



|                                    |                                                                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Works approval number</b>       | W6213/2019/1                                                                                                                                   |
| <b>Works approval holder</b>       | A. Richards Pty Ltd                                                                                                                            |
| <b>ACN</b>                         | 008 734 852                                                                                                                                    |
| <b>Registered business address</b> | Lot 186 Acourt Road<br>JANDAKOT WA 6164                                                                                                        |
| <b>DWER file number</b>            | DER2018/001569                                                                                                                                 |
| <b>Duration</b>                    | 03/07/2019 to 02/07/2022                                                                                                                       |
| <b>Date of Amendment</b>           | 26/06/2020                                                                                                                                     |
| <b>Premises details</b>            | Richgro Bannister Composting Facility<br><br>Lot 68 on Deposited Plan 36563<br>Certificate of Title Volume 2798 Folio 962<br>BANNISTER WA 6390 |

| <b>Prescribed premises category description<br/>(Schedule 1, <i>Environmental Protection Regulations 1987</i>)</b> | <b>Assessed production or<br/>design capacity</b> |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 61 – <i>Liquid waste facility</i>                                                                                  | 125,000 tonnes per annual<br>period               |
| 61A – <i>Solid waste facility</i>                                                                                  | 285,000 tonnes per annual<br>period               |
| 67A - <i>Compost manufacturing and soil blending</i>                                                               | 200, 000 tonnes per annual<br>period              |

This works approval is granted to the works approval holder, subject to the attached conditions, on 26 June 2020, by:

**Stephen Checker**

**MANAGER WASTE INDUSTRIES  
REGULATORY SERVICES**

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

## Works approval history

| Date       | Reference number | Summary of changes                    |
|------------|------------------|---------------------------------------|
| 03/07/2019 | W6213/2019/1     | <i>Works approval granted</i>         |
| 26/06/2020 | W6213/2019/1     | <i>Revised works approval granted</i> |

## 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 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;
- (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

## Construction phase

### Infrastructure and equipment

1. The works approval holder must install and undertake the works for the infrastructure:
  - (a) specified in Column 1;
  - (b) to the requirements specified in Column 2; and
  - (c) at the location specified in Column 3 of Table 1 below.
2. The works approval holder must not depart from the requirements specified in Column 2 of Table 1 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. Subject to Condition 2, within 30 days of the completion of the works specified in Column 1 of Table 1, the works approval holder must provide to the CEO a report with photographs confirming each item of infrastructure or component of infrastructure specified in Column 1 of Table 1 below has been constructed with no material defects and to the requirements specified in Column 2.
4. The report required by condition 3 shall also include:
  - (a) an engineering certification to verify the construction and permeability of the hardstand composting area (including drains) and the leachate sump; and
  - (b) a liner integrity report from a qualified engineering or geotechnical professional confirming the installation and performance of the Leachate Pond liner in accordance with the requirements specified in Column 2 of Table 1; and
  - (c) GPS coordinates of the required infrastructure.
5. Where a departure from the requirements specified in Column 2 of Table 1 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 1: Infrastructure requirements table**

| Infrastructure/<br>Equipment | Requirements (design and<br>construction)                                                                                                                                                                                                                                                                                                                    | Site plan reference                                               |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Hardstand<br>Composting Area | <ul style="list-style-type: none"><li>Consisting of a minimum 250 mm thick granular base course layer with an asphalt seal to achieve a permeability of less than <math>1 \times 10^{-9}</math> m/s</li><li>Graded to a drainage system capable of collecting all stormwater and run-off from the hardstand and directing it to the Leachate Pond.</li></ul> | Sealed Composting Hardstand as depicted in Figure 1 in Schedule 1 |

