



## Part 1: Application type

### INSTRUCTIONS:

- Completion of this form is a statutory requirement under s.54(1)(a) of the *Environmental Protection Act 1986 (WA) (EP Act)* for works approval applications; s.57(1)(a) for licence and licence renewal applications; s.59B(1)(a) for applications for an amendment; and under r.5B(2)(a) of the *Environmental Protection Regulations 1987 (WA) (EP Regulations)* for applications for registration of premises.
- The instructions set out in this application form are general in nature.
- A reference to 'you' in these instructions is a reference to the applicant.
- The information provided to you by the Department of Water and Environmental Regulation (DWER) in relation to making applications does not constitute legal advice. DWER recommends that you obtain independent legal advice.
- Applicants seeking further information relating to requirements under the EP Act and/or EP Regulations are directed to the Parliamentary Counsel's Office website ([www.legislation.wa.gov.au](http://www.legislation.wa.gov.au)). Schedule 1 of the EP Regulations contains the categories of prescribed premises.
- For prescribed premises where activities fall within more than one category, ALL applicable categories must be identified. This applies for existing prescribed premises seeking renewal or amendment, as well as new prescribed premises.
- The application form must be completed with all relevant information attached. Attachments can be combined and submitted as one or more consolidated documents if desired, provided it is clear which section of the application form the information / attachments relate to. Where attachments are submitted separately, avoid duplicating information. Ensure that any cross-references between the application form and the supporting document(s) are accurate.
- If an application form has been submitted which is incomplete or materially incorrect, the Chief Executive Officer of DWER (CEO) will decline to deal with the application and advise the applicant accordingly.
- On completing this application form, please submit it to DWER in line with the instructions in Part 15 of the form.

1.1 **This is an application for:**  
*[Select one option only. Your application may be returned if multiple options are selected.]*

under Part V, Division 3 of the EP Act.

Please see the:

- [Guideline: Industry Regulation Guide to Licensing](#)
- [Procedure: Prescribed premises works approvals and licences](#)

for more information to assist in understanding DWER's regulatory regime for prescribed premises.

☒ Works approval

☐ Licence

Existing registration number(s): [       ]

Existing works approval number(s): [       ]

☐ Renewal

Existing licence number: [       ]

☐ Amendment

Number of the existing licence or works approval to be amended

☐ Registration (works approval already obtained)

Existing works approval number(s): [       ]

1.2 **For a works approval amendment or licence amendment, are there less than 90 business days until the expiry of the existing works approval or licence?**

Only active instruments can be amended. Applications to amend a works approval or licence must be made 90 business days or more prior to the existing works approval or licence expiring to ensure there is adequate time to assess the amendment.

Yes

☐

1.3 **This application is for the following categories of prescribed premises:**

*(specify all prescribed premises category numbers)*

Category 63

☒

All activities that meet the definition of a prescribed premises as set out in Schedule 1 of the EP Regulations have been specified above (tick, if yes).

**Completion Matrix**

The matrix below explains what sections are required to be completed for different types of applications.

