



<b>Works Approval Number</b>	W6193/2018/1
<b>Works Approval Holder ACN</b>	Great Northern Concrete Pty Ltd 618 099 693
<b>Registered business address</b>	9 Bishop Street JOLIMONT WA 6014
<b>File Number</b>	DER2018/001597
<b>Duration</b>	15/02/2019 to 14/02/2022
<b>Date of issue</b>	15/02/2019
<b>Prescribed Premises</b>	Category 77: Concrete batching or cement products manufacturing
<b>Premises</b>	Great Northern Concrete 3728 Great Northern Highway MUCHEA WA 6501  Lot 22 on Diagram 58206 Certificate of Title Volume 1725 Folio 907 (As depicted by the Premises Map in Schedule 1)

This Works Approval is granted to the Works Approval Holder, subject to the following conditions, on 15 February 2019, by:

## **MANGER, PROCESS INDUSTRIES**

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

## Explanatory notes

These explanatory notes do not form part of this Works Approval.

### Defined terms

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Definition of terms used in this Works Approval can be found at the start of this Works Approval. Terms which are defined have the first letter of each word capitalised throughout this Works Approval.

### Department of Water and Environmental Regulation

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The Department of Water and Environmental Regulation (DWER) is 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 *Environmental Protection Act 1986* (WA) (EP Act). The Department also monitors and audits compliance with licences and works approvals, takes enforcement action and develops and implements licensing and industry regulation policy.

### Works Approval

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Section 52 of the EP Act provides that an occupier of any premises commits an offence if any work is undertaken on, or in relation to, the premises which causes the premises to become, or to become capable of being, Prescribed Premises, except in accordance with a works approval.

Section 56 of the EP Act provides that an occupier of Prescribed Premises commits an offence if Emissions are caused or increased or permitted to be caused or increased, or Waste, noise, odour or electromagnetic radiation is altered or permitted to be altered from Prescribed Premises, except in accordance with a works approval or licence.

Categories of Prescribed Premises are defined in Schedule 1 of the *Environment Protection Regulations 1987* (WA) (EP Regulations).

This Works Approval does not authorise any activity which may be a breach of the requirements of another statutory authority including, but not limited to, the following:

- conditions imposed by the Minister for Environment under Part IV of the EP Act;
- conditions imposed by DWER for the clearing of native vegetation under Part V, Division 2 of the EP Act;
- any requirements under the *Waste Avoidance and Resource Recovery Act 2007*;
- any requirements under the *Environmental Protection (Controlled Waste) Regulations 2004*; and
- any other requirements specified through State legislation.

It is the responsibility of the Works Approval Holder to ensure that any action or activity referred to in this Works Approval is permitted by, and is carried out in compliance with, statutory requirements.

The Works Approval Holder must comply with the Works Approval. Contravening a Works Approval Condition is an offence under s.55 of the EP Act.

### Responsibilities of Works Approval Holder

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Separate to the requirements of this Works Approval, general obligations of Works Approval Holders are set out in the EP Act and the regulations made under the EP Act. For example, the Works Approval Holder must comply with the following provisions of the EP Act:

- the duties of an occupier under s.61; and

- restrictions on making certain changes to Prescribed Premises unless the changes are in accordance with a Works Approval, Licence, closure notice or environmental protection notice (s.53).

Strict penalties apply for offences under the EP Act.

### Reporting of incidents

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The Works Approval Holder has a duty to report to the Department all Discharges of Waste that have caused or are likely to cause Pollution, Material Environmental Harm or Serious Environmental Harm, in accordance with s.72 of the EP Act.

### Offences and defences

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The EP Act and its regulations set out a number of offences including:

- Offence of emitting an Unreasonable Emission from any Premises under s.49.
- Offence of causing Pollution under s.49.
- Offence of dumping Waste under s.49A.
- Offence of discharging Waste in circumstances likely to cause Pollution under s.50.
- Offence of causing Serious Environmental Harm (s.50A) or Material Environmental Harm (s.50B).
- Offence of causing Emissions which do not comply with prescribed standards (s.51).
- Offences relating to Emissions or Discharges under regulations prescribed under the EP Act, including materials discharged under the *Environmental Protection (Unauthorised Discharges) Regulations 2004 (WA)*.
- Offences relating to noise under the *Environmental Protection (Noise) Regulations 1997 (WA)*.

