Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W6360/2020/1
Works approval holder	Eastern Metropolitan Regional Council
Registered business address	226 Great Eastern Highway BELMONT WA 6104
DWER file number	DER2020/000084
Duration	21/08/2020 to 20/08/2025
Date of issue	21/08/2020
Premises details	Hazelmere Resource Recovery Park 77 Lakes Road Hazelmere WA 6055 Legal description – Lot 100 on Plan 4553, Lot 301 on Deposited Plan 405273 and Lot 814 on Deposited Plan 410889 Certificate of Title Volume 1243 Folio 87, Volume 2870 Folio 90 and Volume 2948 Folio 355 As defined by the premises map in Schedule 1

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed design capacity**
Category 61: liquid waste facility	1,000 tpa
Category 62: solid waste depot	232,000 tpa

This works approval is granted to the works approval holder, subject to the attached conditions, on 21 August 2020, by:

Michael Greenslade

Digitally signed by Michael Greenslade
Date: 2020.08.21 12:31:39 +08'00'

A/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
21/08/2020	W6360/2020/1	Works approval first issued.

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 and install 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 Stage	Infrastructure and equipment	Design and construction requirements	Infrastructure location
Stage 1 (Community Recycling Centre)	Reuse shed	(a) Situated above concrete hardstand of at least 150 mm thickness.	As shown in Schedule 1 – Figure 2: CRC site plan
	Household Hazardous Waste (HHW) shed	(a) Fully enclosed; (b) Situated above a bunded concrete hardstand of at least 150 mm thickness; and (c) Fitted with receptacles, containers and Dangerous Goods cabinets for the segregation of incompatible wastes.	As shown in Schedule 1 – Figure 2: CRC site plan
	Open air hardstand area	(a) Must be constructed from concrete.	As shown in Schedule 1 – Figure 2: CRC site plan
	Waste receptacles	(a) 15m^3 hooklift bins; (b) 30m^3 hooklift bins; and (c) Cages and self-bunded pallets or similar.	N/A
	Cardboard baler	None specified.	As shown in Schedule 1 – Figure 2: CRC site plan

Infrastructure Stage	Infrastructure and equipment	Design and construction requirements	Infrastructure location
	Multi-tiered Drop Off Facility (MTDOF)	(a) Situated above concrete hardstand of at least 150mm thickness; and (b) Vehicle access points must be constructed with a fall away from the MTDOF.	As shown in Schedule 1 – Figure 2: CRC site plan
	Stormwater system	(a) Must be comprised of: (i) below ground infiltration cells; (ii) silt traps; and (iii) drainage infrastructure constructed to divert all stormwater, excluding from within the MTDOF and HHW shed, to the below ground cells; and (b) Infiltration cells must be fitted with tankering points for the removal of fire washwater during a fire event.	As shown in Schedule 1 – Figure 2: CRC site plan
	Acid sulfate soil (ASS) treatment pad	(a) Constructed from crushed limestone with a minimum base thickness of 300 mm; (b) Surrounded on all sides by a crushed limestone bund wall with a minimum height and thickness of 150 mm; (c) Compacted to produce an appropriately low permeability to prevent infiltration of leachate; and (d) Must contain all generated leachate.	N/A

Infrastructure Stage	Infrastructure and equipment	Design and construction requirements	Infrastructure location
Stage 2 (Waste Transfer Station)	Transfer station warehouse	(a) Fully enclosed; (b) Situated above reinforced concrete hardstand; (c) All access points must be sufficiently bunded or graded to prevent intrusion of stormwater into, and emission of leachate out of, the warehouse; (d) Vehicle access doors must be sound insulated and have a fast action open and shut cycle of 15 seconds; (e) All vehicle access doors must be located on the northern or southern face of the warehouse; (f) Waste storage bunker must be fitted with 5 m high reinforced concrete push walls; (g) Fitted with a fire suppression sprinkler system; and (h) Fitted with a fire alarm system capable of detecting smoke, fire and carbon monoxide levels and linked to the fire suppression sprinkler system.	As shown in Schedule 1 – Figure 3: WTS site plan
	Unloading area and waste storage bunker hardstand	(a) The external reversing apron connected to the hardstand must be constructed with a fall away from the unloading area; (b) Constructed from reinforced concrete of at least 200 mm thickness; and (c) Graded to fall at 1% towards a leachate collection sump.	As shown in Schedule 1 – Figure 3: WTS site plan
	Bulk load out area hardstands	(a) Intercept drains must be constructed at entry and exit points to the hardstands; (b) Constructed from reinforced concrete of at least 150 mm thickness; and (c) Graded to fall at 1% towards a leachate collection sump.	As shown in Schedule 1 – Figure 3: WTS site plan

