall not exceed 1,000 m<sup>3</sup> in area</li> <li>Tyres must be placed in cells of less than 1,000 tyres;</li> <li>Cover of at least 1 m of waste rock will be placed over each cell;</li> <li>Landfilling of HDPE liner, HDPE piping, tyres and conveyor belts shall only take place within the Pits and</li> </ul>

### Table 3: Management of waste<sup>1, 2, 3</sup>

Waste type	Management strategy	Requirements
		Waste Rock Dumps shown on the Map of emission points in Schedule 1; and
		<ul> <li>Cell locations where HDPE liner, HDPE piping, tyres and conveyor belts are to be buried will be surveyed and the latitude and longitude recorded</li> </ul>

Note 1: Requirements for landfilling tyres are set out in Part 6 of the *Environmental Protection Regulations1987*. Note 2: Additional requirements for the acceptance and landfilling of Controlled waste (including asbestos and tyres)

are set out in the Environmental Protection (Controlled Waste) Regulations 2004.

Note 3: Clean Fill and Uncontaminated Fill can be used as cover for landfill capping.

6 The Licence Holder shall ensure that cover is applied and maintained on landfilled wastes in accordance with Table 4 and that sufficient stockpiles of cover are maintained on site at all times.

#### Table 4: Cover requirements<sup>1</sup>

Waste Type	Material	Depth	Timescales
Putrescible waste	Inert and incombustible material	300 mm	As soon as practicable, but at least weekly, after deposit
All waste		1,000 mm	Within three months of the final waste load in each trench

Note 1: Additional requirements for the covering of tyres are set out in Part 6 of the *Environmental Protection Regulations* 1987.

- 7 The Licence Holder is to ensure that windblown waste is maintained within the landfill area and that windblown waste outside the landfill area is collected on at least a monthly basis and returned to the active tipping area.
- 8 The Licence Holder must construct and/or install the infrastructure listed in Table 5, in accordance with:
  - (a) the corresponding design and construction requirement / installation requirement; and
  - (b) at the corresponding infrastructure location; and
  - (c) within the corresponding timeframe,
  - as set out in Table 5.

#### Table 5: Design and construction/installation requirements

Infrastructure	Requirements (Design and construction)	Infrastructure location
Brampton In-Pit TSF	<ul> <li>Decant Return Water Pipeline</li> <li>Transportable pump and suction line to recover water from the In-Pit TSF; and</li> <li>Decant water pipeline from the In-Pit TSF for reuse at the Ore Processing Facility.</li> </ul>	Figure 15, Schedule 1
Bigge saline injection bores	<ul> <li>Must be installed for the purpose of targeting reinjection of saline groundwater in Oakover aquifer only at</li> </ul>	As depicted in Figure 5, Figure 6, Figure 7 and

Infrastructure	Requirements (Design and construction)	Infrastructure location
SRP213,         SRP217,         SRP231,           SRP237         SRP233,         SRP234,           Bigge         and         Garden         saline           injection bores         SRP248,         SRP249,         SRP250,           SRP251,         SRP252,         SRP253,         SRP254,         SRP252,         SRP259,           SRP257,         SRP258,         SRP262,         SRP262,         SRP264,         SRP262,           SRP260,         SRP261,         SRP262,         SRP263,         SRP264,         SRP269,           SRP270,         SRP271,         SRP272,         SRP270,         SRP274,         SRP275,           SRP270,         SRP274,         SRP278,         SRP279,         SRP280,         SRP278,           SRP279,         SRP280,         SRP281,         SRP284,         SRP284,         SRP284,           SRP284,         SRP285,         SRP280,         SRP290,         SRP290,         SRP291,         SRP292,         SRP293,           SRP294,         SRP295,         SRP299,         SRP300,         SRP301,         SRP302,           SRP300,         SRP301,         SRP303,         SRP311,         SRP314,           SRP312,         SRP310,         SR	<ul> <li>locations as depicted in the Maps titled <i>The location of the brackish and saline water emission points</i> in Schedule 1 of this Licence</li> <li>Downhole flow control valves, flow meters, pressure gauges must be installed.</li> <li>Installation survey: The vertical (top of casing) and horizontal position of each monitoring well must be surveyed and subsequently mapped by a suitably qualified surveyor.</li> <li>Well network map: a well location map (using aerial image overlay) must be prepared and must include the location of all monitoring wells in the monitoring network and their respective identification numbers.</li> </ul>	Figure 8, Schedule 1
Garden Transfer Pond 2	HDPE liner/concrete or similar impermeable layer; and	Figure 19, Schedule 1

Infrastructure	Requirements (Design and construction)	Infrastructure location
	Minimum vertical freeboard of 200 mm.	
Garden Mining Pits Pipelines Eastern and Central Cloudbreak Pipeline Extension	<ul> <li>Either equipped with telemetry; or</li> <li>Equipped with automatic cut-outs in the event of a pipe failure; or</li> <li>Provided with secondary containment sufficient to contain any spill for a period equal to the time between routine inspections</li> </ul>	Figure 2, Schedule 1
Cloudbreak West Village Camp WWTP	<ul> <li>Capacity 87.5 m³/day, plus 30 m³/day reverse osmosis reject water ;</li> <li>Influent Screening and Flow Balancing;</li> <li>Anoxic tank;</li> <li>Aeration/Decant (A/D) Tank;</li> <li>Effluent Tank;</li> <li>Reverse Osmosis Brine Tank;</li> <li>Overflow piping is installed on the balance tank, anoxic tank, aeration/decant tank, and effluent tank with WWTP tank high-level alarm activated before overflow into the containment lagoon;</li> <li>Overflow Lagoon with storage capacity of 200,000 L, equivalent to more than two days storage of influent sewage from a fully occupied village;</li> <li>Waste sludge storage/thickening tank</li> <li>Design effluent quality criteria:</li> <li>pH 6.8 – 8.5 pH units;</li> <li>Biochemical Oxygen Demand &lt;20mg/L;</li> <li>Total Suspended Solids &lt;30mg/L;</li> <li>Total Nitrogen &lt;30mg/L;</li> <li>Total Phosphorus &lt;10mg/L;</li> <li>E.coli &lt;1,000 cfu/100mL; and</li> <li>Free Chlorine 0.2 – 2.0 mg/L;</li> <li>Main tanks have an overflow pipe installed and plumbed to a below-ground spill containment pond. The WWTP compound is surrounded by an earthen bund designed to contain any potential spills and direct it to the spill containment pond; and</li> <li>Installed on the compact ground to</li> </ul>	Figure 17, Schedule 1

Infrastructure	Requirements (Design and construction)	Infrastructure location
	control the unplanned release of wastewater.	
Cloudbreak West Village Camp WWTP Irrigation Area	<ul> <li>3.0 hectares;</li> <li>Fenced with warning signage preventing unauthorised entry fixated around the perimeter of the fence;</li> <li>Maximum design Total Nitrogen and Total Phosphorus loading rates: <ul> <li>Total Nitrogen 480 kg/ha/yr; and</li> <li>Total Phosphorus 120 kg/ha/yr; and</li> </ul> </li> <li>Stormwater diverted away from the irrigation area by diversion drains and bunding.</li> </ul>	Figure 19, Schedule 1
Concrete batching plant	<ul> <li>Water cart used to manage dust during construction and operation</li> <li>Diversion structures including bunds, channels, and drains must be installed prior to commencement of construction activities to divert clean surface water flows around work areas and stockpiles;</li> <li>Plant located a minimum 50 metres away from major surface water bodies;</li> <li>Fitted with a dedicated spray water system to aggregate storage areas, consisting of multiple sprinklers positioned and operated to ensure full coverage to minimise dust during operation;</li> <li>Sediment basins installed to capture and manage stormwater in the work area;</li> <li>Storage areas for chemicals and hydrocarbons to be constructed with bunds and containment for spills.</li> </ul>	Error! Reference source not found., Schedule 1

**9** The Licence Holder shall operate the infrastructure specified in Table 5 of Condition 8 in accordance with the conditions of this Licence, following submission of the compliance documents required under condition 28.

