



Licence Number	L5979/1993/11
Licence Holder	City of Kalgoorlie-Boulder
ACN	NA
File Number:	2012/006907-1
Premises	Yarri Road Refuse Facility Lot 251 on Plan 190202 KALGOORLIE WA 6430
Date of Amendment	14 March 2019

Amendment

The Chief Executive Officer (CEO) of the Department of Water and Environmental Regulation (DWER) has amended the above Licence in accordance with section 59 of the *Environmental Protection Act 1986* as set out in this Amendment Notice. This Amendment Notice constitutes written notice of the amendment in accordance with section 59B(9) of the EP Act and follows.

STEVE CHECKER
MANAGER WASTE INDUSTRIES
REGULATORY SERVICES

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

Definitions and interpretation

Definitions

In this Amendment Notice, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
ACN	Australian Company Number
Amendment Notice	refers to this document
AS 3798-2007	Guidelines on earthworks for commercial and residential developments
AS 1289-5.2.1-2003	Soil compaction and density tests
Category/ Categories/ Cat.	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department Administering the <i>Environmental Protection Act 1986</i> Locked Bag 33 Cloisters Square PERTH WA 6850 info@dwer.wa.gov.au
CS Act	<i>Contaminated Sites Act 2003</i> (WA)
Decision Report	refers to this document
Delegated Officer	an officer under section 20 of the EP Act
DWER	Department of Water and Environmental Regulation
EP Act	<i>Environmental Protection Act 1986</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
Existing Licence	The Licence issued under Part V, Division 3 of the EP Act and in force prior to the commencement of and during this amendment
Licence Holder	City of Kalgoorlie-Boulder
Minister	the Minister responsible for the EP Act and associated regulations
Noise Regulations	<i>Environmental Protection (Noise) Regulations 1997</i> (WA)
Occupier	has the same meaning given to that term under the EP Act.

Prescribed Premises	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Decision Report applies, as specified at the front of this Decision Report.
Risk Event	as described in <i>Guidance Statement: Risk Assessment</i>

Amendment Notice

This amendment is made pursuant to section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the Licence issued under the EP Act for a prescribed premises as set out below. This notice of amendment is given under section 59B (9) of the EP Act.

This notice is limited only to an amendment for the construction of putrescible waste cells 10 and 11 and three tyre monofils (Category 64 and Category 57). No other changes to the aspects of the original Licence have been requested by the Licence Holder.

The following guidance statements have informed the decision made on this amendment:

- *Guidance Statement: Regulatory Principles (July 2015)*
- *Guidance Statement: Setting Conditions (October 2015)*
- *Guidance Statement: Land Use Planning (February 2017)*
- *Guidance Statement: Licence Duration (August 2016)*
- *Guidance Statement: Decision Making (February 2017)*
- *Guidance Statement: Risk Assessment (February 2017)*
- *Guidance Statement: Environmental Siting (November 2016)*

Additional documents used to inform the decision are listed in Appendix 1.

Amendment description

The Yarri Road Refuse Facility is a Class II Putrescible landfill, accepting up to 150,000 tonnes of waste per annum, including mixed municipal solid, commercial, industrial and construction waste. The site was opened in May 1993 and operation of the facility was handed to Grosvenor Lodge AFC via contract on 1 July 1999. The site occupies approximately 64 hectares. The landfill is clay lined.

The following activities are carried out at the landfill:

- Receipt and disposal of household and commercial waste
- Receipt and disposal of Special Waste Type 1
- Receipt and disposal of Special waste Type 2
- Receipt and disposal of Inert Waste Type 1
- Receipt and disposal of Inert Waste Type 2
- Receipt of unprocessed greenwaste
- Mulching of received greenwaste
- Stockpiling of scrap metal car bodies
- Stockpiling of tyres
- Stockpiling of daily cover material
- Stockpiling of white wares

The site is located 7 kilometres north-east of Kalgoorlie-Boulder, with the closest neighbours being the Goldfields Aeromodellers Club Inc. approximately 200 metres south-west, and some rural properties at 900 metres south-east. The closest residential premises are located at Ninga Mia, being approximately 2.5 kilometres (km) to the south-west. The water table depth varies between 19 and 30 metres below ground level.

Compliance history

A review of Annual Environmental Reports and Annual Audit Compliance Reports (AACR) submitted to DWER in 2018 showed that during 2017 the Licence Holder was found to be non-compliant with a few licence conditions.

It was reported in the 2017 AACR that the number of tyres on site have exceeded the approved capacity of 2,500 at any time. The site contractor (Grosvenor Lodge) has been recording the tyres by weighing them, not by unit numbers. Due to this, the licensee self-reported that they have exceeded the 2,500 limit, but did not disclose their current level of tyres.

A targeted inspection of the premises was carried out on 4 October 2018. At the time of the inspection DWER officers determined that there were reasonable grounds to believe that the Licence Holder had failed to comply with licence conditions. It was noted that the Licence Holder was not complying with conditions 1.3.2(b) and 1.3.4 of the licence (quantity and storage requirements). The Licence Holder subsequently provided DWER with a tyre breach management plan detailing management actions and works to ensure that the Premises is again brought into compliance with the licence conditions. The plan included construction of three tyre monofills to bury existing stockpiles of shredded/cut tyres and implementing onsite controls to prevent stockpiling in future.

DWER received an application for a licence amendment on 25 October 2018 to allow for the construction of two putrescible waste cells (cells 10 & 11) and five tyre monofills. Landfill operations will commence in accordance with current site practices following the construction of the putrescible cells.