Infrastructure Stage	Infrastructure and equipment	Design and construction requirements	Infrastructure location
	Air extraction system	(a) Must be comprised of four air extraction stacks with a minimum height of 2 m above the warehouse roof apex; and (b) Capable of: (i) maintaining negative pressure within the transfer station; (ii) achieving four air exchanges per hour; and (iii) a constant stack exit velocity of 15 m/s.	Transfer station warehouse as shown in Schedule 1 – Figure 3: WTS site plan
	Leachate collection system	(a) Must be comprised of: (i) leachate collection sumps; and (ii) 20 kL below ground leachate tank; (b) The leachate collection sumps must be fitted with drainage pipelines to divert leachate to the below ground leachate tank; (c) The below ground leachate tank must be fitted with a high level sensor connected to a monitored alarm system; and (d) Must be free from leaks and defects.	As shown in Schedule 1 – Figure 3: WTS site plan
	Stormwater system	(a) Must be comprised of: (i) silt traps; and (ii) drainage infrastructure constructed to divert all stormwater, excluding from within the WTS, to the system; (b) Infiltration cells must be fitted with tankering points for the removal of fire washwater during a fire event; and (c) Storage ponds must be provided with access points for the removal of fire washwater by tanker during a fire event.	As shown in Schedule 1 – Figure 3: WTS site plan

Infrastructure Stage	Infrastructure and equipment	Design and construction requirements	Infrastructure location
	Noise walls	(a) 2.2 m high acoustic boundary wall located on the south and west boundaries of the premises; and (b) 3 m high acoustic boundary wall located on the north and east boundaries of the premises.	As shown in Schedule 1 – Figure 4: premises noise walls

2. The works approval holder must not depart from the design and construction requirement specified in Table 1 except:

(a) where such a departure is minor in nature and does not materially change of affect the infrastructure; or

(b) where such a departure does not increase risks to public health, public amenity or the environment; and

(c) all other conditions in the works approval are still satisfied.

Acid sulfate soil management

3. The works approval holder must ensure that all soil excavated from Sediment Pond 1, as specified on Figure 5 in Schedule 1, is treated as ASS material.

4. The works approval holder must ensure that all excavations at the location of Sediment Pond 1 are lined with at least 100mm of alkaline material.

5. The works approval holder must undertake treatment and validation on all excavated ASS or PASS to achieve neutralisation.

6. The works approval holder must only undertake stockpiling and treatment of ASS or PASS on the ASS treatment pad, as specified in Table 1.

7. The works approval holder must, during excavations, undertake inspection of excavated material for visual indicators of ASS, whereby excavated material with visual indicators of ASS is to be treated as ASS.

8. Treated ASS or PASS must only be re-used at the premises after validation sampling confirms neutralisation has been achieved.

9. Where ASS or PASS is disposed of to a licensed facility, the works approval holder must provide receipts or other acceptance records from the relevant disposal facility, including details of the total amount of ASS or PASS material taken to the chosen facility, within the Closure Report required under condition 12.

Treatment pad decommissioning

10. Upon completion of soil treatment, the works approval holder must decommission the ASS treatment pad described in Table 1 including, but not limited to, the removal and remediation of soils to meet a pH value between 6.0 and 8.5.

11. The works approval holder must sample, classify and dispose of material from the decommissioned ASS treatment pad in accordance with the Landfill Definitions.

Acid sulfate soil closure reporting

12. The works approval holder must prepare a Closure Report and submit it to the CEO within one month after the completion of the Stage 1 works specified in condition 1. The Closure Report must contain, as a minimum:

(a) the soil and water management undertaken at the premises in relation to ASS exposure;

(b) the volume of soil exposed and treated at the premises;

(c) the calculated quantity of neutralising agent required for the works, including the manufacturer's laboratory analysis of the neutralising value, particle size distribution and solubility of the neutralising agent;

(d) the quantity of neutralising agent used during the works;

(e) the results of validation testing undertaken on treated soil;

(f) the results of any groundwater monitoring undertaken during the works, including graphical trends in water quality;

(g) a discussion of the effectiveness of ASS management strategies employed at the premises;

(h) a discussion of any potential risks to human health or the environment associated with ground disturbing works undertaken at the premises; and

(i) a discussion of any remedial measures needed.

Compliance reporting

13. The works approval holder must within 30 calendar days of each infrastructure stage specified in condition 1 being constructed or 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.

14. The Environmental Compliance Report required by condition 13, must include as a minimum the following:

(a) certification by a civil engineer that the items of infrastructure or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;

(b) for Stage 2, the results of hydrostatic testing undertaken on the leachate collection system;

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

(d) where a departure from the requirements in condition 1 occurs and is of a type allowed by condition 2, the works approval holder must provide a description of, and explanation for, the departure; and

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

Time limited operations phase

Commencement and duration

15. The works approval holder may only commence time limited operations for an infrastructure stage identified in condition 1 where the Environmental Compliance Report as required by condition 13 has been submitted by the works approval holder for that infrastructure stage.

16. The works approval holder may conduct time limited operations for an infrastructure stage specified in condition 1:

(a) for a period not exceeding 90 calendar days from the day the works approval holder meets the requirements of condition 15 for that infrastructure stage; or

(b) until such time as a licence for that infrastructure stage is granted in accordance with Part V of the *Environmental Protection Act 1986* and only where this occurs prior to 90 calendar days from the day the works approval holder meets the requirements of condition 15 for that infrastructure stage.

Time limited operations requirements and emission controls

17. During time limited operations, the works approval holder must only accept onto the premises waste of a type that for the corresponding infrastructure stage:

(a) does not exceed the rate at which that waste is received; and

(b) meets the relevant acceptance specification,

as set out in Table 2.

