



Licence number L8454/2010/2

Licence holder Chichester Metals Pty Ltd

ACN 109 264 262

Registered business address 256 St Georges Terrace
PERTH WA 6000

DWER file number 2010/003105-4

Duration 24/08/2015 to 23/08/2036

Date of issue 20/08/2015

Date of amendment 02/07/2025

Premises details Christmas Creek Mine Site

Tenements E46/610, E46/612, M46/320, M46/321, M46/322, M46/323, M46/324, M46/325, M46/326, M46/327, M46/328, M46/329, M46/330, M46/331, M46/332, M46/333, M46/334, M46/335, M46/336, M46/337, M46/338, M46/339, M46/340, M46/341, M46/342, M46/343, M46/344, M46/345, M46/346, M46/347, M46/348, M46/349, M46/350, M46/351, M46/352, M46/353, M46/354, M46/355, M46/403, M46/406, M46/412, M46/413, M46/414, M46/415, M46/416, M46/417, M46/418, M46/419, M46/420, M46/421, M46/422, M46/423, M46/424, G46/7, L46/49, L46/56, L46/58, L46/86, L46/87, L46/106, L46/111, E46/566 and L46/66

MULGA DOWNS WA 6751

As depicted by the Premises map in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 5: Processing or beneficiation of metallic or non-metallic ore	77,000,000 tonnes per annual period
Category 6: Mine dewatering	43,000,000 tonnes per annual period (reinjecting)
Category 31: Chemical manufacturing	195 tonnes per annual period
Category 44: Metal melting or refining	5,000 tonnes per annual period (output of

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
	2,500 tonnes of pig iron per annual period)
Category 52: Electric power generation	63.6 MWe per annual period
Category 54: Sewage facility	1,040 cubic metres per day
Category 57: Used tyre storage	2,000 tyres
Category 64: Class II putrescible landfill	10,000 tonnes per annual period
Category 73: Bulk storage of chemicals	15,183.10 cubic metres in aggregate
Category 77: Concrete batching or cement products manufacturing	100,000 tonnes per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 02 July 2025, by:

MANAGER, RESOURCE INDUSTRIES

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

Licence history

Date	Reference number	Summary of changes
23/08/2010	L8454/2010/1	Licence issued for Christmas Creek Camp Wastewater Treatment Facility operation, category 54
09/12/2010	L8454/2010/1	Licence amendment to include putrescible landfill, category 89
10/11/2011	L8454/2010/1	Licence amendment to authorise power station operation category 52, ore processing facility category 5, additional WWTP, Tailings Storage Facility (TSF) and supporting infrastructure
12/03/2012	L8454/2010/1	Licence amendment to include category 6 (dewatering) and category 73 (bulk storage of chemicals)
13/06/2013	L8454/2010/1	Amendment initiated by Licence Holder to increase the capacities authorised in categories 5, 6, 52, 54 and 73.
15/08/2013	L8454/2010/1	Amendment initiated by Licence Holder to authorise increase in capacity of category 6 to 43 Mt/a
12/12/2013	L8454/2010/1	Amendment initiated by Licence Holder to construct and operate mobile crushing and screening facilities and operate Vasse TSF
20/08/2015	L8454/2010/2	Licence reissue and amendment to add Windich TSF2 and update to new template Licence
7/7/2016	L8454/2010/2	Licence amendment for approval to construction the Flinders Strip 12 In-Pit TSF, Windich Above-Ground TSF and the Karntama Village WWTP sludge handling unit, update prescribed premises boundary, increase category 73 approved design capacity, replace category 89 with category 64, inclusion of conditions for the reinjection of mine dewater and removal of requirement to implement the Water Management Scheme, and inclusion of a 2 MW Caterpillar C175 generator as an emission point to air
28/02/2017	L8454/2010/2	Amendment Notice 1 Approval to construct and operate the Flinders In-Pit TSF (below water table tailings deposition), update the Vasse and Windich TSF groundwater monitoring requirements, changes to the requirements for controls on sewage pipelines, update the containment infrastructure requirements, changes to the used tyre storage requirements and include total dissolved solids in the WWTP monitoring suite
14/07/2017	L8454/2010/2	Licence amendment to update the containment infrastructure requirements in Table 1.2.1, include a provision in Table 1.2.3 to allow clean fill to be used as cover material, remove reference to the Mobile Crushing and Screening Environmental Management Procedure, remove reference to infrastructure which has been constructed, removal of the Flinders In-Pit TSF deposition limit, removal of the air

Date	Reference number	Summary of changes
		emission monitoring requirements
16/07/2018	L8454/2010/2	Licence amendment to combine the two existing TSFs at Flinders, being the Flinders Strip 12 TSF and the Flinders In-Pit TSF into one consolidated landform (Flinders In-Pit TSF Complex); reduce the capacity of category 52 from 56 MW to 54 MW; update condition 1.2.1 to include the high risk saline pipelines; remove condition 1.2.11; update condition 4.3.1 to remove reference to the leak detection system; and remove the pipeline sample CCSP0011 and include CCSP0024
15/01/2019	L8454/2010/2	Licence amendment to allow the disposal of reverse osmosis reject water to be discharged to the existing Construction Camp irrigation area; construction of the Lefroy Turkey's Nest; and installation and operation of 11 saline injection bores
30/01/2020	L8454/2010/2	Licence amendment for construction/ installation of Vertical Wet High Intensity Magnetic Separator Plant, 5 Diesel Generator sets (1400kW) and a reverse osmosis plant (350kL).
07/08/2020	L8454/2010/2	Licence amendment for installation of a new 1600kW Diesel Generator, increase in capacity of 5 existing generators (1600kW), construction of five additional saline injection bores and addition of a new emission to land point (L3). Minor administrative amendments to mapping and terminology within Licence.
23/11/2020	L8454/2010/2	DWER initiated licence amendment to authorise RO brine for irrigation and roadways (previously assessed but information delayed) and an administrative amendment to update the number of saline reinjection bores. Removing construction and compliance requirements for the Vertical Wet High Intensity Magnetic Separator (V-WHIMS) Plant, Diesel Generator Sets and Karntama Camp RO Plant as compliance reports received.
03/06/2021	L8454/2010/2	Licence amendment for: <ul style="list-style-type: none"> • Construction and operation of a Hydrogen Refuelling Station (HRS) at the Christmas Creek Karntama Village that will be used for the refuelling of hydrogen powered vehicles onsite; • Addition of the existing Elvis Turkey's Nest and proposed Mobile Max Turkey's Nest to the list of water containment infrastructure on the licence; • Three additional tailings spigots required for tailings deposition along the southern and eastern embankments within Strip 12 of the Flinders In-Pit Tailings Storage Facility (TSF); and • Update to Schedule 1 map of containment infrastructure for disposal of used tyres, construction waste with updated five year mine pits and waste dumps. Licence reformatted into current Licence template with condition numbers modified.

Date	Reference number	Summary of changes
5/04/2022	L8454/2010/2	<p>Licence amendment for:</p> <ul style="list-style-type: none"> • Construction of the new Flinders In-Pit TSF2 Facility; • OPF1 Lump Plant extension to the existing OPF1; • Change the location of the proposed Hydrogen Refuelling Station (HRS); and • Install two back-up emergency generator sets at the power station.
28/09/2023	L8454/2010/2	<p>Licence amendment for:</p> <ul style="list-style-type: none"> • Category 6 (mine dewatering) - Construction and operation of dewatering infrastructure, including: <ul style="list-style-type: none"> ➢ 108 saline injection bores (SAI43 – SAI151) drilled into the Oakover aquifer (25 within the existing saline and transfer system and 83 in the undeveloped Hall, Bull and Cue mine areas); ➢ 21 high-density polyethylene (HDPE) lined turkey nests/transfer ponds with pump stations (8 within the existing saline and transfer system and 13 in the undeveloped Hall, Bull and Cue mine areas); and ➢ 151 kilometres (km) of pipeline corridors (~66 km to the existing saline and transfer system and ~85 km from the proposed undeveloped Hall, Bull and Cue mine areas); • Construction and operation of three settlement ponds, including: <ul style="list-style-type: none"> ➢ 2 HDPE-lined ponds to hold process water; and ➢ 1 earthen-lined pond to hold borefield water; and ➢ Administrative amendments to existing licence conditions.
14/06/2024	L8454/2010/2	<p>Licence amendment for:</p> <ul style="list-style-type: none"> • Construction and operation of the Christmas Creek Green Iron Pilot Plant (CCGIPP) (Category 44: metal melting or refining); • Construction and operation of the Christmas Creek Concrete Batching Plant (CCCBP) (Category 77: concrete batching or cement products manufacturing); • Alignment of the monitoring frequency of inspections for tailings storage facility (TSF) embankment freeboard, from the existing daily when the facility is in operation to the proposed fortnightly TSF inspections, whilst the facility is not operational; • Ruby turkey’s nest that is approved to contain ‘brackish’ water to be changed to include the storage of ‘saline or brackish’ water within the containment infrastructure; and • Additional condition to the Licence to provide flexibility during the design, construction, and installation of the proposed Categories 44 and 77 infrastructure.

Date	Reference number	Summary of changes
02/07/2025	L8454/2010/2	Licence amendment for: <ul style="list-style-type: none"> • Administrative removal of the Windich TSF1 and TSF2 (Windich TSF Complex) and Vasse TSF and associated infrastructure from the Christmas Creek Mine Site Licence L8454/2010/2; • Transfer of the existing Christmas Creek (hall overland conveyor, primary ore crushing plant, ore processing facility infeed, and hydrocarbons / chemical storage areas) from Works Approval W6787/2023/1 to the Christmas Creek Mine Site Licence L8454/2010/2 following compliance with the requirements specified in Table 1 of Condition 1, Condition 2 and Condition 3 of the Works Approval; • Construction and operation of the new Flinders IPTSF3, associated pipelines and infrastructure due to the existing Flinders IPTSF2 reaching full capacity; and • Minor administrative amendment to Schedule 1: Maps in Figure 9, 10, and 11.

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:

General

- The licence holder must ensure limits specified in Table 1 are not exceeded.

Table 1: Production or design capacity limits

Category ¹	Category description ¹	Premises production or design capacity limit
5	Processing or beneficiation of metallic or non-metallic ore	77,000,000 tonnes per annual period
6	Mine dewatering	43,000,000 tonnes per annual period (reinjecting)
31	Chemical manufacturing	195 tonnes per annual period
44	Metal melting or refining	5,000 tonnes per annual period (output of 2,500 tonnes of pig iron per annual period)
52	Electric power generation	63.6 MWe per annual period
54	Sewage facility	1,040 cubic metres per day
57	Used tyre storage	2,000 tyres
64	Class II putrescible landfill	10,000 tonnes per annual period
73	Bulk storage of chemicals	15,183.10 cubic metres in aggregate
77	Concrete batching or cement products manufacturing	100,000 tonnes per annual period

Note 1: *Environmental Protection Regulations 1987, Schedule 1.*

Infrastructure and equipment

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

Table 2: Infrastructure and equipment requirements

Site infrastructure and equipment	Operational requirement	Infrastructure location
Hall overland conveyor	<ul style="list-style-type: none"> 4,200 tonnes per hour; No more than 18,396,000 tonnes of iron bearing ore processed over the 180 calendar days; Dust suppression equipment to be regularly maintained; Stormwater drainage controls to be regularly maintained; and Daily visual inspections to ensure dust controls, stormwater controls and hydrocarbons / chemicals controls are working effectively. 	Schedule 1: Figure 19
Primary ore crushing plant		
Ore processing facility infeed		
Hydrocarbons / chemical storage areas	<ul style="list-style-type: none"> Chemicals and hydrocarbons stored within bunds of appropriate capacity; 	Schedule 1: Figure 19

Site infrastructure and equipment	Operational requirement	Infrastructure location
	<ul style="list-style-type: none"> • Any leakage and spills from chemical and hydrocarbon storage facilities must be contained to prevent contamination of surrounding soil, watercourses, and drainage systems; • Suitable spill response equipment must be available and maintained in close proximity to the chemical and hydrocarbon storage location; • All chemicals and hydrocarbons appropriately segregated from potential ignition sources; • Storage Data Sheets readily available for all stored chemicals and hydrocarbons. These must be in close proximity to the chemical and hydrocarbon storage location; • Spillage and/or collected and potentially contaminated rainfall recovery should occur when needed to ensure optimal availability of bund capacity; • Discharge of any spillage and/or rainfall from within a bund is not permitted; and • Portable bunding units are only to be used for the temporary storage of chemicals and hydrocarbons. 	

3. The licence holder must 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 Schedule 1) are either:
 - (a) 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.
4. The licence holder must ensure that the waste material specified in Table 3 is only stored and/or treated within vessels or compounds listed in Table 3 and identified on the map of containment infrastructure in Schedule 1, in accordance with the requirements specified within Table 3.

Table 3: Containment infrastructure

Storage vessel or compound	Material	Requirements
Flinders In-Pit TSF1 Complex Flinders In-Pit TSF2 Complex Flinders In-Pit TSF3	Tailings	<ul style="list-style-type: none"> • Maintain and operate a minimum freeboard equivalent to that required to contain a 1 in 100-year storm event over 72 hours from the operational pond surface to lowest elevation of perimeter embankment; • Visual markers installed to adequately monitor freeboard; • Install, maintain and operate a supernatant water collection and return system only when a recoverable volume of water is present;

Storage vessel or compound	Material	Requirements
		<ul style="list-style-type: none"> • Flinders In-Pit TSF1 Complex maximum tailings elevation level of Relative Level 437.0 m; • Flinders In-Pit TSF2 Complex maximum tailings elevation level of Relative Level 437.0 m; • Flinders In-Pit TSF3 maximum tailings elevation level of Relative Level 444.0 m (Stage 1) and; • Flinders In-Pit TSF3 maximum tailings elevation level of Relative Level 433.0 m (Stage 2).
Flinder’s Decant Settlement Pond, Franco’s Turkey’s Nest (Village Road), Ollies Turkey’s Nest, Windich Decant Sediment Pond, and Vasse Decant Settlement Pond,	Brackish water	<ul style="list-style-type: none"> • Earthen Pond; and • Minimum vertical freeboard of 100 mm.
TLO Settlement Pond (Jeffs)	Brackish water Potentially hydrocarbon contaminated treated wastewater from Power station treated water pond	<ul style="list-style-type: none"> • Earthen Pond; and • Minimum vertical freeboard of 100 mm.
OPF1 Turkey’s Nest OPF2 Turkey’s Nest Akmar Turkey’s Nest Baltic Turkey’s Nest Caspian Turkey’s Nest Charlton Turkey’s Nest Codgers Transfer Pond Crank Transfer Pond Eyre Turkey’s Nest Gatehouse Turkey’s Nest Helsinki Turkey’s Nest (RCH1) Laura’s Turkey’s Nest Windich Ponds x 3 Young Settlement Ponds OPF1 and OPF2 Settlement Ponds RCH ‘Micky’s Pond’ Settlement Pond Lefroy Turkey’s Nest Elvis Turkey’s Nest	Saline or Brackish water	<ul style="list-style-type: none"> • HDPE liner; • New transfer ponds / turkeys nests HDPE liners; and • Minimum vertical freeboard of 200 mm.

Department of Water and Environmental Regulation

Storage vessel or compound	Material	Requirements
Mobile Max Turkey's Nest Ruby Turkey's Nest 21 transfer ponds / turkey nests including: <ul style="list-style-type: none"> • 8 transfer ponds / turkey nests in the existing saline and transfer system; and • 13 transfer ponds / turkey nests in the undeveloped Hall, Bull, and Cue areas) 		
CCY1 Treatment Ponds 1, 2 and 3	Potentially hydrocarbon contaminated treated wastewater from the CCY1 oily water separator	<ul style="list-style-type: none"> • HDPE liner; and • Minimum vertical freeboard of 200 mm.
CCY2 Treatment Ponds 1 and 2	Potentially hydrocarbon contaminated treated wastewater from the CCY2 oily water separator	<ul style="list-style-type: none"> • HDPE liner; and • Minimum vertical freeboard of 200 mm.
Power Station pond	Potentially hydrocarbon contaminated treated wastewater from the Bulk Diesel Storage Facility oily water separator	<ul style="list-style-type: none"> • HDPE liner.
Green Iron water pond	Reject process water	<ul style="list-style-type: none"> • HDPE liner; and • Minimum vertical freeboard of 200 mm.

5. The licence holder must:
- (a) undertake inspections as detailed in Table 4;
 - (b) where any inspection identifies that an appropriate level of environmental protection is not being maintained, take corrective action to mitigate adverse environmental impacts as soon as practicable; and
 - (c) maintain a record of all inspections undertaken.

