Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W3031/2025/1
Works approval holder	Meneghello Galvanizing Pty Ltd
ACN	008 897 729
Registered business address	Matrix Partners' Suite 8 420 Bagot Road SUBIACO WA 6008
DWER file number	APP-0030037
Duration	12/05/2026 to 11/05/2029
Date of issue	12/05/2026
Premises details	Meneghello Galvanizing Pty Ltd 8 Richardson Street KWINANA Legal description Part of Lot 3 on Deposited Plan 414483 Certificate of Title Volume 2950 Folio 344 As defined by the premises maps attached to the issued works approval

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed design capacity**
Category 48A: Metal finishing: premises on which iron or steel is galvanized.	120,000 tonnes per annum

This works approval is granted to the works approval holder, subject to the attached conditions, on 12 May 2026, by:

Melissa Chamberlain

Digitally signed by Melissa Chamberlain
Date: 2026.05.12 14:53:28 +08'00'

Manager, Process Industries

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

Works approval history

Date	Reference number	Summary of changes
12/05/2026	W3031/2025/1	Works approval granted.

Interpretation

In this works approval:

(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 works approval:

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

Works approval conditions

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

Construction phase

Infrastructure and equipment

1. The works approval holder must:

(a) construct the infrastructure and equipment;

(b) in accordance with the corresponding design and construction requirements; and

(c) at the corresponding infrastructure location;

as set out in Table 1.

Table 1: Design and construction requirements

	Infrastructure	Design and construction requirements	Infrastructure location
1.	Galvanising Shed	a) All equipment specified in rows 2-11 is located within the galvanising shed b) Shed installed with doors at all entry and exits, except the northern side of the building (excluding pre-treatment area) which will remain fully open for operational purposes	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
2.	Pretreatment room enclosure consisting of; • Caustic Degreasing Tank (32.10m x 1.80m x 3.20m) • Caustic Rinse Tank (32.10m x 1.80m x 3.20m) • 4x HCL Pickling Tank (32.10m x 1.80m x 3.20m) • HCL Rinse Tank (32.78m x 2.25m x 3.20m) • Pre-Flux Tank (15.80m x 2.25m x 3.20m) • HCL Stripper Tank (15.80m x 2.25m x 3.20m) • Scrubber system	a) Pre-treatment room is able to be fully enclosed b) All tanks located within a large concrete pit that is fully bunded and sealed c) Bunds supplied with manual pumps to pump any spilt acids/caustic back into the tanks or acid storage tanks. d) The bunded area will be constructed from non-porous materials and be able to contain at least 110% of the largest stored container's volume e) Pre-treatment tanks must be located within an enclosed pretreatment room serviced by a wet fume scrubber f) The pretreatment room must be designed to achieve negative pressure to prevent fugitive emissions. g) Vapours from caustic, acid and flux tanks must be designed to be effectively captured via a wet fume	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2

	Infrastructure	Design and construction requirements	Infrastructure location
		scrubber system. a) Scrubber system with a manufacturers specification of an estimated sound power level of 84dB(A) at 1m from the chimney outlet h) Scrubber chimney height to be no less than 12.5 meters above ground level	
3.	Zinc Kettle (15.30m x 2.25m x 3.20m)	a) The galvanising kettle must be fitted with a fixed fume enclosure that is able to be fully enclosed and is connected to the baghouse. b) The galvanising fume enclosure must be connected via ducting to a dedicated baghouse extraction system.	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
4.	Baghouse	b) Baghouse installed with induced draft (ID) fan to ensure air extraction is operational c) Baghouse installed with a broken bag detector d) Baghouse stack must include the installation of a stack monitoring port that is compliant with AS4323.1 e) The baghouse must be designed to achieve a clean gas dust concentration of less than 10mg/Nm³. f) Baghouse with a manufacturers specification of an estimated power level of 81dB(A) at 1m from the chimney outlet g) Baghouse stack height to be no less than 18.3 meters above ground	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
5.	Enclosed Drying Oven – Gas with Heat Recovery System / Heat Exchanger	None specified	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
6.	5 x 60m³ Acid Storage Tanks	a) Tank must be installed within a concrete containment bund constructed in accordance with relevant requirements of AS 1940. b) Storage of chemicals and liquids will be within bunded impervious areas	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2