| Infrastructure/<br>Equipment                           | Requirements (design and<br>construction)                                                                                                                                                                                                                                                                                                                                                                                                                          | Site plan reference                                                           |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Leachate Pond                                          | <ul style="list-style-type: none"> <li>Consisting of compacted subgrade and 2 mm HDPE geomembrane.</li> <li>Liner, joins and connecting pipework to be impervious and free from punctures, tears, leaks and defects.</li> <li>Capable of containing a minimum of 22,080 kL of liquid while maintaining a 300mm freeboard (total capacity of a minimum of 23, 400 kL).</li> <li>Located in the area depicted as Leachate Pond in Figure 1 in Schedule 1.</li> </ul> | Leachate Pond as depicted in Figure 1 in Schedule 1 and Figure 4, Schedule 2. |
| Leachate Sump                                          | <ul style="list-style-type: none"> <li>Constructed between the hardstand and the leachate pond, and along the western boundary of the hardstand.</li> <li>Constructed of reinforced concrete to achieve a permeability of less than <math>1 \times 10^{-9}</math> m/s.</li> </ul>                                                                                                                                                                                  | N/A                                                                           |
| Stormwater<br>Drainage System<br>and Stormwater<br>Dam | <ul style="list-style-type: none"> <li>Capable of preventing stormwater from entering the hardstand processing area and diverting uncontaminated stormwater to the Stormwater Dam.</li> <li>Stormwater Dam to be located in the area depicted in Figure 1 in Schedule 1.</li> </ul>                                                                                                                                                                                | Stormwater Dam as depicted in Figure 1 in Schedule 1.                         |
| Four groundwater<br>monitoring wells                   | <ul style="list-style-type: none"> <li>Located in the areas marked 1, 2, 3 and 4 in Figure 2 in Schedule 1.</li> <li>Monitoring bores to be constructed in accordance with specifications set out in Schedule 3, Table 9</li> </ul>                                                                                                                                                                                                                                | Figure 2 in Schedule 1.                                                       |

6. The works approval holder must install and undertake the works for the equipment:
  - (a) specified in Column 1;
  - (b) to the requirements specified in Column 2; and
  - (c) at the location specified in Column 3.
 of Table 2 below.
7. 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.
8. Subject to Condition 7, within 30 days of the completion of the works specified in Column 1 of Table 2, the works approval holder must provide to the CEO a report with photographs confirming each item of infrastructure or component 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.

**Table 2: Equipment requirements table**

| Infrastructure/<br>Equipment                                                                                       | Requirements (design and construction)                                                                                                                                                                                                                                                                                                                                                                         | Site plan<br>reference                                                   |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Mechanical<br>evaporator                                                                                           | <ul style="list-style-type: none"> <li>Two Aqua Control Evolution™ Series: 1/2 HP Floating Fountains to be installed within leachate pond.</li> <li>Operated between 07:00 and 17:00 only</li> <li>Operated in a manner which prevents visible overspray of water droplets beyond the leachate pond surface.</li> <li>Maintained and serviced in accordance with the manufacturer's specifications.</li> </ul> | Leachate Pond as depicted in Figure 1 in Schedule                        |
| Operational Equipment for the purpose of processing, grinding, shredding, screening and storing of waste/feedstock | <ul style="list-style-type: none"> <li>Mobilisation of equipment similar in size and power to an 'Edge 622 Trommel' and Edge FTS Mulch Master, wheel loaders and excavators.</li> <li>To be located on the sealed Composting Hardstand area</li> <li>Sprinkler system to be installed to minimise dust emissions from screening or shredding activities</li> </ul>                                             | On the sealed Composting Hardstand as depicted in Figure 1 in Schedule 1 |
| Free standing liquid waste storage tank                                                                            | <ul style="list-style-type: none"> <li>Up to 6 FibreFurn flexi-N Tanks</li> <li>Individual tank capacity of 60,000l</li> </ul>                                                                                                                                                                                                                                                                                 | On the sealed Composting Hardstand as depicted in Figure 1 in Schedule 1 |
| Feedstock bays                                                                                                     | <ul style="list-style-type: none"> <li>Constructed of reinforced concrete to achieve a permeability of less than <math>1 \times 10^{-9}</math> m/s</li> <li>Bunded to prevent overflow</li> </ul>                                                                                                                                                                                                              | On the sealed Composting Hardstand as depicted in Figure 1 in Schedule 1 |

9. The works approval holder must within 60 days of the groundwater monitoring wells being constructed, submit to the CEO, a well construction report which assesses compliance with the requirements of Condition 1 and includes any documentation required to be produced in relation to bore construction as detailed in the *National Environment Protection (Assessment of Site Contamination) Measure 1999* (as amended).