Table 4: 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 water infrastructure (transfer ponds, settlement ponds and pipelines)	Visual integrity	Daily
Pipeline transferring RO brine from the Karntama RO Plant area to the Codgers Transfer Pond	Visual integrity	Twice weekly
Green Iron water pond infrastructure and vertical freeboard	Visual integrity	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

6. The licence holder must undertake an annual water balance for the TSFs. The water balance must 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.

7. The licence holder must 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 5.

Table 5: Management of waste^{1, 2, 3}

Waste type	Management strategy	Requirements
Sewage	Biological, physical, and chemical treatment	<ul style="list-style-type: none"> 1,040 m³/day cumulatively
Used tyres	Storage	<ul style="list-style-type: none"> Not more than 2,000 used tyres must be stored at the premises at any one time; Used tyre stacks must not exceed 500 tyres per stack and 5 m in height; Used tyre stacks are to be stored no less than 6 m from any other tyre stacks; and The waste tyre stockpiles must not exceed 1000 m² in area.
	Burial in waste rock materials or completed mining voids	<ul style="list-style-type: none"> Tyres must be placed in cells of less than 1000 tyres and only in those locations shown on the Map of emission points in Schedule 1; Cover of at least 1 m of waste rock will be placed over each cell; and Cell locations where tyres are to be buried will be surveyed and the latitude and longitude recorded.
Inert Waste Type 1	Receipt, handling and disposal of waste by landfilling	<p><u>All waste types</u></p> <ul style="list-style-type: none"> No more than 10,000 tonnes per year of all waste types cumulatively must be disposed of by landfilling; Disposal of waste by landfilling must only take place within the landfill area shown on the Map of emission points in Schedule 1; Disposal of untreated timber and concrete in mining voids and waste rock facilities must only occur at the locations shown on the Map of emissions points in Schedule 1; Waste must be placed in a defined trench or within an area enclosed by earthen bunds; The active tipping area must be restricted to a maximum linear length of 60 m; and Construction, operation and decommissioning of landfill cells can occur within the defined landfill area providing there is no waste within: <ul style="list-style-type: none"> ➤ 100 m of any surface water body; and ➤ 3 m of the highest level of the water table aquifer.
Putrescible Waste		
Clean Fill and Bio remediated soils as described for Class II Waste as defined in the Landfill Definitions		
Uncontaminated Fill		
RO Reject Stream	Onsite irrigation to irrigation area using blended RO reject	<ul style="list-style-type: none"> Undiluted RO reject stream will not be used for irrigation

Waste type	Management strategy	Requirements
	stream with treated sewage effluent	
	Onsite dust suppression and/or ore processing using blended RO reject stream with mine dewatering water	<ul style="list-style-type: none"> • Undiluted RO reject stream will not be used for dust suppression and/or ore processing
HRS output water	HRS output water is transferred from the HRS to the Elvis Turkey's Nest where it is used for dust suppression	<ul style="list-style-type: none"> • Output water from HRS plant

Note 1: Requirements for landfilling tyres are set out in Part 6 of the *Environmental Protection Regulations 1987*.

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 also be used as cover for landfill capping.

8. The licence holder must ensure that cover is applied and maintained on landfilled wastes in accordance with Table 6 and that sufficient stockpiles of cover are maintained on site at all times.

Table 6: Cover requirements¹

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*.

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

Table 7: Design and construction infrastructure requirements

Infrastructure	Requirements (Design and construction)
Saline injection bores as depicted on the map in Schedule 1	
Saline injection bores	Installation of following 5 saline injection bores drilled into the Oakover aquifer at the saline injection borefield: SAI33 SAI34 SAI35 SAI36 SAI37 Installation of 108 saline injection bores drilled into the Oakover aquifer: SAI43 – SAI151
21 transfer ponds / turkey nests including: <ul style="list-style-type: none"> • 8 transfer ponds / turkey nests in the existing saline and transfer system; and • 13 transfer ponds / turkey nests in the undeveloped Hall, Bull, and Cue areas) 	<ul style="list-style-type: none"> • HDPE liner; and • Minimum vertical freeboard of 200 mm.
Transport of mine dewatering water via: <ul style="list-style-type: none"> • new pipelines servicing the existing saline injection and transfer system; and • new pipelines servicing the proposed Hall saline injection and transfer system 	Refer to condition 3.
OPF1 Settlement Pond OPF2 Settlement Pond RCH 'Micky's Pond' Settlement Pond	<ul style="list-style-type: none"> • HDPE liner; and • Minimum vertical freeboard of 200 mm.
OPF1 Lump Plant extension	
Crushing and Screening: <ul style="list-style-type: none"> • Screen • Oversize crusher Conveyor: <ul style="list-style-type: none"> • Conveyor to lump product • Conveying system into existing plant Stacker: <ul style="list-style-type: none"> • Stacker • Sample station 	<ul style="list-style-type: none"> • Dust suppression equipment and measures to be included in the plant design and will include dust covers, skirts, and water sprayers; and • Containment bunds designed and constructed around the proposed OPF1 Lump Plant to manage any surface water run-off.
Back Up Diesel Gensets	
2 x Back Up Diesel Gensets	<ul style="list-style-type: none"> • 2 x 1600 kW emergency back up diesel gensets; • Emission point height 3.7 m; • Diesel fired genset engine; and

Infrastructure	Requirements (Design and construction)
	<ul style="list-style-type: none"> • Low sulphur diesel fuel.
Green Iron Pilot Plant	
Green Iron Pilot Plant	<ul style="list-style-type: none"> • Dust suppression equipment and measure to be included in the plant design and will include water sprays, foggers and dust collection systems; • Construction of hardstands, bunding and / or windrows to divert and segregate stormwater within and externally to the plant; • Stormwater sumps and drains must be constructed, where required within the footprint of the plant to manage potentially contaminated stormwater; and • Location as per Figure 18, Schedule 1 of this licence.
Green Iron water pond (to be used for the temporary storage pond for process water from the Green Iron Pilot Plant)	<ul style="list-style-type: none"> • HDPE liner; • Minimal vertical freeboard of 200 mm; and • Location as per Figure 18, Schedule 1 of this licence.
Concrete Batching Plant¹	
Mobile trailer mounted batch plant: <ul style="list-style-type: none"> • Vertical cement silo • Horizontal cement silo • Cement weigh hopper • Twin aggregate weigh bins • Other associated infrastructure and equipment 	<ul style="list-style-type: none"> • Must be located away from major surface water bodies; • Aggregate storage bins / bays must be fitted with dedicated water spray system; • Construction of sediment basins, bunding, and vegetated batters to control surface water sediment and to reduce impact to water quality from the plant; • Installation and construction of diversion structures, where required (bunds or channels) to separate and divert clean surface water flows around the plant works areas and stockpiles; • Concrete load bay and pad area must be designed with a wedge pit for the first flush and capable of holding approximately 13,500 L and a washout box capable of holding approximately 25,000 L; • Constructed designated collection points and sedimentation traps to collect all stormwater drainage, wash-down water, and spillages from within the plant works areas for treatment; • Installation of sprinklers for dust management, temperature, and moisture control on stockpiles; and • Location as per Figure 18, Schedule 1 of this licence.
Flinders In-Pit TSF3	
In-pit tailings storage facility	<ul style="list-style-type: none"> • Tailings pipeline must be steel and/or HDPE lined will be constructed with the below material/pipe types or equivalent: <ul style="list-style-type: none"> ○ HDPE Lined Steel ○ PU Lined Steel ○ HDPE ○ UHMWPE <p>and meet the requirements in Condition 3;</p>

Infrastructure	Requirements (Design and construction)
	<ul style="list-style-type: none"> Stage 1 to provide tailings storage of approximately 31.6 Mm³ to the maximum tailings level of 444.0 mRL; and Stage 2 to provide tailings storage of approximately 21.5 Mm³ to the maximum tailings level of 433.0 mRL.

Note 1: the *Environmental Protection (Concrete Batching and Cement Product Manufacturing) Regulations 1998* also apply.

- The licence holder must operate the infrastructure specified in Table 7 in accordance with the conditions of this licence, following submission of the compliance documents required under condition 33.
- The licence holder must manage dust and stormwater at the Green Iron Pilot Plant and the Concrete Batching Plant¹, once operational, using the infrastructure, equipment and management measures specified in Table 7 for that infrastructure.

Emissions and discharges

Authorised discharge points for emissions

- The licence holder must ensure that where waste is emitted to air 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: 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 – A27	27 x 2 MW Cummins diesel genset	9.4	Diesel fired genset engine; low sulphur diesel fuel
A28 – A33	6 x 1600 kW Diesel Generator	3.7	Diesel fired genset engine; low sulphur diesel fuel
A34 – A35	2 x 1600 kW emergency backup diesel gensets	3.7	Diesel fired genset engine; low sulphur diesel fuel

Emission point reference and location on Map of emission points	Description	Source including abatement
SAI33, SAI34 SAI35, SAI 36, SAI37, SAI38, SAI39, SAI40, SAI41, SAI42 SAI43 – SAI151 (equipping of 108 new injection bores)		

16. The licence holder must ensure that where waste is emitted to land from the emission points in Table 11 and identified on the map of emission points in Schedule 1, it is done so in accordance with the conditions of this licence.

Table 11: Emissions to land

Emission point reference	Description	Source including abatement
L1 - Karntama irrigation area	Pipe feeding irrigation area of 15 hectares	Treated wastewater from Karntama WWTP and reverse osmosis reject water
L2 - Construction Camp irrigation area	Pipe feeding irrigation area of 13 hectares	Treated wastewater pipeline-from Construction Camp WWTP and reverse osmosis reject water
L3 - Power station treated water pond	Gravity fed overflow from the Power Station Pond through a low point in the southern embankment wall of the Power Station Pond Rock armouring is present at the overflow point to prevent erosion of the embankment wall. The water is then directed into a diversion channel that flows into the TLO Settlement Pond (Jeffer)	Wastewater treated through the Power Station OWS that is then transferred to the Power Station Pond
L4 - RO brine used for dust suppression and/or ore processing	RO brine is transferred to the Codgers Transfer Pond where it is mixed with groundwater and used for dust suppression and/or ore processing	RO reject water (brine)
L5	HRS output water is transferred to the Elvis Turkey's Nest where it is used for dust suppression And / or; Stored and used as process water in the operation of the Green Iron Pilot Plant	HRS output water

17. The licence holder must not cause or allow emissions to land greater than the limits listed in Table 12.

Table 12: Emission limits to land

Emission point reference	Description	Parameter	Reportable Limit (including units)	Averaging period
L3 - Power station treated water pond	<p>Gravity fed overflow from the Power Station Pond through a low point in the southern embankment wall of the Power Station Pond</p> <p>Rock armouring is present at the overflow point to prevent erosion of the embankment wall. The water is then directed into a diversion channel that flows into the TLO Settlement Pond (Jefferies)</p>	Total Recoverable Hydrocarbons	15 mg/L	Spot sample

Monitoring

General monitoring

18. The licence holder must ensure that:
- all water samples are collected and preserved in accordance with AS/NZS 5667.1;
 - all wastewater sampling is conducted in accordance with AS/NZS 5667.10;
 - all surface water sampling is conducted in accordance with AS/NZS 5667.6;
 - all groundwater sampling is conducted in accordance with AS/NZS 5667.11; and
 - 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.
19. The licence holder must ensure that:
- monitoring is undertaken in each weekly period such that there are at least four days in between the days on which samples are taken in successive weeks;
 - 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;
 - 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;
 - monitoring is undertaken in each six-monthly period such that there are at least five months in between the days on which samples are taken in successive periods of six months; and
 - monitoring is undertaken in each annual period such that there are at least nine months in between the days on which samples are taken in successive years.

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- 20. The licence holder must ensure that all monitoring equipment is operated and calibrated in accordance with the manufacturer’s specifications.
- 21. The licence holder must ensure that all monitoring in Table 13 according to the specification in that table.

Table 13: Monitoring of point source emissions to surface water

Emission point reference	Parameter	Limit	Units	Frequency
CCDP04 (W1) CCDP01 (W2) CCDP02 (W3) CCDP03 (W4)	Electrical conductivity	15,000	µS/cm	1) 30 minutes following commencement of discharge; and 2) 24 hourly intervals thereafter during the duration of the contingency discharge event.
	Turbidity	100	NTU	
	Cumulative water meter readings	-	m ³	1) prior to discharge event at the designated discharge point; and 2) 24 hourly intervals for the duration of the contingency discharge event.

- 22. The licence holder must undertake the monitoring in Table 14 according to the specification in that table.

Table 14: Monitoring of point source emissions to groundwater

Emission point reference	Parameter	Units	Frequency
Each saline and brackish reinjection emission point referenced in Table 10	Cumulative volume ¹	GLpa	Annually
CCSP0001 (Hillside East Brackish Injection Borefield) Saline Injection Borefield CCSP0024 (Windich Saline) CCSP0015 (Crank Saline)	pH ²	pH units	Six monthly when reinjecting
	Electrical Conductivity	µS/cm	
	Total Dissolved Solids	mg/L	
	Total Suspended Solids	mg/L	
	Major cations and anions – Sodium Potassium Calcium Magnesium Chloride Alkalinity Sulfate Nitrate	mg/L	
	Metals, Metalloids and Non-metals - Aluminium Antimony Arsenic	mg/L	

Emission point reference	Parameter	Units	Frequency
	Beryllium		
	Boron		
	Cadmium		
	Chromium		
	Cobalt		
	Copper		
	Iron		
	Manganese		
	Mercury		
	Nickel		
	Lead		
	Selenium		
	Silver		
	Zinc		

Note 1: Determined using water balance calculations consistent with the *Christmas Creek Groundwater Operating Strategy* (CC-PH-HY-0002).

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

23. The licence holder must undertake the monitoring in Table 15 according to the specifications in that table and compare to the relevant ANZG (2018) Guidelines.

Table 15: Monitoring of emissions to land

Emission point reference	Parameter	Units	Frequency
L1, L2	Cumulative volume of treated wastewater discharged via irrigation	m ³	Monthly
	Cumulative volume of treated wastewater discharged via dust suppression	m ³	
	Biochemical Oxygen Demand	mg/L	Quarterly
	Total suspended solids	mg/L	
	Total dissolved solids	mg/L	
	pH ¹	pH units	
	Total Nitrogen	mg/L	
	Total Phosphorus	mg/L	
	<i>E. coli</i>	cfu/100mL	
L3	Total Recoverable Hydrocarbons	mg/L	Quarterly when discharging One week after the reportable limit in Table 12 is exceeded, for a maximum of three total consecutive exceedances, following which discharge from that emission point must cease, until such

Emission point reference	Parameter	Units	Frequency
			time as the limit is no longer exceeded
L4	Cumulative volume of Reverse Osmosis brine discharged to the Codgers Transfer Pond	m ³	Monthly
	pH ¹	pH units	
	Electrical Conductivity	µS/cm	
	Total Dissolved Solids	mg/L	
	Sulphate	mg/L	

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

24. The licence holder must undertake the monitoring in Table 16 according to the specifications in that table.

Table 16: Process monitoring

Emission point reference	Monitoring point location	Parameter	Units	Frequency
CCY1 and CCY2 treatment ponds	Final treated wastewater storage pond prior to reuse for dust suppression	Volumetric flow rate	m ³ /day	Monthly
		Total Recoverable Hydrocarbons	mg/L	
		Total Dissolved Solids	mg/L	

25. The licence holder must undertake the monitoring in Table 17 according to the specifications in that table.

Table 17: Monitoring of ambient groundwater quality

Monitoring point reference and location ²	Parameter	Units	Averaging period	Frequency
Flinders In-Pit TSF 1 Complex monitoring bores: FLM06_D FLM08_D FLM17 CCE04MB_S and CCE04MB_D	Standing water level	mbgl	Spot sample	Monthly
	pH ¹	pH units		
	Electrical conductivity	µS/cm		
	Total Dissolved Solids	mg/L		
Flinders In-Pit TSF 2 Complex monitoring bores: FLM07_S FLM26_D FLM28_D	Major cations and anions - Sodium Potassium Calcium Magnesium Chloride Sulfate Alkalinity Nitrate Ammonia		Spot sample	Quarterly
	Dissolved metals, metalloids and non-metals – Aluminum Antimony Arsenic			
Flinders In-Pit TSF3 monitoring bores: WDM35 FLM26_D FLM37				

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Monitoring point reference and location ²	Parameter	Units	Averaging period	Frequency
FLM38 FLM39 FLM40	Beryllium Boron Cadmium Cobalt Chromium Copper Iron Manganese Mercury Nickel Lead Selenium Silver Thallium Uranium Zinc			
Mine dewater reinjection				
HSMB29_D	Standing water level	mbgl	Spot sample	Six monthly
HSMB29_S	pH ¹	pH units		
SAM59_D	Electrical conductivity	µS/cm		
SAM59_S	Total Dissolved Solids	mg/L		
SAM07_D	Major cations and anions – Sodium Potassium Calcium Magnesium Chloride Alkalinity Sulfate Nitrate			
SAM07_S				
SAM12_S				
SAM12_D				
SCX01_S				
SCX03_S				
SCX06 (All)				
SCX06_S	Metals, metalloids, and non-metals – Aluminum Antimony Arsenic Beryllium Boron Cadmium Cobalt Chromium Copper Iron Manganese Mercury Nickel Lead Selenium Silver Zinc			
SCX06_D				
SAM15_I				
SAM15_S				
SAM18_D				
SAM18_S				
SAM64_D				
SAM64_S				
SAM85_D				
SAM85_S				
SAM109_D				
SAM109_S				
SAM110_D				
SAM110_S				

Note 1: In-field non-NATA accredited analysis permitted.
 Note 2: No sample required if bore is dry.