The following information in relation to the construction of the putrescible waste cells and tyre monofills has been summarised from the application:

Putrescible cells

- earthworks will include excavation of putrescible cells (10 & 11) to approximately 6m below ground level;
- stockpiling soil onsite for future re-use as cover material during landfill operations;
- the new cell footprint area will be approximately 20 000m² for cell 10 and 22 000m² for cell 11;
- Cells will be 6 metres in depth and cell batters will be constructed to minimum safe slopes;
- the cell floor will be graded to improve drainage and reworked with earth moving machinery with the addition of water to ensure that the compacted surface is free from tree roots or flow paths for leachate migration;
- the floor cells will be evenly graded at a minimum 1 in 200 slope away from the active face;
- new perimeter bund will be constructed using the excavated material to a nominal height of 6m above natural surface level to provide a rim for landfilling above ground level and to prevent surface water entering the cells; and
- approximate life for each cell will be 12 months

Tyre monofills

- earthworks will include excavation of tyre monofills (1, 2, 3, 4 & 5) to approximately

- 6m below ground;
- stockpiling soil onsite for future re-use as cover material;
- the footprint area for cell 1 will be approximately 7 000m²;
- the footprint area for cell 2 will be approximately 6 000m²;
- the footprint area for cells 3, 4 and 5 will be approximately 6 500m²;
- tyre disposal to progress into cells 2, 3,4 and 5 upon filling of cell 1 back to natural ground level;
- cells will be 6 metres in depth and cell batters will be constructed to minimum safe slopes;
- the floor will be graded to improve drainage and reworked with earth moving machinery with the addition of water to ensure that the compacted surface is free from tree roots or flow paths for leachate migration;
- the floor cells will be evenly graded at a minimum 1 in 200 slope away from the active face; and
- new perimeter bund will be constructed using the excavated material to a nominal height of 6m above to prevent surface water entering the cells;

Site investigation

- Soil sampling and testing of the in-situ soil was undertaken to determine the permeability of the in-situ soil. The results from the soil test shows that the permeability of the soil is less than 4×10^{-10} metres per second.

The licensee has also requested a number of administrative amendments as outlined below:

- condition 1.3.2, table 1.3.1 (Inert Waste Type 2) – allow 5,000 tyres to be stored onsite instead of 2,500 and to allow disposal of uncut and un-shredded tyres;
- condition 1.3.4, table 1.3.2 – allow tyres to be stored in piles of 500 units six metres apart;
- condition 1.3.4, table 1.3.2 – remove the shredded tyre size limit of 1000 cm²; and
- condition 1.3.4, table 1.3.2 – remove all references of tyres being disposed of to the landfill and replace it with monofil;

Other approvals

The Licence Holder has provided the following information relating to other approvals as outlined in Table 2.

Table 2: Relevant approvals

Legislation	Number	Approval
<i>Environment Protection (Clearing of Native Vegetation) Regulations 2004 (WA)</i>	<i>CPS 8209/1</i>	<i>Clearing permit granted- 8/01/19-8/01/2021-Confirmation by Rochelle Sweeney (Native vegetation Protection Division)</i>
<i>Planning Development Act 2005- City of Kalgoorlie Boulder</i>	<i>NA</i>	<i>No approval required</i>

Amendment history

Table 3 provides the amendment history for L5979/1993/11.

Table 3: Licence amendments

Instrument	Issued	Amendment
L5979/1993/11	29/04/2016	Licence amendment to extend expiry date to 2036.
L5979/1993/11	14/03/2019	Amendment Notice 1: allow for the construction of two putrescible waste cells (10 & 11) and five tyre monofills (1, 2, 3, 4 and 5).

Location and receptors

Table 4 below lists the relevant sensitive land uses in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 4: Receptors and distance from activity boundary

Residential and sensitive premises	Distance from the Prescribed Premises boundary
Closest residential premises	approximately 2.5 km south west
Township	approximately 7 km north-east

Risk assessment

Table 5 and Table 6 below described the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. The table identifies whether the emissions present a material risk to public health or the environment, requiring regulatory controls

Table 5: Risk assessment for proposed amendments during construction

Risk Event						Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities		Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts				
Cat 64/57	Construction of the putrescible waste cells and tyre monofills	Dust: associated with construction activities, Vehicle and equipment movements	Nearest Residence located greater than 2.5 km south-west from the boundary Approximately 7 km north east is the Township	Air / wind dispersion	Health and amenity impacts	Slight	Unlikely	Low	Based on distance to receptors and the daily use of water carts, the Delegated Officer also considers that the provisions of Section 49 of the EP Act are sufficient to regulate dust emissions during Construction. The risk is considered Low and does not require any further regulatory controls.
		Noise: associated with construction activities, Vehicle and equipment movements	Nearest Residence located greater than 2.5 km south-west from the boundary Approximately 7 km north east is the Township	Air / wind dispersion	Health and amenity impacts	Slight	Unlikely	Low	No receptor present in close proximity. The Delegated Officer also considers that the provisions of the Environmental Protection (Noise) Regulations 1997 are sufficient to regulate noise emissions during Construction.