Table 2: Types of waste authorised to be accepted onto the premises during time limited operations

Infrastructure Stage	Waste type	Rate at which waste is received	Acceptance specification
Stage 1 (Community Recycling Centre)	Inert Waste Type 1	Combined total of no more than 15,000 tonnes per annual period	None specified
	Inert Waste Type 2		(a) Limited to used tyres and plastics only; and (b) No more than 100 used tyres can be accepted onto the premises at any time.
	Putrescible waste (excluding FOGO)		None specified

Infrastructure Stage	Waste type	Rate at which waste is received	Acceptance specification
	Hazardous waste		(a) Only household hazardous waste as listed in Schedule 2; and (b) Individual container size must not exceed 20 L or 20 kg.
	E-waste		None specified
Stage 2 (Waste Transfer Station)	Inert Waste Type 1	Combined total of no more than 125,000 tonnes per annual period	None specified
	Inert Waste Type 2		
	Putrescible waste (excluding FOGO)		
	FOGO	No more than 40,000 tonnes per annual period	None specified

18. During time limited operations, the works approval holder must not accept waste onto the premises where it contains, or is suspected to contain, visible asbestos or ACM.

19. During time limited operations, where waste does not meet the waste acceptance criteria set out in condition 17, the works approval holder must:

(a) reject the waste; and

(b) record the details of the:

(i) waste (type and description);
(ii) source of the waste load;
(iii) name of the waste carrier;
(iv) registration number of the delivery vehicle; and
(v) date that the waste load was rejected; and

(c) maintain accurate and auditable records of all waste loads rejected from the premises.

20. During time limited operations, the works approval holder must ensure that where waste does not meet the waste acceptance criteria set out in condition 17, it is removed from the premises by the delivery vehicle or, where that is not possible, stored in a quarantined storage area or container and removed to an appropriately authorised facility as soon as practicable.

21. Upon acceptance of household hazardous waste, the works approval holder must inspect the integrity of the container and categorise the material according to the material categories listed in Schedule 2.

22. During time limited operations, the works approval holder must ensure that the waste types specified in Table 3, for the corresponding infrastructure stage, are only subjected to the corresponding process(es), subject to the corresponding process limits and/or specifications, as set out in Table 3.

Table 3: Waste processing during time limited operations

Infrastructure Stage	Waste type	Process(es)	Process limits and/or specifications
Stage 1 (Community Recycling Centre)	Inert Waste Type 1 Inert Waste Type 2	Receipt, handling, sorting and temporary storage prior to off-site disposal	(a) Acceptance and storage of material must occur above sealed hardstand; (b) Non-bulk items must be stored within containment receptacles; and (c) Used tyre storage must not exceed 100 tyres at any time.
	Putrescible waste (excluding FOGO)		(a) Must be deposited and stored within leak-proof receptacles; and (b) Cardboard may be baled prior to storage and disposal.
	Hazardous waste		(a) Car batteries must be stored on a covered, self-bunded pallet situated above a sealed hardstand; (b) Fire extinguishers, gas bottles and fluorescent lights must be stored in metal cages situated above a sealed hardstand; (c) Household hazardous wastes not specified above must be classified, segregated and stored in the household hazardous waste shed; (d) No decanting is permitted; and (e) Household hazardous waste with questionable container integrity must be placed in a suitable outer container prior to storage.
	E-waste		(a) Storage must occur above sealed hardstand.

Infrastructure Stage	Waste type	Process(es)	Process limits and/or specifications
Stage 2 (Waste Transfer Station)	Inert Waste Type 1 Inert Waste Type 2 Putrescible waste (excluding FOGO) FOGO	Receipt, handling, sorting and temporary storage prior to off-site disposal	(a) No waste material shall be landfilled on-site; (b) Unloading of waste must only occur within the Unloading Area specified in Schedule 1; (c) Waste must be stored within the Waste Storage Bunker specified in Schedule 1; and (d) Storage of FOGO and Putrescible waste is limited to 48 hours from the time of receipt.

23. During time limited operations, the works approval holder must ensure that the premises infrastructure and equipment listed in Table 4, and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirements set out in Table 4.

Table 4: Infrastructure and equipment requirements during time limited operations

Infrastructure Stage	Site infrastructure and equipment	Operational requirements	Infrastructure location
Stage 1 (Community Recycling Centre)	Household hazardous waste shed	(a) All access points must be locked outside of operational hours; (b) All spills must be contained within the shed; (c) HDPE storage containers and Dangerous Goods cabinets must be provided for the segregation of incompatible waste types; and (d) Oil, fuel and Hazchem spill kits must be provided within the shed.	As shown in Schedule 1 – Figure 2: CRC site plan
	Waste receptacles	(a) Must be regularly inspected and maintained to provide adequate containment of waste and/or potentially generated leachate.	N/A