## **Emissions and discharges**

#### Authorised discharge points for emissions

**10** The Licence Holder shall ensure that where waste is emitted to air from the emission points in Table 6 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this Licence.

#### Table 6: Emission points to air

Emission point reference and location on Map of emission points	Emission Point	Emission point height (m)	Source, including any abatement	
A1 – A23	23 x 2.2 MW diesel gensets	9.4	- Diesel fired genset engine; lo sulphur diesel fuel	
A24 – A26	3 x 1.6 MW emergency back- up diesel gensets	5.2		

**11** The Licence Holder shall ensure that where waste is emitted to surface water from the nominated contingency discharge points in Table 7 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this Licence.

Table 7: Point source emissions to surface water

Emission point reference	Description	Source including abatement
DP02_West DP12_East DP13_OPF	Contingency discharge of mine dewater in the event that reuse, reinjection, in pit disposal and temporary storage are not available or have been exhausted	Mine dewater

**12** The Licence Holder shall ensure that where waste is emitted to groundwater from the emission points in Table 8 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this Licence.

#### Table 8: Point source emissions to groundwater

Emission point reference and location on Map of	Description	Source including abatement	
Saline Injection Bores           SRP203, SRP204, SRP205, SRP206, SRP207,           SRP190, SRP191, SRP192, SRP193, SRP194,           SRP195, SRP196, SRP201, SRP202, SRP187,           SRP173, SRP174, SRP175, SRP176, SRP165,           SRP166, SRP167, SRP168, SRP169, SRP170,           SRP119, SRP120, SRP121, SRP67, SRP68,           SRP69, SRP37R, SRP38R, SRP39R, SRP40R,           SRP41R, SRP42R, SRP43R, SRP44R, SRP45R,           SRP84, SRP85, SRP86, SRP87, SRP88, SRP89,           SRP90, SRP91, SRP92, SRP93, SRP70, SRP71,           SRP72, SRP73, SRP74, SRP75, SRP76, SRP77,           SRP78, SRP79, SRP10, SRP11, SRP13, SRP15,           SRP16, SRP17, SRP07R, SRP08R, INJ01, INJ01R,           SRP83R, SRP46, SRP47, SRP48, SRP19, SRP20,           SRP110, SRP111, SRP112, SRP113, SRP114,           SRP105, SRP106, SRP107, SRP108, SRP50,           SRP105, SRP106, SRP107, SRP108, SRP57r,           SRP21R, SRP82, SRP81, SRP14R, SRP28R,           SRP26R, SRP30R, SRP49, SRP50, SRP51,           SRP52, SRP53, SRP54, SRP55, SRP56, SRP57,           SRP58, SRP23R, SRP158, SRP32R, SRP145,           SRP58, SRP23R, SRP158, SRP32R, SRP145,           SRP58, SRP23R, SRP158, SRP32R, SRP145,           SRP56, SRP147, SRP159, SRP160, SRP161,           SRP36, SRP147, SRP159, SRP160, SRP145,           SRP36, SRP147, SRP159, SRP160, SRP145, <t< td=""><td>Brackish Injection Bores HSB36, HSB37, HSB38, HSB39, HSB40, HSB41, LHP01, LHP02, LHP03, LHP04, HSB01, HSB01R, HSB02BR, HSB02B, HSB34, HSB02B, HSB34, HSB07, HSB04A, HSB09, HSB08A, HSB07R</td><td>Direct injection below ground Injection into the Oakover aquifer only for Saline Injection Bores, and the Marra Mamba formation for Brackish Injection Bores only at locations depicted in the Maps titled The location of the brackish and saline water emission points in</td><td>Water from mine dewatering</td></t<>	Brackish Injection Bores HSB36, HSB37, HSB38, HSB39, HSB40, HSB41, LHP01, LHP02, LHP03, LHP04, HSB01, HSB01R, HSB02BR, HSB02B, HSB34, HSB02B, HSB34, HSB07, HSB04A, HSB09, HSB08A, HSB07R	Direct injection below ground Injection into the Oakover aquifer only for Saline Injection Bores, and the Marra Mamba formation for Brackish Injection Bores only at locations depicted in the Maps titled The location of the brackish and saline water emission points in	Water from mine dewatering

Emission point reference and location on Map of emission points	Description	Source including abatement
SRP155, SRP156, SRP59, SRP60, SRP61, SRP62, SRP63, SRP64, SRP96, SRP97, SRP98, SRP99	Schedule 1 of this Licence.	
SRP208, SR209, SR210, SRP211, SRP212 SRP213, SRP214, SRP215R, SRP216, SRP217, SRP218, SRP219, SRP220, SRP221, SRP222, SRP223, SRP224, SRP225, SRP226, SRP227, SRP228, SRP229, SRP230, SRP231, SRP232, SRP233, SRP234, SRP235, SRP236, SRP237	When connected to an active injection line, downhole flow control valves, flow meters, pressure gauges must be	
<ul> <li>SRP238, SRP239, SRP240, SRP241, SRP242,</li> <li>SRP243, SRP244, SRP245, SRP246, SRP247,</li> <li>SRP248, SRP249, SRP250, SRP251, SRP252,</li> <li>SRP253, SRP254, SRP255, SRP256, SRP257,</li> <li>SRP268, SRP259, SRP260, SRP261, SRP262,</li> <li>SRP268, SRP269, SRP270, SRP271, SRP272,</li> <li>SRP273, SRP274, SRP275, SRP276, SRP277,</li> <li>SRP278, SRP279, SRP280, SRP281, SRP282,</li> <li>SRP283, SRP284, SRP285, SRP286, SRP287,</li> <li>SRP288, SRP299, SRP290, SRP291, SRP292,</li> <li>SRP293, SRP294, SRP295, SRP296, SRP297,</li> <li>SRP298, SRP299, SRP300, SRP301, SRP302,</li> <li>SRP303, SRP304, SRP305, SRP306, SRP307,</li> <li>SRP308, SRP309, SRP310, SRP311, SRP312,</li> <li>SRP313, SRP314, SRP315, SRP316, SRP317,</li> <li>SRP 318</li> </ul>	maintained.	
SRP319, SRP320, SRP321, SRP322, SRP323, SRP324, SRP325, SRP326, SRP327, SRP328, SRP329, SRP330, SRP331, SRP332, SRP333, SRP334, SRP335, SRP336, SRP337, SRP338, SRP339, SRP340, SRP341, SRP342, SRP343, SRP344, SRP345, SRP346, SRP347, SRP348, SRP349, SRP350, SRP351, SRP352, SRP353, SRP354, SRP355, SRP356, SRP357, SRP358, SRP359, SRP360, SRP361, SRP362, SRP363, SRP364, SRP365, SRP366		
SRP367, SRP368, SRP369, SRP370, SRP371, SRP372, SRP373, SRP374, SRP375, SRP376, SRP377, SRP378, SRP379, SRP380, SRP381, SRP382, SRP383, SRP384, SRP385, SRP386, SRP387, SRP388, SRP389, SRP390, SRP391, SRP392, SRP393, SRP394, SRP395, SRP396		

**13** The Licence Holder shall ensure that where waste is emitted to land from the emission points in Table 9 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this Licence.

#### Table 9: Emissions to land

Emission point reference	Description	Source including abatement
L1 – Cloudbreak Camp irrigation area	Pipe feeding irrigation area of 20.05 hectares	Treated wastewater from Cloudbreak Camp WWTP and reverse osmosis reject water.
L2 – Cloudbreak West Village irrigation area	Pipe feeding irrigation area of 3 hectares	Treated wastewater from Cloudbreak West Village WWTP and reverse osmosis reject water

### Monitoring

#### **General monitoring**

- **14** The Licence Holder shall ensure that:
  - (a) All water samples are collected and preserved in accordance with AS/NZS 5667.1;
  - (b) All wastewater sampling is conducted in accordance with AS/NZS 5667.10;
  - (c) All surface water sampling is conducted in accordance with AS/NZS 5667.6;
  - (d) All groundwater sampling is conducted in accordance with AS/NZS 5667.11; and
  - (e) All laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured unless indicated otherwise in the relevant table.
- **15** The Licence Holder must ensure that:
  - (a) Monitoring is undertaken in each weekly period such that there are at least 4 days in between the days on which samples are taken in successive weeks;
  - (b) Monitoring is undertaken in each monthly period such that there are at least 15 days in between the days on which samples are taken in successive months;
  - (c) Monitoring is undertaken in each quarterly period such that there are at least 45 days in between the days on which samples are taken in successive quarters;
  - (d) Monitoring is undertaken in each six-monthly period such that there are at least 5 months in between the days on which samples are taken in successive periods of six months; and
  - (e) Monitoring is undertaken in each annual period such that there are at least 9 months in between the days on which samples are taken in successive years.
- **16** The Licence Holder must ensure that all monitoring equipment is operated and calibrated in accordance with the manufacturer's specifications.