Table 6: Risk assessment for proposed amendments during operation

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	
Source/Activities		Potential emissions	Potential receptors	Potential pathway					Potential adverse impacts
Cat 64/57	Operation of the putrescible waste cells and tyre monofills	Odour: associated with landfilling activities	Nearest Residence located greater than 2.5 km south-west from the boundary Approximately 7 km north east is the Township	Air / wind dispersion	Amenity and health impacts	Slight	Possible	Low	The landfilling operation will possibly generate odours. However the Delegated Officer considers that the provisions of Section 49 of the EP Act are sufficient to regulate odour emissions during operation; therefore the risk is considered Low and does not require any further regulatory controls based on the Licence amendment application.
		Leachate: migrating from the putrescible waste cells: may enter the environment from decomposition of putrescible waste or heavy rainfall events Contaminated Fire Water: In the event of a tyre fire, contaminated firefighting water may enter the environment.	Surrounding land, Groundwater – depth approximately 19m – 30m and surface water drainage system	Seepage or overland flow of leachate	Amenity and health impacts	Minor	Possible	Medium	The Delegated Officer has reviewed the information regarding the risk of leachate migrating and considers that: - The putrescible waste cells and the tyre monofills must be designed and constructed so as to not present an unacceptable risk of contamination of the surrounding land; - Conditions will have to be included that requires design and construction standards to be maintained; and - The soil used in construction of the cells and beneath the landfill displays high clay content and low permeability.
	Fire within the premises resulting in the combustion of	Air emissions	Nearest Residence located greater than 2.5 km south-west from the boundary Approximately 7 km north east is the	Air / wind dispersion	Amenity and health impacts	Minor	Unlikely	Medium	The Delegated Officer has reviewed the information regarding the impact of air emissions generated during a fire and has noted that: Tyre storage limits can reduce

Risk Event						Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities		Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts				
	putrescible waste and whole and shredded tyres		Township and the neighboring industrial premises						the risk of impacts from fire; - Storage of whole and shredded tyres can be regulated through the conditions of the licence; - Existing licence condition 1.3.4 (waste processing) relating to burning of green waste and 1.3.6 which relates to providing cover by end of each working day should be sufficient to control any fire incidents relating to cells 10 and 11 or within the premises; - Existing licence conditions 1.3.12 – 1.3.16 which relates to managing fires on site and having appropriate procedures to extinguish any unauthorized fire should be sufficient to control any fire incidents at the premises - The risk event is acceptable subject to existing regulatory controls.
		Firefighting water-potentially containing pyrolytic oils and perfluorooctanoic acid (PFOA) and per- and poly-fluoroalkyl substances (PFAS)	Soil and groundwater	Discharge to land and stormwater system; infiltration to groundwater will probably not occur due to the very low permeability of the in-situ soil	Land and surface water, contamination.	Minor	Unlikely	Medium	The Delegated Officer has reviewed the information regarding the groundwater impacts from Liquid Emissions From A Tyre Fire and has found that: The perimeter around the tyre storage area will be bunded and in the event of a tyre fire, all firefighting water can be adequately contained, collected and disposed of at a licensed waste facility.

Decision

Cell stability report

Following a request from the Delegated Officer to confirm whether design engineers had modelled slope failure and waste body failure, the Licensee submitted a stability report which included stability assessment of the following:

1. External batter slope of the putrescible waste cell;
2. Internal batter slope of the putrescible waste cell; and
3. Subgrade excavation for the proposed tyre cells,

Key findings:

The **Delegated Officer** has reviewed the stability report and is not able to verify the findings.

Stability of putrescible cells is significant in terms of emissions risk as a failure of the containment infrastructure would be expected to result in increased emissions of waste/leachate. Given the location of the cells in an area of hypersaline groundwater and as liner integrity is not a factor in the event of stability failure (cells are unlined), the consequence of slope/waste body failure is not considered a significant risk in this instance.

Plans submitted for this amendment application are lacking in detail. Internal batter slopes of 1:3 for the putrescible cells have been used in the stability report and will be adopted as a condition.

Stability of inert (e.g tyre) cells is of marginal significance as a failure of the containment infrastructure would only normally result in an increase in emissions if the cell contained contaminated fire-water or similar – which is not considered to be a normal occurrence.

The Delegated Officer does not agree that Factor of Safety result of 'No Solution' for the tyre cell excavation indicates that 'the batter will not slump' as asserted in the report – however as above, the stability of the tyre excavation is considered only marginally significant in relation to risk of impacts from emissions.

Dust controls

The Delegated Officer considers that there is a Low risk of impacts from dust emissions from the proposed amendments, particularly due to the 2.5km separation distance to receptors. The Existing Licence has no conditions which regulate dust emissions and based on the risk assessment for this licence amendment application, the Delegated Officer does not consider additional dust emission conditions are warranted on the amended licence.

A review of DWER records indicates that there have been no dust complaints received by DWER in regards to the Premises.

The Licence Holder will also be subject to the general provisions of the EP Act.

Leachate controls

The Delegated Officer considers that there is a Medium risk of impacts from leachate emissions from the proposed amendment. However this risk is considered acceptable subject to regulatory controls and given the in situ soil permeability expected to be low as supported (not demonstrated) by permeability analysis provided for a single remoulded soil sample of $4 \times 10^{-10} \text{m/s}$.

Noise controls

The Delegated Officer has determined that there is a Low risk of impacts from noise emissions during the construction and operation of the waste cells. The Licence Holder will also be subject to the general provisions of the *Environmental Protection (Noise) Regulations 1997*.

Emissions

The Delegated Officer considers that there is a Medium risk of impacts from fire emissions from the proposed amendment. However this risk is considered acceptable as the Existing Licence includes licence conditions which requires fire-fighting equipment and a Water Cart to be available on site. The tyre storage area will also be bunded and constructed of low-permeability in situ soils to contain any contaminated water from fire fighting. The Delegated Officer does not consider additional fire management conditions are warranted on the amended licence

Odour

The Delegated Officer considers that landfilling activities will possibly generate odour however given no receptors are present in the close proximity there is a Low risk of impacts from odour emissions from the proposed amendments. The Licence Holder will also be subject to the general provisions of the EP Act.

The Delegated Officer has therefore determined that an amendment be made to the licence with the inclusion of additional licence conditions to allow for the construction of two putrescible waste cells (cells 10 & 11) and five tyre monofills.