	Infrastructure	Design and construction requirements	Infrastructure location
		capable of containing spillages c) The bunded area will be constructed from non-porous materials and be able to contain at least 110% of the largest stored container's volume d) Chemicals store designed in accordance with the following AS 1940: The Storage and Handling of Flammable and Combustible Liquids. e) Chemicals store designed in accordance with the following AS 1940: The Storage and Handling of Flammable and Combustible Liquids AS 3780: The Storage and Handling of Corrosive Substances.	
7.	Galvanising Furnace – 6 Burners	None specified	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
8.	Quench Tank (15.80m x 1.80m x 3.35m)	None specified	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
9.	Passivation Tank (15.80m x 1.80m x 3.35m)	None specified	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
10	Zinc Ash Reclaimer	a) Zinc Ash reclaimer must be connected to the baghouse ensuring all zinc smoke is directed to baghouse and captured	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
11	IBCs	a) Must be located within a concrete bund with capacity to contain not less than 110% of the volume of one storage tank.	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2

Compliance reporting

2. The works approval holder must within 30 calendar days of an item of infrastructure

or equipment required by condition 1 being constructed and installed:

(a) undertake an audit of their compliance with the requirements of condition 1; and

(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

3. The Environmental Compliance Report required by condition 2, must include as a minimum the following:

(a) certification by a relevant plant operator and/or fitter that the plant or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;

(b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and

(c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Environmental commissioning phase

4. The works approval holder may only commence environmental commissioning of the infrastructure listed in condition 1 once the Environmental Compliance Report has been submitted for that infrastructure in accordance with condition 2 of this works approval.

5. The works approval holder must ensure that environmental commissioning lasts not more than ten calendar days.

6. The works approval holder must notify the CEO:

(a) at least 7 days prior to, the commencement date of environmental commissioning; and

(b) within 7 days after, the completion date of environmental commissioning.

7. During environmental commissioning, the works approval holder must ensure that the emission(s) specified in Table 2, are discharged only from the corresponding discharge point(s) and only at the corresponding discharge point location(s).

Table 2: Authorised emission points to air during environmental commissioning

Emission	Emission point	Minimum stack height (m AGL)	Emission point location
Fumes from acid, caustic, flux, and quench tanks	Scrubber Chimney	12.5	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
Fumes from the zinc kettle during hot dip process	Baghouse	18.3	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2

8. Any environmental commissioning activities undertaken for an item of infrastructure specified in Table 3 may only be carried out in accordance with the corresponding commissioning requirements.

Table 3: Environmental commissioning requirements

Infrastructure and equipment	Commissioning requirements	Infrastructure location
Galvanising Shed	a) All doors and windows must be closed (except the northern side of the building) during the hot dip process	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
Pretreatment Room	b) Emissions generated from degreasing, stripping and pickling are captured by wet scrubber system c) Acidic air must be led to the scrubber where Hydrogen Chloride is absorbed into the scrubbing liquid and recycled into the pickling baths d) The extraction area is maintained at negative pressure to ensure maximum volume of air is extracted e) Pre-treatment room is able to be fully enclosed f) Fume extraction and air filtration systems must be efficiently operational prior to any dipping occurring g) Tanks must be located within existing containment bund designed to contain a minimum of 110% of the largest tank or 25% of the total tank volume whichever is greater.	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
Zinc Kettle	a) Items that are dipped in the molten zinc kettle are dried after being removed from the flux bath and prior to being dipped in the zinc kettle b) Emissions generated from dipping into the zinc kettle are captured by a fume hood and directed to a baghouse for treatment prior to discharge c) The extraction area is maintained at negative pressure to ensure maximum volume of air is extracted d) Production to be ceased if ventilation system is dysfunctional	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
Baghouse	a) Baghouse maintained with ID fan to ensure air extraction is operational b) Baghouse maintained with a broken bag detector c) Fume extraction and air filtration systems with be efficiently operational d) Must be in operation during the hot dip process	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2
Quench and Passivation	a) Tanks must be located within existing containment bund designed to contain a minimum of 110% of the largest tank or 25% of the total tank volume whichever is greater.	As depicted in the 'Infrastructure map' in Schedule 1 Figure 2

9. The works approval holder must immediately recover, or remove and dispose of, spills of environmentally hazardous materials including fuel, oil, or other hydrocarbons, whether inside or outside an engineered containment system.