## Time Limited Operations

10. The works approval holder may only commence time limited operations once the report required by Condition 3 has been submitted by the works approval holder.
11. The works approval holder may conduct time limited operations:
- For a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 10 for that item of infrastructure; or

- (b) Until such time as a prescribed premises licence is granted in accordance with Part V of the *Environmental Protection Act 1986*, and only where this occurs prior to the time period specified in sub provision (a).
- 12. The works approval holder must submit to the CEO a report on the time limited operations within 60 calendar days of the completion date of time limited operations.
- 13. The works approval holder must ensure the report required by condition 12 includes the following:
  - (a) a summary of the time limited operations, including timeframes and amount of waste processed;
  - (b) a review of the works approval holder's performance and compliance against the conditions of this works approval; and
  - (c) 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.
- 14. The works approval holder shall ensure an adequate water supply, and a means of distribution, be provided at all times to extinguish a fire at any part of the premises.
- 15. In the event of a fire<sup>1</sup> on the premises, the works approval holder shall advise the CEO of the fire by the end of the following working day after which the fire was discovered.

Note 1: Spot fires which have been extinguished within one hour of being discovered are not required to be reported.

- 16. The works approval holder shall ensure that green waste stockpiles are maintained at:
  - (a) a maximum length of 50 m; and
  - (b) a maximum width of 10 m; and
  - (c) a maximum height of 5 m.
- 17. The works approval holder shall maintain:
  - (a) a minimum 10 m separation between parallel green waste stockpiles; and
  - (b) a minimum 10 m separation between adjoining green waste stockpiles; and
  - (c) a minimum 30 m low-fuel buffer between green waste stockpiles and surrounding vegetation (plantation and native vegetation).
- 18. The works approval holder must manage the compost windrows such that:
  - (a) Windrows are made up of blended materials and turned after the 30th and 44<sup>th</sup> day of windrow construction;
  - (b) The core temperature of the composting windrows is maintained between 55°C and 65 °C for a period of at least two consecutive weeks, with at least two measurements being taken per week, at least three days apart;
  - (c) Moisture level in the composting piles is maintained between 40 to 65 percent;
  - (d) An input nutrient balance (carbon: nitrogen ratio) of 25:1 to 35:1 is to be achieved when forming windrows;
  - (e) Windrows shall not exceed three metres high, six metres wide and 120 metres long; and

- (f) Windrows are separated by at least 0.5 metres of clear ground.

## Dust and odour management

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

## Feedstock controls

21. The works approval holder shall only accept and process feedstock materials at the premises if:
- It is of a type listed in Table 3 **Error! Reference source not found.**; and
  - The quantity accepted is below any quantity limit listed in Table 3 for that feedstock type; and
  - It meets the acceptance specification listed in Table 3 for that feedstock type.

**Table 3: Feedstock table**

| Prescribed premises category | Waste Type                        | Quantity limit (tonnes per annual period) | Acceptance specification                                                                                                                                                              |
|------------------------------|-----------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 61                           | Food & beverage processing wastes | 25,000                                    | <ul style="list-style-type: none"> <li>Tankered to premises by licensed controlled waste carrier</li> </ul>                                                                           |
|                              | Anaerobic waste digestate         | 40,000                                    |                                                                                                                                                                                       |
|                              | Waste from grease traps           | 20,000                                    |                                                                                                                                                                                       |
|                              | Animal effluent and residues      | 40,000                                    |                                                                                                                                                                                       |
| 67A                          | Green waste                       | 100,000                                   | <ul style="list-style-type: none"> <li>Uncontaminated shredded and unshredded green waste from land clearing, timber harvesting, verge collections and lopping contractors</li> </ul> |
|                              | Biosolids                         | 50,000                                    | <ul style="list-style-type: none"> <li>Solid, stabilised biosolids from licensed wastewater treatment plants</li> </ul>                                                               |
|                              | Manures                           | 30,000                                    | <ul style="list-style-type: none"> <li>Solid waste only</li> </ul>                                                                                                                    |