The Delegated Officer has considered DWER's *Guidance Statement: Regulatory Principles*, *Guidance Statement: Setting Conditions* and *Guidance Statement: Risk Assessment* in granting this amendment, and considers that the proposed activities are consistent with current activities permitted on site will increase risk relating to emissions at the Premises.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 18 January 2019. Comments received from the Licence Holder have been considered by the Delegated Officer as shown in Appendix 7.

Amendment

1. The Licence is amended by the insertion of condition 1.3.17 to 1.3.19 below.

1.3.17 The Licence Holder must install and undertake the Works for the infrastructure and equipment:

specified in Column 1;

to the requirements specified in Column 2; and

at the location specified in Column 3 of Table 1.3.4 below.

Table 1.3.4: Infrastructure and equipment requirements table

Column 1	Column 2	Column 3
Infrastructure/ Equipment	Requirements (design and construction)	Site plan reference
Putrescible cells 10 & 11	The cells must conform to the following specifications: • earthworks must be undertaken in compliance with AS 3798-2007; • must stockpile soil onsite for use as cover material	Appendix 2

Column 1	Column 2	Column 3
Infrastructure/ Equipment	Requirements (design and construction)	Site plan reference
	during landfill operations; - cell 10 footprint area of approximately 20 000m²; - cell 11 footprint area of approximately 22 000m²; - Cells to be no greater than 6 metres in depth ; - the cell floor will must be graded to facilitate drainage and reworked with Earthmoving machinery with the addition of water to ensure that the compacted surface is free from tree roots or flow paths for leachate migration; - the cell floor must be moisture conditioned and compacted to not less than 95% of the maximum dry density when tested in accordance with AS 1289-5.2.1-2003; - the floor cells must be evenly graded at a minimum 1 in 200 slope away from the active face; and - the perimeter bund must be constructed to prevent surface water entering the cells.	
Tyre monofills 1, 2,3, 4 & 5	The cells must conform to the following specifications: - earthworks must be undertaken in compliance with AS 3798-2007; - earthworks must include excavation of tyre monofills (1, 2, 3, 4 and 5) to approximately 6m below ground; - must store soil onsite for use as cover material; - the footprint area for cell 1 must be approximately 7 000m²; - the footprint area for cell 2 must be approximately 6 000m²; - the footprint area for cells 3, 4 and 5 must be approximately 6 500m²; - the floor must be graded to improve drainage and reworked with earth moving machinery with the addition of water to ensure that the compacted surface is free from tree roots or flow paths for leachate migration; - the floor will be moisture conditioned and compacted to not less than 95% of the maximum dry density when tested in accordance with AS 1289-5.2.1-2003; - the cell floors must be evenly graded at a minimum 1 in 200 slope away from the active face; and - the perimeter bund must be constructed to prevent surface water entering the cells.	Appendix 3

1.3.18 *The Licence Holder must not depart from the requirements specified in Column 2 of table 1.3.4 except:*

- a) where such departure does not increase risks to public health, public amenity or the environment; and*
- b) all other Conditions in this Licence are still satisfied.*

1.3.19 *Subject to Condition 1.3.18, within 30 days of the completion of the Works specified in Column 1 of Table 1.3.4, the Licence Holder must provide to the CEO engineering certification from a qualified professional civil or structural engineer confirming each item of infrastructure or component of infrastructure specified in Column 1 of Table 1.3.4 below has been constructed with no material defects and to the requirements*

specified in Column 2.

1.2.19 Where a departure from the requirements specified in Column 2 of Table 1.3.4 occurs and is of a type allowed by Condition 1.3.18, the Licence Holder must provide to the CEO a description of, and explanation for, the departure along with the certification required by Condition 1.3.19.

2. Condition 1.3.2 (Table 1.3.1) of the licence is amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

Table 1.3.1: Waste acceptance		
Waste type	Quantity limit tonnes/ year	Specification ¹
Clean Fill	150,000 tonnes (combined total, excluding Clean Fill and recyclables)	None specified
Inert Waste Type 1		
Putrescible Waste		
Special Waste Type 1		
Special Waste Type 2		
Contaminated Solid Waste		Must meet the acceptance criteria for Class II landfills.
Inert Waste Type 2	2,500 <u>5,000</u> tyres ¹ at any time	<u>Shredded/cut/whole</u> tyres for shredding and disposal to the mono landfill Tyres for storing

Note 1: <http://www.wasteauthority.wa.gov.au/media/files/documents/GN6VoltoTonnes.pdf>

3. Condition 1.3.4 (Table 1.3.2) of the licence is amended by the deletion of the text shown in strike through below and the insertion of the red text shown in underline below:

Table 1.3.2: Waste processing		
Waste type(s)	Process	Process limits ^{1,2}
All	Disposal of waste by landfilling	- Shall only take place within the landfill area shown on the Landfill Area Map in Schedule 1; - No waste shall be temporarily stored or landfilled within 20 metres from the boundary of the premises; - Place waste within a defined trench or within an area enclosed by earthen or other bunds; - Restrict the tipping area to a maximum linear length of 75 metres; - Maintain an undisturbed separation distance of at least three (3) metres between the base of the landfill disposal area to the highest level of groundwater; - Maintain a minimum horizontal distance of at least one-hundred (100) metres between the previously filled areas of the premises or the tipping area and any surface water body; and - Shall manage the active landfill area such that at no time does landfilling result in an exposed face exceeding two (2) metres in vertical height.
Clean Fill	Receipt,	None specified.