Specified actions

26. The licence holder must design, construct, and install groundwater monitoring wells, or utilise existing groundwater monitoring wells and provide as-constructed information, in accordance with the requirements specified in Table 18.

Table 18: Expansion of ambient groundwater monitoring network requirements

Infrastructure	Design, construction, and installation requirements	Monitoring well location(s)	Timeframe
<p>Expanded monitoring well network to cover the spatial extent of the area where the proposed new injection bores will be installed</p>	<p>New monitoring bore locations, including the utilisation of existing groundwater monitoring wells, are selected in the expanded wastewater reinjection areas. The density and distribution of these new monitoring sites should be approximately the same as in the original wastewater reinjection areas.</p>	<p>To be advised</p>	<p>Must be constructed, developed (purged), and determined to be operational prior to the installation of 108 saline injection bores drilled into the Oakover aquifer: SAI43 – SAI151</p>
	<p>At each of the new monitoring sites, a couplet of monitoring bores is constructed:</p> <ul style="list-style-type: none"> • one with a screened-interval near the base of the shallow aquifer just above the confining bed; and • one with a screened-interval just below the confining bed in the deeper aquifer. 		
	<p>Well design and construction: Designed and constructed in accordance with Minimum Construction Requirements for Water Bores in Australia, 4th Edition.</p> <p>Well screens must target the part, or parts, of the aquifer most likely to be affected by contamination¹. Where temporary/seasonal perched features are present, wells must be nested, and the perched features individually screened.</p>		
	<p>Logging of borehole: Solids samples must be collected and logged during the installation of the monitoring wells. A record of the geology encountered during drilling must be described and classified using a logging criteria derived from Australian Standard Geotechnical Site Investigations AS1726. Any observations of staining / odours or other indications of contamination must be included in the bore log.</p>		
	<p>Well construction log: Well construction details must be documented within a well construction log to demonstrate compliance with Minimum Construction Requirements for Water Bores in</p>		

Infrastructure	Design, construction, and installation requirements	Monitoring well location(s)	Timeframe
	<p>Australia, 4th Edition. The construction logs shall include elevations of the top of casing position to be used as the reference point for water-level measurements, and the elevations of the ground surface protective installations.</p> <p>Well development: All installed monitoring wells must be developed after drilling to remove fine sand, silt, clay, and any drilling mud residues from around the well screen to ensure the hydraulic functioning of the well. A detailed record should be kept of well development activities and included in the well construction log.</p> <p>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.</p> <p>Well network map: a well location map (using aerial image overlay) must be prepared and include the location of all monitoring wells in the monitoring network and their respective identification numbers.</p>		

Note 1: refer to Section 8 of Schedule B2 of the Assessment of Site Contamination NEPM for guidance on well screen depth and length.

Records and reporting

- 27.** The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:
- (a) the calculation of fees payable in respect of this licence;
 - (b) the works conducted in accordance with condition 10 of this licence;
 - (c) any maintenance of infrastructure that is performed in the course of complying with the conditions of this licence;
 - (d) monitoring programmes undertaken in accordance with condition 21, Table 13, condition 22, Table 14, condition 23, Table 15, condition 24, Table 16 and condition 25, Table 17 of this licence; and
 - (e) complaints received under condition 30 of this licence.
- 28.** The books specified under condition 27 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

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- (d) be available to be produced to an inspector or the CEO as required.
- 29. 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 each year, after the end of that annual period an Annual Audit Compliance Report in the approved form.
- 30. 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.
- 31. The licence holder must:
 - (a) prepare an Environmental Report that provides information in accordance with Table 19 for the annual period,
 - (b) submit that Environmental Report to the CEO by 31 March each year, after the end of the annual period.

Table 19: Environmental reporting requirements

Condition or table (if relevant)	Parameter	Format or form
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken.	None specified
Condition 6	Annual water balance.	None specified
Condition 16, Table 11	L1 and L2 – representative photographs of the irrigation areas, summary of vegetation health and weed management (within the irrigation areas) implemented during reporting period. L3 – summary of inspections of erosion and vegetation health and weed management with controls implemented during reporting period.	None specified
Condition 21, Table 13	Contingency discharge monitoring.	None specified
Condition 22, Table 14	Groundwater reinjection monitoring.	None specified
Condition 23, Table 15	Monitoring of emissions to land and interpretation of results against plant design specifications and relevant ANZG (2018) Guidelines.	None specified
Condition 24, Table 16	Process monitoring results and interpretation of results.	None specified

Condition or table (if relevant)	Parameter	Format or form
Condition 25, Table 17	Ambient groundwater monitoring results; and a comparison of results from the Flinders In-Pit TSF1 Complex, Flinders In-Pit TSF2 Complex and Flinders TSF3 groundwater monitoring bores against the site specific trigger values detailed in the document, <i>Life of Mine Geochemistry Programme – Site Specific Trigger Values (45-SY-EN-0001)</i> . Details of investigations conducted, including outcomes, environmental impacts, and remedial actions, in relation to trigger exceedances and a discussion of any trends identified.	None specified
Condition 29	Compliance.	None specified
Condition 30	Complaints summary.	None specified

- 32.** The licence holder must ensure that the Environmental Report also contains:
- (a) an assessment of the information contained within the report against previous monitoring results; 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.
- 33.** The licence holder must ensure that the conditions listed in Table 20 are notified to the CEO in accordance with the notification requirements of the table.

Table 20: Notification requirements

Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
Condition 1, Table 1 Condition 4, Table 3 Condition 7, Table 5 Condition 21, Table 13	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5 pm of the next usual working day.	N1
Condition 10, Table 7	The Licence Holder must submit a compliance document to the CEO, following the construction and/or installation of an item of infrastructure or equipment required by Condition 10, Table 7. The compliance documents must: <ul style="list-style-type: none"> (a) be certified by a suitably qualified engineer and certify that the works were constructed in accordance with the construction requirements specified in Condition 10, (b) Table 7; (c) include as constructed plans or a detailed site plan for each item of infrastructure or component of infrastructure specified in 	Prior to commencement of commissioning.	None specified

Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
	Condition 10, (d) Table 7; and (e) be signed by a person authorised to represent the licence holder and contain the printed name and position of that person within the company.		
Condition 14	Contingency discharge	Within 3 days of cessation of the discharge; and including results from the monitoring required under Condition 21, Table 13	None specified
Condition 26, Table 18	Expansion of ambient groundwater monitoring network requirements The licence holder must submit a compliance document to the CEO, following the construction and/or installation of the groundwater monitoring network expansion required by Condition 26, Table 18. The compliance documents must: <ul style="list-style-type: none"> (a) be certified by a suitably qualified engineer and/or a suitably qualified hydrogeologist and certify that the works were constructed in accordance with the construction requirements specified in Condition 26, Table 18; (b) include confirmation that the requirements specified in Condition 26, Table 18 have been met; and (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. 	Prior to the installation of 108 saline injection bores drilled into the Oakover aquifer: SAI43 – SAI151	None specified

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

Note 2: Forms are in Schedule 2.

Definitions

In this licence, the terms in Table 21 have the meanings defined.

Table 21: 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
ANZG (2018)	means the recent version and relevant parts of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia) Available at www.waterquality.gov.au/anz-guidelines
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 <i>Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples</i>
AS/NZS 5667.6	means the Australian Standard AS/NZS 5667.6 <i>Water Quality – Sampling – Guidance on sampling of rivers and streams</i>
AS/NZS 5667.10	means the Australian Standard AS/NZS 5667.10 <i>Water Quality – Sampling – Guidance on sampling of waste waters</i>
AS/NZS 5667.11	means the Australian Standard AS/NZS 5667.11 <i>Water Quality – Sampling – Guidance on sampling of groundwaters</i>
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.
CCY	means Central Contractors Yard
CEO	means Chief Executive Officer of the Department. “submit to / notify the CEO” (or similar), means either: <p style="text-align: center;">Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919</p> or: info@dwer.wa.gov.au
Clean Fill	has the meaning defined in the Landfill Definitions

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Term	Definition
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
emission	has the same meaning given to that term under the EP Act.
EP Act	<i>Environmental Protection Act 1986</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (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
HRS	Hydrogen Refuelling Station
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 " <i>Landfill Waste Classification and Waste Definitions</i> " 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
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 or monitoring
NTU	means Nephelometric Turbidity Units

Term	Definition
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 - 14
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
RO	means reverse osmosis
RTU	means Remote Telemetry Units;
Schedule 1	means Schedule 1 of this Licence unless otherwise stated
Schedule 2	means Schedule 2 of this Licence unless otherwise stated
Schedule 3	means Schedule 3 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 taken
TDS	means Total Dissolved Solids
TSF	means Tailings Storage Facility
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

END OF CONDITIONS

Schedule 1: Maps

Premises map

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

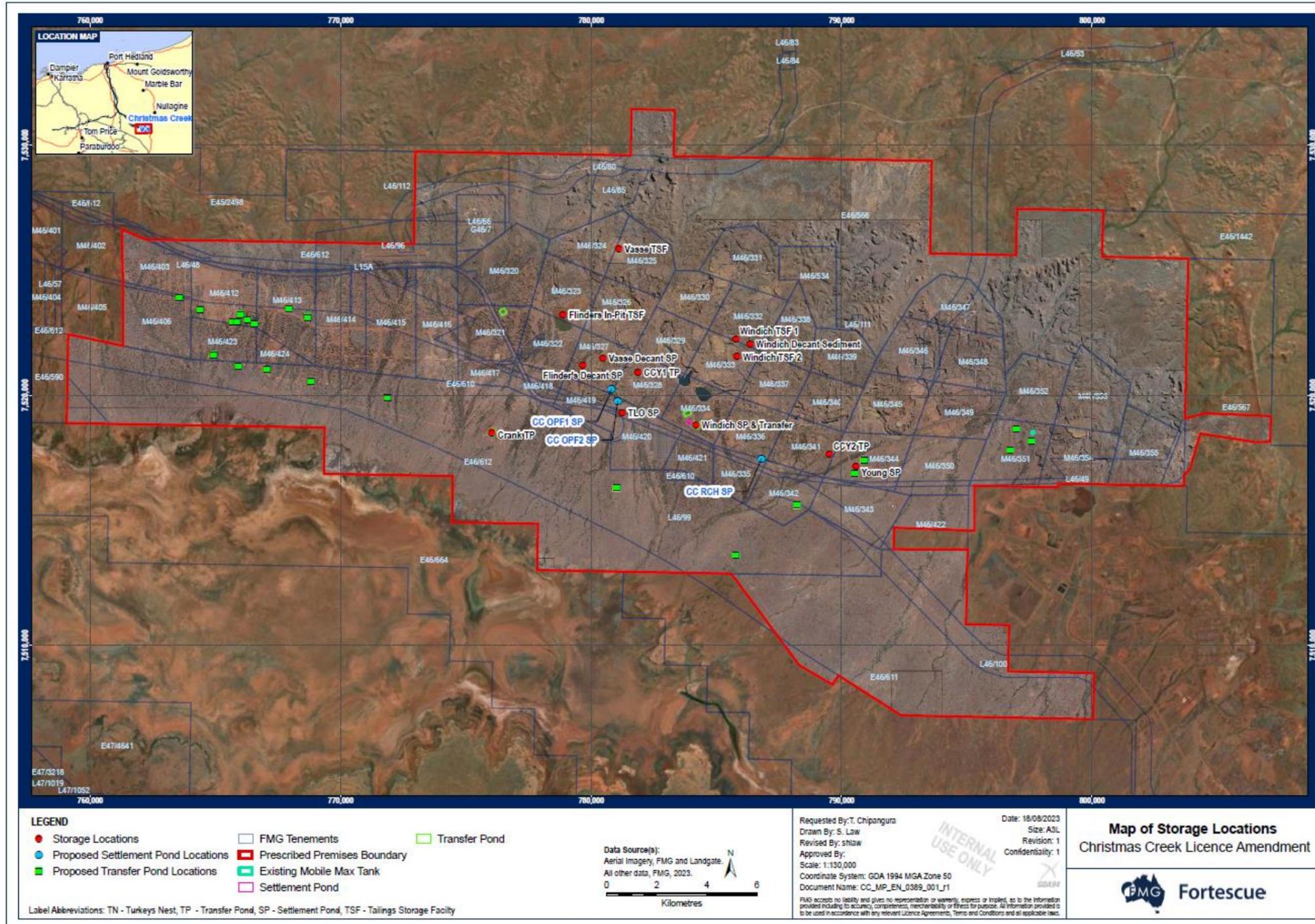


Figure 1: Premises Map with the red line depicting the Premises boundary

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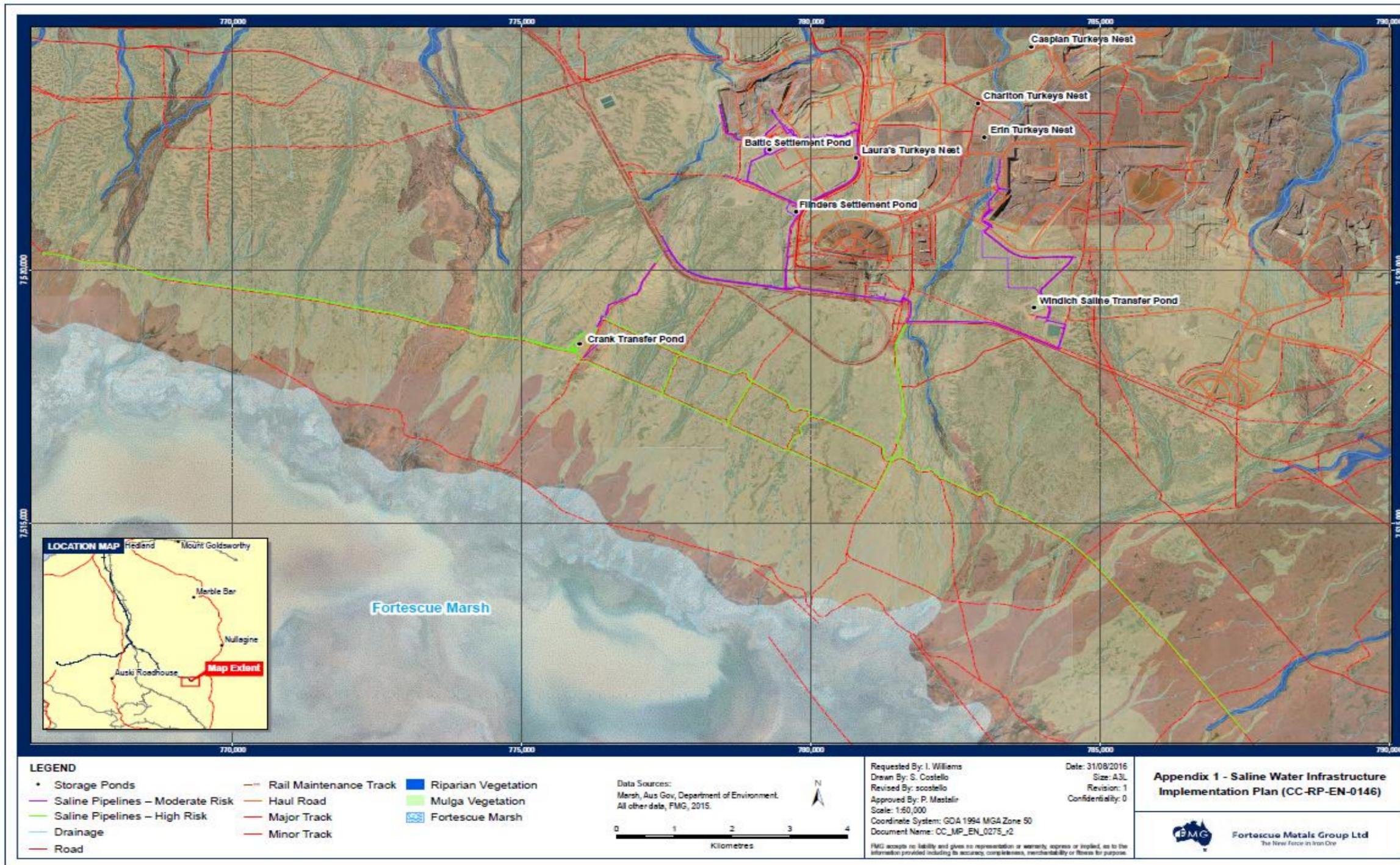