10. The works approval holder must ensure that all material used for the recovery, removal, and/or disposal of environmentally hazardous materials is stored in an impermeable container prior to disposal at an appropriately authorised facility.

11. The works approval holder must ensure that no visible fumes generated by the

activities of the premises crosses the boundary of the premises

12. The works approval holder must monitor emissions during environmental commissioning in accordance with the requirements specified in Table 4 and record the results of all such monitoring.

Table 4: Emissions monitoring during environmental commissioning

Emission point	Monitoring location	Parameter	Frequency	Averaging Period	Unit	Method
Baghouse	Baghouse as depicted in the 'Infrastructure map' in Schedule 1 Figure 2	Total Matter Particulates	Once, during environmental commissioning	Hourly	mg/m^3 and g/s	USEPA Method 5[2]
		Zinc				USEPA Method 29[2]
Scrubber	Scrubber as depicted in the 'Infrastructure map' in Schedule 1 Figure 2	Total Matter Particulates				USEPA Method 5[2]
		Chlorine				USEPA Method 26[2]
		Hydrogen Chloride				USEPA Method 26[2]
		Ammonia				CTM-027

Note 1: Units are referenced to STP dry and 15% O_2.
Note 2: Where any USEPA method refers to USEPA Method 1 for the sampling plane, this must be read as referral to AS 4323.1:2021

13. The works approval holder must ensure all sampling and analysis undertaken pursuant to condition 12 is undertaken by a holder of NATA accreditation for the relevant methods of sampling and analysis

Environmental commissioning report

14. The works approval holder must submit to the CEO an Environmental Commissioning Report within 30 calendar days of the completion date of environmental commissioning for the items of infrastructure specified in Table 1.

15. The works approval holder must ensure the Environmental Commissioning Report required by condition 14 of this works approval includes the following:

(a) a summary of the environmental commissioning activities undertaken, including timeframes and the air emissions during commissioning ;

(b) a summary of the environmental performance of each item of infrastructure as constructed or installed;

(c) a review of the works approval holder's performance and compliance against the conditions of this works approval; and

(d) where they have not been met, measures proposed to meet the manufacturer's design specifications and the conditions of this works approval, together with timeframes for implementing the proposed measures.

Records and reporting (general)

16. The works approval holder must record the following information in relation to complaints received by the works approval 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 works approval holder to investigate or respond to any complaint.

17. The works approval holder must maintain accurate and auditable books including the following records, information, reports, and data required by this works approval:

(a) the works conducted in accordance with condition 1;

(b) any maintenance of infrastructure that is performed in the course of complying with condition 8;

(c) monitoring programmes undertaken in accordance with condition 9; and

(d) complaints received under condition 16.

18. The books specified under condition 17 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 works approval holder for the duration of the works approval; and

(d) be available to be produced to an inspector or the CEO as required.

Definitions

In this works approval, the terms in Table 5 have the meanings defined.

Table 5: Definitions

Term	Definition
ACN	Australian Company Number
AS 1940:2017	means the most recent version and relevant parts of the Australian Standard AS 1940:2023 *The storage and handling of flammable and combustible liquids*
AS 3780:2023	means the most recent version and relevant parts of the Australian Standard AS 1940:2017 *The storage and handling of Corrosive Substances*
AS 4323.1:1995	means the most recent version and relevant parts of the Australian Standard AS 4323.1:1995 Stationary Source Emissions Selection of Sampling Positions
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
CTM 027	Which is Conditional Test Method 27 - Procedure for Collection and Analysis of Ammonia in Stationary Sources
Department	means the department established under section 35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Part V Division 3 of the EP Act.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
environmental commissioning	means the sequence of activities to be undertaken to test equipment integrity and operation, or to determine the environmental performance, of equipment and infrastructure to establish or test a steady state operation and confirm design specifications.
Environmental Commissioning Report	means a report on any commissioning activities that have taken place and a demonstration that they have concluded, with focus on emissions and discharges, waste containment, and other