Infrastructure Stage	Site infrastructure and equipment	Operational requirements	Infrastructure location
	Stormwater system	(a) Uncontaminated stormwater must be directed away from areas of waste storage; (b) Must be maintained free from blockages; and (c) Infiltration cells must be pumped out for offsite disposal during fire events where fire washwater is generated.	As shown in Schedule 1 – Figure 2: CRC site plan
Stage 2 (Waste Transfer Station)	Transfer station warehouse	(a) Uncontaminated stormwater must be prevented from entering the warehouse; (b) Leachate must be contained within the warehouse unless being discharged to the leachate holding tank; (c) Vehicle access doors must have a fast action open and shut cycle of 15 seconds; and (d) Vehicle access doors must remain closed at all times unless in active use.	As shown in Schedule 1 – Figure 3: WTS site plan
	Air extraction system	(a) Must maintain negative pressure within the transfer station at all times; (b) Must achieve four complete air exchanges of the warehouse per hour; and (c) Must maintain a constant stack exit velocity of 15 m/s.	Transfer station warehouse as shown in Schedule 1 – Figure 3: WTS site plan

Infrastructure Stage	Site infrastructure and equipment	Operational requirements	Infrastructure location
	Leachate collection system	(a) Must divert leachate from the WTS to the below ground leachate tank; (b) The integrity of the below ground leachate tank must be maintained; (c) Drainage pipelines must be maintained free from blockages; (d) Must regularly remove, for offsite disposal, leachate from the leachate collection tank to prevent overflow; and (e) Must maintain the functionality and connectivity of the high level sensor within the leachate tank.	As shown in Schedule 1 – Figure 3: WTS site plan
	Stormwater system	(a) Uncontaminated stormwater must be directed away from areas of waste storage; (b) Must be maintained free from blockages; (c) Infiltration cells must be pumped out for offsite disposal during fire events where fire washwater is generated; and (d) Storage ponds must be pumped out for offsite disposal during fire events where fire washwater is generated.	As shown in Schedule 1 – Figure 3: WTS site plan

24. During time limited operations, the works approval holder shall 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.

25. During time limited operations, the works approval holder shall 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.

26. During time limited operations, the works approval holder must take all reasonable and practicable measures to prevent stormwater run-off becoming contaminated by the activities and operations undertaken at the premises.

27. During time limited operations, the works approval holder must ensure that:

(a) all reasonable and practicable measures are taken to ensure that no windblown waste escapes from the premises; and

(b) any windblown waste is collected on at least a weekly basis and returned to the waste transfer station or otherwise appropriately contained.

28. During time limited operations, the works approval holder must maintain clear visible signage at all entries to the premises specifying;

(a) no asbestos is accepted at the premises;

(b) the type and container size limit of household hazardous wastes accepted at the premises;

(c) the types of hazardous waste not accepted at the premises; and

(d) a Hazchem outer warning placard.

29. During time limited operations, the works approval holder must

(a) erect and maintain suitable fencing to prevent unauthorised access to the site;

(b) ensure that any entrance gates to the premises are securely locked when the premises is unattended; and

(c) undertake regular inspections of all security measures and repair damage as soon as practicable.

30. During time limited operations, the works approval holder must:

(a) ensure that fire-fighting equipment and systems are in good working order and capable of controlling a loose material fire;

(b) ensure that water and other waste that may result from firefighting on the Premises is captured and contained within the Premises;

(c) ensure that any fire washwater is removed from the Premises by a carrier licensed under the *Environmental Protection (Controlled Waste) Regulations 2004*; and

(d) ensure that any fire on the Premises is extinguished as soon as possible.

Monitoring during time limited operations

31. During time limited operations, the works approval holder must record the total amount of waste accepted onto and removed from the premises for each infrastructure stage and waste type listed in Table 5, in the corresponding unit, and for each corresponding time period, as set out in Table 5.

Table 5: Waste input and output monitoring

Infrastructure Stage	Waste type	Unit	Time period
Stage 1 (Community Recycling Centre)	Inert Waste Type 1	m^3 and calculated tonnes	Each load arriving at and leaving the Premises
	Inert Waste Type 2		
	Putrescible waste (excluding FOGO)		
	Household hazardous waste		
	E-waste		

Infrastructure Stage	Waste type	Unit	Time period
Stage 2 (Waste Transfer Station)	Inert Waste Type 1	Tonnes	Each load arriving at and leaving the Premises
	Inert Waste Type 2		
	Putrescible waste (excluding FOGO)		
	FOGO		

Compliance reporting

32. The works approval holder must submit to the CEO a report on the time limited operations within 30 calendar days of the completion date of time limited operations or 30 calendar days before the expiration date of the works approval, whichever is the sooner.

33. The works approval holder must ensure the report required by condition 32 includes the following:

(a) a summary of the time limited operations, including timeframes and amount of material processed;

(b) a summary of the environmental performance of all infrastructure as constructed or installed (as applicable);

(c) a review of performance and compliance against the conditions of the works approval; and

(d) where the manufacturer's design specifications and the conditions of this works approval have not been met, what measures will the works approval holder take to meet them, and what timeframes will be required to implement those measures.

Records and reporting (general)

34. 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.

35. 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 23;

(c) monitoring programmes undertaken in accordance with condition 31; and

(d) complaints received under condition 34.

36. The books specified under condition 35 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 6 have the meanings defined.