Application form section	New application / registration	Renewal	Amendment
Part 1: Application type	•	•	•
Part 2: Applicant details	•	•	•
Part 3: Premises details	•	•	△
Part 4: Proposed activities	•	•	•
Part 5: Index of Biodiversity Surveys for Assessment and Index of Marine Surveys for Assessment	If required.	If required.	If required.
Part 6: Other DWER approvals	•	•	•
Part 7: Other approvals and consultation	•	•	•
Part 8: Applicant history	•	•	△
Part 9: Emissions, discharges, and waste	•	•	△
Part 10: Siting and location	•	•	△
Part 11: Submission of any other relevant information	•	•	If required.
Part 12: Category checklist(s)	•	•	•
Part 13: Proposed fee calculation	•	•	•
Part 14: Commercially sensitive or confidential information	•	•	•
Part 15: Submission of application	•	•	•
Part 16: Declaration and signature	•	•	•
Attachment 1A: Proof of occupier status	•	•	N/A
Attachment 1B: ASIC company extract	•	•	N/A
Attachment 1C: Authorisation to act as a representative of the occupier	•	•	•
Attachment 2: Premises map/s	•	•	△
Attachment 3A: Environmental commissioning plan	If required.	N/A	If required
Attachment 3B: Proposed activities	•	•	△
Attachment 3C: Map of area proposed to be cleared (only applicable if clearing is proposed)	•	•	•
Attachment 3D: Additional information for clearing assessment	If required.	If required.	If required.
Attachment 4: Marine surveys (only applicable if marine surveys included in application)	•	•	•
Attachment 5: Other approvals and consultation documentation	•	•	△
Attachment 6A: Emissions and discharges	If required.	If required.	If required.
Attachment 6B: Waste acceptance	If required.	If required.	If required.
Attachment 7: Siting and location	•	•	△
Attachment 8: Additional information submitted	If required.	If required.	If required.
Attachment 9: Category-specific checklist(s)	•	If required.	If required.
Attachment 10: Proposed fee calculation	•	•	•
Attachment 11: Request for exemption from publication	If required.	If required.	If required.

**Key:**

• Must be completed / submitted.

△ To the extent changed / required in relation to the amendment.

N/A Not required with application, but may be requested subsequently depending on DWER records.

"If required" Sections for applicants to determine.



**Part 2: Applicant details****INSTRUCTIONS:**

- The applicant (the occupier of the premises) must be an individual(s), a company, body corporate, or public authority, but not a partnership, trust, or joint-venture name. Applications made by or on behalf of business names or unincorporated associations will not be accepted.
- If applying as an individual, your full legal name must be provided.
- If applying as a company, body corporate, or public authority, the full legal entity name must be inserted.
- Australian Company Number's (ACN) must be provided for all companies or body corporates.
- DWER prefers to send all correspondence electronically via email. We request that you consent to receiving all correspondence relating to instruments and notices under Part V of the EP Act (Part V documents) electronically via email, by indicating your consent in Section 2.3.
- Companies or body corporates making an application must nominate an authorised representative from within their organisation. Proof of authorisation must be submitted with the application (see Section 2.10). If you are applying as an individual, you are the representative.
- Details of a contact person must be provided for DWER enquiries in relation to your application. This contact person can be a consultant if authorised to represent the applicant. Written evidence of this authorisation must be provided.
- Details of the occupier of the premises must be provided. One of the options must be selected and if you have been asked to specify, please provide details. For example, if 'lease holder' has been selected, please specify the type of lease (for example, pastoral lease, mining lease, or general lease) and provide a copy of the lease document(s). Note that contracts for sale of land will not be sufficient evidence of occupancy status.

2.1	<b>Applicant name/s (full legal name/s):</b> The proposed holder of the works approval, licence or registration.	The Valleys Bullsbrook Pty Ltd		
	<b>ACN (if applicable):</b>	636 954 357		
2.2	<b>Trading as (if applicable):</b>	The Valleys Bullsbrook		
2.3	<b>Authorised representative details:</b> The person authorised to receive correspondence and Part V documents on behalf of the applicant under the EP Act.  Where 'yes' is selected, all correspondence will be sent to you via email, to the email address provided in this section.  Where 'no' has been selected, Part V documents will be posted to you in hard copy to the postal / business address specified in Section 2.4, below. Other general correspondence may still be sent to you via email.	Name		
		Position		
		Telephone		
		Email		
		<i>I consent to all written correspondence between myself (the applicant) and DWER, regarding the subject of this application, being exclusively via email, using the email address I have provided above.</i>	Yes	No
			<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.4	<b>Registered office address, as registered with the Australian Securities and Investments Commission (ASIC):</b> This must be a physical address to which a Part V document may be delivered.	122 Main Street OSBORNE PARK WA 6017		
2.5	<b>Postal address for all other correspondence:</b> If different from Section 2.4.	As above		