Contaminated Solid Waste	handling and disposal by landfilling	
Inert Waste Type 1	Receipt, handing, storage prior to disposal	Crushing and screening of Inert Waste Type 1 is not permitted
Inert Waste Type 2	Receipt, handing, storage prior to disposal	- Tyres to be stored in piles of up to 100 <u>500</u> units stored <u>six metres</u> as far apart as practicable; Whole/shredded/cut tyres are disposed to the monofill; Tyres are shredded to a maximum size of 1000cm² prior to burial; When tyres are only being disposed of to landfill, they are to be covered at regular intervals such that no more than 100 tyres are left exposed at any time; and When tyres are disposed of in combination with domestic waste or general waste, they are not permitted to be disposed of as a proportion greater than one (1) tyre per ten (10m³) cubic metres of waste or one (1%) percent by volume.
Putrescible Waste and/or Green Waste	Receipt, handing, storage prior to disposal	- Only to be stored and sorted on a hard standing area bunded to prevent run-off; - Shall not be stored on the site for longer than 24 hours; - No greater than 5000m³ of green waste shall be stored in any single pile; - All mulched greenwaste shall be stored in windrows; - All green waste storage areas shall be on an impermeable surface; and - A five (5) metre wide buffer shall be maintained around green waste storage areas and each windrow.
	Disposal by burning	Burning of Green Waste only: - to be dried and seasoned for at least 2 months before burning; - to take place in a designated burning area at least 25m from the boundary of any active disposal areas; - to take place in trenches or windrows; - to take place only when an adequate supply of water is available to effectively manage the burning process; - to be burnt in a manner to minimise smoke generation; - ensure burning does not commence before 0800 hours and the Fire Control Officer for the premises declares the area safe by 1700 hours on the same day; and

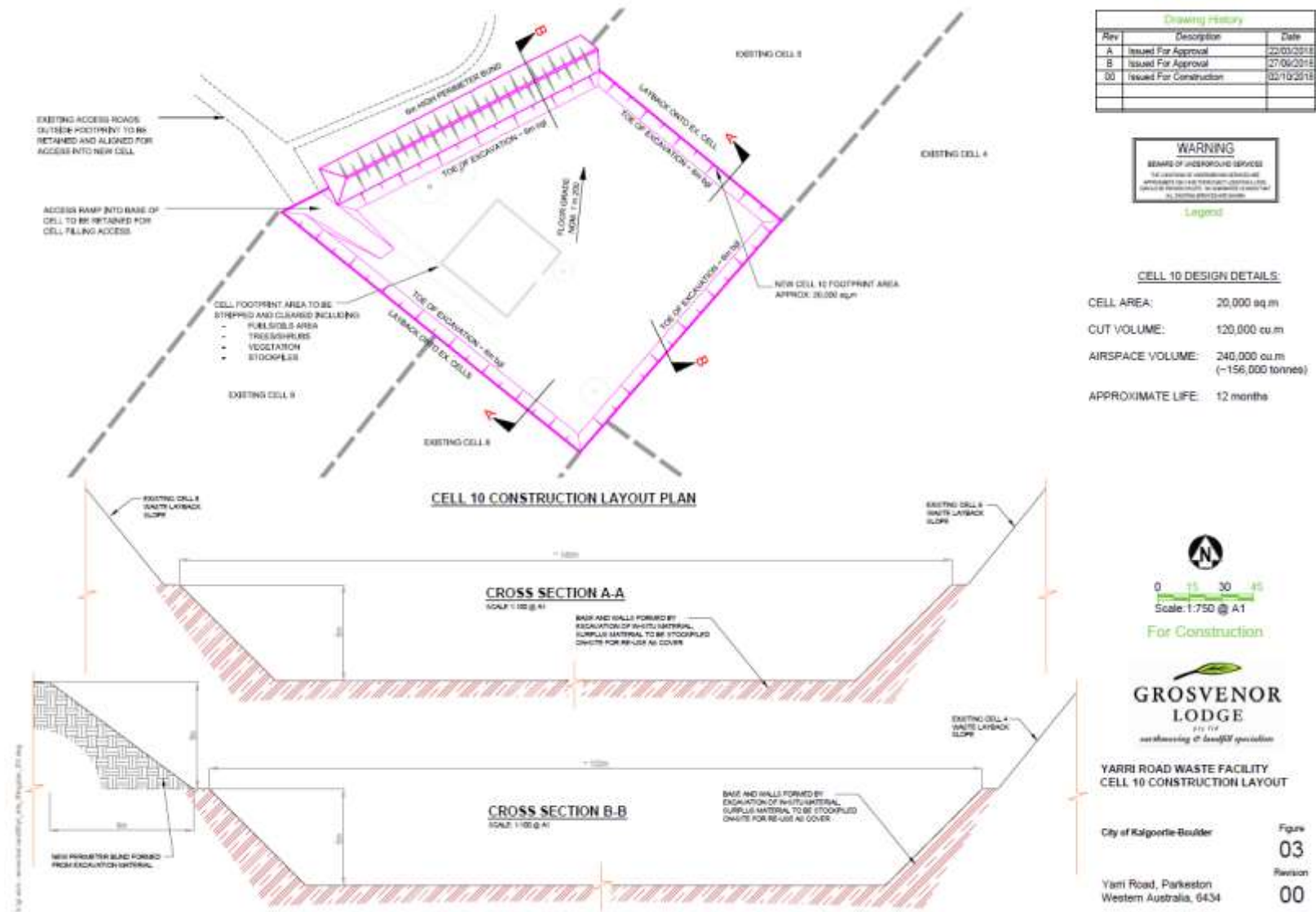
		Advise DFES at least 24 hours prior to burning commencing.
Special Waste Type 1 (Asbestos Waste)	Receipt, handling and disposal by landfilling under the supervision of the Licensee, or person nominated by the Licensee	- Asbestos Waste is only to be disposed of within a designated asbestos waste disposal area within the landfill; - Grid coordinates for all designated asbestos waste disposal areas are to be recorded on a plan. The plan is to be stored within the premises boundary; - The Licensee is to maintain a register of all Asbestos Waste buried on the premises as a permanent record; - Asbestos waste must not be deposited within 2m of the final tipping surface of the landfill; and - No works shall be carried out on the landfill that could lead to a release of asbestos fibres.
Special Waste Type 2	Disposal of waste by landfilling under the supervision of the Licensee, or person nominated by the Licensee	- Only to be disposed of into a designated clinical waste disposal area within the landfill; - Grid coordinates for the designated disposal area are to be recorded on a plan stored within the premises boundary; - Keep a record of the waste received for at least 3 years; - Not to be deposited within 2m of the final tipping surface of the landfill; - No works shall be carried out on the landfill that could lead to clinical wastes being excavated or uncovered. - Restrict access to the landfill site where the waste is buried to authorised personnel only.