Section 53 of the EP Act provides that a Works Approval Holder commits an offence if Emissions are caused, or altered, from a Prescribed Premises unless done in accordance with a Works Approval, Licence or the requirements of a closure notice or an environmental protection notice.

Defences to certain offences may be available to a Works Approval Holder and these are set out in the EP Act. Section 74A(b)(iii) provides that it is a defence to an offence for causing Pollution, in respect of an Emission, or for causing Serious Environmental Harm or Material Environmental Harm, or for discharging or abandoning Waste in water to which the public has access, if the Works Approval Holder can prove that an Emission or Discharge occurred in accordance with a Works Approval.

This Works Approval specifies the Emissions and Discharges, and the limits and Conditions which must be satisfied in respect of specified Emissions and Discharges, in order for the defence to offence provision to be available.

### Authorised Emissions and Discharges

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The specified and general Emissions and Discharges from the Works authorised through this Works Approval are authorised to be conducted in accordance with the Conditions of this Works Approval.

### Amendment of Works Approval

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The Works Approval Holder can apply to amend the Conditions of this Works Approval under s.59 of the EP Act. An application form for this purpose is available from DWER.

The CEO may also amend the Conditions of this Works Approval at any time on the initiative

of the CEO without an application being made.

#### Duration of Works Approval

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The Works Approval will remain in force for the duration set out on the first page of this Works Approval or until it is surrendered, suspended or revoked in accordance with s.59A of the EP Act.

#### Suspension or revocation

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The CEO may suspend or revoke this Works Approval in accordance with s.59A of the EP Act.

## Definitions and interpretation

### Definitions

In this Works Approval, the terms in Table 1 have the meanings defined.

**Table 1: Definitions**

Term	Definition
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 <i>Environmental Protection Act 1986</i> Locked Bag 33 Cloisters Square PERTH WA 6850 <a href="mailto:info@dwer.wa.gov.au">info@dwer.wa.gov.au</a>
Commissioning	means the process of operation and testing that verifies the works and all relevant systems, plant, machinery and equipment have been installed and are performing in accordance with the design specification set out in the works approval application.
Condition	means a condition to which this Works Approval is subject under s.62 of the EP Act.
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.
Department Request	means a request for Books or other sources of information to be produced, made by an Inspector or the CEO to the Works Approval Holder in writing and sent to the Works Approval's address for notifications, as described at the front of this Works Approval, in relation to: (a) compliance with the EP Act or this Works Approval; (b) the Books or other sources of information maintained in accordance with this Works Approval; or (c) the Books or other sources of information relating to Emissions from the Premises.
Discharge	has the same meaning given to that term under the EP Act.
DWER	Department of Water and Environmental Regulation
Emission	has the same meaning given to that term under the EP Act.
Environmental Harm	has the same meaning given to that term under the EP Act.
EP Act	means the <i>Environmental Protection Act 1986 (WA)</i> .

EP Regulations	means the <i>Environmental Protection Regulations 1987</i> (WA).
Implementation Agreement or Decision	has the same meaning given to that term under the EP Act.
Inspector	means an inspector appointed by the CEO in accordance with s.88 of the EP Act.
Material Environmental Harm	has the same meaning given to that term under the EP Act.
Pollution	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Works Approval applies, as specified at the front of this Works Approval and as shown on the map in Schedule 1 to this Works Approval.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Primary Activities	Refers to the activities listed in Schedule 3 of this Works Approval.
Reportable Event	means an exceedance above the target limit specified in Column 4 of Table 6, in Schedule 3.
Serious Environmental Harm	has the same meaning given to that term under the EP Act.
Unreasonable Emission	has the same meaning given to that term under the EP Act.
Waste	has the same meaning given to that term under the EP Act.
Works	refers to the Works described in Schedule 2, at the locations shown in Schedule 1 of this Works Approval to be carried out at the Premises, subject to the Conditions.
Works Approval	refers to this document, which evidences the grant of the works approval by the CEO under s.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.

## Interpretation

In this Works Approval:

- (a) the words 'including', 'includes' and 'include' will be read as if followed by the words 'without limitation';
- (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 means the version of the standard, guideline or code of practice in force at the time of granting of this Works Approval and includes any amendments to the standard, guideline or code of practice which may occur from time to time during the course of the Works Approval; and
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act.