Part 2: Applicant details				
2.6	<b>Contact person details for DWER enquiries relating to the application (if different from the authorised representative):</b>  For example, could be a consultant or a site-based employee.	Name	As above	
		Position		
		Organisation		
		Address		
		Telephone		
		Email		
2.7	<b>Occupier status:</b>  Occupier is defined in s.3 of the EP Act and includes a person in occupation or control of the premises, or occupying a different part of the premises whether or not that person is the owner.  Note: if a lease holder, the applicant must be the holder of an executed lease, not just an agreement to lease.	Registered proprietor on certificate of title.		<input type="checkbox"/>
		Lease holder (please specify, including date of expiry of lease).		<input type="checkbox"/>
		Public authority that has care, control, or management of the land.		<input type="checkbox"/>
		Other evidence of legal occupation or control (please specify – for example, joint venture operating entity, contract, letter of operational control, or other legal document or evidence of legal occupation).		<input checked="" type="checkbox"/>
		The occupier has a Letter of Consent to Occupy, dated 1/11/2019, which has previously been provided to the DWER.		
<b>Attachments</b>			<b>N/A</b>	<b>Yes</b>
2.8	<b>Attachment 1A: Proof of occupier status</b>	Copies of certificate of title, lease, or other instruments evidencing proof of occupier status, including the expiry date or confirmation that there is no expiry date, have been provided and labelled as Attachment 1A.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.9	<b>Attachment 1B: ASIC company extract</b>	A current company information extract (not the company information summary) purchased from the ASIC website(s) for all new applications / registrations has been provided and labelled as Attachment 1B.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.10	<b>Attachment 1C: Authorisation to act as representative of the occupier</b>	A copy of the documentation authorising the applicant to act on the occupier's behalf as their authorised agent/representative has been provided and labelled as Attachment 1C.	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Part 3: Premises details				
3.1	<b>Premises description (whole or part to be specified):</b> Include the land description (volume and folio number, lot, or location number/s); Crown lease or reserve number; pastoral lease number; or mining tenement number (as appropriate), of all properties, as shown on title details registered with Landgate.	Part of Lot 903 on Deposited Plan 424344		
	<b>Premises street address</b> Include the suburb.	2510 Great Northern Highway Bullsbrook WA 6084		
	<b>Premises name (if applicable):</b>	The Valleys Bullsbrook Landfill Facility		
3.2	<b>Local Government Authority area:</b> City, Town, or Shire.	City of Swan		
3.3	<b>GPS (latitude and longitude) coordinates:</b> GPS coordinates determined using the GDA 2020 (Geographic latitude / longitude) coordinate system and datum must be provided for all points around the proposed premises boundary, where the entirety of the cadastre (land parcel) or mining tenements are not used as the premises boundary.	31° 40' 11" S 116° 02' 55" E		
<b>Attachments</b>			<b>N/A</b>	<b>Yes</b>
3.4	<b>Attachment 2: Premises map(s)</b> You must provide as an attachment to this application form, labelled Attachment 2, either: <ol style="list-style-type: none"> <li>an aerial photograph, map, and site plan of sufficient scale showing the proposed prescribed premises boundary</li> <li>or</li> <li>where available, a map of the proposed premises boundary and site plan as an ESRI shapefile (accepted file types include .dbf, .shp, .prj, and .shx) with the following properties (provided on a suitable portable digital storage device, if submitting application in hard copy form):               <ul style="list-style-type: none"> <li>Geometry type: Polygon Shape</li> <li>Coordinate system: GDA 2020 (Geographic latitude / longitude)</li> <li>Datum: GDA 2020 (Geocentric Datum of Australia 2020).</li> </ul> </li> </ol> You must also provide a map or maps of the prescribed premises, clearly identifying and labelling: <ul style="list-style-type: none"> <li>layout of key infrastructure and buildings, clearly labelled;</li> <li>the premises boundary (where the premises boundary does not align with the entirety of the cadastral boundary, identify the Lot Number for which the premises is part of);</li> <li>emission and discharge points (with precise GPS coordinates where available);</li> <li>monitoring points (with precise GPS coordinates where available);</li> <li>sensitive receptors and land uses</li> <li>all areas proposed to be cleared (if applicable).</li> </ul> Maps must contain a north arrow, clearly marking the area in which the activities are carried out. The map or maps must be of reasonable clarity and have a visible scale.	<input checked="checked" type="checkbox"/>	<input type="checkbox"/>	