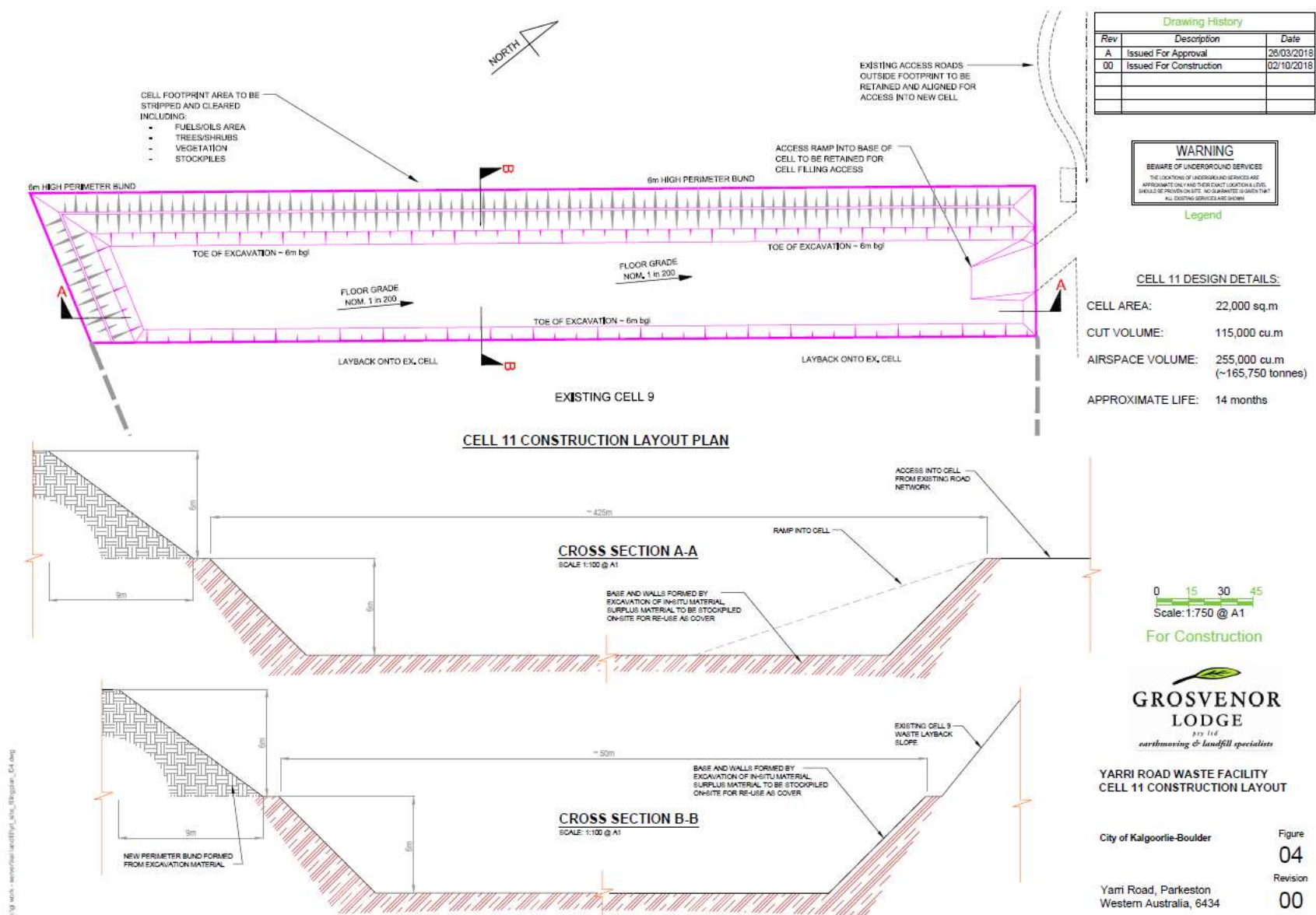
4. The Licence is amended by the addition of the map labeled 'Site layout' in Appendix 4.