#### **Discharge point monitoring**

**17** The Licence Holder shall undertake the monitoring in

**18** Table 10 according to the specifications in that Table.

### Table 10: Monitoring of point source emissions to surface water

Emission point reference	Parameter	Limit	Units	Frequency	
DP02_West DP12_East	Electrical conductivity	15,000	µS/cm	<ol> <li>30 minutes following commencement of discharge; and</li> <li>24 hourly intervals thereafter during the</li> </ol>	
DP13_OPF	Turbidity	100	NTU	duration of contingency discharge.	
	Cumulative water meter readings	-	m <sup>3</sup>	<ol> <li>Prior to discharge event at the designated discharge point; and</li> </ol>	
				<ol> <li>24 hourly intervals for the duration of the contingency discharge.</li> </ol>	

**19** The Licence Holder shall undertake the monitoring in Table 11 according to the specifications in that Table.

Emission point reference	Parameter	Units	Frequency
Each saline and brackish reinjection emission point referenced in Table 9	Volume	GLpa	Annually
Hillside West <sup>2</sup>	pH <sup>1</sup>	pH units	
SP0021_HSW_INJ	Electrical conductivity	µS/cm	
Brampton Saline <sup>3</sup>	Total Dissolved Solids	mg/L	
SP0139_BRP_SINJ	Total Suspended Solids	mg/L	
Long Saline <sup>3</sup> SP0023_LON_SINJ	Major cations and anions Sodium	mg/L	
SP0024_LON_SINJ SP0025_LON_SINJ	Potassium Calcium		
SP0026_LON_SINJ	Magnesium Chloride		Six monthly
SP0126_LOO_SINJ SP0127_LOO_SINJ	Alkalinity Sulfate		
Kangaroo Saline <sup>3</sup>	Nitrate Metals, Metalloids and Non-		
SP0029_KAN_SINJ SP0030_KAN_SINJ	<b>metals</b> Aluminium		
Norfolk Saline <sup>3</sup>	Antimony Arsenic		
SP0028_NOR_SINJ	Beryllium		
Bigge Saline <sup>3</sup>	Boron Cadmium		

Parameter	Units	Frequency
Chromium		
Cobalt		
Copper		
Iron Manganese		
Mercury		
Nickel		
Lead		
Selenium		
Silver		
Zinc		
	Chromium Cobalt Copper Iron Manganese Mercury Nickel Lead Selenium Silver	Parameter         Chromium         Cobalt         Copper         Iron         Manganese         Mercury         Nickel         Lead         Selenium         Silver

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

Note 2: Sampling at monitoring location SP0021\_HSW\_INJ only required when reinjection of brackish water occurring.

Note 3: Sampling at saline monitoring locations (Brampton, Long, Kangaroo, Norfolk, Garden and Bigge Saline) only required when reinjection of saline water occurring.

**20** The Licence Holder shall undertake the monitoring in Table 12 according to the specifications in that table.

Table 12: Monitoring of emissions to land

Emission point reference	Parameter	Units	Frequency
L1	Volumetric flow rate of effluent discharged to irrigation	m³/day	Monthly
	Volumetric flow rate of effluent discharged to dust suppression	m³/day	Montiny
	Biochemical Oxygen Demand	mg/L	
	Total suspended solids	mg/L	
	Total dissolved solids	mg/L	
	рН <sup>1</sup>	pH units	Quarterly
	Total Nitrogen	mg/L	
	Total Phosphorus	mg/L	
	E. coli	org/100mL	
L2	Volumetric flow rate of effluent discharged to irrigation	m³/day	Monthly
	Volumetric flow rate of reverse osmosis reject water discharged to irrigation	m³/day	
	Biochemical Oxygen Demand	mg/L	Quarterly

Emission point reference	Parameter	Units	Frequency
	Total suspended solids	mg/L	
	Total dissolved solids	mg/L	
	pH <sup>1</sup>	pH units	
	Total Nitrogen	mg/L	
	Total Phosphorus	mg/L	
	E. coli	org/100mL	

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

#### **Process monitoring**

**21** The Licence Holder shall undertake the monitoring in Table 13 according to the specifications in that table.

 Table 13: Process monitoring

Emission point reference	Monitoring point location	Parameter	Limit	Units	Frequency
	Final tracted	Volumetric flow rate	-	m <sup>3</sup> /day	
Heavy vehicle washdown facility oily water treatment ponds	Final treated wastewater pond prior to reuse for dust suppression	Total Recoverable Hydrocarbons	15	mg/L	Monthly
		Total Dissolved Solids	-	mg/L	

#### **Ambient monitoring**

**22** The Licence Holder shall undertake the monitoring in Table 14 according to the specifications in that table.

#### Table 14: Monitoring of ambient groundwater quality

Monitoring point reference and location <sup>2</sup>	Parameter	Units	Limit	Averaging period	Frequency
Landfill monitoring b	ores				
MW02r	Standing water level	mbgl	-		
MW03	pH <sup>1</sup>	pH units	-		
MW04 MW16	Electrical Conductivity <sup>1</sup>	µS/cm	-	Spot sample	Six monthly
MW17	Total Recoverable Hydrocarbons	mg/L	-		

Monitoring point reference and location <sup>2</sup>	Parameter	Units	Limit	Averaging period	Frequency
	Metals, Metalloids and Non- metals		-		
	Arsenic				
	Cadmium				
	Chromium				
	Copper				
	Mercury				
	Lead				
	Nickel				
	Zinc				
	Nitrate				
	Phosphate				
Brampton in-pit TSF	monitoring bores	-			
MDMW01	Standing water level	mbgl	4		
HSMB10A_S	pH <sup>1</sup>	pH units	-	-	
LNP02 LNP03	Electrical conductivity <sup>1</sup>	µS/cm	-		
LNP04	Total Dissolved Solids	mg/L	-	-	
BRM21 BRM39	Major cations and anions		-	-	
	Sodium				
	Potassium				
	Calcium				
	Magnesium	mg/L			
	Chloride	iiig/ E		Spot	
	Alkalinity			sample	Six monthly
	Sulfate				
	Nitrate				
	Ammonia				
	Metals, Metalloids and Non-metals		-		
	Aluminium				
	Arsenic				
	Antimony	mg/L			
	Beryllium				
	Boron				
	Cadmium				

Monitoring point reference and location <sup>2</sup>	Parameter	Units	Limit	Averaging period	Frequency
	Chromium				
	Cobalt				
	Copper				
	Iron				
	Lead				
	Manganese				
	Mercury				
	Nickel				
	Selenium				
	Silver				
	Thallium				
	Zinc				
Mine dewater reinjec	tion			1	1
HSMB20_D	Standing water level	mbgl	-		
SRM22	pH <sup>1</sup>	pH units	-		
SRM25 SRM43_D	Electrical conductivity <sup>1</sup>	µS/cm	-		
 SRM48_D	Total Dissolved Solids		-		
	Major cations and anions		-		
	Sodium				
	Potassium				
	Calcium				
	Magnesium				
	Chloride			Spot	Six monthly
	Alkalinity			sample	
	Sulfate	mg/L			
	Nitrate	ing/E			
	Metals, Metalloids and Non-metals				
	Aluminium				
	Antimony				
	Arsenic				
	Beryllium				
	Boron				
	Cadmium				