Term	Definition
	environmental factors.
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and/or equipment has been constructed and/or installed in accordance with the works approval.
EP Act	*Environmental Protection Act 1986* (WA).
EP Regulations	*Environmental Protection Regulations 1987* (WA).
m AGL	means metres above ground level
NATA accredited	means the submission of a sample to a laboratory which is NATA accredited for the analysis specified
premises	the premises to which this works approval applies, as specified at the front of this works approval and as shown on the premises map (Figure1) in Schedule 1 to this works approval.
prescribed premises	has the same meaning given to that term under the EP Act.
USEPA	means United States (of America) Environmental Protection Agency
USEPA Method 5	means the promulgated Test Method 5 - Determination of particulate matter emissions from stationary sources
USEPA Method 26	means the promulgated Test Method 26 – Determination of Hydrogen halide and halogen emissions from stationary sources
USEPA Method 29	means the promulgated Test Method 29 – Determination of metals emissions from stationary sources
VOCs	means Volatile organic compounds
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions.
works approval holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval.

END OF CONDITIONS

Schedule 1: Maps

Premises map

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

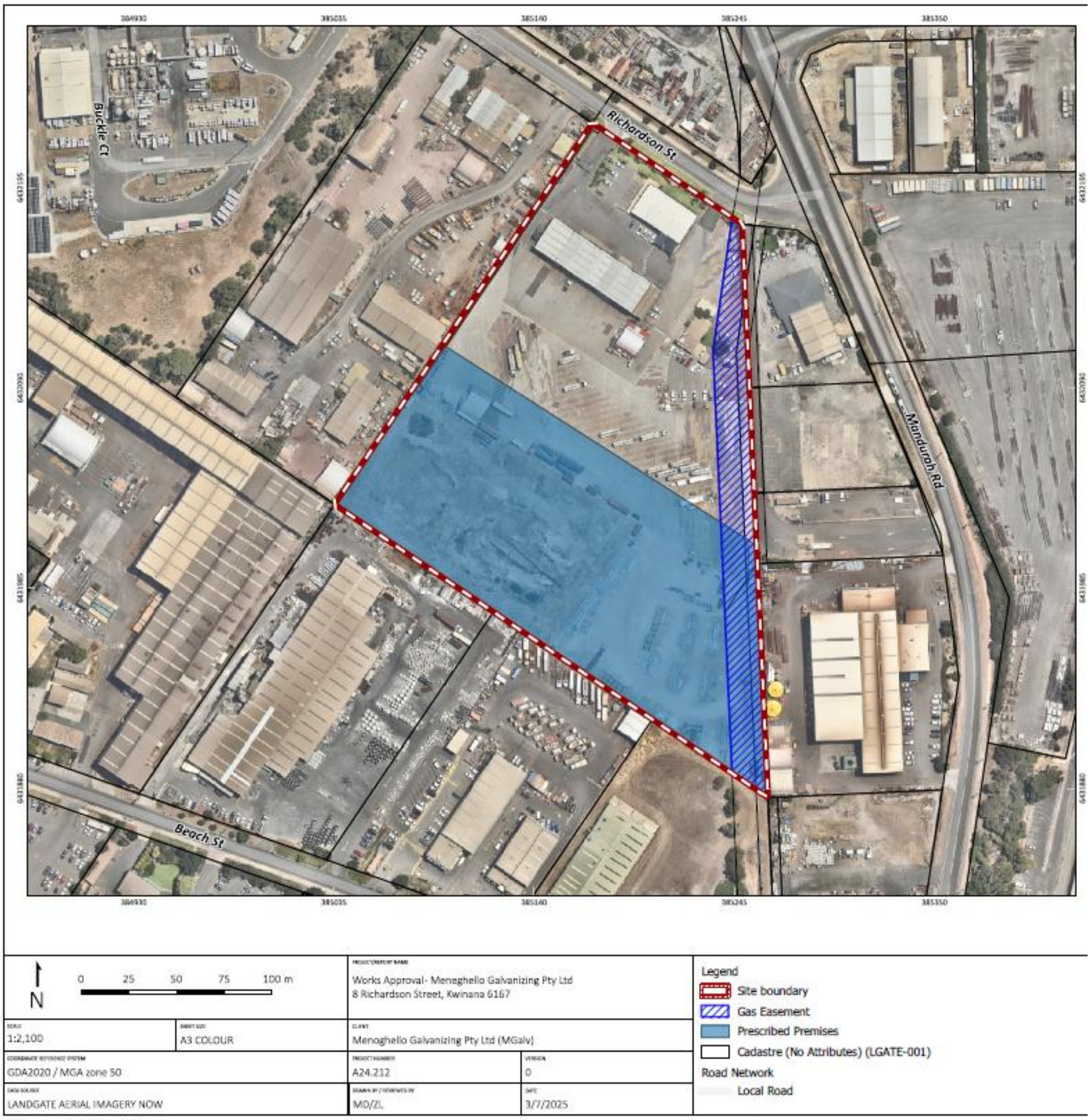

Figure 1: Map of the boundary of the prescribed premises

The infrastructure of the prescribed premises is shown in the map below (Figure 2).

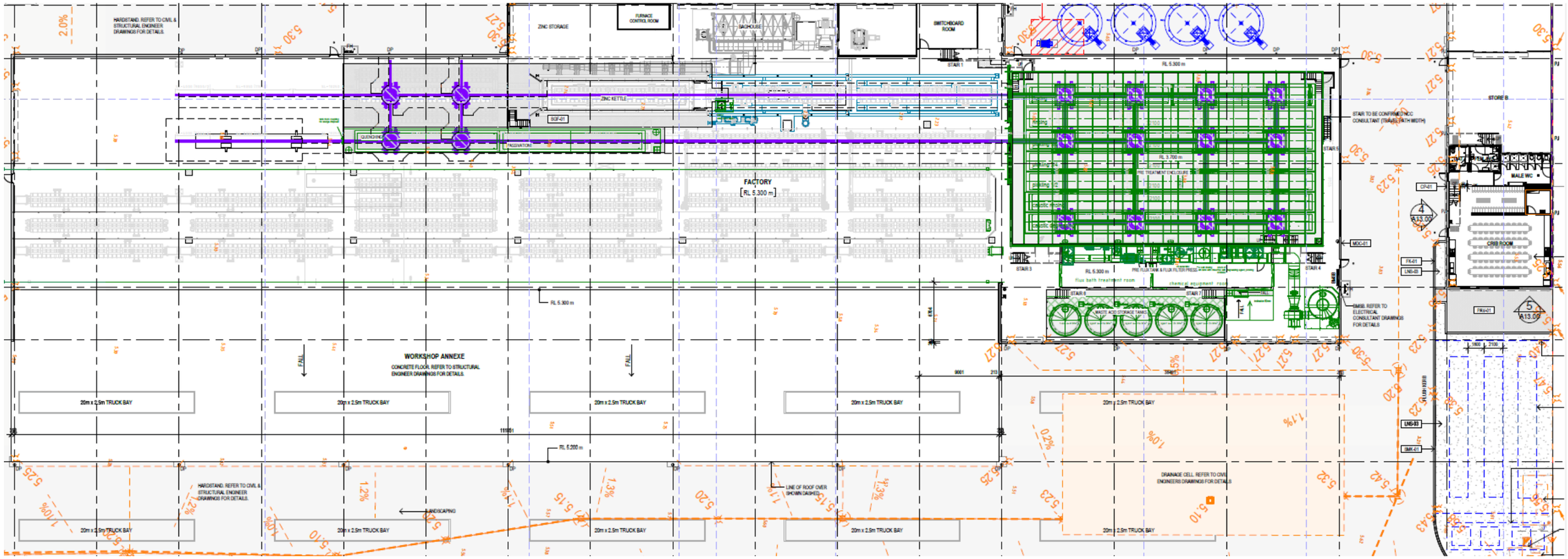

Figure 2: Map of infrastructure layout

The pre treatment infrastructure of the prescribed premises is shown in the map below (Figure 3).