Figure 2: Map of environmentally sensitive areas referred to in Condition 3

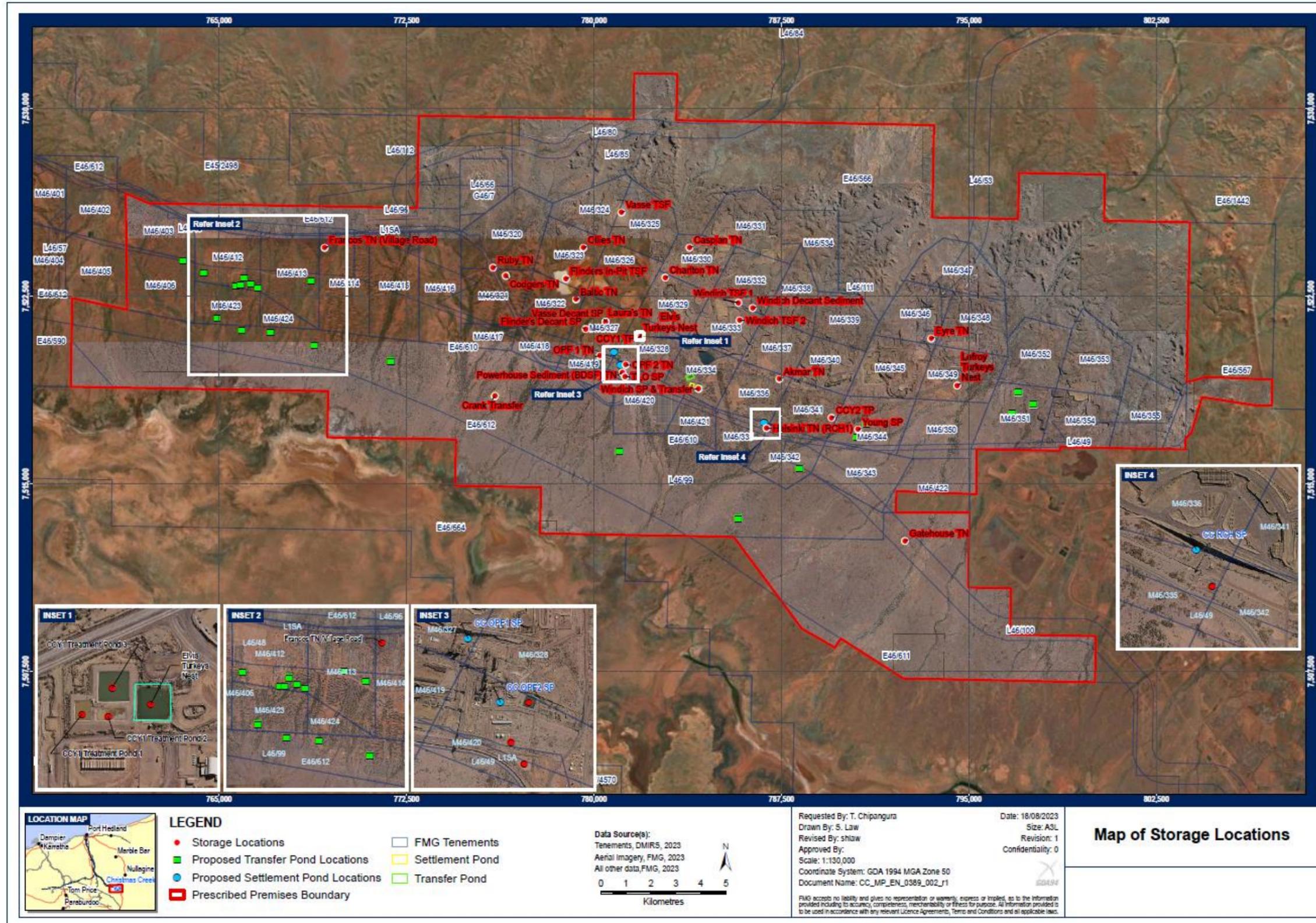


Figure 3: Map of containment infrastructure referred to in Condition 4, Table 3 (note Mobile Max Turkey's Nest can be relocated around the mine site to provide additional water storage capacity)

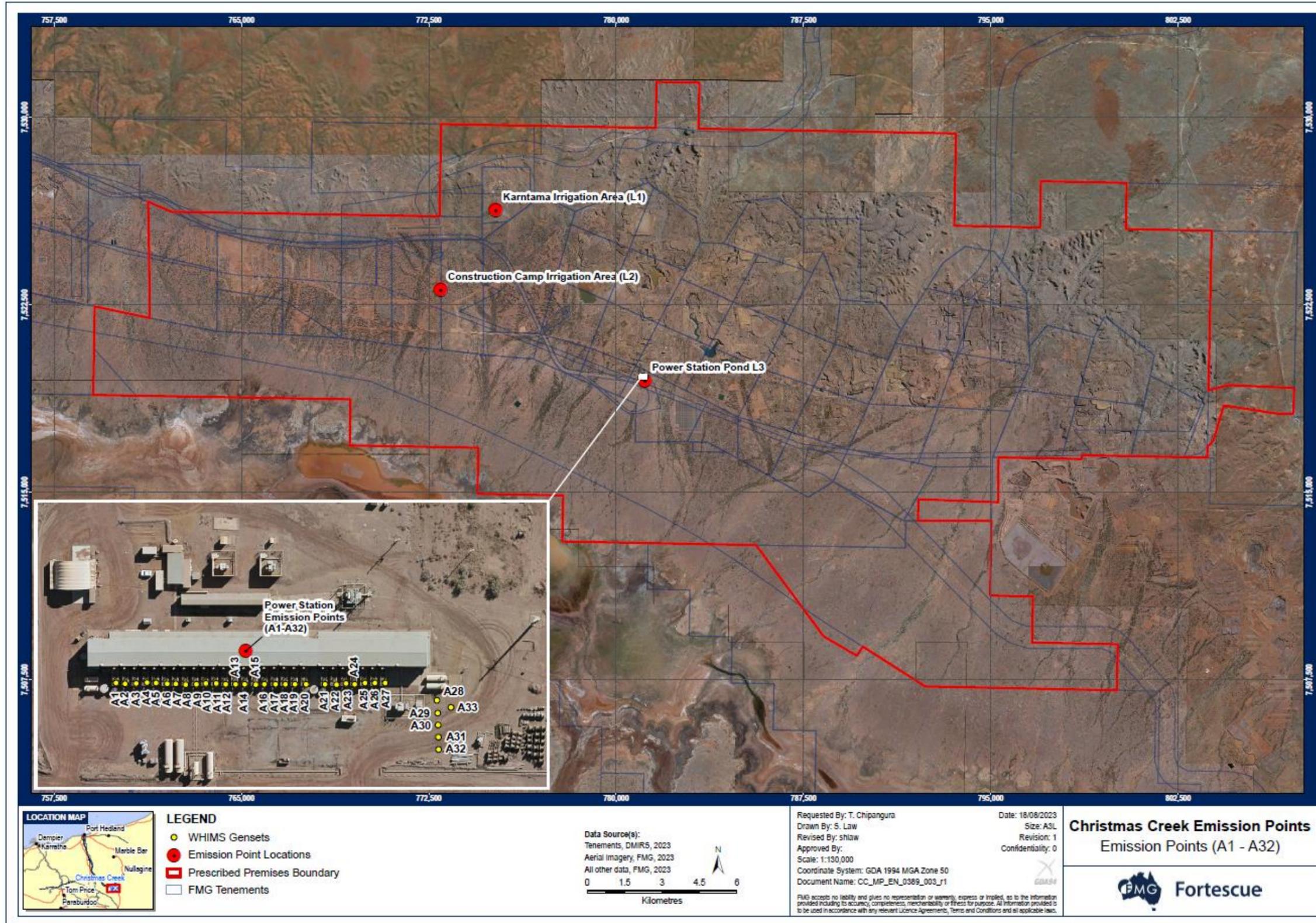


Figure 4: Map of emission points referred to in Condition 13, Table 8 and Condition 16, Table 11

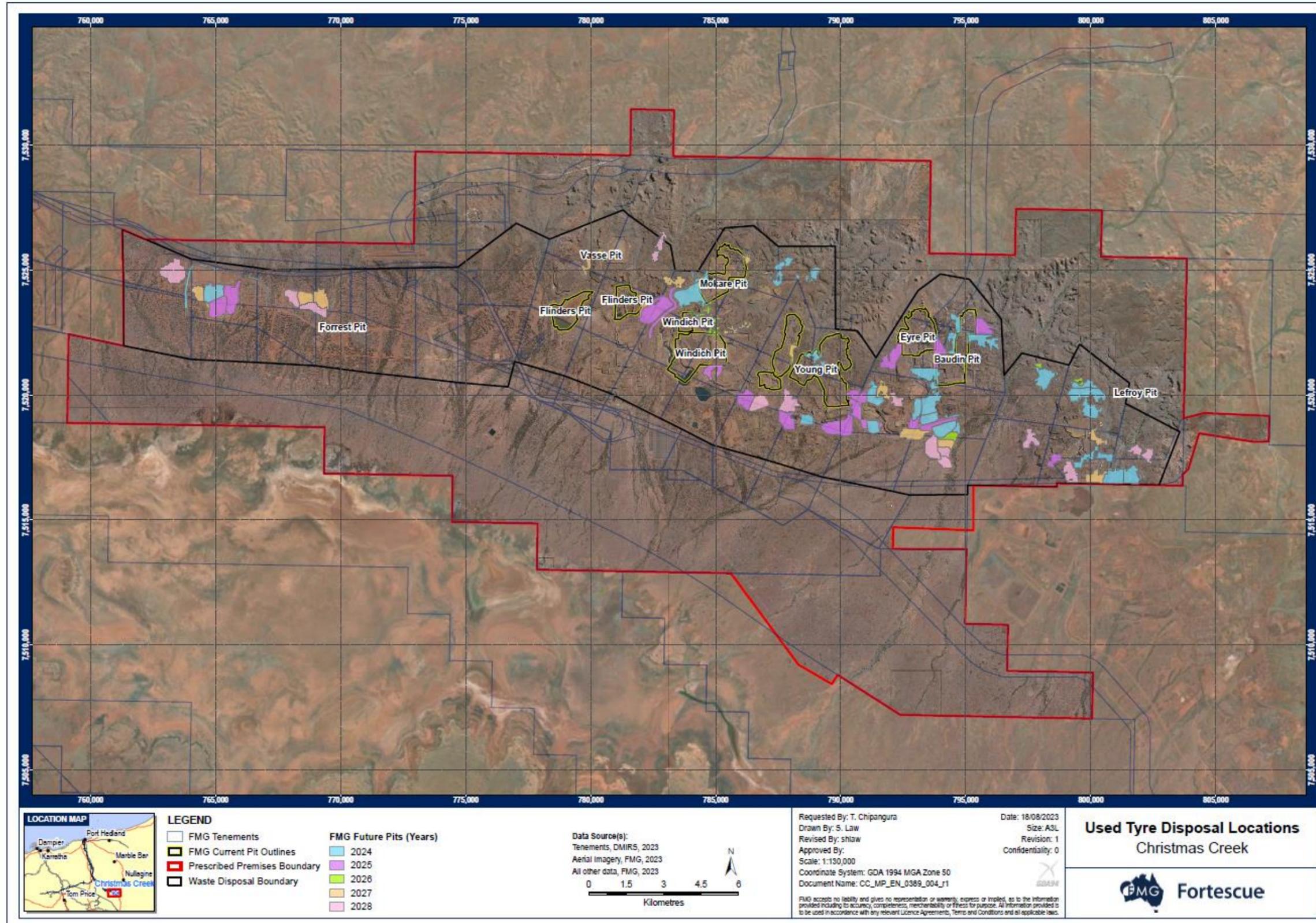


Figure 5: Locations of the used tyres and construction waste disposal locations, defined in Condition 7, Table 5

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IR-T06 Licence template (v9.0) (November 2023)

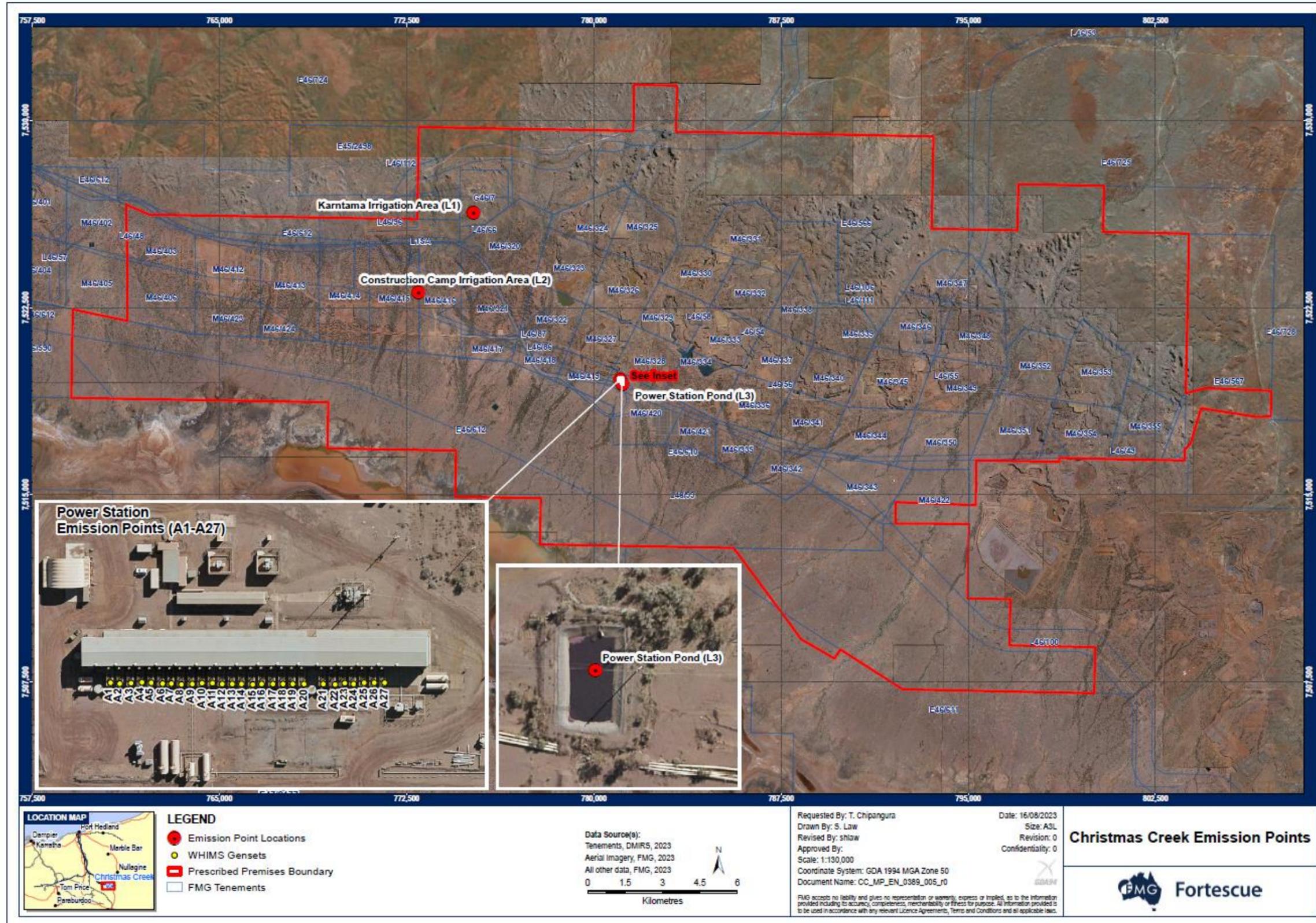


Figure 6: The locations of the emission points defined in Condition 13, Table 8 and Condition 16, Table 11 and monitoring locations defined in Condition 24, Table 15

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IR-T06 Licence template (v9.0) (November 2023)