Monitoring point reference and location <sup>2</sup>	Parameter	Units	Limit	Averaging period	Frequency
	Chromium				
	Cobalt				
	Copper				
	Iron				
	Manganese				
	Mercury				
	Nickel				
	Lead				
	Selenium				
	Silver				
	Zinc				

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

Note 2: No sample required if bore is dry

## **Records and reporting**

- **23** The Licence Holder must maintain accurate and auditable books that include the following records, information, reports, and data required by this licence:
  - (a) The calculation of fees payable in respect of this licence;
  - (b) The works conducted in accordance with condition 8 of this licence;
  - (c) Any maintenance of infrastructure that is performed in the course of complying with condition 8 of this licence;
  - (d) Monitoring programmes undertaken in accordance with condition 17, condition 18, condition 19, condition 20 and condition 21 of this licence; and
  - (e) Complaints received under condition 24 of this licence.
- 24 The books specified under condition 22 must:
  - (a) Be legible;
  - (b) If amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
  - (c) Be retained by the Licence Holder for the duration of the licence; and
  - (d) Be available to be produced to an inspector or the CEO as required.
- **25** 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 of 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.

**26** The Licence Holder must submit to the CEO no later than 31 March each year after the end of each annual period, an Annual Environmental Report for that annual period for the conditions listed in Table 15, and which provides information in accordance with the corresponding requirement set out in Table 15.

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
Condition 4	Annual water balance	None specified
Condition 5, Table 3	Location of HPDE liner, HDPE piping, tyre and conveyor belt disposal areas	Map and grid coordinates
Condition 10, Table 6	Average percentage sulphur content of diesel fuel used	None specified
Condition 13, Table 9	L1 – representative photographs of the irrigation area, summary of vegetation health and weed management implemented during reporting period	None specified
	L2 – representative photographs of the irrigation area, summary of vegetation health and weed management implemented during reporting period	
Condition 17, Table 11	Contingency discharge monitoring	None specified
Condition 18, Table 11	Groundwater reinjection monitoring and a comparison of results against background water quality and/or established trigger values. Details of investigations conducted, including outcomes, environmental impacts and remedial actions, in relation to deviations from background water quality and/or trigger exceedances	None specified
Condition 19, Table 12	Monitoring of emissions to land and interpretation of results against plant design specifications	None specified
Condition 20, Table 13	Process monitoring results and interpretation of results	None specified
Condition 21, Table 14	Ambient groundwater monitoring and a comparison of results against background water quality and established trigger values. Details of investigations conducted, including outcomes, environmental impacts and remedial actions, in relation to deviations from background water quality and/or trigger exceedances	None specified
Condition 24	Complaints summary	None specified
Condition 27	Annual Audit Compliance Report	None specified

Table 15: Annual Environmental Report
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27 The Licence Holder shall ensure that the Annual Environmental Report also contains:

- (a) An assessment of the information contained within the report against previous monitoring results and Licence limits; and
- (b) A list of any original monitoring reports submitted to the Licence Holder from third parties for the annual period and make these reports available on request.
- **28** 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 31 March after the end of that annual period an Annual Audit Compliance Report in the approved form.
- **29** The Licence Holder shall ensure that the conditions listed in Table 16 are notified to the CEO in accordance with the notification requirements of the table.

**Table 16: Notification requirements** 

Condition or table (if relevant)	Parameter	Notification requirement <sup>1</sup>	Format or form <sup>2</sup>
Condition 5, Table 3	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the	N1
Condition 17, Table 11		next usual working day.	
Condition 20,		Part B: As soon as practicable.	
Table 13			
Condition 8	<ul> <li>The Licence Holder shall submit a compliance document to the CEO, following the construction and/or installation of an item of infrastructure or equipment required by Condition 8, Table 5. The compliance document/s shall:</li> <li>(a) be certified by a suitably qualified engineer and certify that the works were constructed in accordance with the construction requirements specified in Condition 8, Table 5;</li> <li>(b) plans for each item of infrastructure or component(s) thereof (as constructed) specified in condition 8; and</li> <li>(c) be signed by a person authorised to represent the Licence Holder and contain the printed name and position of that person within the company</li> </ul>	Within 30 days of the completion of construction	None specified
Condition 11, Table 7	Contingency discharge	Within 3 days of cessation of the discharge; and including results from the monitoring required under Condition 17 Table 10	None specified

Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act Note 2: Forms are in Schedule 3

## **Definitions**

In this licence, the terms in Table 17 have the meanings defined.

## Table 17: Definitions

Term	Definition		
ACN	Australian Company Number		
AHD	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 to 31 December in the same year		
AS/NZS 5667.1'	means the Australian Standard AS/NZS 5667.1 Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples		
AS/NZS 5667.6	means the Australian Standard AS/NZS 5667.6 Water Quality – Sampling – Guidance on sampling of rivers and streams		
AS/NZS 5667.10	means the Australian Standard AS/NZS 5667.10 Water Quality – Sampling – Guidance on sampling of waste waters		
AS/NZS 5667.11	means the Australian Standard AS/NZS 5667.11 Water Quality – Sampling – Guidance on sampling of groundwaters		
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		
Clean Fill	has the meaning defined in the Landfill Definitions		
controlled waste	has the definition in 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.		
discharge	has the same meaning given to that term under the EP Act.		
DWER	means Department of Water and Environmental Regulation		

Term	Definition
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)
freeboard	means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point
GLpa	means gigalitres per annum
HDPE	means high density polyethylene
Inert Waste Type 1	has the meaning defined in the Landfill Definitions
Inert Waste Type 2	has the meaning defined in the Landfill Definitions
Landfill Definitions	means the document titled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer of the Department of Water and Environmental Regulation as amended from time to time
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
MW	means megawatts
NATA	means the 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
NTU	means Nephelometric Turbidity Units
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises maps Figures 1 - 19
prescribed premises	has the same meaning given to that term under the EP Act.
putrescible waste	has the meaning defined in the Landfill Definitions
quarterly	means the 4 inclusive periods from 1 January to 31 March, 1 April to 30 June, 1 July to 30 September and 1 October to 31 December
RTU	means Remote Telemetry Units;
Schedule 1	means Schedule 1 of this Licence unless otherwise stated
six monthly'	means the 2 inclusive periods from 1 January to 30 June and 1 July to 31 December
spot sample	means a discrete sample representative at the time and place at which the sample is

Term	Definition
	taken
TSFs	means Tailings Storage Facilities
Uncontaminated Fill	has the meaning defined in the Landfill Definitions
µS/cm	means microsiemens per centimetre
waste	has the same meaning given to that term under the EP Act.
WWTP	means wastewater treatment plant

## Schedule 1: Maps

## **Premises map**

The boundary of the prescribed premises is shown in Figure 1 below. Coordinates defining the boundary are held by the department (Document reference A2189809).