Table 6: Definitions

Term	Definition
acid neutralising capacity	means a soil's ability to buffer acidity and resist the lowering of soil pH
ANC	Acid neutralising capacity
annual period	a 12 month period commencing from 1 July until 30 June of the immediately following year.
ASS	Acid sulfate soil
books	has the same meaning given to that term under the EP Act.
calculated tonnes	means tonnage calculated using the default values listed in Appendix B of the CEO Notice of information required for an annual return of liable local governments that provide waste services, gazetted in that reporting period.
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
Civil engineer	means a person who: (a) holds a Bachelor of Engineering recognised by Engineers Australia; and (b) has a minimum of five years of experience working in a supervisory area of civil engineering; and (c) is employed by an independent third party external to the Works Approval Holder's business; or is otherwise approved in writing by the CEO to act in this capacity.
Closure Report	means a report to satisfy the CEO that the potential exposure of ASS or PASS material has been managed in accordance with the works approval and containing the mandatory information listed in Appendix C of the document titled *Treatment and management of soil and water in acid sulfate soil landscapes*, published by the department in June 2015.
CRC	Community Recycling Centre
Dangerous Goods	has the same meaning given to that term under the *Dangerous Goods Safety Act 2004*.
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.

Term	Definition
DWER	Department of Water and Environmental Regulation As of 1 July 2017, the Department of Environment Regulation (DER), the Office of the Environmental Protection Authority (OEPA) and the Department of Water (DoW) amalgamated to form the Department of Water and Environmental Regulation (DWER). DWER was established under section 35 of the *Public Sector Management Act 1994* and is responsible for the administration of the *Environmental Protection Act 1986* along with other legislation.
emission	has the same meaning given to that term under the EP Act.
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and equipment has been constructed and installed in accordance with the works approval.
EP Act	*Environmental Protection Act 1986* (WA).
EP Regulations	*Environmental Protection Regulations 1987* (WA).
FOGO	means a source separated mixture of food organics and garden organics collected from bins designated for this purpose.
Household hazardous waste	means the chemicals and hazardous materials listed in Appendix 3 of the HHW Guidelines and accepted under the Household Hazardous Waste Program.
HHW	Household hazardous waste
HHW Guidelines	means the *Guidelines for the design and operation of facilities for the acceptance and storage of household hazardous waste* published by the department, as amended from time to time.
Landfill Definitions	means the *Landfill Waste Classification and Waste Definitions 1996*, as amended from time to time.
MTDOF	Multi-tiered drop off facility
Municipal waste	means household domestic waste that is set aside for kerb-side collection or delivered by the householder directly to the waste facility.
Neutralisation	means the treatment of ASS or PASS to meet the following specification; • soil and neutralising agent look visually well blended; • pH_F in the range of 6.0 – 8.5; • pH_{FOX} > 5; and • Excess ANC is present.
PASS	Potential acid sulfate soil
pH_F	means soil field pH
pH_{FOX}	means soil field pH peroxide
premises	the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1) in Schedule 1 to this works approval.
prescribed premises	has the same meaning given to that term under the EP Act.
Sediment Pond 1	means the location specified on Figure 5 in Schedule 1 to this works approval.

Term	Definition
time limited operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
visual indicators of ASS	means soil possessing the following characteristics; • waterlogged soils; • peat or peaty soils; • coffee rock horizons; and • a sulfurous smell e.g. hydrogen sulfide or 'rotten egg' gas.
waste	has the same meaning given to that term under the EP Act.
waterlogged soils	unripe muds (soft, sticky and can be squeezed between fingers, blue grey or dark greenish grey mud with a high water content), silty sands or sands (mid to dark grey) or bottom sediments (dark grey to black e.g. iron monosulfide 'black oozes').
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.
WTS	Waste Transfer Station