| Prescribed premises category | Waste Type                                     | Quantity limit (tonnes per annual period) | Acceptance specification                                                                                                                                                                                                                                            |
|------------------------------|------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | Sawdust                                        | 40,000                                    | <ul style="list-style-type: none"> <li>Sawdust from raw timbers which have not been treated or coated with preserving agents, biocides, fire retardants, paint, adhesives or binders</li> </ul>                                                                     |
|                              | Pine bark                                      | 15,000                                    | <ul style="list-style-type: none"> <li>None</li> </ul>                                                                                                                                                                                                              |
|                              | Acid sulfate soil/potential acid sulfate soil  | 10,000                                    | <ul style="list-style-type: none"> <li>Limited to naturally occurring peaty acid sulfate soils from land development and excavation activities</li> </ul>                                                                                                           |
|                              | Animal mortalities and animal processing waste | 20,000                                    | <ul style="list-style-type: none"> <li>Excludes tissue, carcasses or other waste arising from animals used for laboratory investigation or for medical or veterinary research</li> </ul>                                                                            |
|                              | Sand                                           | 20,000                                    | <ul style="list-style-type: none"> <li>Clean, uncontaminated sand sourced from approved sand quarries</li> </ul>                                                                                                                                                    |
| 61A                          | Green waste                                    | 20,000                                    | <ul style="list-style-type: none"> <li>Uncontaminated shredded and unshredded green waste from land clearing, timber harvesting, verge collections and lopping contractors</li> <li>Stockpile heights to be maintained below a maximum of 5 m in height.</li> </ul> |

- 22.** The works approval holder shall ensure that where feedstock does not meet the specifications set out in condition 21 it is removed from the premises by the delivery vehicle or, where that is not possible, stored in a segregated storage area or vessel and removed to an appropriately authorised facility as soon as practicable.

## Monitoring

- 23.** The works approval holder shall undertake process monitoring requirements outlined in Table 4 in accordance with the specifications outlined in that table.

**Table 4: process monitoring requirements**

| Monitoring point | Process description              | Parameter            | Unit of measurement | Frequency                   | Method         |
|------------------|----------------------------------|----------------------|---------------------|-----------------------------|----------------|
| Compost windrows | Harvest Quest composting process | Internal temperature | °C                  | At least two times per week | None specified |
|                  |                                  | Moisture content     | %                   | Weekly                      | Non specified  |



| Monitoring point                               | Process description                      | Parameter               | Unit of measurement | Frequency                   | Method                              |
|------------------------------------------------|------------------------------------------|-------------------------|---------------------|-----------------------------|-------------------------------------|
|                                                |                                          | Product quality testing | -                   | As per AS4454               | In accordance with AS4454           |
| Mulch, potting mix and blended soil stockpiles | Grinding/shredding, grading and blending | Internal temperature    | °C                  | At least two times per week | None specified                      |
|                                                |                                          | Moisture content        | %                   | Weekly                      | None specified                      |
|                                                |                                          | Product quality testing | -                   | As per AS3743 or AS4419     | In accordance with AS3743 or AS4419 |

- 24.** The works approval holder shall ensure that all testing of compost, mulches and blended soil products are undertaken in accordance with AS4454, AS3743 or AS4419.
- 25.** The works approval holder shall ensure that products are classified according to the product specification and end use(s) as determined by the physical and chemical quality specifications outlined in AS4454, AS3743 or AS4419, prior to distribution or sale to customers.

## Records and reporting

- 26.** The works approval holder shall record the details of any complaints received by the works approval holder (whether received directly from a complainant or forwarded to them by the Department or another party) relating to its obligations under this works approval and its compliance with Part V of the EP Act at the premises, any alleged emissions from the premises, and any action taken by the works approval holder in response to the complaint. Details of recorded complaints must include:
- (a) an accurate record of the concerns or issues raised, for example a copy of any written complaint or a written note of any verbal complaints made;
  - (b) the name and contact details of the complainant, if provided by the complainant;
  - (c) the date and time of the complaint; and
  - (d) the complete details and dates of any action taken by the works approval holder to investigate or respond to any complaint.
- 27.** The works approval holder shall undertake input and output monitoring and data recording:
- (a) For all inputs and outputs specified in Table 5:
  - (b) For the parameters listed in Table 5;
  - (c) In the units of measurement specified in Table 5; and
  - (d) At the frequency specified in Table 5.