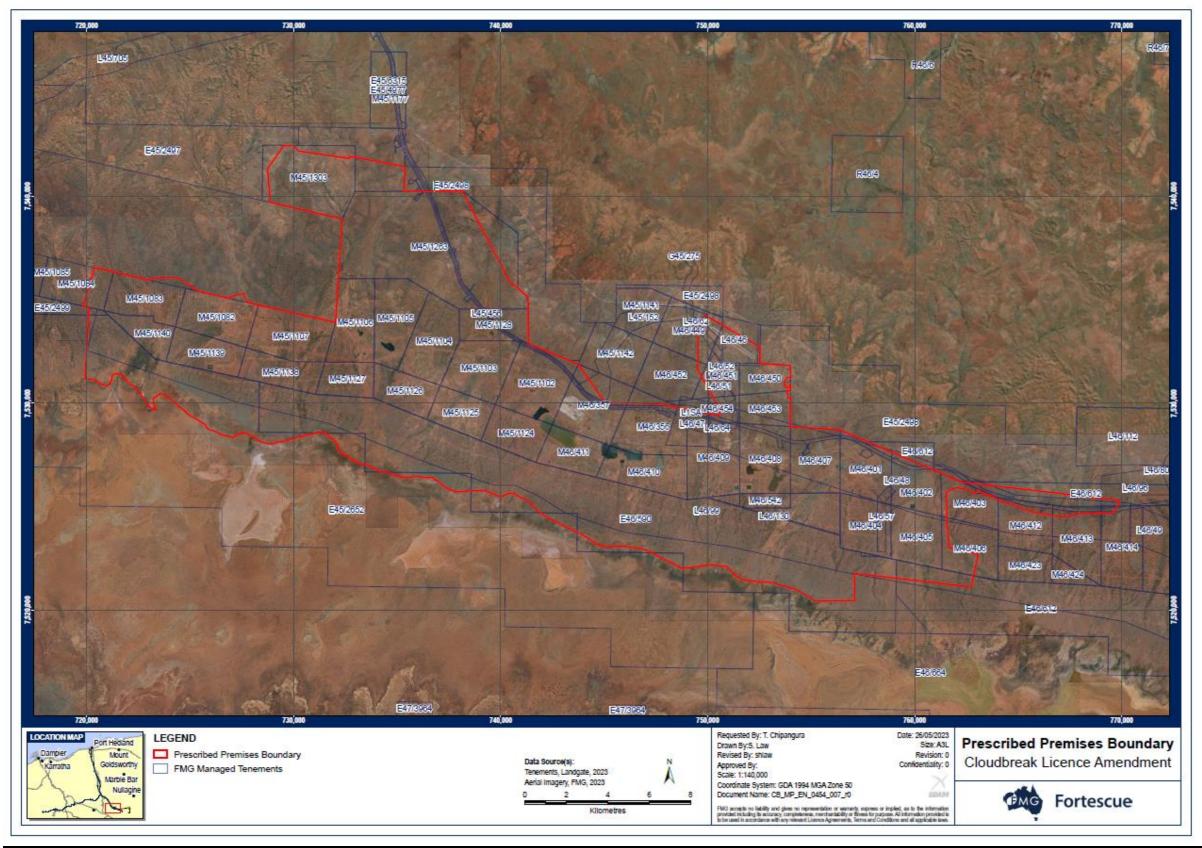
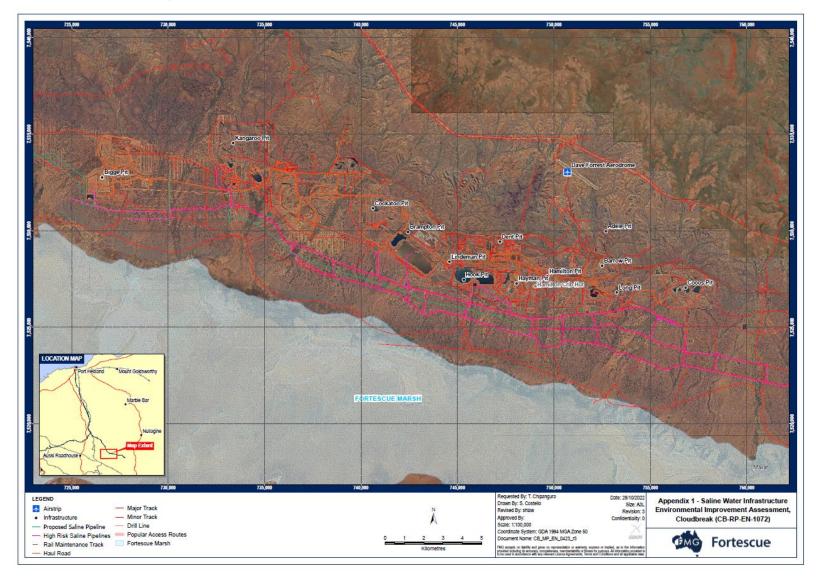


Figure 1: Premises Boundary depicted in red

#### Map of environmentally sensitive areas





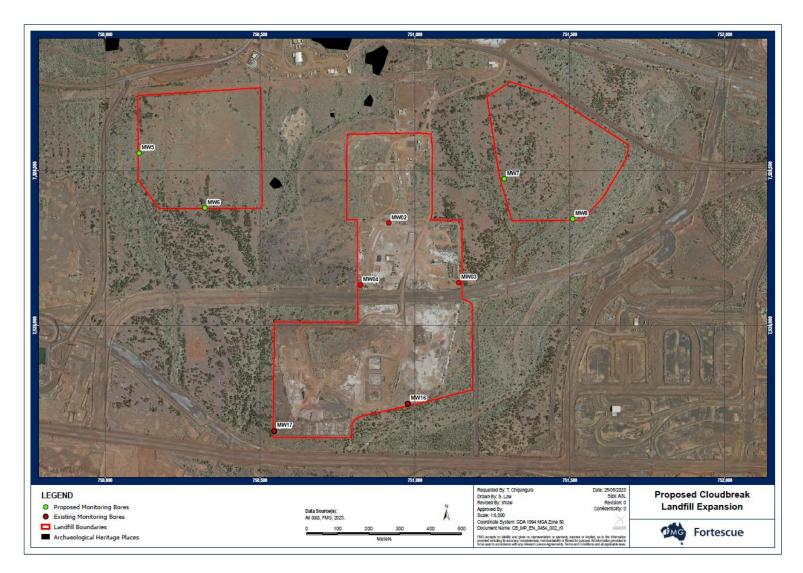


Figure 3: Location of the landfill defined in Condition 5, Table 3 and the landfill groundwater monitoring locations defined in Condition 22, Table 14 (landfill monitoring locations)

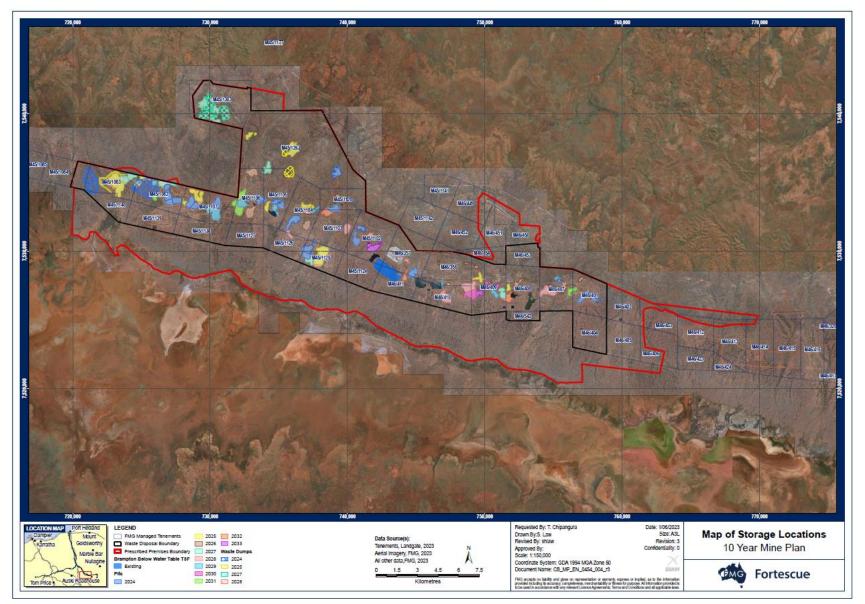


Figure 4: Locations of the disposal locations for tyres, conveyor belts, untreated timber, disused pipelines and concrete, HDPE liner and HDPE piping defined in Condition 5, Table 3