**Part 4: Proposed activities****INSTRUCTIONS:**

- You must provide a description and the scope, size and scale of all prescribed activities of Schedule 1 to the EP Regulations including the maximum production or design capacity of each prescribed activity.
- If applying for a works approval or licence amendment involving the construction of new infrastructure, you must provide information on infrastructure to be constructed and how long construction is expected to take. You must confirm if commissioning is to occur and how long it will take.
- If applying for a works approval or licence amendment *not* involving the construction of new infrastructure, provide details of the proposed amendment.
- You must identify all emission sources on the premises map/s.
- You must also provide information on activities which directly relate to the prescribed premises category which have, or are likely to result in, an emission or discharge.
- If clearing activities are proposed provide a description and details. If a relevant exemption under Schedule 6 of the EP Act or r.5 of the Environmental Protection (Clearing of Native Vegetation) Regulations 2004 (WA) (Clearing Regulations) may apply, provide details.
- Note that in some cases, DWER may require that the clearing components of a works approval or licence (or amendment) application be submitted separately through the clearing permit application process. Refer to the [Procedure: Prescribed premises works approvals and licences](#) for further guidance.
- Please note that the requested information is critical to DWER's understanding of the proposed activities. The more accurate, specific, and complete the information provided in the application, the less uncertainty that DWER may identify in the application, therefore facilitating completion of the assessment in a more efficient and timely manner.

**4.1 Prescribed premises infrastructure and equipment**

In Table 4.1 (below), provide a list of all items of infrastructure and equipment within the boundary of the prescribed premises relevant to this application, and include the following details for each:

- relevant categories (if known) – the categories of prescribed premises (as listed under Schedule 1 of the EP Regulations) that relate to that infrastructure or equipment;
- site plan reference – the location of that infrastructure or equipment (with reference to the site plan map or maps provided above in Section 3.4 and labelled as Attachment 2 – e.g. use GPS coordinates or a clear description such as “labelled as [label on premises map] on Map A”);
- is it critical containment infrastructure (CCI)? – indicate if the identified infrastructure or equipment would be categorised as CCI. Refer to the [Guideline: Industry Regulation Guide to Licensing](#) for further information on CCI; and
- is environmental commissioning required? – indicate if environmental commissioning is intended to be undertaken for that item of infrastructure or equipment. Refer to the [Guideline: Industry Regulation Guide to Licensing](#) for further information on environmental commissioning.

Add additional rows to Table 4.1 (below) as required.

**Table 4.1: Infrastructure and equipment**

	Infrastructure and equipment	Relevant categories (if known)	Site plan reference	CCI? (mark if yes)	Environmental commissioning? (mark if yes)
1.	Refer to the attached application Supporting Document			<input type="checkbox"/>	<input type="checkbox"/>
2.				<input type="checkbox"/>	<input type="checkbox"/>
3.				<input type="checkbox"/>	<input type="checkbox"/>
4.				<input type="checkbox"/>	<input type="checkbox"/>
5.				<input type="checkbox"/>	<input type="checkbox"/>
6.				<input type="checkbox"/>	<input type="checkbox"/>
7.				<input type="checkbox"/>	<input type="checkbox"/>
8.				<input type="checkbox"/>	<input type="checkbox"/>
9.				<input type="checkbox"/>	<input type="checkbox"/>
10.				<input type="checkbox"/>	<input type="checkbox"/>