**Table 5: Monitoring of inputs and outputs**

| Input/output     | Parameter                                                                                                                                                         | Unit of measurement | Frequency                           |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------|
| Feedstock inputs | <ul style="list-style-type: none"> <li>Feedstocks listed in <b>Error! Reference source not found.</b></li> </ul>                                                  | Tonnes              | Each load arriving at the premises  |
| Product outputs  | <ul style="list-style-type: none"> <li>Compost products produced onsite</li> <li>Mulch products produced onsite</li> <li>Blended soils produced onsite</li> </ul> |                     | Each load leaving the premises      |
| Other outputs    | <ul style="list-style-type: none"> <li>Rejected feedstocks</li> <li>Collected feedstock contaminants</li> </ul>                                                   |                     | Each load removed from the premises |

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

- (a) reports and data in relation to the works
- (b) input and output monitoring during time limited operations; and
- (c) complaints recorded under condition 26 of this works approval;

In addition, the books must:

- (d) be legible;
- (e) if amended, be amended in such a manner that the original and subsequent amendments remain legible or are capable of retrieval;
- (f) be retained for at least 3 years from the date the books were made;
- (g) be available to be produced to an Inspector or the CEO.

## Definitions

In this works approval, the terms in Table 6 have the meanings defined.

**Table 6: Definitions**

| Term       | Definition                                                                                                                                                                                                                                                                           |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AS3743     | means the Australian Standard AS 3743-2003 Potting mixes                                                                                                                                                                                                                             |
| AS4419     | means the Australian Standard AS 4419:2018 Soils for Landscaping and Garden Use                                                                                                                                                                                                      |
| AS 4454    | means the Australian Standard AS 4454 <i>Compost, soil conditioners and mulches</i>                                                                                                                                                                                                  |
| Biosolids  | Sludge from a wastewater treatment plant that has undergone further treatment to reduce disease causing pathogens and volatile organic matter significantly, resulting in a stabilised material suitable for beneficial use. Does not include industrial and food processing sludges |
| books      | has the same meaning given to that term under the EP Act.                                                                                                                                                                                                                            |
| CEO        | means Chief Executive Officer.<br>CEO for the purposes of notification means:<br>Director General<br>Department administering the <i>Environmental Protection Act 1986</i><br>Locked Bag 10<br>Joondalup DC WA 6919<br><a href="mailto:info@dwer.wa.gov.au">info@dwer.wa.gov.au</a>  |
| compost    | An organic material that has undergone controlled aerobic and thermophilic biological transformation through the composting process to achieve pasteurisation and reduce phytotoxic compounds, and achieved a specified level of maturity for compost                                |
| 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.                                                                                           |

| Term                                 | Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: <ul style="list-style-type: none"> <li>(a) compliance with the EP Act or this Works Approval;</li> <li>(b) the Books or other sources of information maintained in accordance with this Works Approval; or</li> <li>(c) the Books or other sources of information relating to Emissions from the Premises.</li> </ul> |
| digestate                            | Decomposed feedstock generated as a product of anaerobic digestion comprising slow degradable, stable organic components such as lignin, nitrogen and phosphorus in various forms, inorganic salts containing phosphate, ammonium, potassium and other minerals.                                                                                                                                                                                                                                                                                                                                      |
| 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                               | <i>Environmental Protection Act 1986 (WA).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| EP Regulations                       | <i>Environmental Protection Regulations 1987 (WA).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| feedstock                            | means the organic and inorganic material used in the compost and blended soil manufacturing processes and listed in Table 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| green waste                          | biodegradable waste comprising plants and their component parts such as flower cuttings, hedge trimmings, branches, grass, leaves, plants, seeds, shrub and tree loppings, tree trunks, tree stumps and similar materials and includes any mixture of those materials                                                                                                                                                                                                                                                                                                                                 |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Term                       | Definition                                                                                                                                                                  |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                                                                   |
| 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 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.                     |