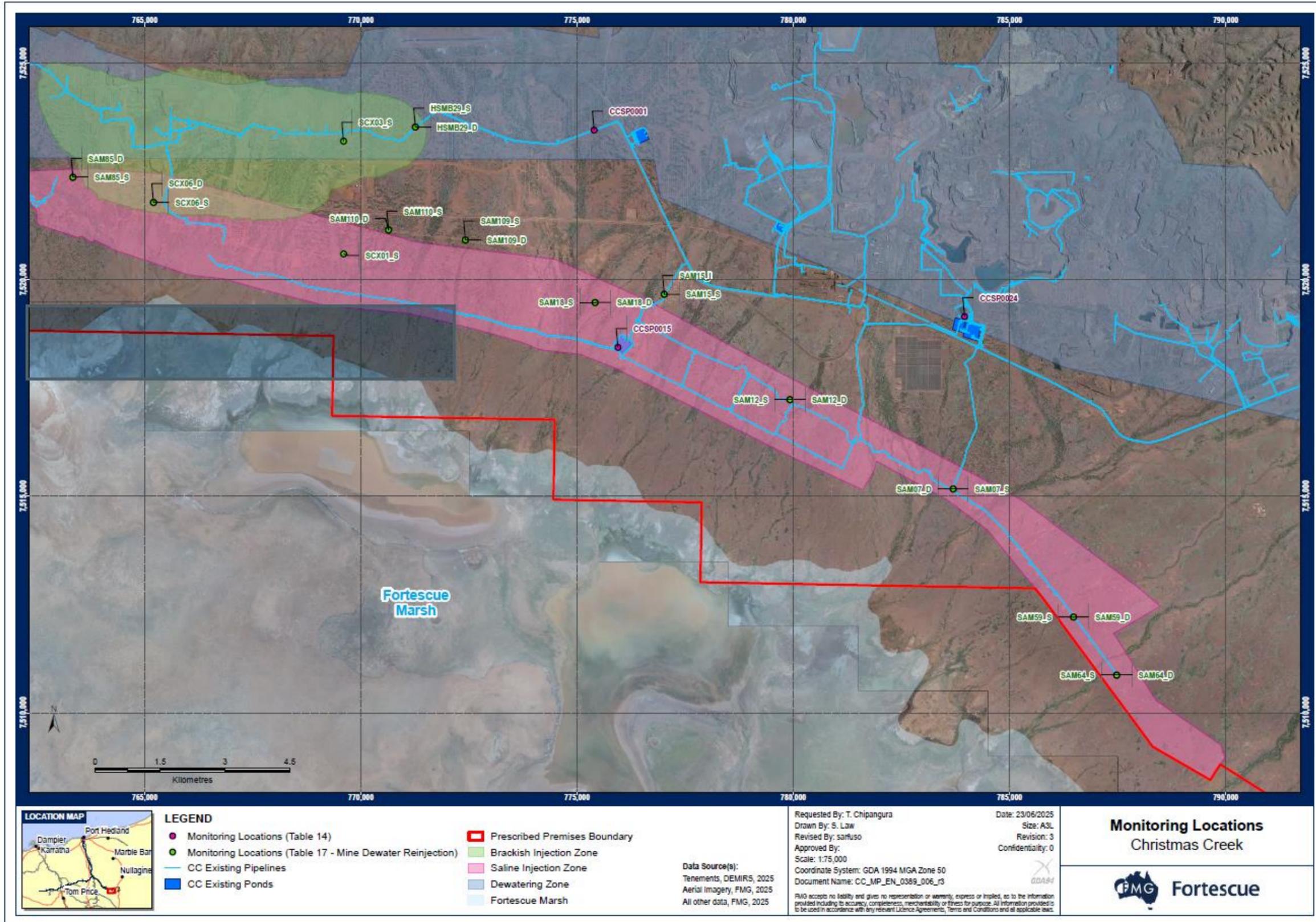


Figure 7: The locations of the emission points defined in Condition 14, Table 9 and monitoring locations defined in Condition 21, Table 13

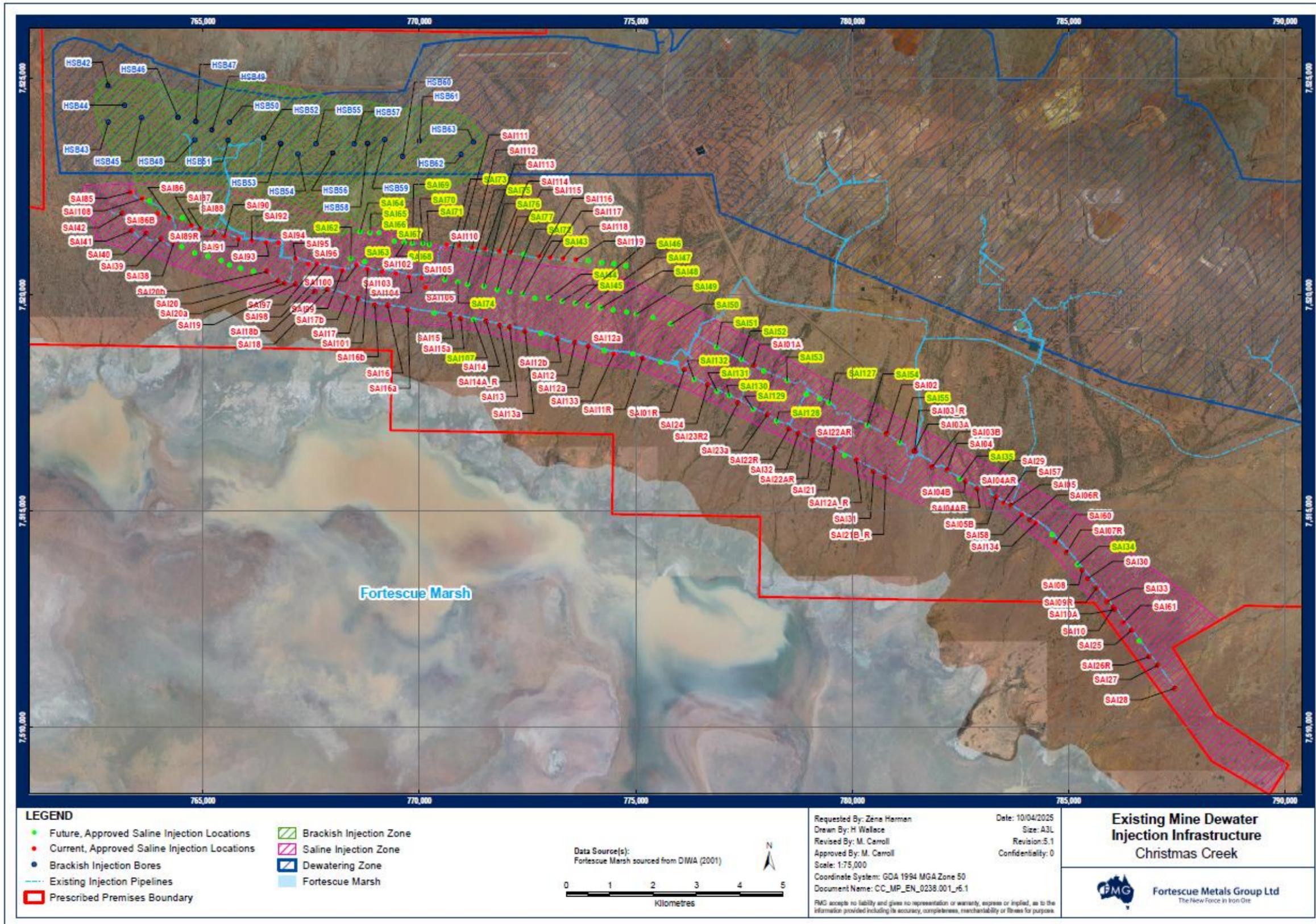


Figure 8: The locations of the emission points defined in Condition 15, Table 10

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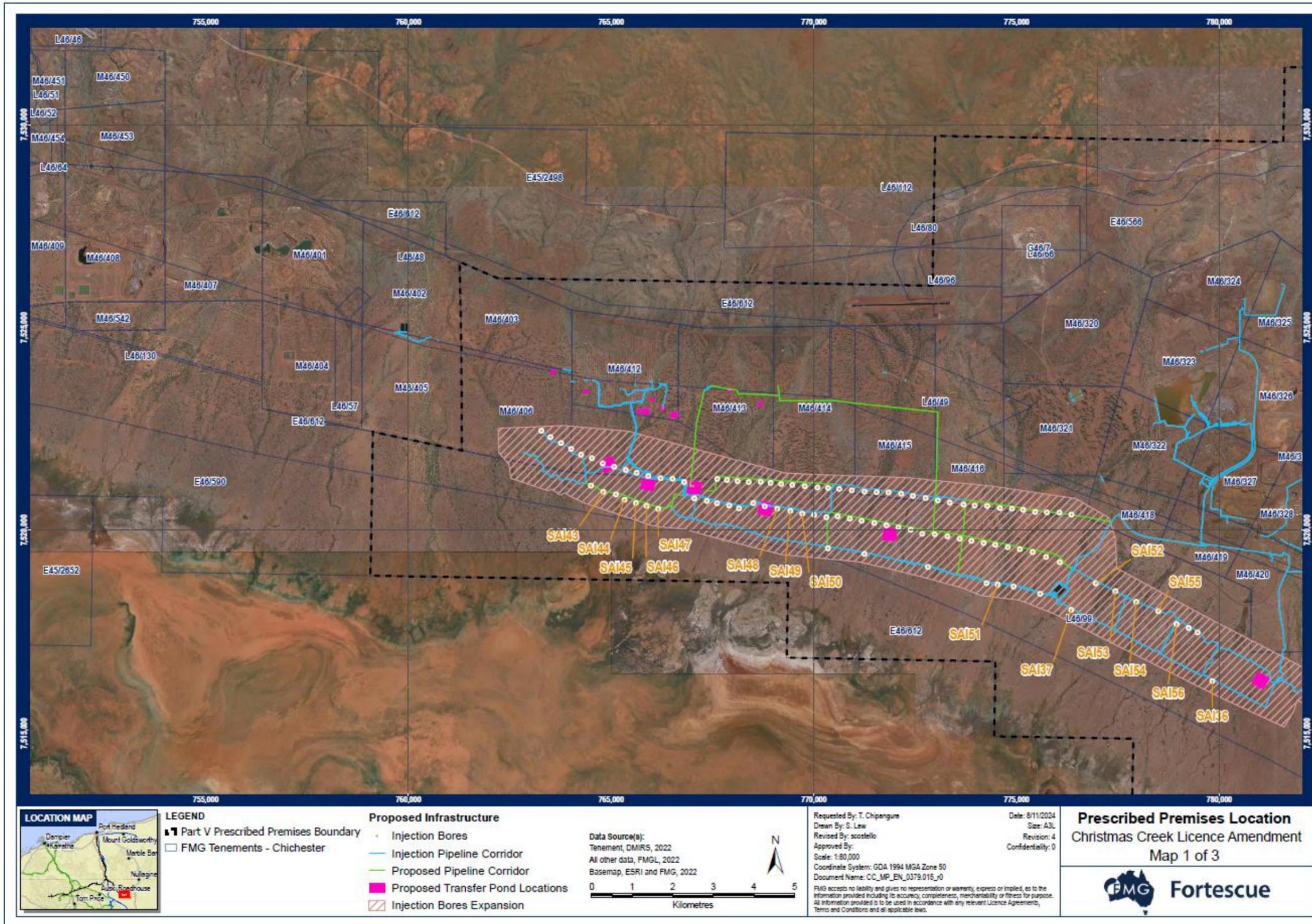


Figure 9: Map 1 of Expansion of Injection Bores emission points defined in Condition 15, Table 10

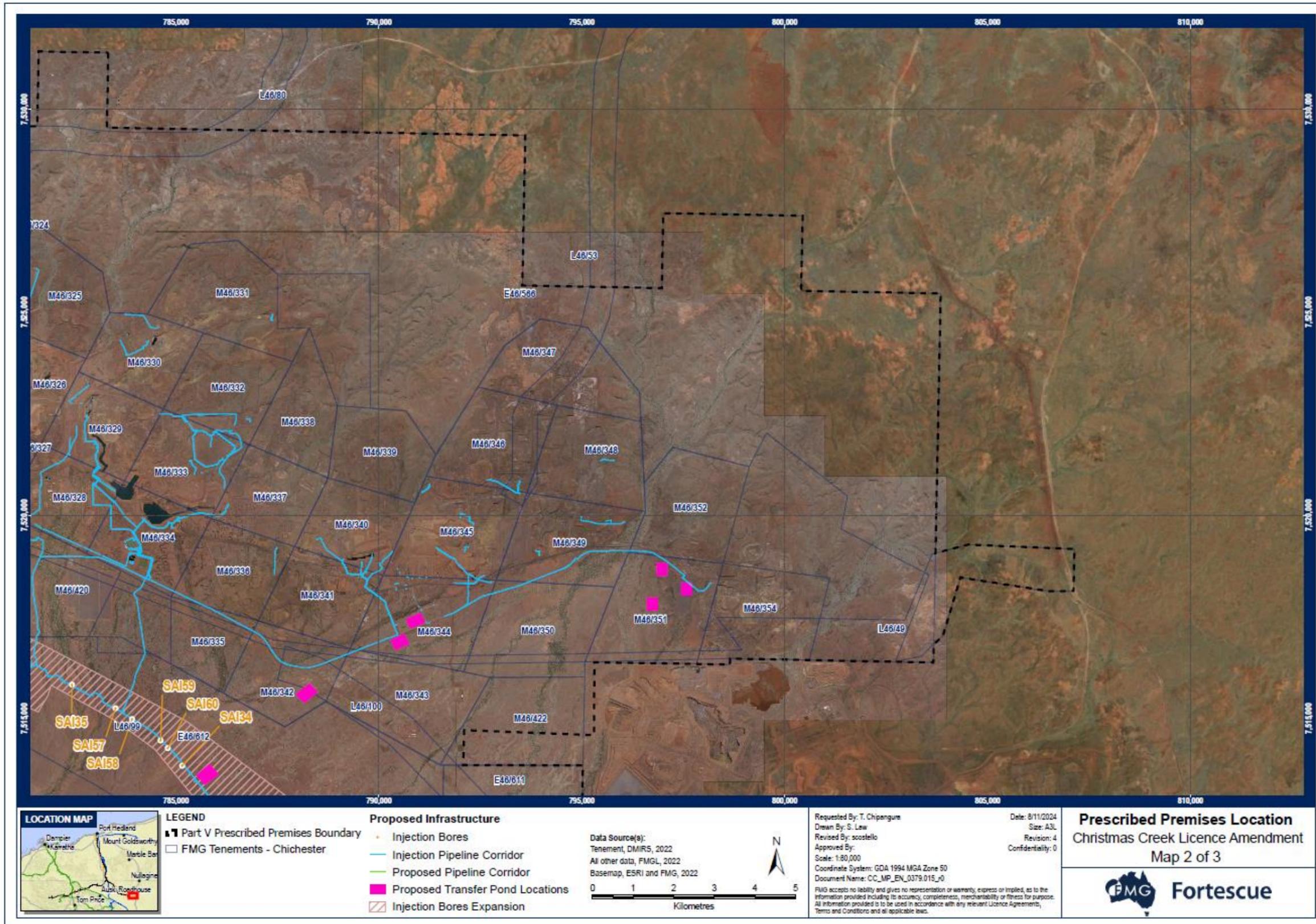


Figure 10: Map 2 of Expansion of Injection Bores emission points defined in Condition 15, Table 10

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IR-T06 Licence template (v9.0) (November 2023)