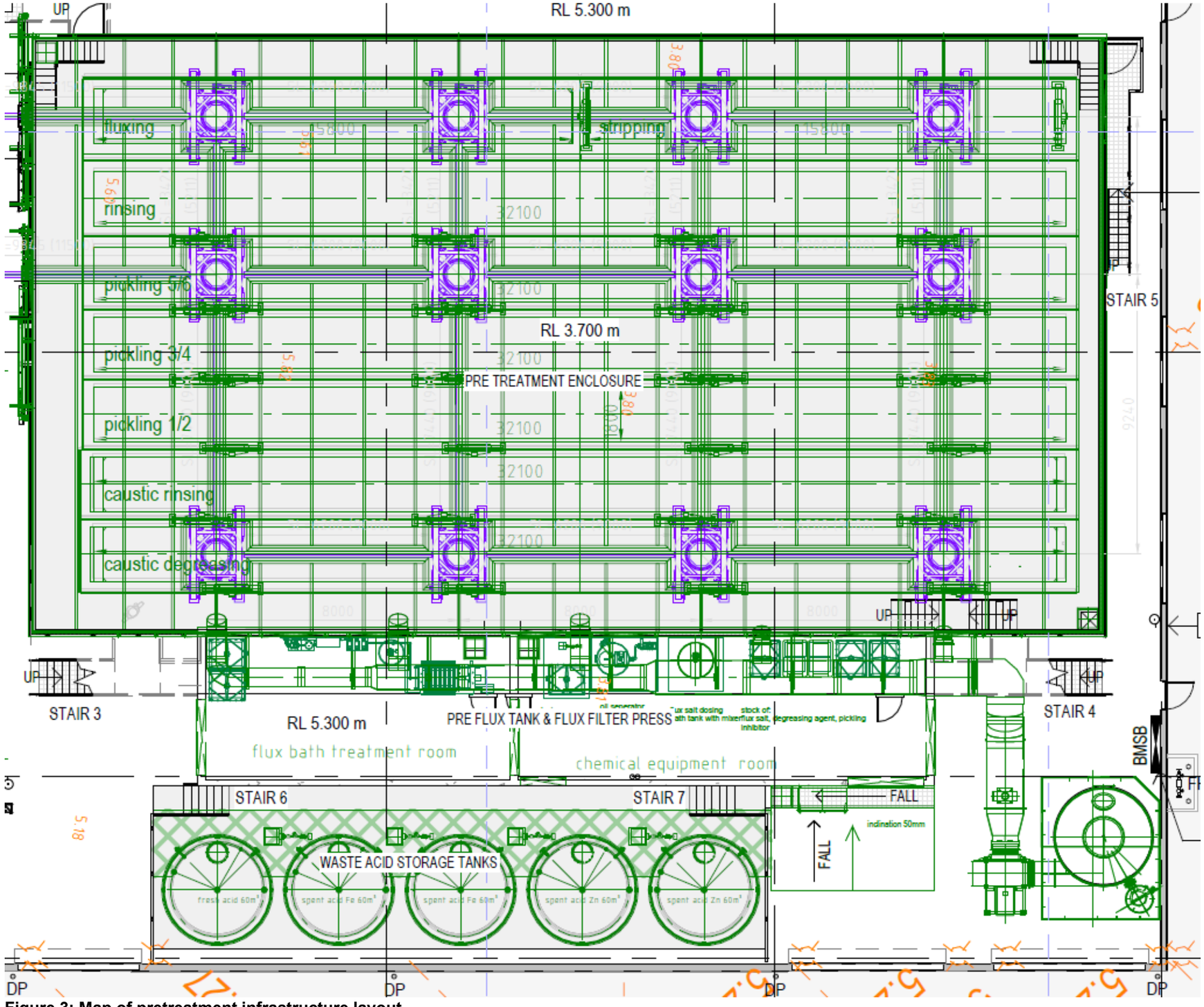

Figure 3: Map of pretreatment infrastructure layout

The galvanising infrastructure of the prescribed premises is shown in the map below (Figure 4).