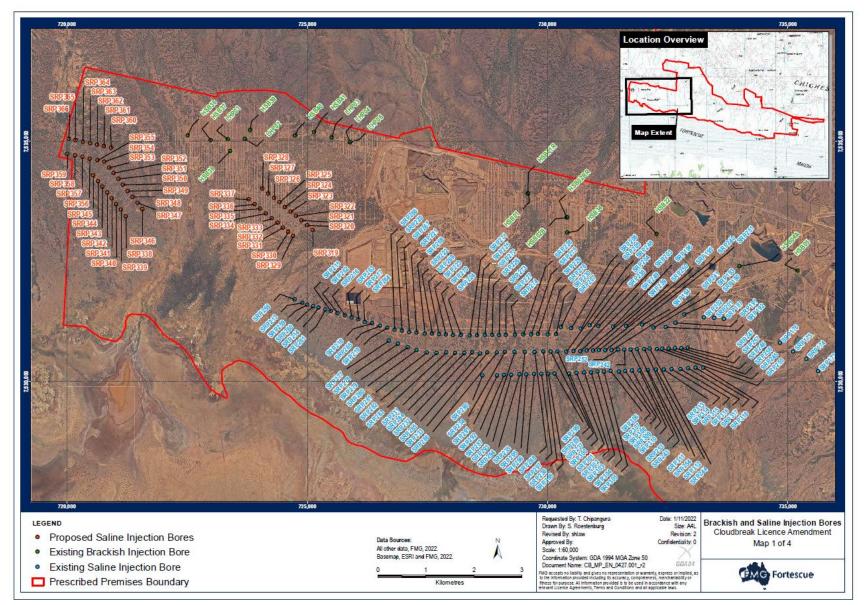


Figure 5: Locations of the brackish and saline water emission points to groundwater referred to in Condition 8 Table 5 and Condition 2, Table 8

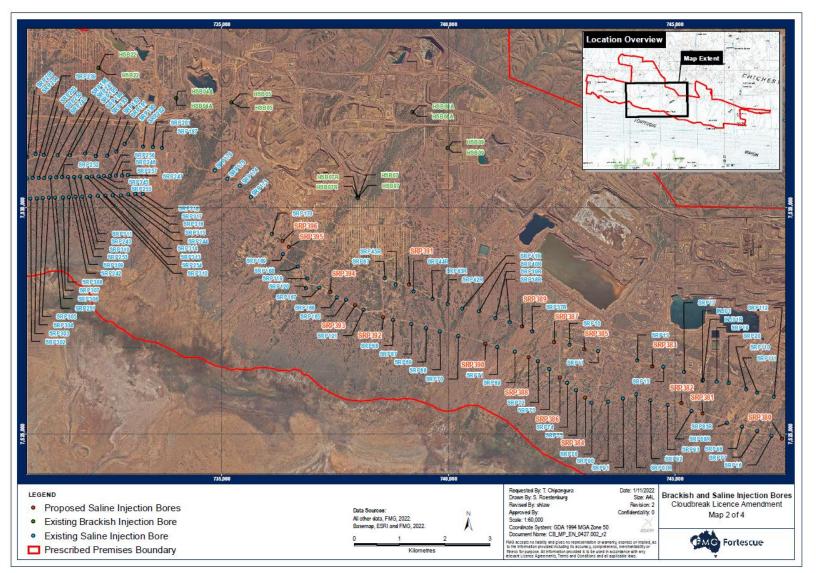


Figure 6: Locations of the brackish and saline water emission points to groundwater referred to in Condition 8, Table 5 and Condition 12, Table 8

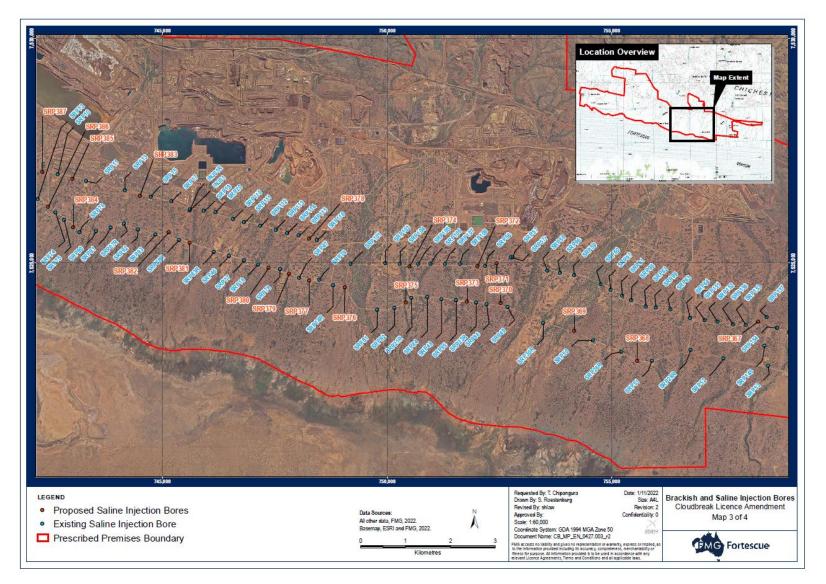


Figure 7: Locations of the brackish and saline water emission points to groundwater referred to in Condition 8 Table 5 and Condition 12, Table 8

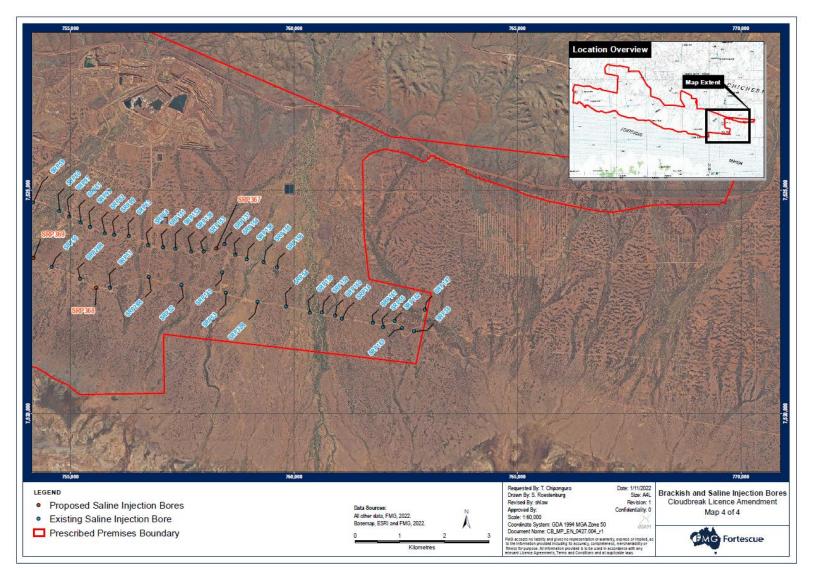


Figure 8: Locations of the brackish and saline water emission points to groundwater referred to in Condition 8 Table 5 and Condition 12, Table 8