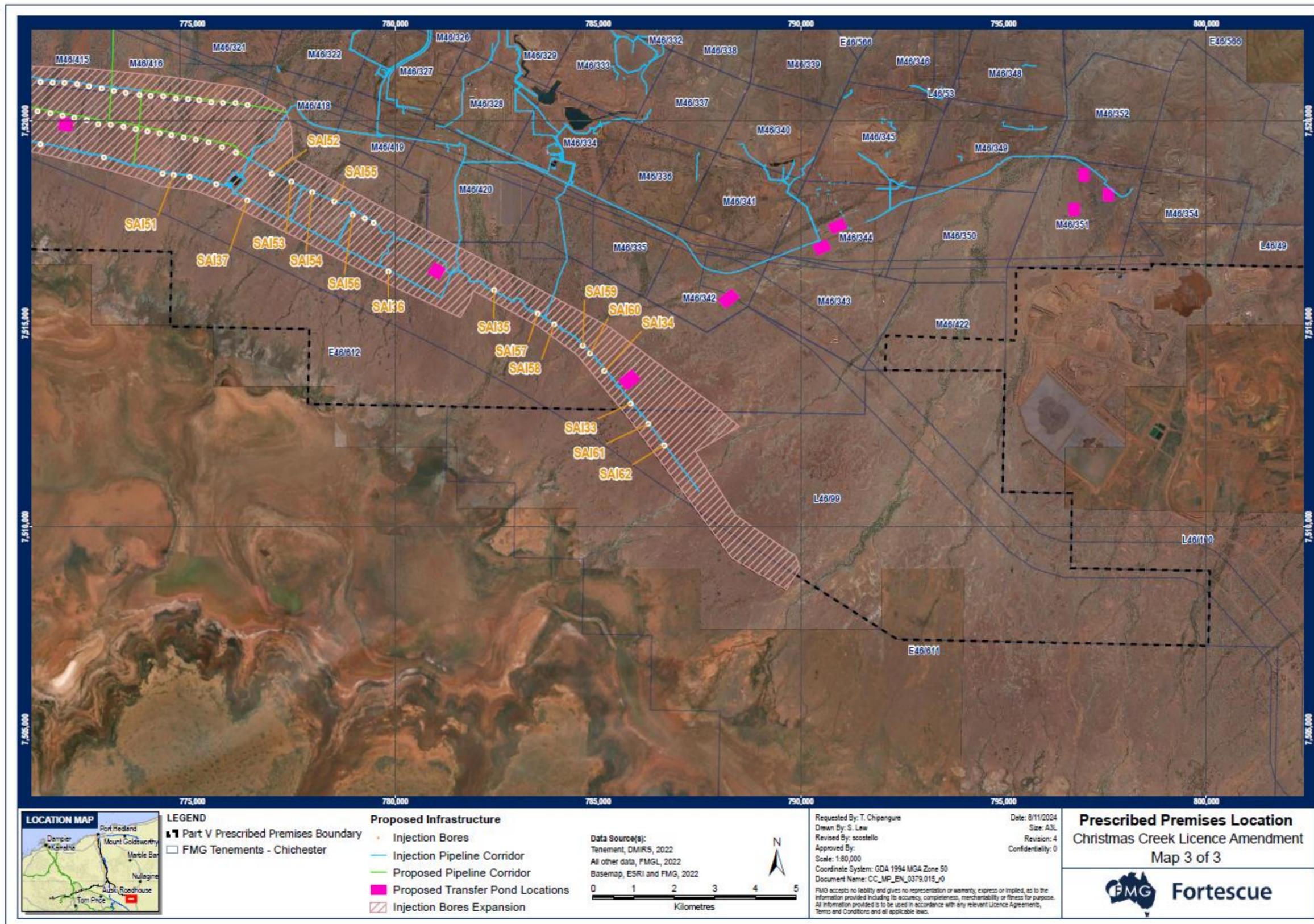


Figure 11: Map 3 of Expansion of Injection Bores emission points defined in Condition 15, Table 10

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IR-T06 Licence template (v9.0) (November 2023)

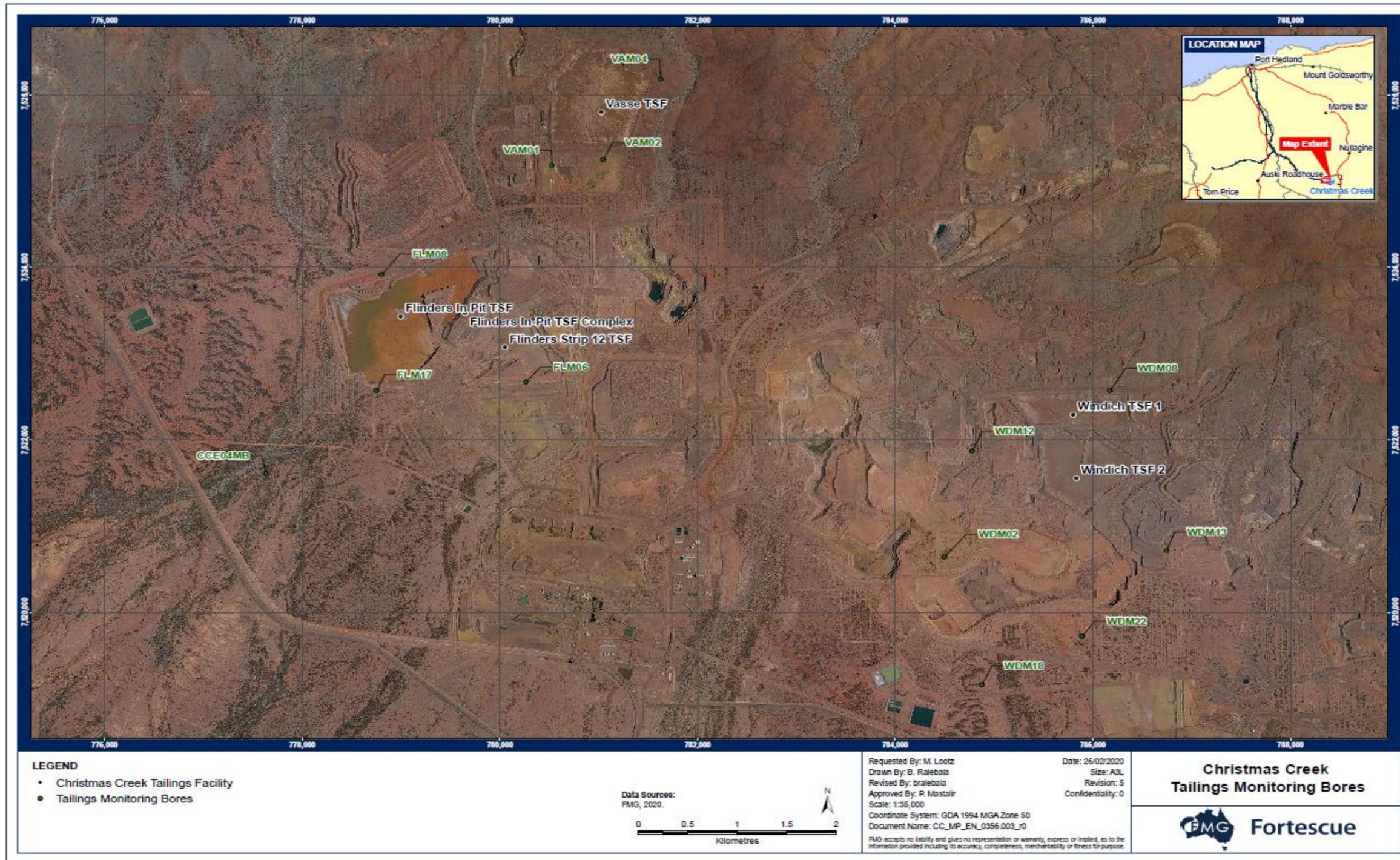


Figure 12: The locations of the TSF monitoring points defined in Condition 25, Table 17

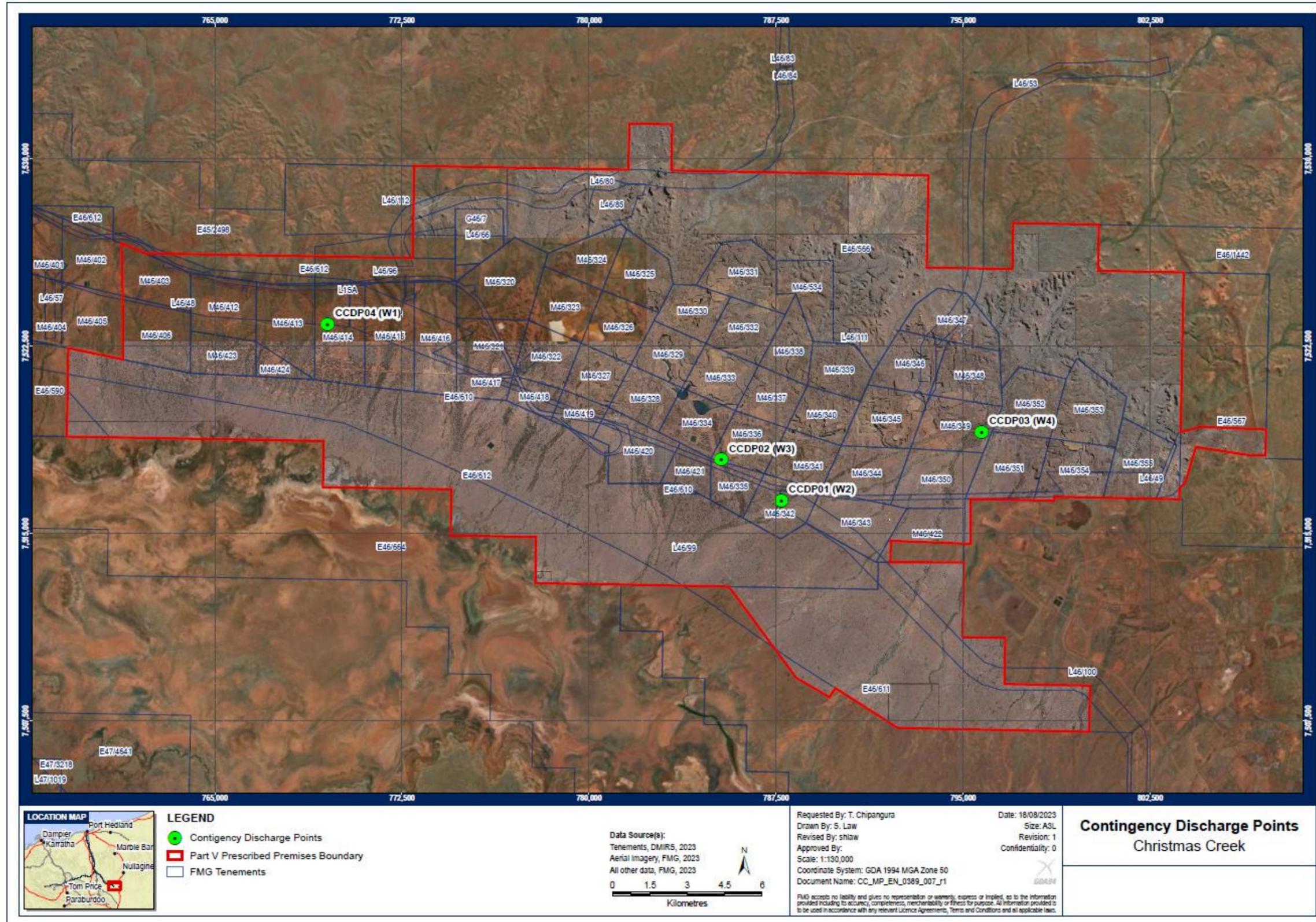


Figure 13: The locations of the monitoring locations defined in Condition 22, Table 14 and Condition 25, Table 17

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IR-T06 Licence template (v9.0) (November 2023)