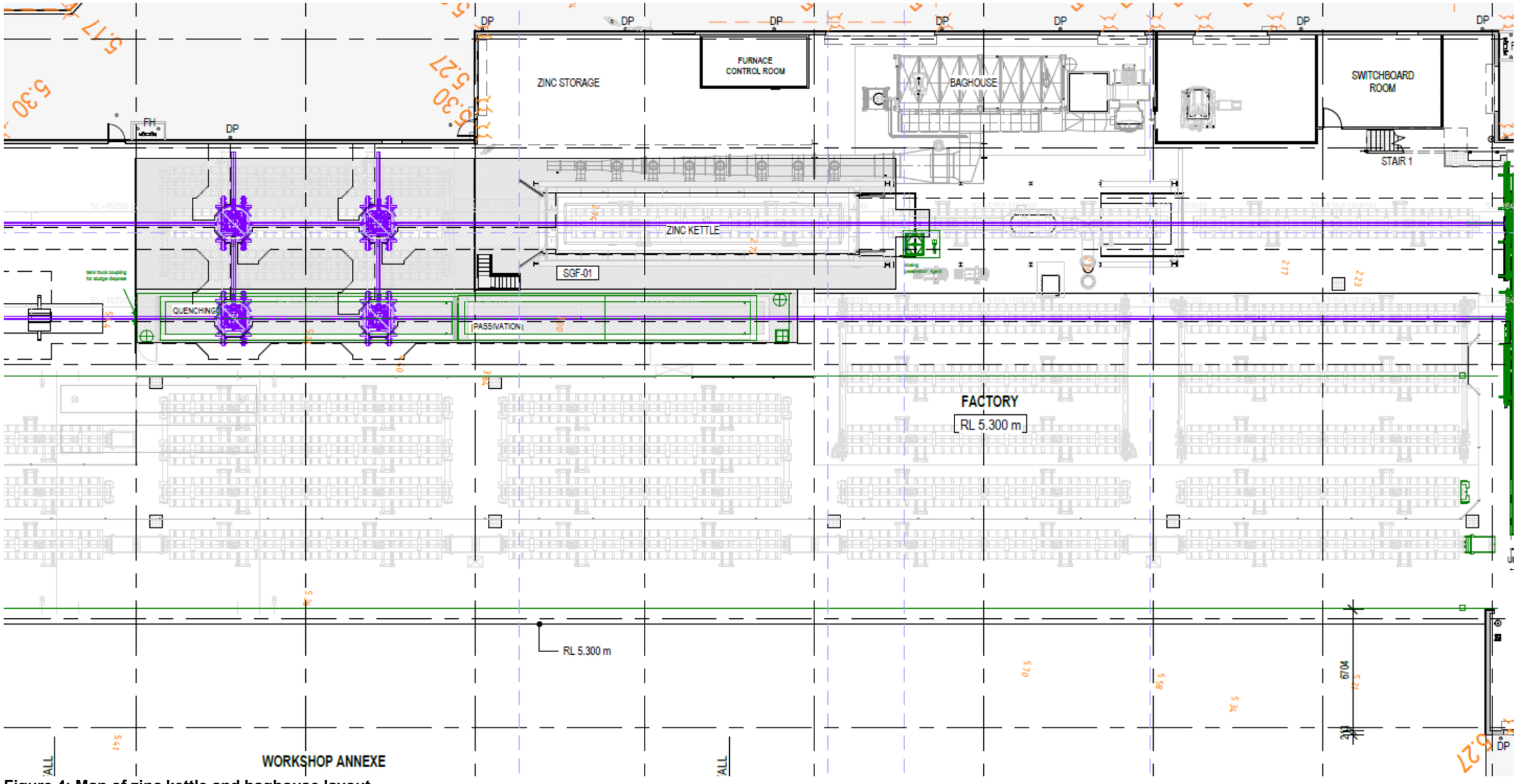

Figure 4: Map of zinc kettle and baghouse layout

The authorised emission points of the prescribed premises is shown in the map below (Figure 5).