Part 4: Proposed activities		
4.2	<p><b>Detailed description of proposed activities or proposed changes (if an amendment):</b>            You must provide details of proposed activities relevant to this application within the boundary of the prescribed premises, identifying:</p> <ul style="list-style-type: none"> <li>• scope, size, and scale of the project, including details as to production or design capacity (and/or frequency, if applicable);</li> <li>• key infrastructure and equipment;</li> <li>• description of processes or operations (a process flow chart may be included as an attachment);</li> <li>• emission / discharge points;</li> <li>• locations of waste storage or disposal</li> <li>• activities occurring during construction, environmental commissioning, and operation (if applicable).</li> </ul> <p>If assessment and imposition of conditions to allow environmental commissioning to be undertaken are requested, please provide an environmental commissioning plan as Attachment 3A (see 4.11 below).            Additional information relating to the proposed activities may be included in Attachment 3B (see 4.12 below).</p> <p><b>Construction activities (if applicable):</b>            Refer to the attached application Supporting Document</p> <p><b>Environmental commissioning activities (if applicable):</b>            Refer to the <a href="#">Guideline: Industry Regulation Guide to Licensing</a> for further guidance.            Not applicable.</p> <p><b>Time limited operations activities (if applicable):</b>            Different elements of the premises may require time limited operations to commence at different times. In these circumstances, please specify the infrastructure and/or equipment for which time limited operations authorisation is being applied for.            If time limited operations are expected to differ from future licensed operations, specify how and why this would be the case.            Refer to the <a href="#">Guideline: Industry Regulation Guide to Licensing</a> for further guidance.            Not applicable.</p> <p><b>Operations activities (for a licence):</b>            Not applicable.</p>	
4.3	<b>Estimated operating period of the project / premises (e.g. based on estimated infrastructure life):</b>	Not applicable.
4.4	<b>Proposed date(s) for commencement of works (if applicable):</b>	2026/2027
4.5	<p><b>Proposed date(s) for conclusion of works construction (if applicable):</b>            This date should coincide with the submission to DWER of an Environmental Compliance Report(s) and/or a Critical Containment Infrastructure Report(s) as required.            Refer to the <a href="#">Guideline: Industry Regulation Guide to Licensing</a>.</p>	2028/2029
4.6	<p><b>Proposed date(s) for environmental commissioning of works (if applicable):</b>            Refer to the <a href="#">Guideline: Industry Regulation Guide to Licensing</a>.</p>	Not applicable.
4.7	<p><b>Proposed date/s for commencement of time limited operations under works approval (if applicable):</b>            Refer to the <a href="#">Guideline: Industry Regulation Guide to Licensing</a>.</p>	Not applicable.