## Conditions

### Infrastructure and equipment

1. The Works Approval Holder must install and undertake the Works for the infrastructure and equipment:
  - (a) specified in Column 1;
  - (b) to the requirements specified in Column 2; and
  - (c) at the location specified in Column 3of Table 2 below.
2. The Works Approval Holder must not depart from the requirements specified in Column 2 of Table 2 except:
  - (a) where such departure does not increase risks to public health, public amenity or the environment; and
  - (b) all other Conditions in this Works Approval are still satisfied.
3. Within 14 days of the completion of the Works specified in Column 1 of Table 2, and prior to Commissioning, the Works Approval Holder must provide to the CEO written confirmation (including photographic evidence) confirming each item of infrastructure specified in Column 1 of Table 2 below has been constructed with no material defects and to the requirements specified in Column 2 of Table 2.
4. Where a departure from the requirements specified in Column 2 of Table 2 occurs and is of a type allowed by Condition 2, the Works Approval Holder must provide to the CEO a description of, and explanation for, the departure along with the certification required by Condition 2(b).

**Table 2: Infrastructure and equipment requirements table**

Column 1	Column 2	Column 3
Infrastructure/Equipment	Requirements (design and construction)	Site plan reference (Schedule 1: Premises map)
Mobile concrete batching plant including: <ul style="list-style-type: none"><li>• Batch control room;</li><li>• 2 x 75 tonne horizontal cement storage silos;</li><li>• Cement weigh hoppers and conveyor; and</li><li>• Concrete Loading Bay.</li></ul>	<ul style="list-style-type: none"><li>• Maximum production or design capacity of 130,000 tonnes per year;</li><li>• Must be equipped with appropriate dust controls, such as water suppression sprays and dust curtains;</li><li>• Cement silos fitted with reverse pulse dust extraction filters, independent overfill alarm systems and automatic cut-off valves on cement fill lines; and</li><li>• Concrete loading bay will have a pre-installed high pressure water spray bar system controlled by the batching computer.</li></ul>	To be constructed as depicted in Schedule 1: Premises Map and Schedule 1: Premises Plan



Column 1	Column 2	Column 3
Infrastructure/Equipment	Requirements (design and construction)	Site plan reference (Schedule 1: Premises map)
5 x sand and aggregate material storage bins and stockpile area	<ul style="list-style-type: none"> <li>Sprinkler system to be installed on aggregate material storage bins and stockpile area for dust suppression.</li> </ul>	To be constructed as depicted in Schedule 1: Premises Map and Schedule 1: Premises Plan
Concrete washdown bay including drainage sump/slurry pit	<p>Must be bunded and drain such that:</p> <ul style="list-style-type: none"> <li>Clean surface water run-off is directed away from the washdown bay; and</li> <li>Wastewater generated within the washdown bay drains to a sump for re-use in batching operations.</li> </ul>	To be constructed as depicted in Schedule 1: Premises Plan
Premises stormwater system	Must be designed such that uncontaminated stormwater is directed away from concrete batching infrastructure and potentially contaminated stormwater drains to the Premises drainage sump/slurry pit.	
Admixture storage area	Must be bunded such that clean water is directed away from the admixture storage area and potentially contaminated stormwater is retained for appropriate storage and disposal.	
Noise mitigation infrastructure	3.5m high "L" shaped acoustic barrier	To the south of the slumping stand as depicted in Schedule 1: Noise Mitigation Infrastructure Map
	3m high acoustic barrier aligned with the cement silo structure	To the south of the cement delivery area as depicted in Schedule 1: Noise Mitigation Infrastructure Map
	Two-sided partial enclosure constructed of Flexshield sonic curtains 6 kg/m <sup>3</sup> or absorptive wall panels of similar acoustic performance	To enclose the cement delivery truck compressor as depicted in Schedule 1: Noise Mitigation Infrastructure Map
	2.4m high solid site boundary fence	Along the southern boundary of the Premises as depicted in Schedule 1: Noise Mitigation Infrastructure Map