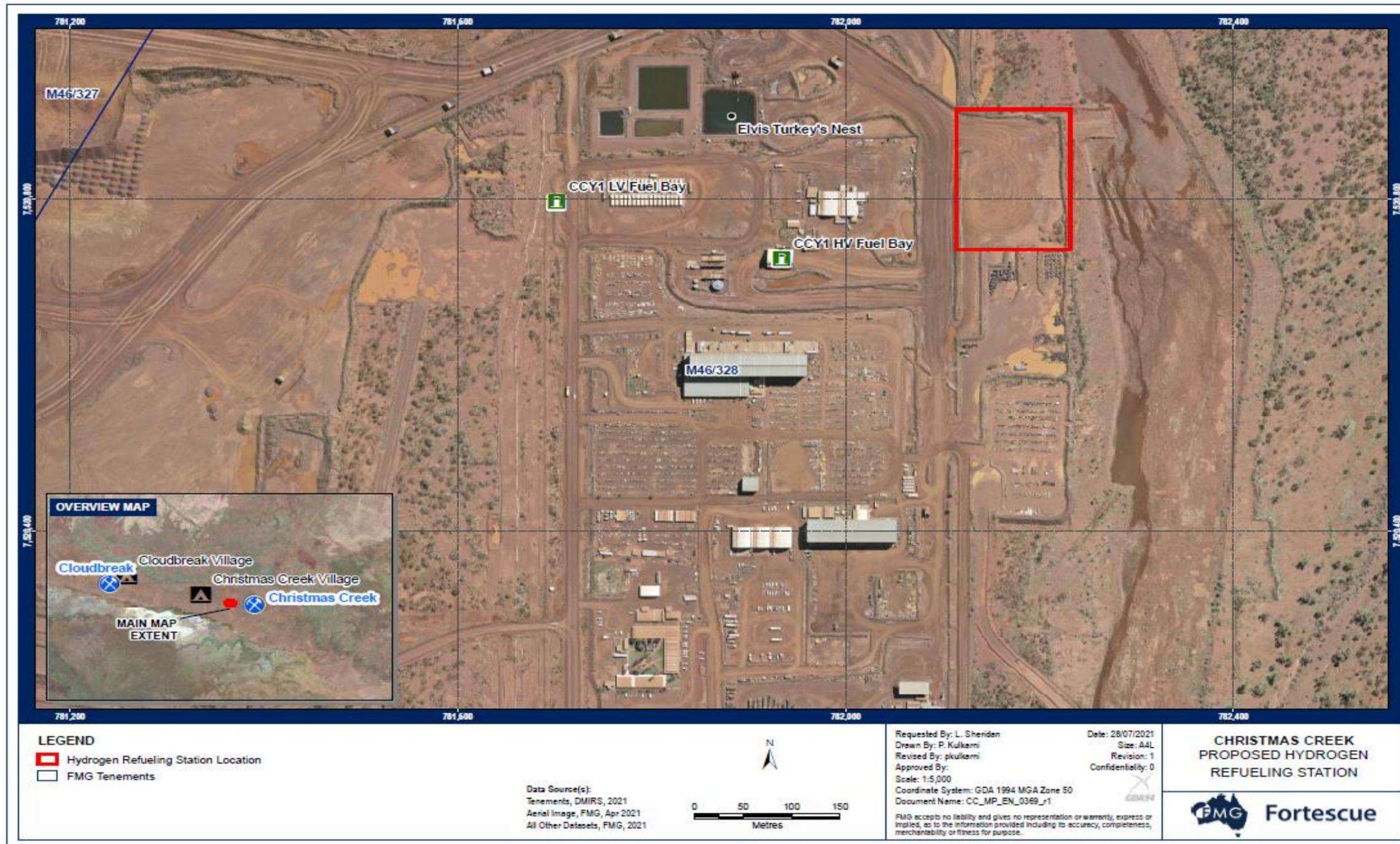


Figure 14: Location of the Hydrogen Refuelling Station

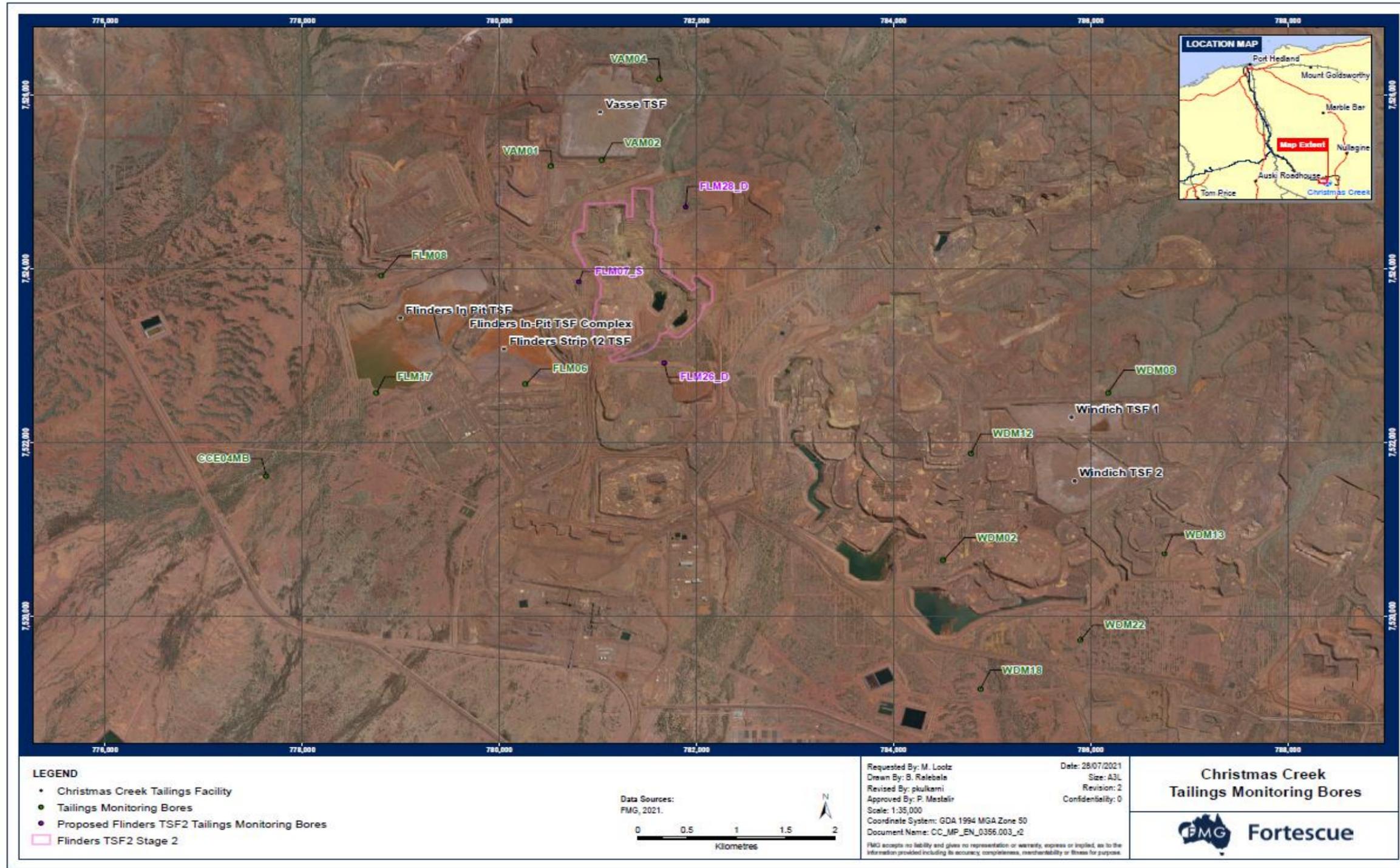


Figure 15: Proposed Flinders TSF2 Complex and groundwater monitoring bores

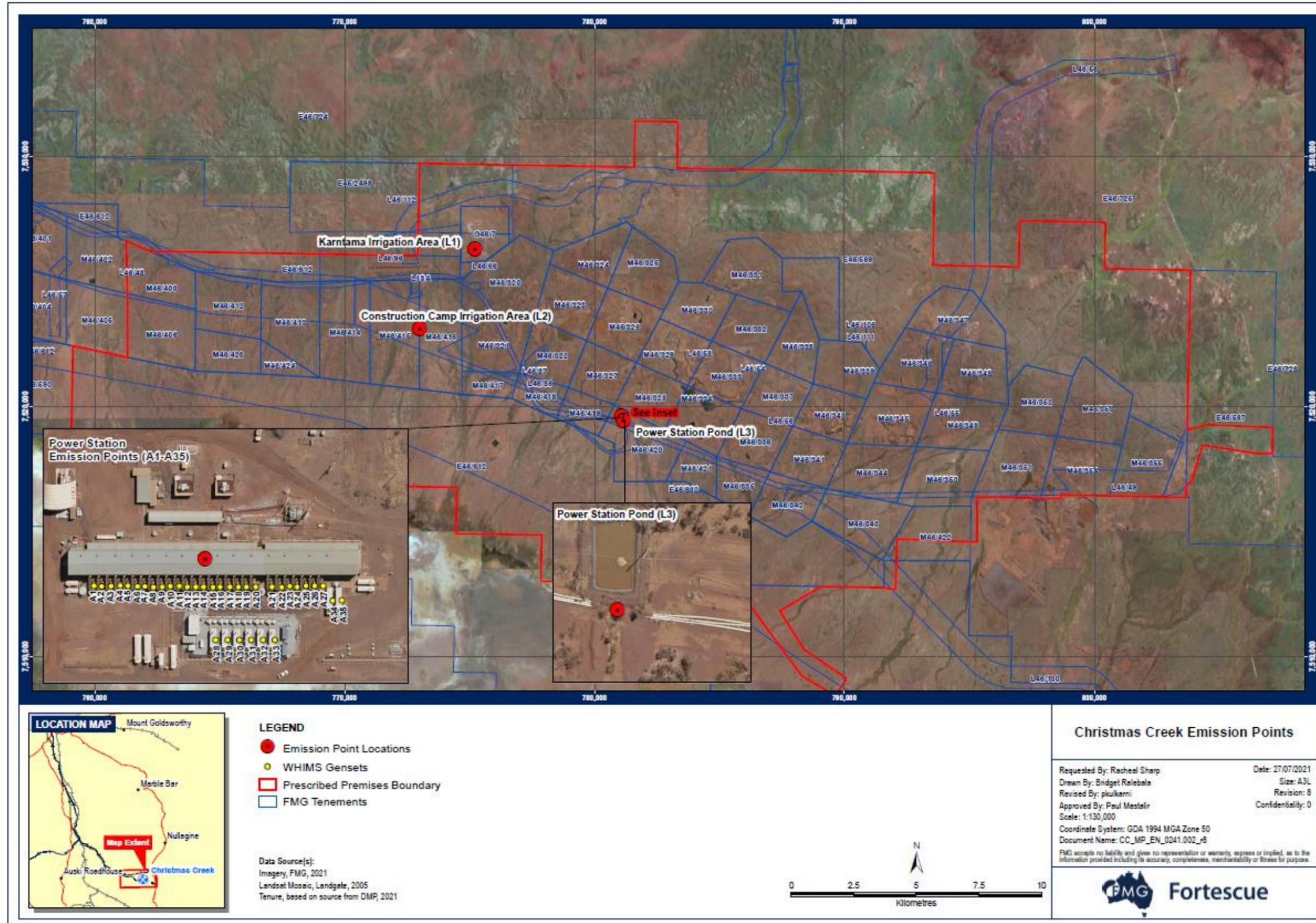


Figure 16: Location of the proposed new diesel generator sets

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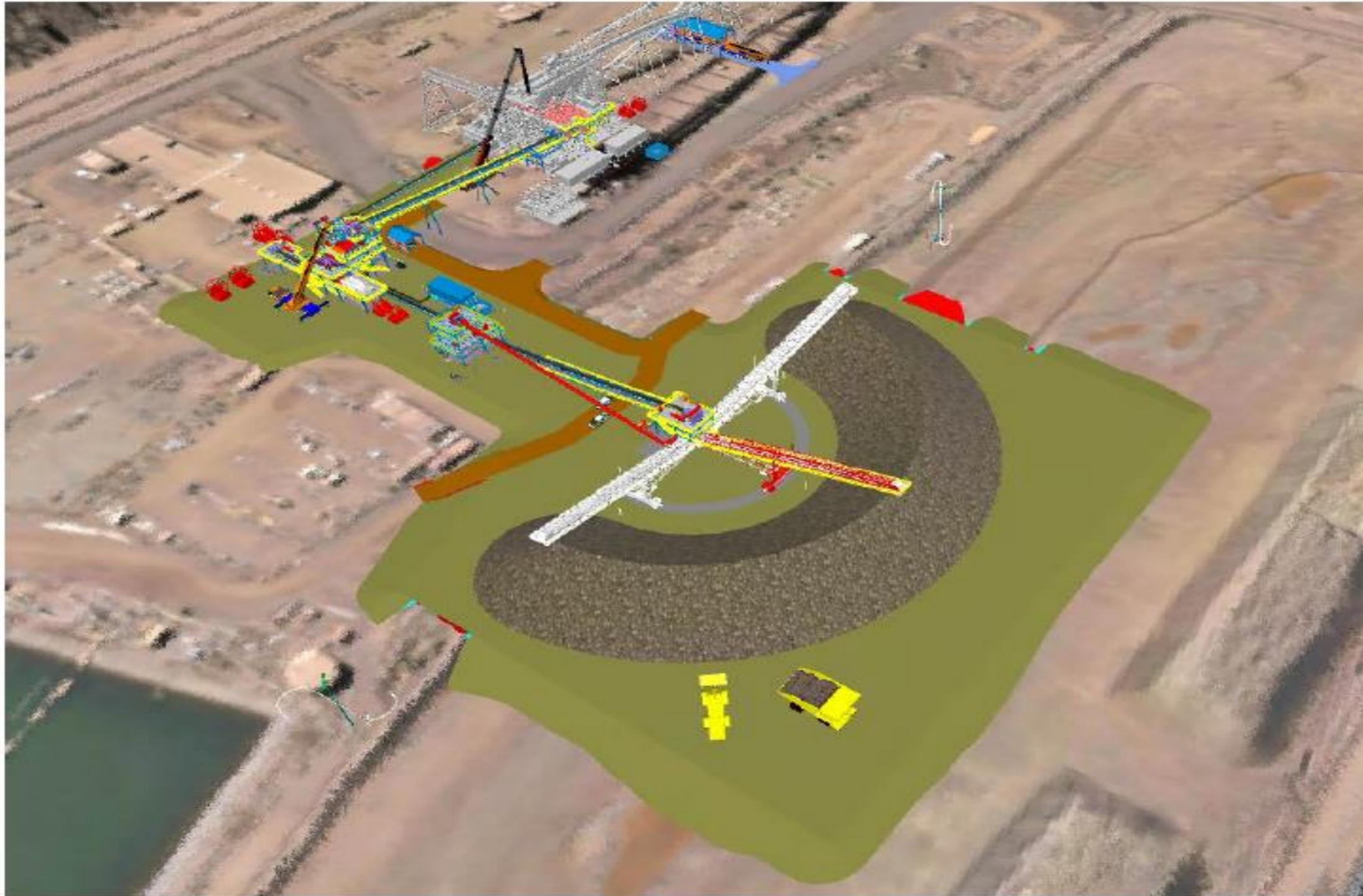


Figure 17: Indicative layout of proposed OPF1 Lump Plant

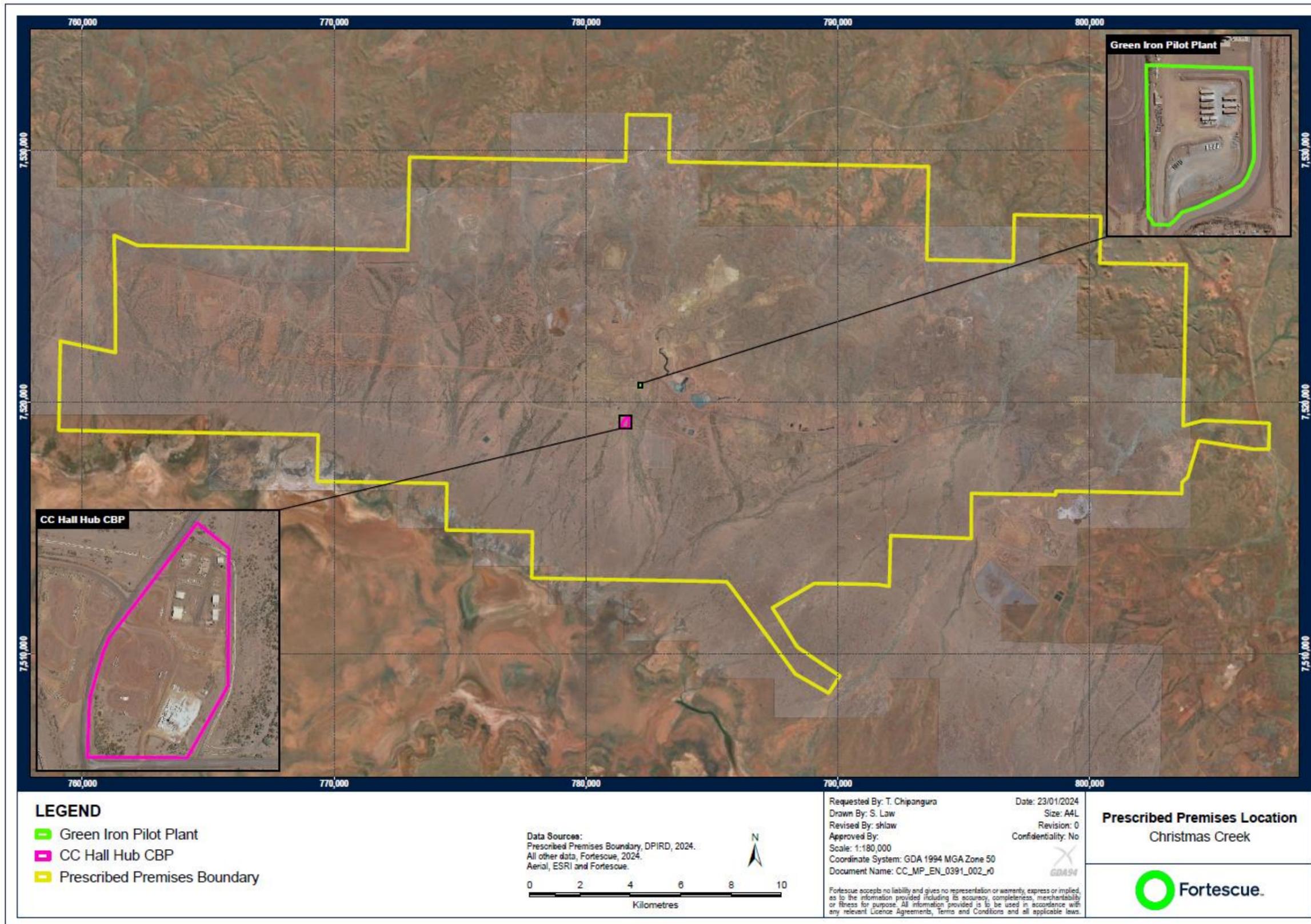


Figure 18: Locations of the proposed Green Iron Pilot Plant and Concrete Batching Plant

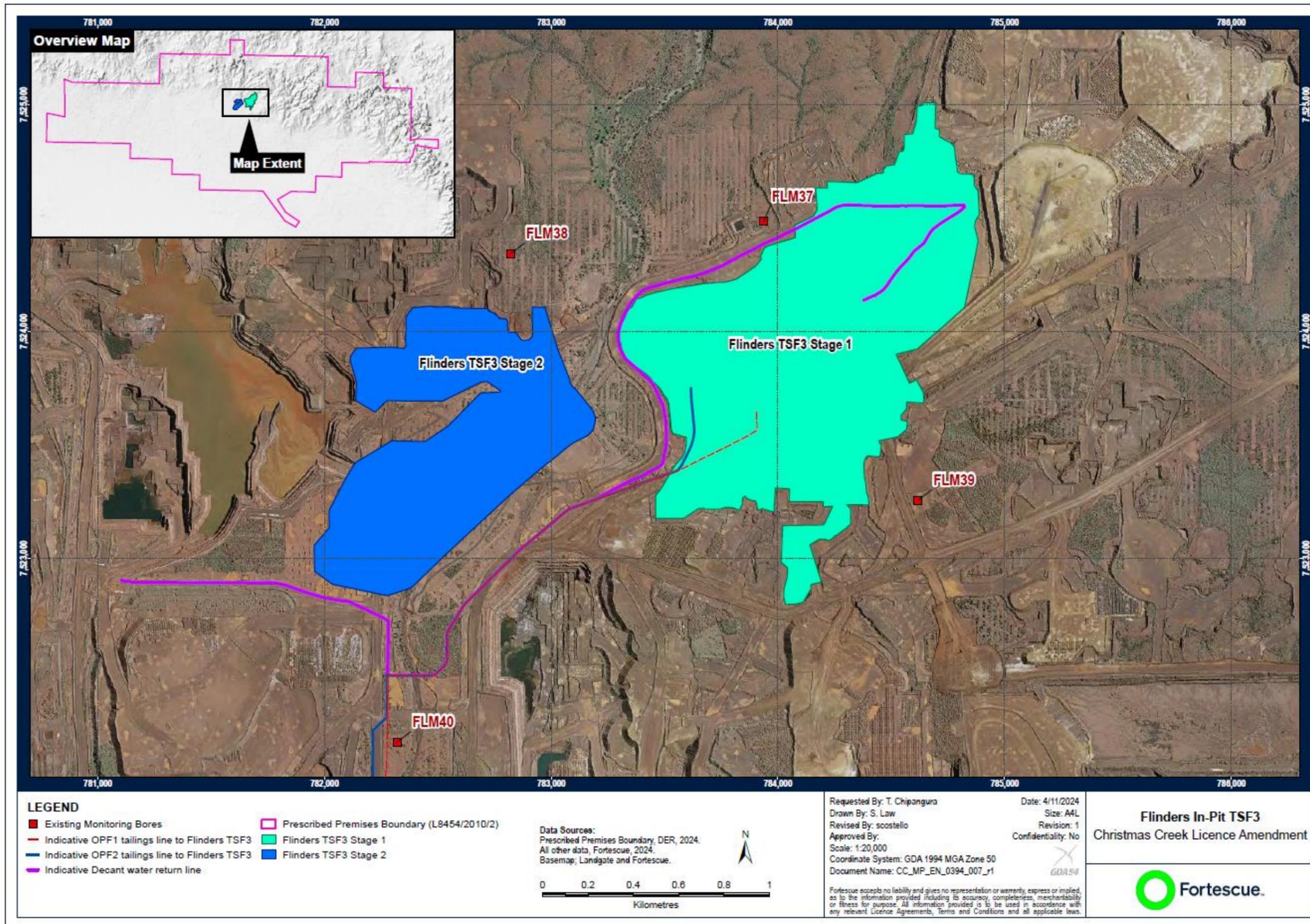


Figure 19: Flinders In-Pit TSF3, indicative tailings line and decant water return line and existing groundwater monitoring bores