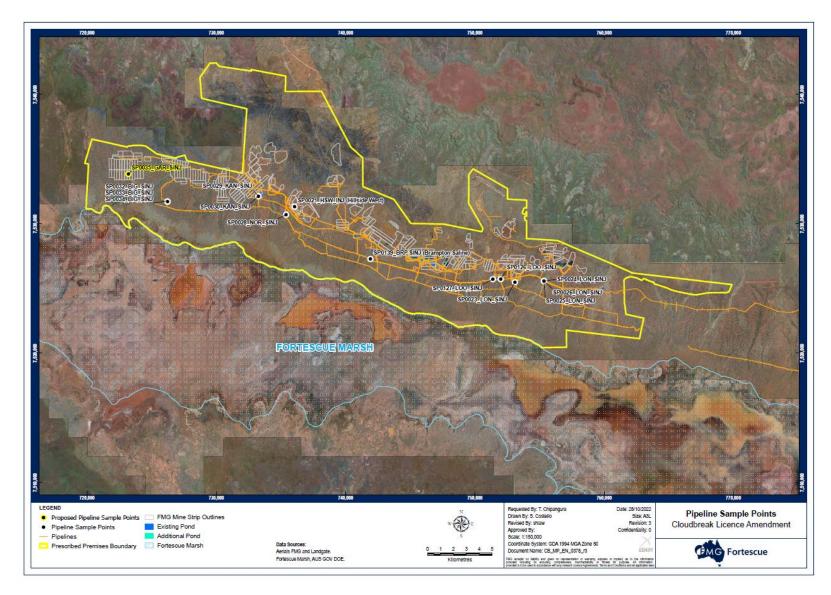


Figure 9: Location of the monitoring points defined in Condition 19 Table 11

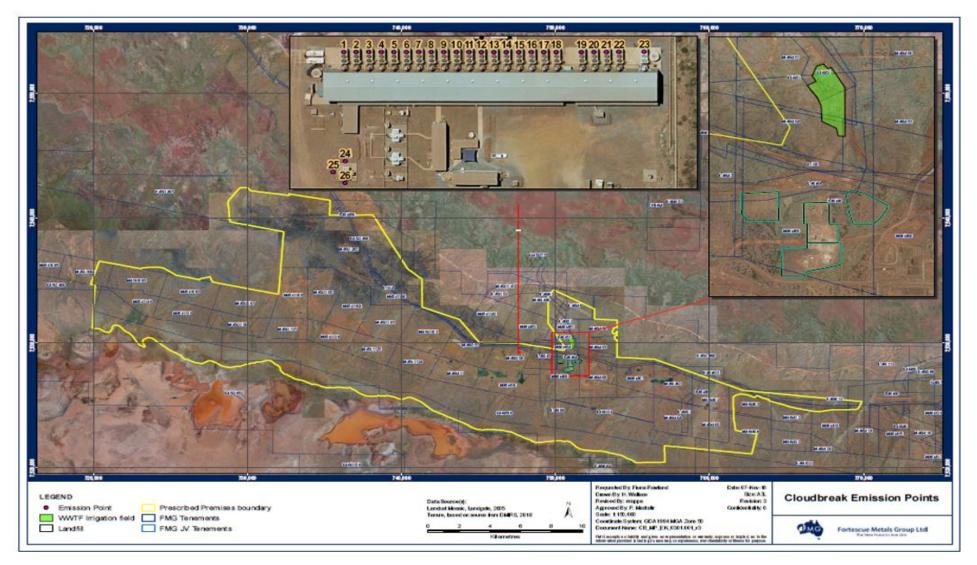


Figure 10: Location of the emission and monitoring points defined in Condition 10, Table 6, Condition 13, Table 9 and Condition 20, Table 12

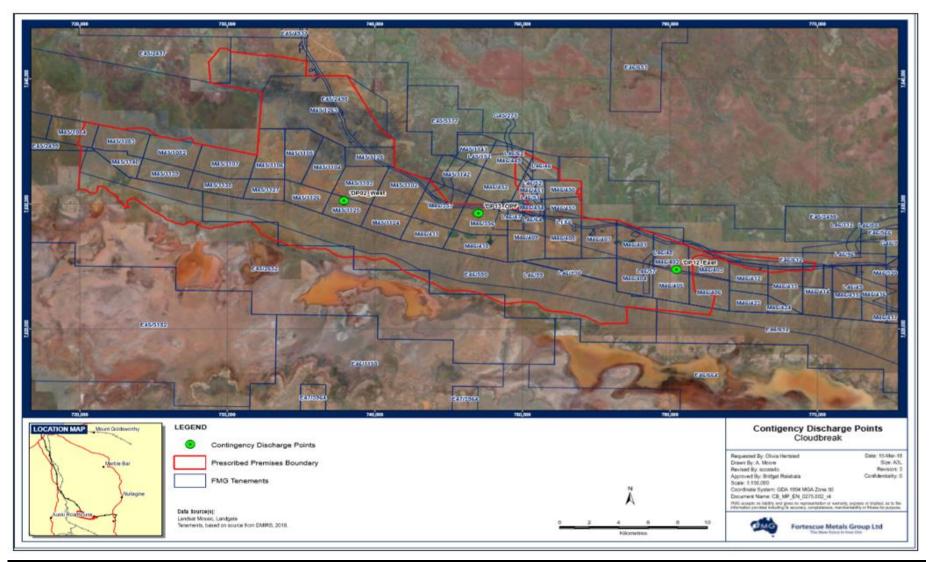


Figure 11: Location of the contingency discharge emission and monitoring points defined in Condition 11, Table 7 and Condition 17,

Table 10



Figure 12: Location of the tailing facilities monitoring points defined in Condition 22, Table 14

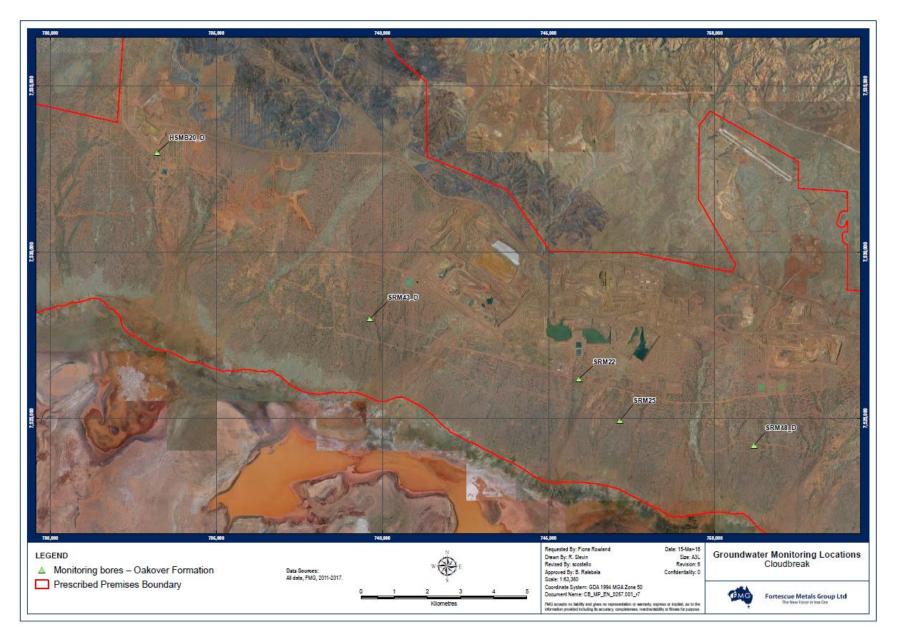


Figure 13: Location of the ambient groundwater monitoring points defined in Condition 22

#### Map of containment infrastructure

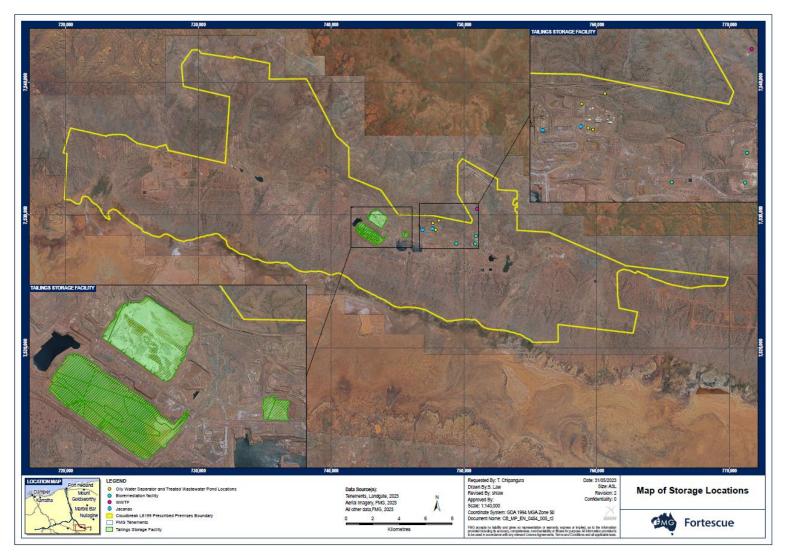
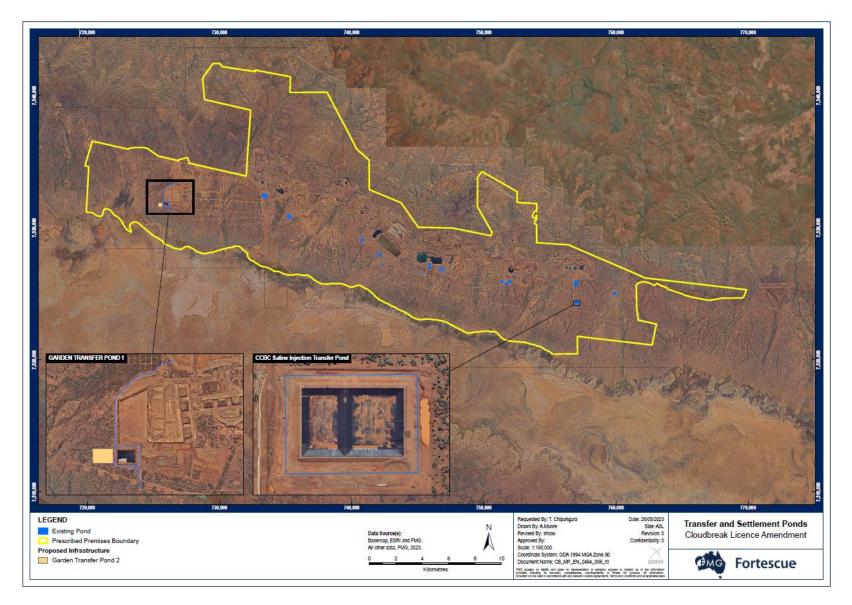