## Commissioning and Environmental Noise Assessment

5. Upon completion of the Works specified in Column 1 of Table 2, the Works Approval Holder shall Commission the Works specified in Column 1 of Table 2 for a period not exceeding 3 months.
6. During the Commissioning period authorised in Condition 5, the Works Approval Holder must retain the services of a person qualified and experienced in the area of environmental noise assessment and who by their qualifications and experience is eligible to hold membership of the Australian Acoustical Society or the Australian Association of Acoustical Consultants to:
  - (a) investigate the nature and extent of noise emissions from the Primary Activities on the Premises;
  - (b) assess in accordance with the methodology required in the *Environmental Protection (Noise) Regulations 1997*, the compliance of the noise emissions from the Primary Activities, against the relevant assigned levels specified in those Regulations; and
  - (c) compile and submit to the Works Approval Holder, within 2 months of the commencement of Commissioning, a report in accordance with condition 7.
7. The report prepared pursuant to condition 6(c) is to include:
  - (a) a description of the methods used for monitoring and/or modelling of noise emissions from the Premises;
  - (b) details and the results of the investigation undertaken pursuant to condition 6(a);
  - (c) details and results of the assessment of the noise emissions from the Premises, against the relevant assigned levels in the *Environmental Protection (Noise) Regulations 1997* undertaken pursuant to condition 6(b); and
  - (d) an assessment of noise levels against the most recent previous noise assessment.
8. The Works Approval Holder must submit to the CEO the report prepared pursuant to condition 6(c) within 14 days of receiving it.
9. Where an assessment pursuant to condition 6(b) indicates that noise emissions do not comply with the relevant assigned levels in the *Environmental Protection (Noise) Regulations 1997*, the Works Approval Holder must:
  - (a) within 60 days of receiving an assessment report pursuant to condition 6(c) prepare a plan to ensure the undertaking of the Primary Activities will no longer lead to any contravention of the *Environmental Protection (Noise) Regulations 1997*; and
  - (b) provide to the CEO a copy of the plan prepared pursuant to condition 9(a) within 30 days of its preparation.

## Emissions

10. The Works Approval Holder must not cause any Emissions from the Works authorised through this Works Approval except for general Emissions described in Column 1 of Table 3, subject to the exclusions, limitations or requirements specified in Column 2, of Table 3.

**Table 3: Authorised Emissions table**

Column 1	Column 2
Emission type	Exclusions/Limitations/Requirements
<b>General Emissions (excluding Specified Emissions)</b>	
Emissions which arise from undertaking the Works set out in Schedule 2.	<p>Emissions excluded from General Emissions are:</p> <ul style="list-style-type: none"> <li>• Unreasonable Emissions; or</li> <li>• Emissions that result in, or are likely to result in, Pollution, Material Environmental Harm or Serious Environmental Harm; or</li> <li>• Discharges of Waste in circumstances likely to cause Pollution; or</li> <li>• Emissions that result, or are likely to result in, the Discharge or abandonment of Waste in water to which the public has access; or</li> <li>• Emissions or Discharges which do not comply with an Approved Policy; or</li> <li>• Emissions or Discharges which do not comply with prescribed standard; or</li> <li>• Emissions or Discharges which do not comply with the conditions in an Implementation Agreement or Decision; or</li> <li>• Emissions or Discharges the subject of offences under regulations prescribed under the EP Act, including materials discharged under the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</li> </ul>