Part 4: Proposed activities				
4.8	<b>Maximum production or design capacity for each category applied for (based on infrastructure operating 24 hours a day, 7 days a week):</b> Provide figures for all categories listed in Section 1.2. Units of measurement must be the same as the units of measurement associated with the relevant category as identified in Schedule 1 of the EP Regulations.		Not applicable.	
4.9	<b>Estimated / actual throughput for each category applied for:</b> Provide figures for all categories listed in Section 1.2. Units of measurement must be the same as the units of measurement associated with the relevant category as identified in Schedule 1 of the EP Regulations.		Not applicable.	
Attachments			N/A	Yes
4.10	<b>Attachment 2: Premises map</b>	Emission/discharge points are clearly labelled on the map/s required for Part 3.4 (Attachment 2).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.11	<b>Attachment 3A: Environmental commissioning plan</b>	<p>If applying to construct works or install equipment, and environmental commissioning of the works or equipment is planned, an environmental commissioning plan has been included in Attachment 3A.</p> <p>The environmental commissioning plan is expected to include, at minimum, identification of:</p> <ul style="list-style-type: none"> <li>the sequence of commissioning activities to be undertaken, including details on whether they will be done in stages;</li> <li>a summary of the timeframes associated with the identified sequence of commissioning activities;</li> <li>the inputs and outputs that will be used in the commissioning process;</li> <li>the emissions and/or discharges expected to occur during commissioning;</li> <li>the emissions and/or discharges that will be monitored and/or confirmed to establish or test a steady-state operation (e.g. identifying emissions surrogates, etc.), including a detailed emissions monitoring program for the measurement of those emissions and/or discharges;</li> <li>the controls (including management actions) that will be put in place to address the expected emissions and/or discharges;</li> <li>any contingency plans for if emissions exceedances or unplanned emissions and/or discharges occur;</li> <li>how any of the above would differ from standard operations once commissioning is complete.</li> </ul> <p>Note that DWER will not include conditions on a granted instrument that authorise environmental commissioning activities where it is not satisfied that the risks associated with environmental commissioning can be adequately addressed.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.12	<b>Attachment 3B: Proposed activities</b>	Additional information relating to the proposed activities has been included in Attachment 3B (if required).	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Clearing activities</b>				
4.13 to 4.19 are only required if the application includes clearing of native vegetation.				
4.13	<b>Proposed clearing area (hectares and/or number of individual trees to be removed):</b>		Not applicable.	
4.14	<b>Details of any relevant exemptions:</b> Refer to DWER's <a href="#">A guide to the exemptions and regulations for clearing native vegetation</a> .		Not applicable.	
4.15	<b>Proposed method of clearing:</b>		Not applicable.	



Part 4: Proposed activities				
4.16	Period within which clearing is proposed to be undertaken: For example, May 2020 – June 2020.		Not applicable.	
4.17	Purpose of clearing: Not applicable.			
Clearing activities – Attachments			N/A	Yes
4.18	Attachment 3C: Map of area proposed to be cleared	<p>You must provide:</p> <p>an aerial photograph or map of sufficient scale showing the proposed clearing area and prescribed premises boundary OR</p> <p>if you have the facilities, a suitable portable digital storage device of the area proposed to be cleared as an ESRI shapefile with the following properties:</p> <ul style="list-style-type: none"> <li>Geometry type: Polygon Shape</li> <li>Coordinate system: GDA 2020 (Geographic latitude / longitude)</li> <li>Datum: 2020 1994 (Geocentric Datum of Australia 2020).</li> </ul>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.19	Attachment 3D: Additional information for clearing assessment	Additional information to assist in the assessment of the clearing proposal may be attached to this application (for example, reports on salinity, fauna or flora studies or other environmental reports conducted for the site).	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Part 5: Index of Biodiversity and Marine Surveys for Assessments (IBSA and IMSA)				
<b>INSTRUCTIONS:</b>				
<ul style="list-style-type: none"> <li>Biodiversity surveys should be submitted through the IBSA Submissions Portal at <a href="https://ibsasubmissions.dwer.wa.gov.au">ibsasubmissions.dwer.wa.gov.au</a></li> <li>Biodiversity surveys submitted to support this application must meet the requirements of the EPA's <i>Instructions for the preparation of data packages for the Index of Biodiversity Surveys for Assessments (IBSA)</i>.</li> <li>Marine surveys submitted to support this application must meet the requirements of the EPA's <i>Instructions for the preparation of data packages for the Index of Marine Surveys for Assessments (IMSA)</i>.</li> <li>If these requirements are not met, DWER will decline to deal with the application.</li> </ul>				
Attachments			N/A	Yes
5.1	<b>Biodiversity surveys</b> Please provide the IBSA number(s) (or submission number(s) if IBSA number has not yet been issued) in the space provided.  Note that a submission number is not confirmation of acceptance of a biodiversity survey and is not the same as an IBSA number. IBSA numbers are only issued once a survey has been accepted. Once an IBSA number is issued, please notify the department.	All biodiversity surveys submitted with this application meet the requirements of the EPA's <a href="#">Instructions for the preparation of data packages for the Index of Biodiversity Surveys for Assessments (IBSA)</a> .  Submission number(s)  IBSA number(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.2	Attachment 4: Marine surveys	All marine surveys submitted with this application meet the requirements of the EPA's <a href="#">Instructions for the preparation of data packages for the Index of Marine Surveys for Assessments (IMSA)</a> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Part 6: Other DWER approvals****INSTRUCTIONS:**