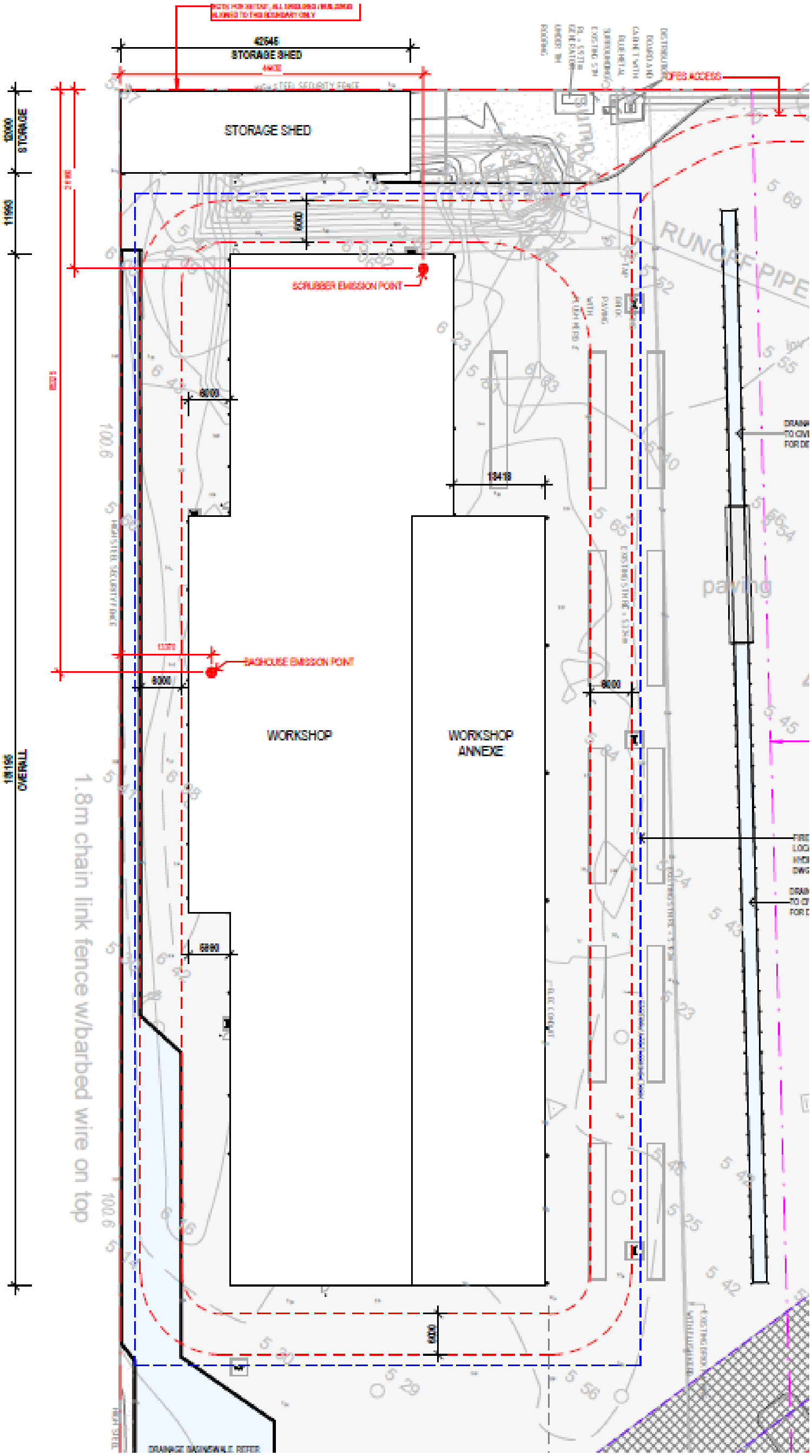

Figure 5: Map of authorised emission points

Schedule 2: Premises boundary

The corners of the premises boundary are the coordinates listed in Table 6.

Table 6: Premises boundary coordinates (GDA2020)

	Easting	Northing	Zone
1.	385034.325	6432027.349	50
2.	385169.562	6432227.418	50
3.	385248.125	6432174.317	50
4.	385261.681	6431873.652	50