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## END OF CONDITIONS

## Schedule 1: Maps

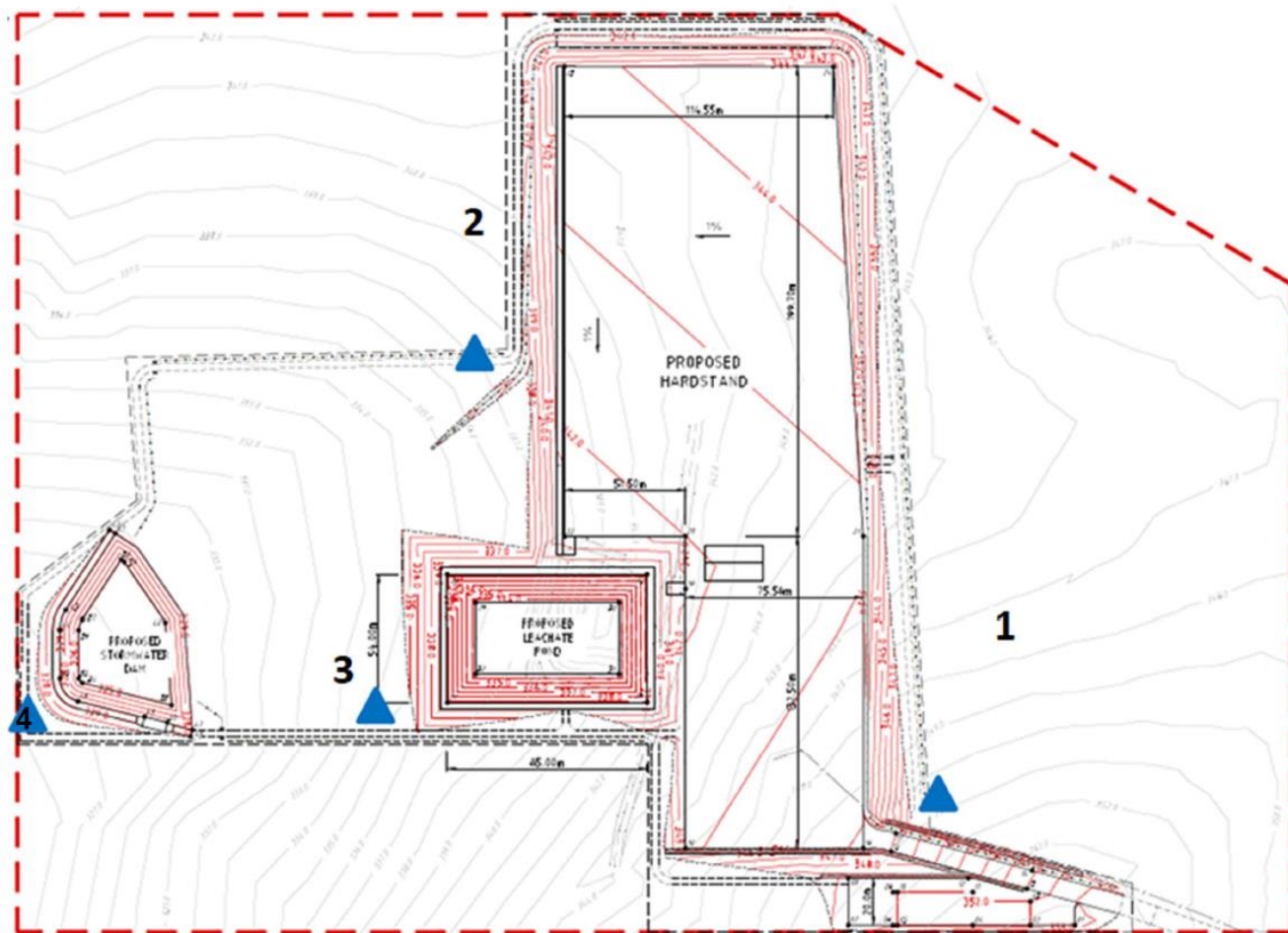
### Premises maps



**Figure 1: Premises layout**

*Environmental Protection Act 1986*  
Works approval number: W6213/2019/1  
File number: DER2018/001569~1





**Figure 2: Groundwater Monitoring Bore Locations**

The blue triangles represent the works approval holder's proposed bore locations, and the numbers 1-4 represent the Departments preferred locations for bore placement. Final bore placement is to be determined following site investigations.

## Premises boundary

The Premises boundary is defined by the coordinates in Table 7 and depicted in Figure 3 below.

**Table 7: Premises boundary coordinates**

| Easting    | Northing    |
|------------|-------------|
| 443844.399 | 6396685.842 |
| 444193.107 | 6396685.924 |
| 444385.990 | 6396571.315 |
| 444386.044 | 6396296.036 |
| 443844.374 | 6396296.096 |





**Figure 3: Premises boundary**

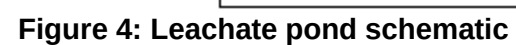
## Schedule 2: Works

At the time of assessment, emissions and discharges from the works listed in Table 8 were considered in the determination of the risk and related Conditions for the Works Approval.