## Record-keeping

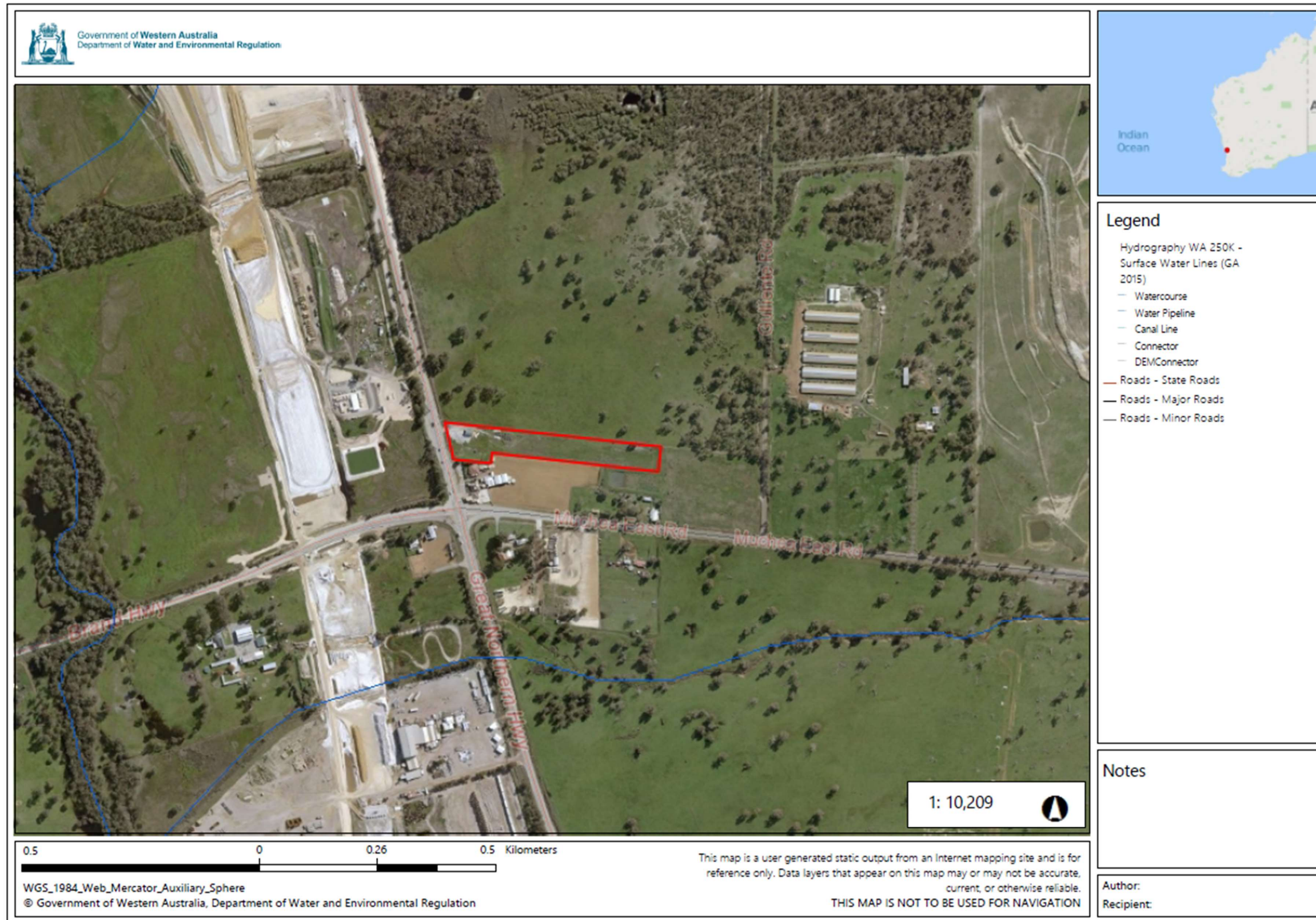
11. The Works Approval Holder must maintain accurate Books including information, reports and data in relation to the Works and the Books must:
  - (a) be legible;
  - (b) if amended, be amended in such a ways that the original and subsequent amendments remain legible or are capable of retrieval;
  - (c) be retained for at least 3 years from the date the Books were made;
  - (d) be available to be produced to an Inspector or the CEO.
12. The Works Approval Holder must comply with a Department Request within 14 days from the date of the Department Request or such other period as agreed to by the Inspector or the CEO.