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

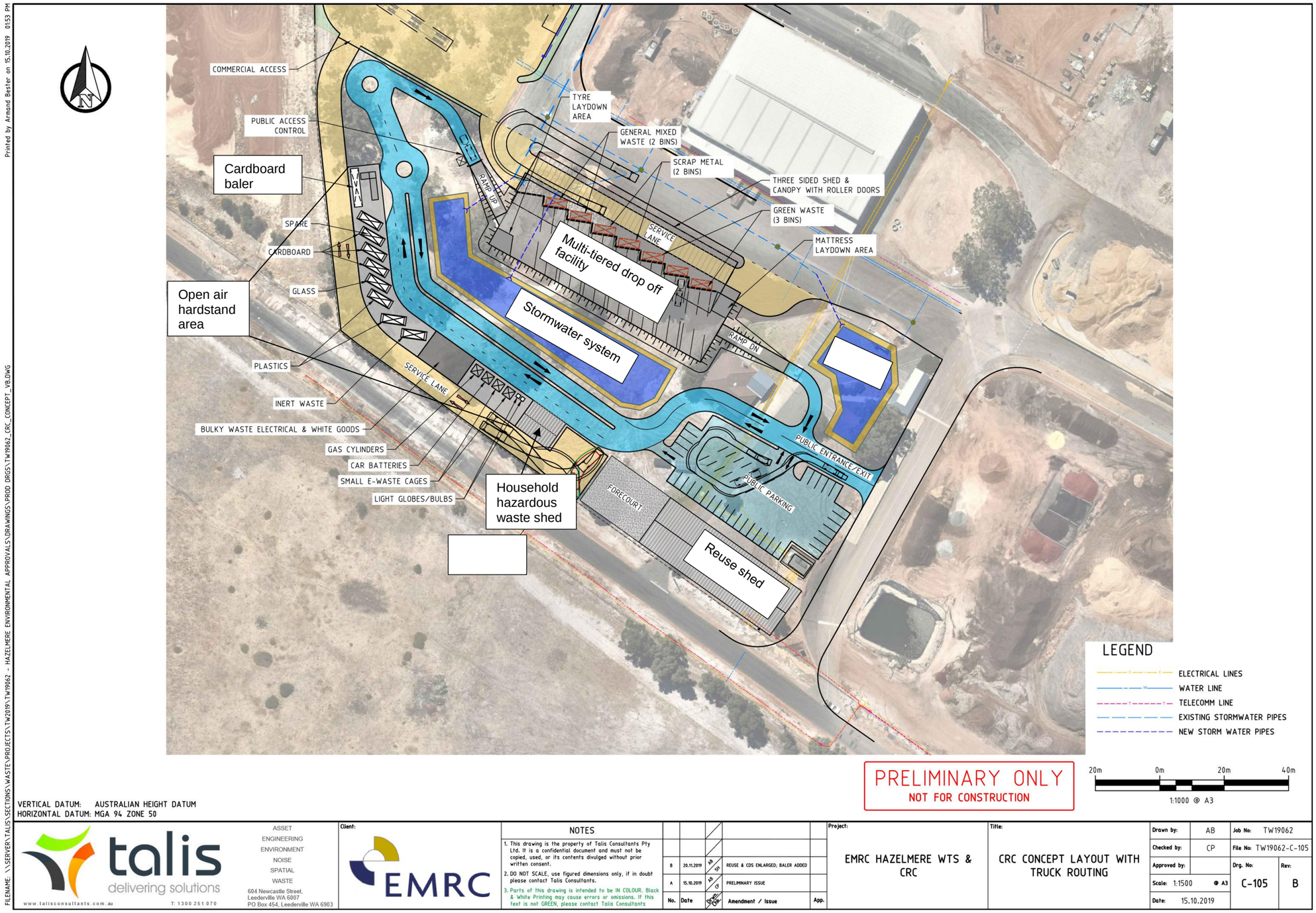
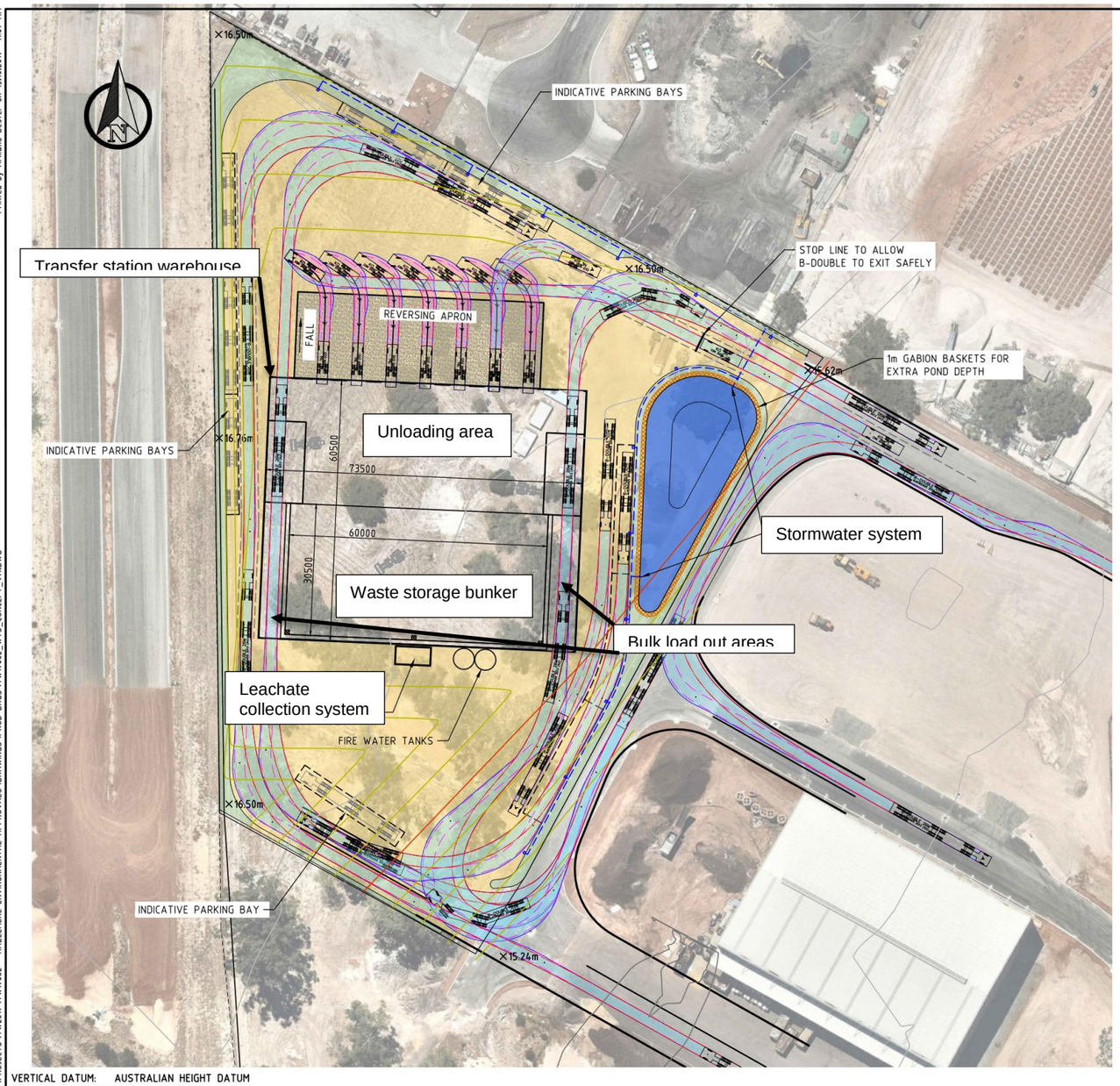