Figure 14: Location of the containment infrastructure defined in Condition 2, Table 1 and Process Monitoring location defined in Condition 21, Table 13



#### Figure 15: Transfer and Settlement Ponds

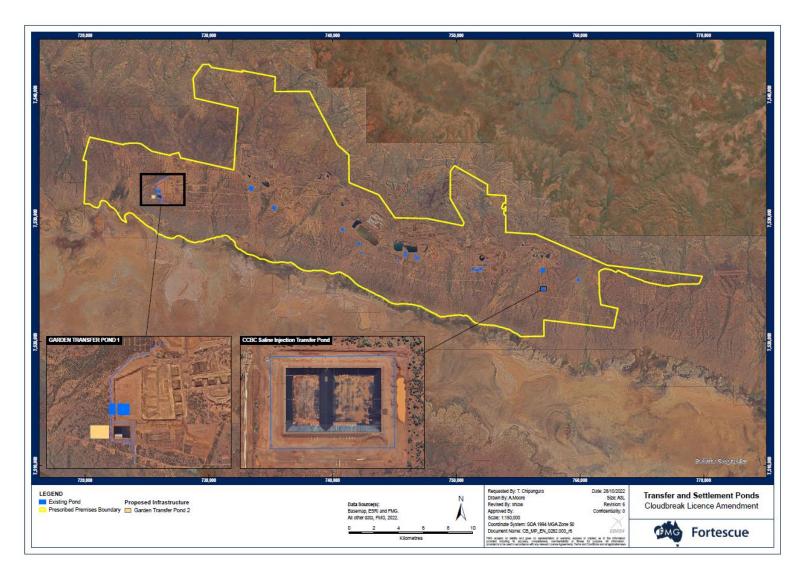
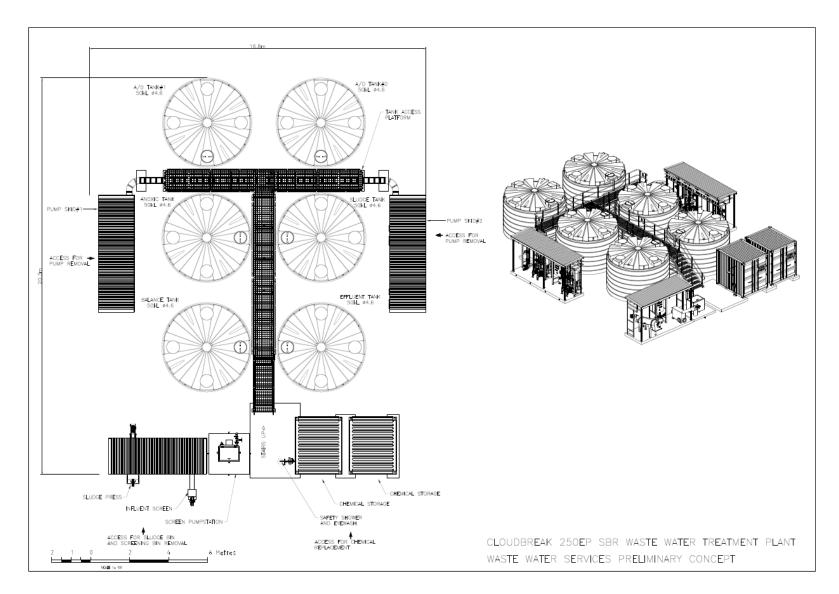


Figure 16: Location of the Garden Transfer Pond 1 and CCBC Saline Injection Transfer Pond containment infrastructure defined in Condition 2, Table 1



### Figure 17: Cloudbreak West Village WWTP



#### Figure 18: Cloudbreak 250EP SBR Wastewater Treatment Plant Wastewater Services Preliminary Concept

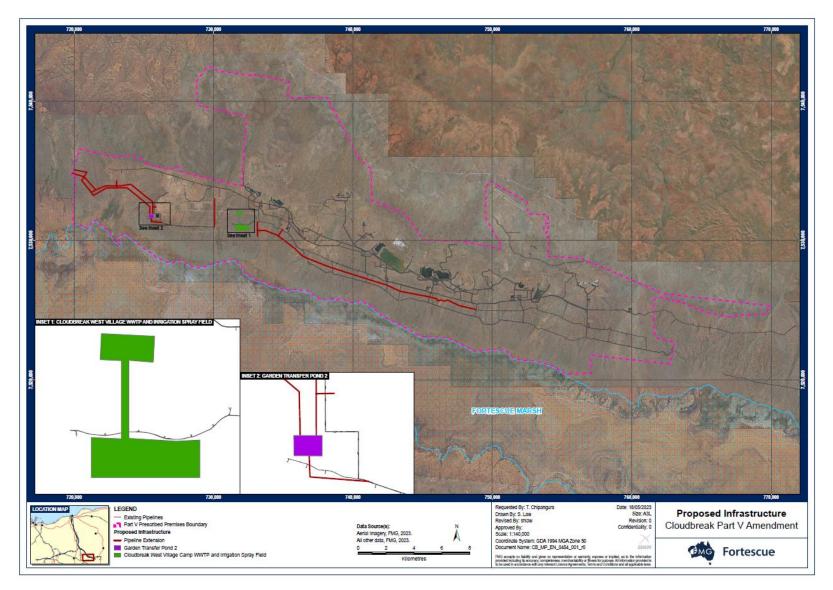


Figure 19: Pipeline Extension, Garden Transfer Pond 2 and Cloudbreak West Village Camp WWTP and Irrigation Spray Field

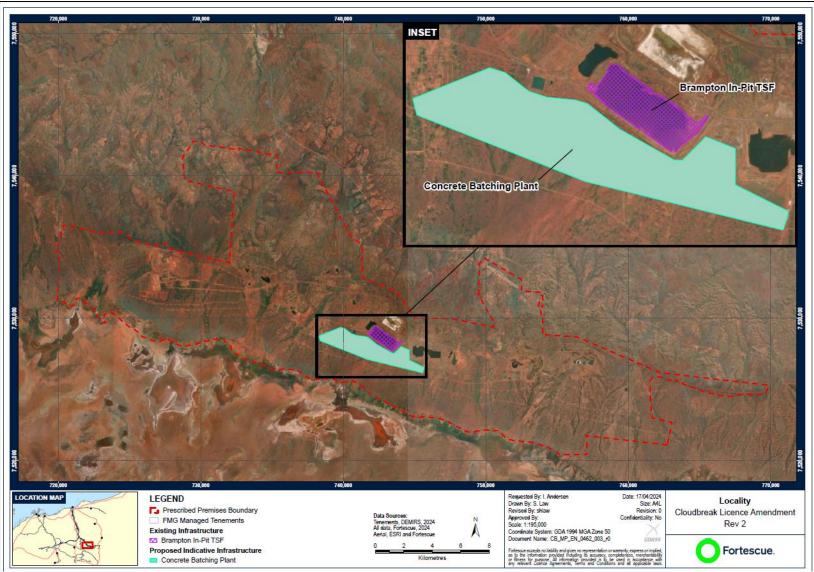


Figure 20: Concrete batching plant location