## Schedule 1: Maps

### Premises map

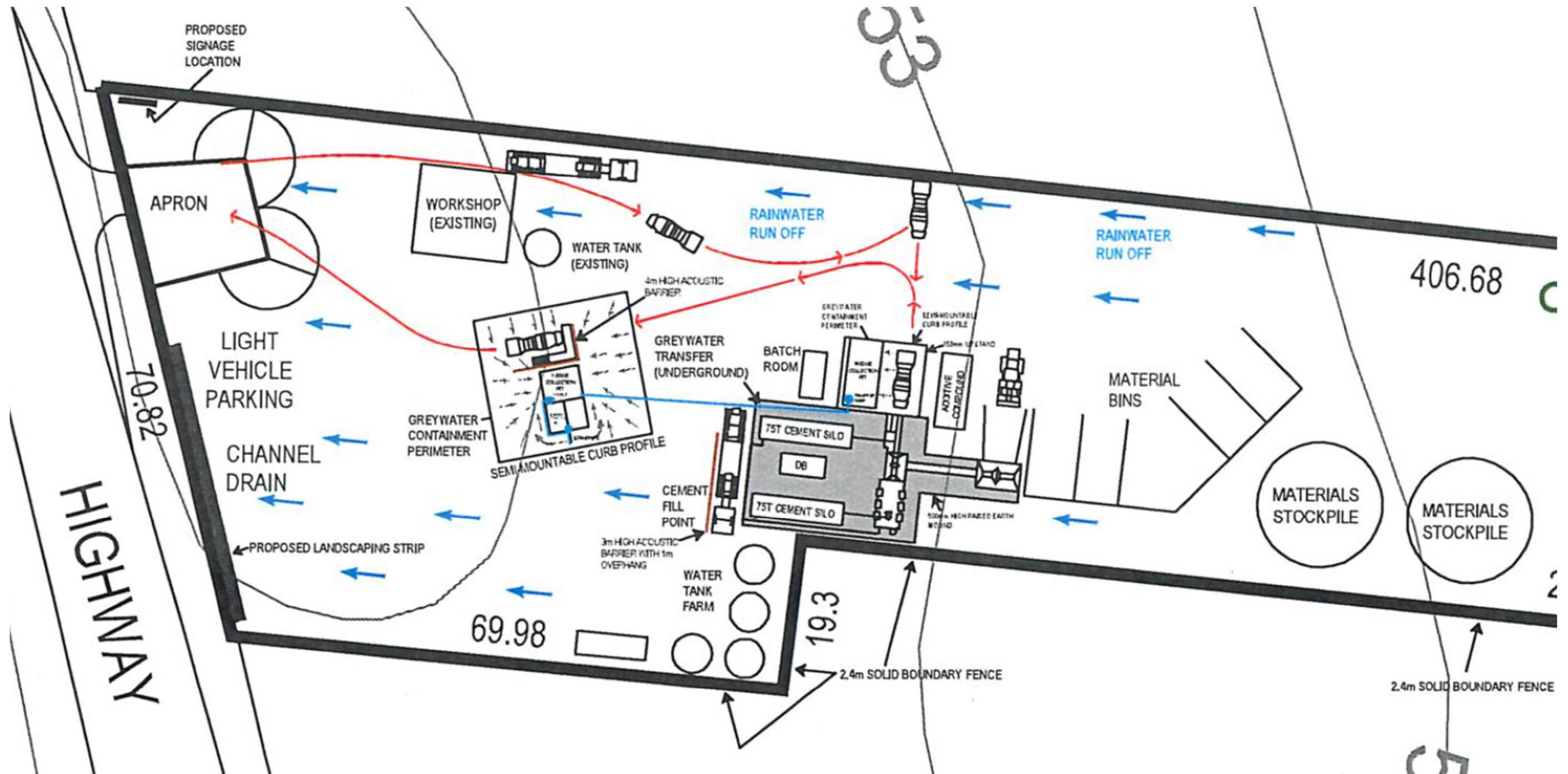
The Premises is shown in the map below. The yellow line depicts the Premises boundary.