Appendix 1: Key documents

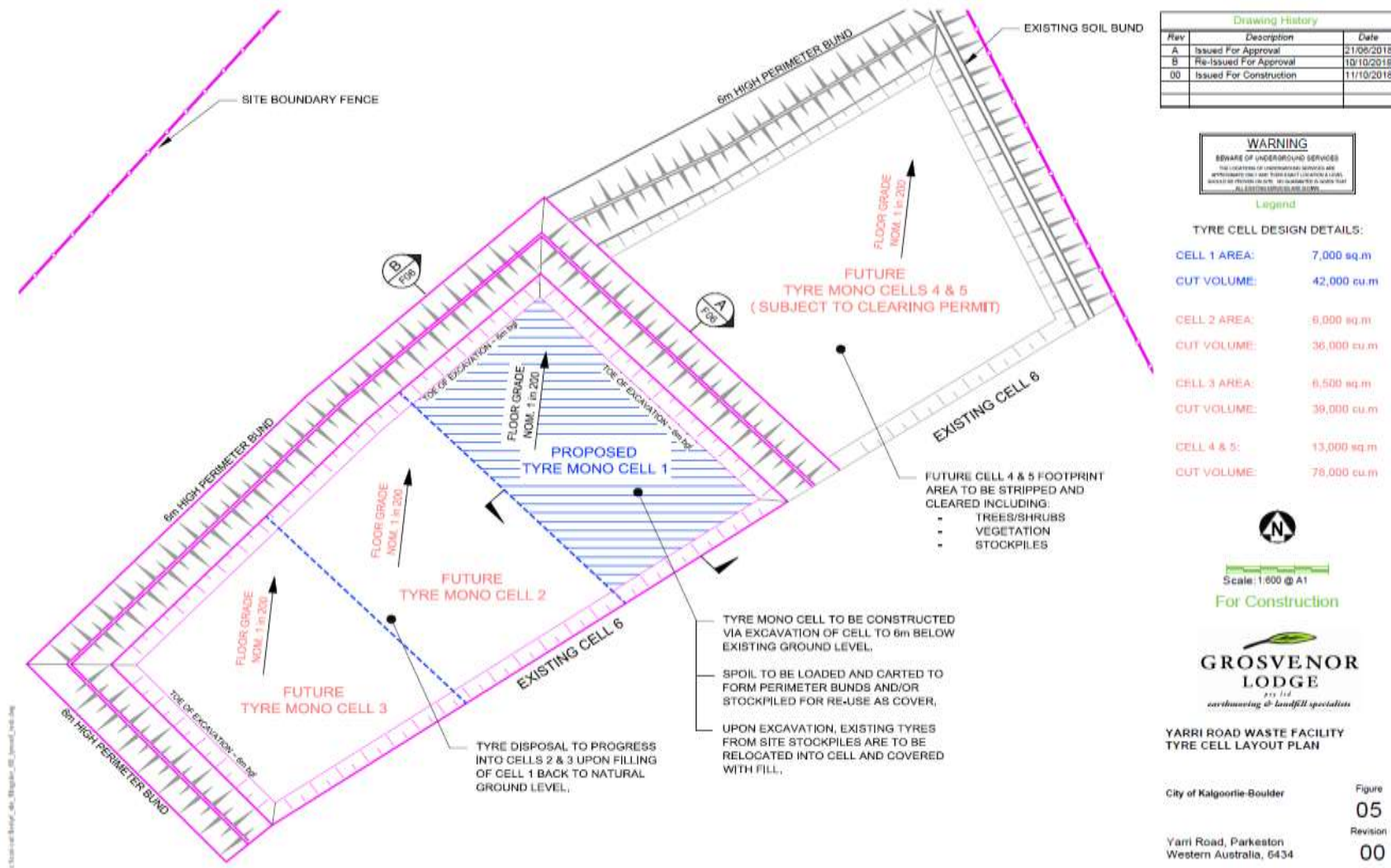
	Document title	Availability
1	Amendment Application Documentation	DWER records
2	L5979/1993/11 Yarri Road Refuse Site	Accessed at www.dwer.wa.gov.au