Figure 2: CRC site plan



YEAR 20-30 COMBINED ANNUAL TONNAGE 232,000tpa

STORAGE OF 2 DAYS IN BUNKER USING 5 DAY OPERATION
STORAGE OF 2.5 DAYS IN BUNKER USING 7 DAY OPERATION
- UTILISES FREEBOARD

B-DOUBLE PARK BAYS 28.0m x 3.0m

BLUE SHADED VEHICLE MOVEMENTS ARE FORWARDS
PINK SHADED VEHICLE MOVEMENTS ARE REVERSE

LEGEND

GULLY PIT WITH PIPELINE

MANHOLE WITH PIPELINE

CONCEPTUALISATION OF PREFERRED OPTION
SCALE: 1:1000

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

20m 0m 20m 40m
1:1000 @ A3

VERTICAL DATUM: AUSTRALIAN HEIGHT DATUM
HORIZONTAL DATUM: MGA 94 ZONE 50

talis delivering solutions
www.talisconsultants.com.au T: 1300 251 070
ASSET
ENGINEERING
ENVIRONMENT
NOISE
SPATIAL
WASTE
604 Newcastle Street,
Leederville WA 6007
PO Box 454, Leederville WA 6903

Client: EMRC

NOTES
1. This drawing is the property of Talis Consultants Pty Ltd. It is a confidential document and must not be copied, used, or its contents divulged without prior written consent.
2. DO NOT SCALE, use figured dimensions only, if in doubt please contact Talis Consultants.
3. Parts of this drawing is intended to be IN COLOUR. Black & White Printing may cause errors or omissions. If this text is not GREEN, please contact Talis Consultants

No.	Date	Drawn	Chkd	Amendment / Issue	App.
A	15.10.2019	AB	CP	PRELIMINARY ISSUE	

Project: EMRC HAZELMERE WTS & CRC

Title: WTS CONCEPT LAYOUT WITH TRUCK ROUTES

Drawn by:	AB	Job No:	TW19062
Checked by:	CP	File No:	TW19062-C-102
Approved by:		Drg. No:	Rev:
Scale: 1:1500 @ A3		C-102	A
Date: 15.10.2019			

Printed by Armand Bester on 15.10.2019 11:07 AM
FILENAME: Y:\SECTIONS\WASTE\PROJECTS\TW2019\TW19062 - HAZELMERE ENVIRONMENTAL APPROVALS\DRAWINGS\PROD DRGS\TW19062_WTS_CONCEPT_VA.DWG