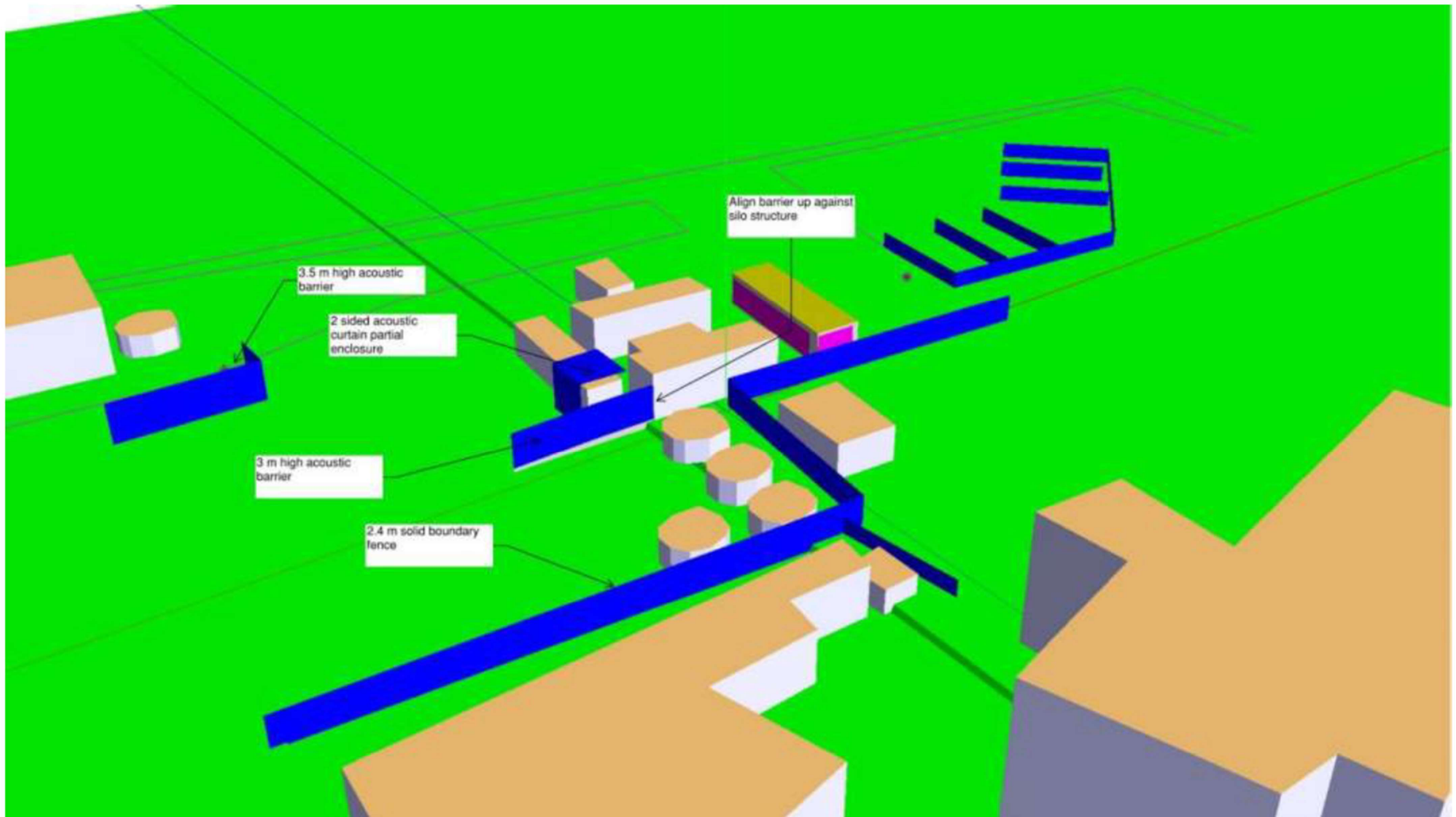
## Premises Plan

The Premises Plan / batch plant arrangement is shown in the diagram below.



## Noise Mitigation Infrastructure Map

The noise mitigation infrastructure (barriers and enclosure) is shown in the diagram below.



## Schedule 2: Works

At the time of assessment, Emissions and Discharges from the Works listed in Table 4 were considered in the determination of the risk and related Conditions for the Works Approval.

**Table 4: Authorised Works**

Works	Specifications/Drawings
<p>Installation of mobile concrete batch plant with a total production / design capacity of 130,000 tonnes per year, including</p> <ul style="list-style-type: none"><li>• Batch control room;</li><li>• 2 x 75 tonne horizontal cement storage silos;</li><li>• Cement weigh hoppers and conveyor;</li><li>• 5 x sand and aggregate material storage bins and stockpile area;</li><li>• Concrete washdown bay including drainage sump/slurry pit;</li><li>• Premises stormwater system;</li><li>• Admixture storage area; and</li><li>• Noise mitigation acoustic barriers and enclosure</li></ul>	<p>To be installed and operated as per locations indicated in Schedule 1: Premises Layout Map, Premises Plan and Noise Mitigation Infrastructure Map</p>

### Schedule 3: Primary Activities

At the time of assessment, Emissions and Discharges from the following Primary Activities were considered in the determination of the risk and related Conditions for the Premises. The Primary Activities are listed in Table 5:

**Table 5: Primary Activities**

Primary Activities	Premises production or design capacity
Category 77 - Concrete batching or cement products manufacturing: premises on which cement products or concrete are manufactured for use at places or premises other than those premises.	130,000 tonnes per year