**Table 8: Authorised Works**

| Works                                                      | Specifications/Drawings                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hardstand Composting Area construction                     | <ul style="list-style-type: none"> <li>Sealed Composting Hardstand as depicted in Figure 1 in Schedule 1</li> <li>Minimum 250 mm thick granular base course layer with an asphalt seal to achieve a permeability of less than <math>1 \times 10^{-9}</math> m/s</li> </ul>                            |
| Leachate Pond construction                                 | <ul style="list-style-type: none"> <li>Leachate Pond as depicted in Figure 1 in Schedule 1 and Figure 4 of Schedule 2</li> <li>Constructed and lined with 2 mm HDPE geomembrane to achieve a permeability of less than <math>1 \times 10^{-9}</math> m/s.</li> </ul>                                  |
| Leachate Sump construction                                 | <ul style="list-style-type: none"> <li>Constructed of reinforced concrete to achieve a permeability of less than <math>1 \times 10^{-9}</math> m/s.</li> </ul>                                                                                                                                        |
| Stormwater Drainage System and Stormwater Dam construction | <ul style="list-style-type: none"> <li>Stormwater Dam as depicted in Figure 1 in Schedule 1</li> </ul>                                                                                                                                                                                                |
| Construction of groundwater monitoring wells               | <ul style="list-style-type: none"> <li>In locations depicted in Figure 2 in Schedule 1 and in accordance with Design and construction requirements set out in Schedule 3, Table 9</li> </ul>                                                                                                          |
| Free standing liquid waste storage tank installation       | <ul style="list-style-type: none"> <li>6 FibreFurn flexi-N Tanks with a capacity of 60,000 l</li> <li>Located on the sealed composting hardstand as depicted in Figure 1 in Schedule 1</li> </ul>                                                                                                     |
| Feedstock bay construction                                 | <ul style="list-style-type: none"> <li>Constructed of reinforced concrete to achieve a permeability of less than <math>1 \times 10^{-9}</math> m/s</li> <li>Bunded to prevent feedstock overflow</li> <li>Located on the sealed composting hardstand as depicted in Figure 1 in Schedule 1</li> </ul> |

|                                                                                                          |                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operational Equipment for the purpose of processing, shredding, screening and storing of waste/feedstock | <ul style="list-style-type: none"> <li>• Mobilisation and commissioning of equipment similar in size and power to an 'Edge 622 Trommel' and Edge FTS Mulch Master, wheel loaders and excavators on Hardstand Composting Area</li> </ul> |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



## Site layout

The infrastructure and equipment are set out on the Premises in accordance with the site layout specified on the Premises map (Figure 1) in Schedule 1.

## Schedule 3: Groundwater monitoring well construction

Table 9: Infrastructure construction requirements – groundwater monitoring wells

| Infrastructure                               | Design and construction requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Timeframe                                                                                                                            |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Construction of groundwater monitoring wells | <p><u>Well design and construction:</u> designed and constructed according to ASTM D5092/D5092M-16; Standard practice for design and installation of groundwater monitoring wells.</p> <p>Siting and screening intervals determined on drilling with the final location and intervals chosen such that any groundwater impacts due to seepage, liner failure or run-off from operational areas can be detected (i.e. mounding or changes in groundwater quality). Well screens must target the part, or parts, of the aquifer most likely to be affected by contamination. Where temporary/seasonal perched features are present, wells must be nested and the perched features individually screened.</p> <p><u>Logging of borehole:</u> soil samples must be collected and logged during the installation of the monitoring wells; a record of the geology encountered during drilling should be described and classified in accordance with the Australian Standard Geotechnical Site Investigations AS 1726. Any observations of staining/odours or other indications of contamination must be included in the bore log.</p> <p><u>Well construction log:</u> well construction details must be documented within a well construction log to demonstrate compliance with ASTM D5092/D5092M-16. 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><u>Well Development:</u> 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><u>Installation survey:</u> 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><u>Well network map:</u> 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> | Must be constructed, developed (purged) and determined to be operational within 90 days from the date of this revised works approval |