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IR-T06 Licence template (v9.0) (November 2023)

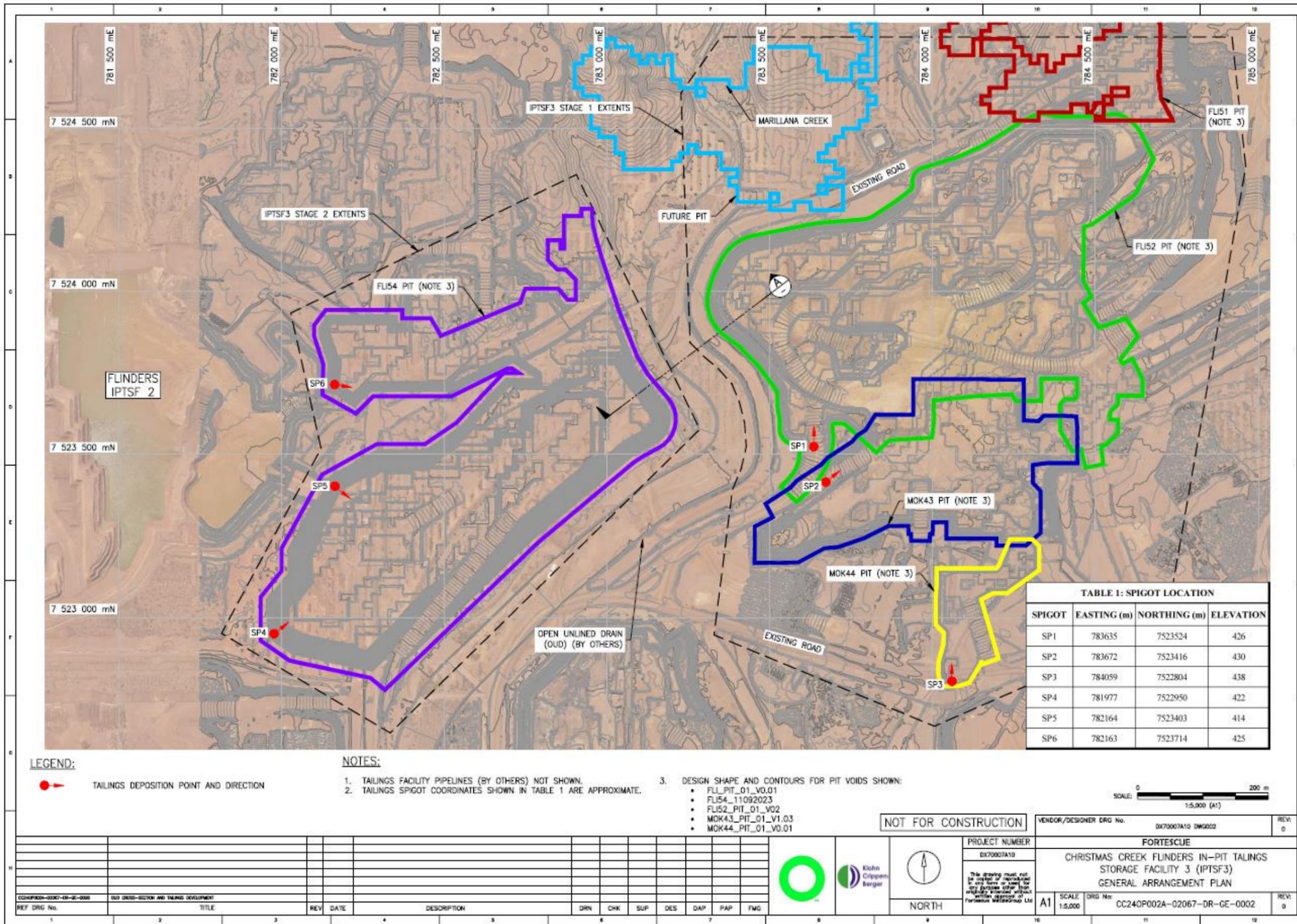


Figure 20: Flinders In-Pit TSF3 General arrangement plan including indicative tailings deposition locations

L8454/2010/2 (02/07/2025)

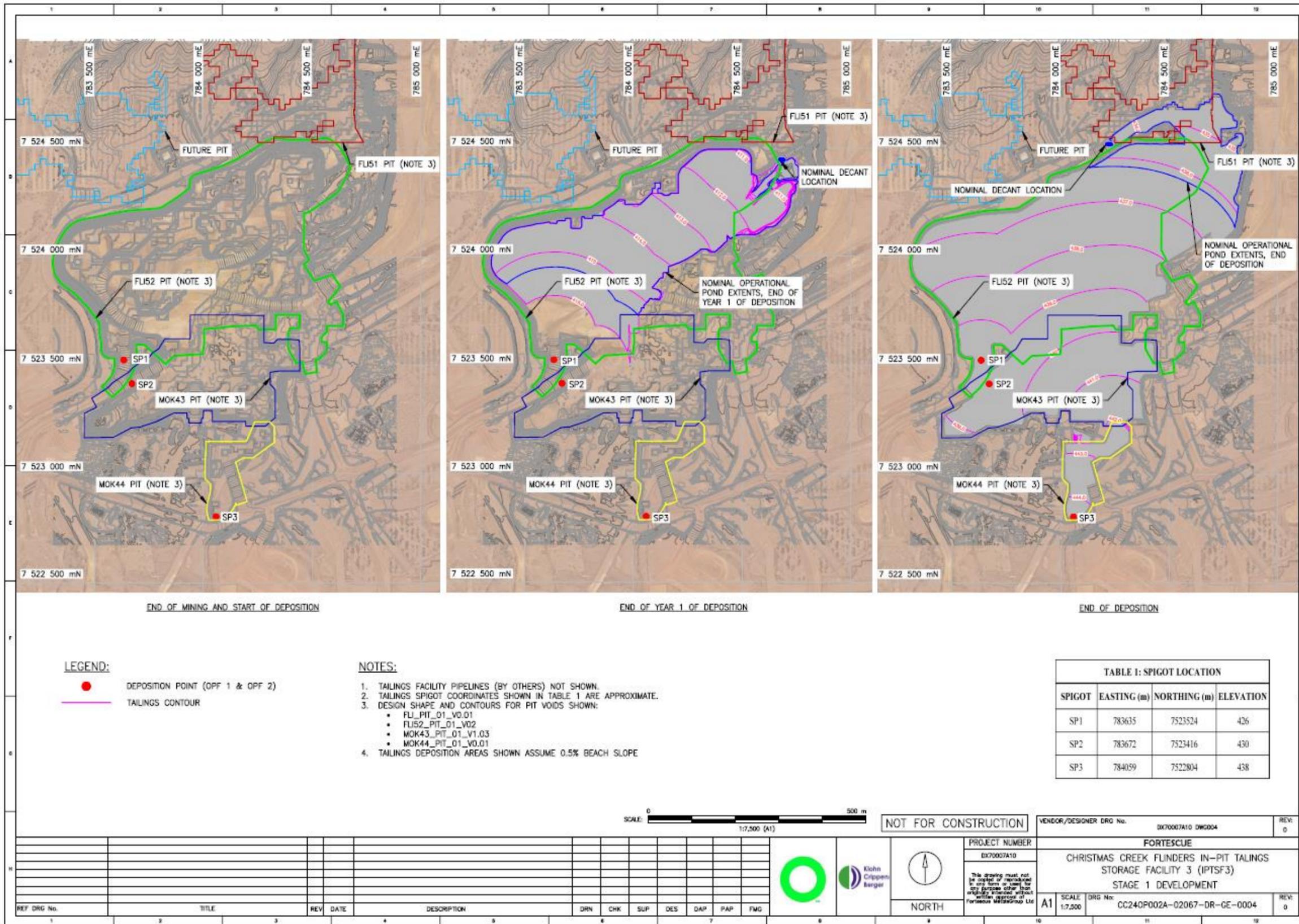


Figure 21: Flinders In-Pit TFS3 Stage 1 development

L8454/2010/2 (02/07/2025)

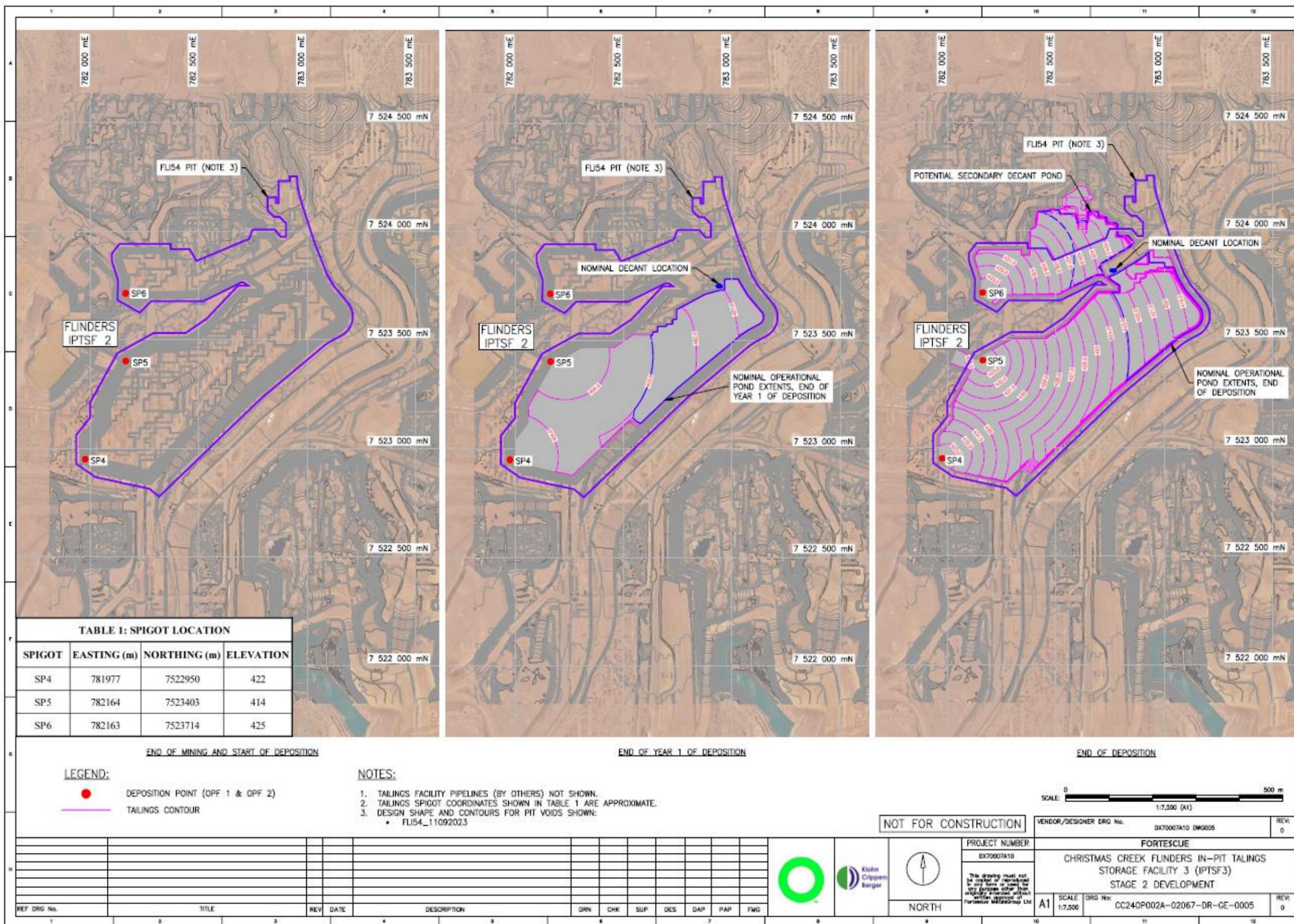


Figure 22: Flinders In-Pit TSF3 Stage 2 development

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Schedule 2: Premises boundary

The corners of the premises boundary are the coordinates listed in Table 22.

Table 22: Premises boundary coordinates (GDA2020)

	Easting	Northing	Zone
1.	783334.4027	7531385.151	50
2.	783300.7376	7529538.791	50
3.	785018.6658	7529507.361	50
4.	786736.6113	7529475.741	50
5.	788454.5724	7529443.931	50
6.	790172.5529	7529411.929	50
7.	791890.5508	7529379.738	50
8.	793608.5649	7529347.355	50
9.	793573.6467	7527500.881	50
10.	793538.7036	7525654.402	50
11.	795256.327	7525621.791	50
12.	796973.9684	7525588.989	50
13.	797009.3216	7527435.506	50
14.	798727.1861	7527402.532	50
15.	800445.067	7527369.368	50
16.	800409.3037	7525522.812	50
17.	802126.9995	7525489.437	50
18.	803844.7134	7525455.872	50
19.	803808.5142	7523609.273	50
20.	803772.2893	7521762.672	50
21.	803736.0387	7519916.07	50
22.	803719.3206	7519065.05	50
23.	804521.8904	7519274.37	50
24.	807141.5399	7519163.66	50

	Easting	Northing	Zone
25.	807119.2396	7518132.591	50
26.	806518.4797	7518126.229	50
27.	804333.0099	7518466.13	50
28.	803903.0296	7517033.011	50
29.	803675.1553	7516817.699	50
30.	803666.407	7516372.68	50
31.	802730.0685	7516391.025	50
32.	802557.6318	7516394.406	50
33.	798654.2783	7516470.33	50
34.	798651.3957	7516320.594	50
35.	797831.521	7516336.377	50
36.	795310.4455	7516377.464	50
37.	795303.0981	7514584.262	50
38.	792103.8748	7514706.454	50
39.	792080.2652	7513846.948	50
40.	793476.32	7513843.539	50
41.	795031.439	7513839.741	50
42.	795026.854	7513600.003	50
43.	794974.245	7510849.708	50
44.	796690.24	7510816.753	50
45.	796654.661	7508970.211	50
46.	798370.468	7508937.042	50
47.	800086.293	7508903.683	50
48.	800050.276	7507057.1	50
49.	792382.219	7507212.99	50
50.	789876.1011	7508808.673	50
51.	789876.0761	7508808.634	50

	Easting	Northing	Zone
52.	789697.9733	7508532.575	50
53.	789642.2049	7508446.133	50
54.	789492.7853	7508532.575	50
55.	788309.9969	7509216.832	50
56.	787664.8114	7510089.235	50
57.	787382.8468	7510470.501	50
58.	785777.7005	7512640.938	50
59.	785588.6608	7512873.602	50
60.	784712.7546	7512889.827	50
61.	782996.6752	7512921.423	50
62.	781280.6128	7512952.827	50
63.	779564.5692	7512984.04	50
64.	777848.5407	7513015.061	50
65.	777881.8031	7514861.393	50
66.	776165.5855	7514892.205	50
67.	774449.386	7514922.826	50
68.	774482.2133	7516769.117	50
69.	772765.8232	7516799.529	50
70.	771049.4495	7516829.749	50
71.	769333.092	7516859.778	50
72.	769365.2793	7518706.015	50
73.	767648.7343	7518735.835	50
74.	765932.2037	7518765.464	50
75.	764215.6894	7518794.902	50
76.	762499.1926	7518824.149	50
77.	760782.71	7518853.206	50
78.	759066.2432	7518882.07	50

	Easting	Northing	Zone
79.	759097.1751	7520728.201	50
80.	759125.5834	7522424.855	50
81.	761316.6532	7521965.13	50
82.	761306.3879	7524522.295	50
83.	761263.2764	7526616.432	50
84.	762197.9213	7526216.035	50
85.	764341.7484	7526179.61	50
86.	766059.0835	7526150.241	50
87.	767776.435	7526120.681	50
88.	769493.801	7526090.931	50
89.	771211.1851	7526060.99	50
90.	772928.5855	7526030.858	50
91.	772961.0688	7527877.116	50
92.	772993.5291	7529723.368	50
93.	774711.3557	7529693.082	50
94.	776429.1974	7529662.605	50
95.	778147.0574	7529631.937	50
96.	779864.9343	7529601.079	50
97.	781582.8266	7529570.03	50
98.	781616.2871	7531416.372	50
99.	783334.4027	7531385.151	50

Schedule 3: Reporting & notification forms

Licence:

Licence holder:

Form: N1

Date of breach:

Notification of detection of the breach of a limit.

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A

Licence number	
Name of operator	
Location of premises	
Time and date of the detection	

Notification requirements for the breach of a limit	
Emission point reference/source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Part 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 licence holder	
Date	