Figure 3: WTS site plan

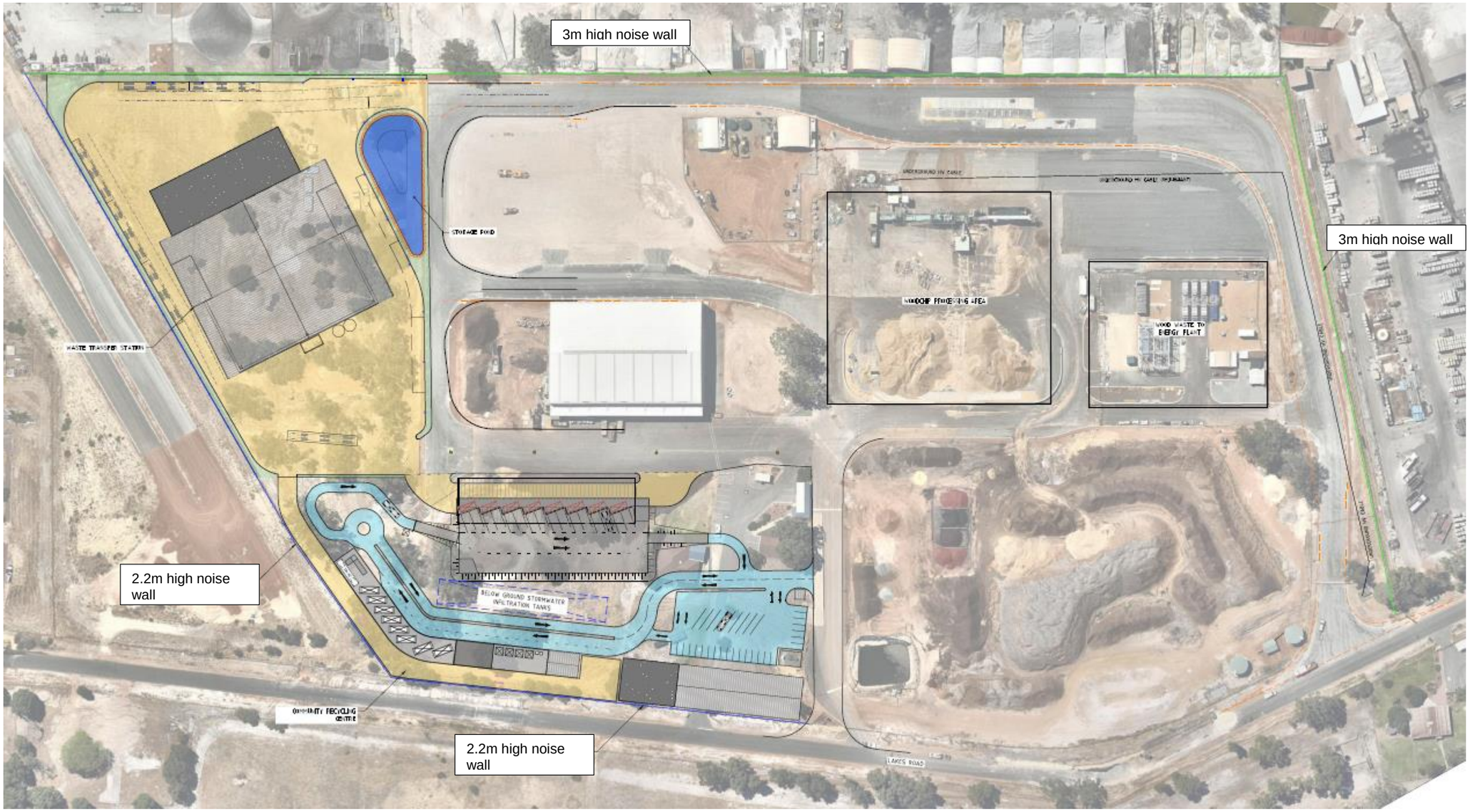


Figure 4: Premises noise walls

Figure 5: Location of Sediment Pond 1 (denoted by label SP1 and yellow shading)

Schedule 2: HHW material categories

Guidelines for the design and operation of facilities for the acceptance and storage of household hazardous waste

Categorising materials accepted through the HHW Program

The table below lists all of the materials accepted through the HHW Program, and outlines the relationship between HHW material type, dangerous goods class , storage categories (used by HHW storage facilities), and the older HHW group classification formerly used by some HHW storage facilities (A-F).

Materials accepted through the HHW Program	DG Class (as per the ADG Code)	Storage Facility Category (Used by HHW storage facility to sort and store HHW)	Older HHW Group Classification System (A-F)
Cyanides	6 Toxics	P1: Toxics	Not covered
Heavy metal compounds	6 Toxics		Not covered
Mercury – elemental	6 Toxics		Not covered
Paint – metal based	6 Toxics		Not covered
Paint – other, including isocyanates and amines	6 Toxics		Not covered
PCB materials	6 Toxics		Not covered
Pesticides – non Schedule X	6 Toxics		A
Pesticides – Schedule X	6 Toxics		A
Solvents – halogenated	6 Toxics		Not covered
Toxics	6 Toxics		Not covered
Arsenic based products	6 Toxics		A
Flammable liquids – hydrocarbons, fuels and solvents	3 Flammable liquids	P2: Flammable liquids	B
Paint – solvent based, including resins and adhesives	3 Flammable liquids		B
Acids	8 Corrosives	P3: Corrosive – acids	C
Batteries – lead acid	8 Corrosives		C
Alkali	8 Corrosives	P4: Corrosive – alkalis	C
Flammable solids (e.g. Phosphorus)	4 Flammable solids	P5: Flammable solids	C

Guidelines for the design and operation of facilities for the acceptance and storage of household hazardous waste

Materials accepted through the HHW Program	DG Class (as per the ADG Code)	Storage Facility Category (Used by HHW storage facility to sort and store HHW)	Older HHW Group Classification System (A-F)
Inorganic oxidising agents e.g. pool chlorine	5 Oxidisers	P6: Oxidisers	D
Organic peroxides (MUST BE KEPT SEPARATE)	5 Oxidisers		D
Aerosols – CFC based	2 Gases	P7: Miscellaneous DG	Not covered
Aerosols – flammable - paint and lacquers	2 Gases		Not covered
Aerosols – flammable - pesticide	2 Gases		Not covered
Batteries – nickel cadmium	9 Miscellaneous		Not covered
Batteries – other	9 Miscellaneous		Not covered
Batteries – lithium			
Batteries – lead acid			
Fire extinguishers – non-halon	2 Gases		Not covered
Flares	1 Explosives		E
Fluorescent tubes and light fittings	9 Miscellaneous		E
Gas Cylinders – other	2 Gases		E
Gas Cylinders – propane	2 Gases		E
General household chemical e.g. cleaners	9 Miscellaneous		C
Other (not in any of the above)	9 Miscellaneous		E
Low level radioactive substances e.g. smoke detectors	7 Radioactive Material		E
Paint – recyclable	Non DG	P8: Miscellaneous non-DG	Not covered
Paint – water based	Non DG		Not covered
Engine coolants and glycols	Non DG		E
Unknown liquids	9 Miscellaneous	P9: Unknowns	F
Unknown solids	9 Miscellaneous		F

Taken from Appendix 3 of the HHW Guidelines