Appendix 2: Putrescible Cell design

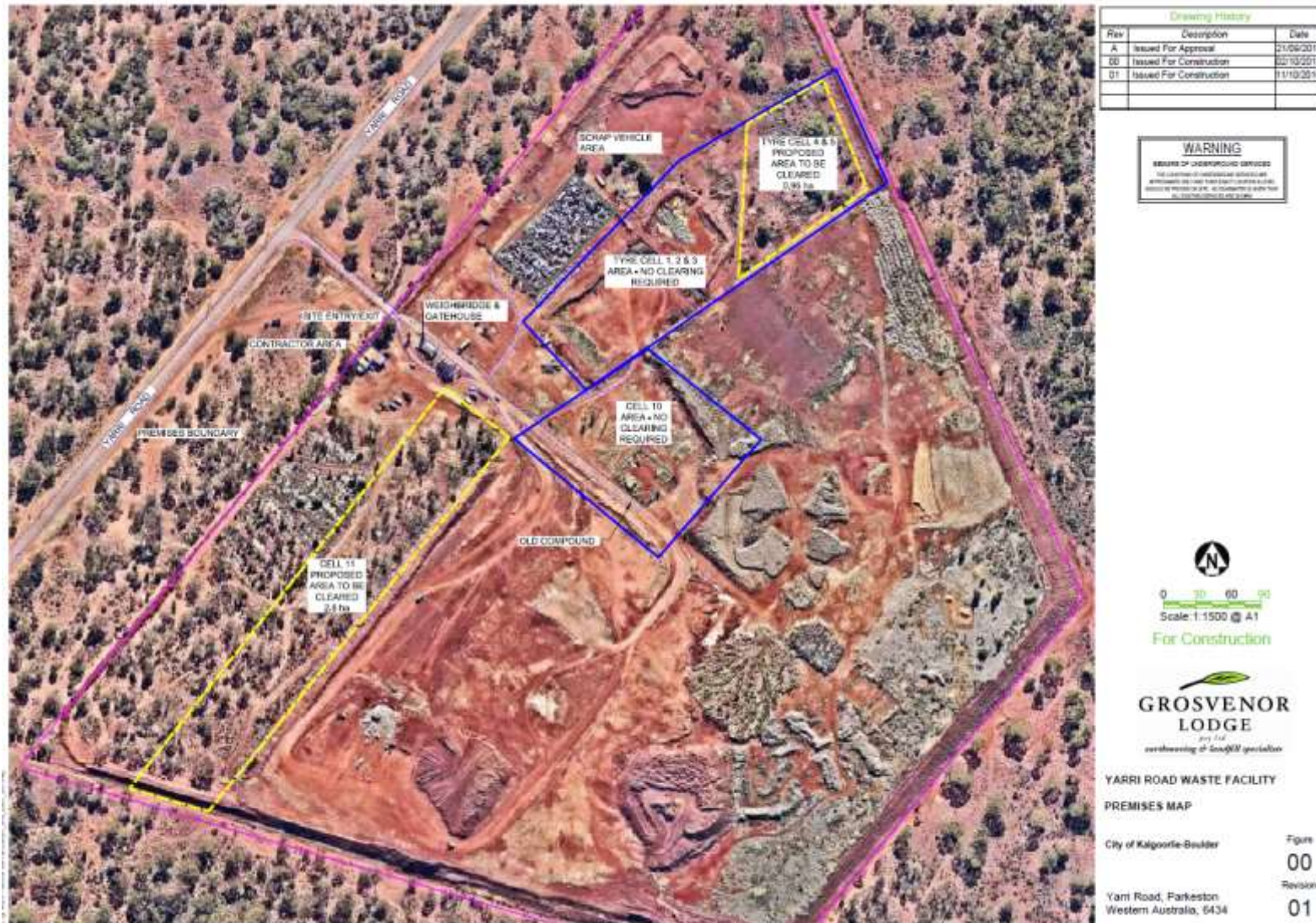




Appendix 3: Tyre monofil design



Appendix 4: Site layout



L5979/1993/11

Appendix 5: Clearing Permit



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: CPS 8209/1
File Number: DWERVT1500
Duration of Permit: 8 January 2019 to 8 January 2021

PERMIT HOLDER

City of Kalgoorlie-Boulder

LAND ON WHICH CLEARING IS TO BE DONE

Lot 251 on Deposited Plan 190202, Parkeston.

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 3.72 hectares of native vegetation within the areas cross hatched yellow on the attached Plan 8209/1.

CONDITIONS

1. **Avoid, minimise and reduce the impacts and extent of clearing**
In determining the amount of native vegetation to be cleared authorised under this Permit, the Permit Holder must have regard to the following principles, set out in order of preference:
 - (a) avoid the clearing of native vegetation;
 - (b) minimise the amount of native vegetation to be cleared; and
 - (c) reduce the impact of clearing on any environmental value.
2. **Weed control**
When undertaking any clearing or other activity authorised under this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds*:
 - (a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
 - (b) ensure that no known *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
 - (c) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.
3. **Records must be kept**
The Permit Holder must maintain the following records for activities done pursuant to this Permit, in relation to the clearing of native vegetation authorised under this Permit:
 - (a) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
 - (b) the date that the area was cleared;
 - (c) the size of the area cleared (in hectares);
 - (d) actions taken to avoid, minimise and reduce the impacts and extent of clearing in accordance with condition 1 of this Permit; and
 - (e) actions taken to minimise the risk of the introduction and spread of *weeds* in accordance with condition 2 of this Permit.
4. **Reporting**
The Permit Holder must provide to the CEO the records required under condition 3 of this Permit, when requested by the CEO.

DEFINITIONS

The following meanings are given to terms used in this Permit:

CEO: means the Chief Executive Officer of the Department responsible for the administration of the clearing provisions under the *Environmental Protection Act 1986*;

fill means material used to increase the ground level, or fill a hollow;

mulch means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation;

weed/s mean any plant -

- (a) that is a declared pest under section 22 of the *Biosecurity and Agriculture Management Act 2007*; or
- (b) published in a Department of Biodiversity, Conservation and Attractions Regional Weed Rankings Summary, regardless of ranking; or
- (c) not indigenous to the area concerned.



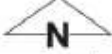
Samara Rogers
MANAGER
NATIVE VEGETATION REGULATION

*Officer delegated under Section 20
of the Environmental Protection Act 1986*

10 December 2018

Plan 8209/1



Legend  Imagery  Clearing Instruments Activities  Local Government Authority  Roads	  1:5,709 (Approximate when reproduced at A4) GDA 94 (Lat/Long) Geocentric Datum of Australia 1994 <i>Samara Rogers</i> 2018.12.10 11:27:35 +08'00' Officer with delegated authority under Section 20 of the Environmental Protection Act 1986  GOVERNMENT OF WESTERN AUSTRALIA WA Crown Copyright 2018
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Appendix 7: Summary of Licence Holder comments

The Licence Holder was provided with the draft Amendment Notice on 18 January 2019 for review and comment. Comments received from the Licence Holder have been considered by the Delegated Officer as shown below.

Condition	Summary of Licence Holder comment	DWER response
1.3.17	Please include the construction of cells 4 and 5 in the specification table as well. Clearance permit number CPS 8209/1 for cell 4 and 5 attached.	The Delegated Officer will allow the construction of cells 4 and 5. Cells 4 and 5 construction information now added to Table 1.3.4: Infrastructure and equipment requirements table.
Appendix 1- Key documents table	Typographical error noted	Corrected
Delegated Officer's request to confirm whether design engineers had modelled slope failure and waste body failure.	Putrescible and tyre cells stability report provided recommending an external waste batter at 1:5 gradient, internal waste batter at 1:3 gradient for the putrescible cells and 1:2 gradient for the tyre cells. All three assessments achieved a safety factor in excess of the DWER requirement of 1:5.	The Delegated Officer has accepted the findings of the stability assessment.