- If you have applied, or intend to apply, for other approvals within DWER that may be relevant to this application, you must provide relevant details.
- If you have referred, or intend to refer, your proposal to the Environmental Protection Authority (EPA), you must provide the requested details.

**Pre-application scoping**

6.1 Have you had any pre-application / pre-referral / scoping meetings with DWER regarding any planned applications?

☒ No

☐ Yes – provide details:

**Environmental impact assessment (Part IV of the EP Act)**

6.2 Have you referred or do you intend to refer the proposal to the EPA?

Section 37B(1) of the EP Act defines a 'significant proposal' as "a proposal likely, if implemented, to have a significant effect on the environment".

If DWER considers that the proposal in this application is likely to constitute a 'significant proposal', DWER is required under s.38(5) of the EP Act to refer the proposal to the EPA for assessment under Part IV, if such a referral has not already been made.

If a relevant Ministerial Statement already exists, please provide the MS number in the space provided.

☐ Yes (referred) – reference (if known): [       ]

☐ Yes – intend to refer (proposal is a 'significant proposal') ☐ Yes – intend to refer (proposal will require a s.45C amendment to the current Ministerial Statement): MS [       ]

☐ No – a valid Ministerial Statement applies: MS [       ]

☒ No – not a 'significant proposal'

**Clearing of native vegetation (Part V Division 2 of the EP Act and Country Area Water Supply Act 1947)**

6.3 Have you applied or do you intend to apply for a native vegetation clearing permit?

In accordance with the [Guideline: Industry Regulation Guide to Licensing](#) and [Procedure: Native vegetation clearing permits](#), where clearing of native vegetation:

- is exempt under Schedule 6 of the EP Act or the Environmental Protection (Clearing of Native Vegetation) Regulations 2004 (WA) (refer to [A guide to the exemptions and regulations for clearing native vegetation](#))
- is being assessed by a relevant authority which would lead to an exemption under Schedule 6 of the EP Act, or
- has been referred under s.51DA of the EP Act and a determination made that a clearing permit is not required (refer to the [Guideline: Native vegetation clearing referrals](#)),

the clearing will not be reassessed by DWER or be subject to any additional controls by DWER.

If the proposed clearing action is to be assessed in accordance with, or under, an *Environment Protection and Biodiversity Conservation Act* (Cth) (EPBC Act) accredited process, such as the assessment bilateral agreement, the clearing permit application [Form Annex C7 – Assessment bilateral agreement](#) must be completed and attached to your clearing permit application.

☐ Yes – clearing application reference (if known): CPS [       ]

☐ Yes – a valid EP Act clearing permit already applies: CPS [       ]

☐ No – this application includes clearing (please complete Sections 4.13 to 4.19 above)

☒ No – permit not required (no clearing of native vegetation)

☐ No – permit not required (clearing referral decision): CPS [       ]

☐ No – an exemption applies (explain why):



**Part 6: Other DWER approvals****6.4 Have you applied or do you intend to apply for a Country Area Water Supply Act 1947 licence?**

If a clearing exemption applies in a *Country Area Water Supply Act 1947* (CAWS Act) controlled catchment, or if compensation has previously been paid to retain the subject vegetation, a CAWS Act clearing licence is required.

If yes, contact the relevant DWER regional office for a Form 1 *Application for licence*.

[Map of CAWS Act controlled catchments](#)

☐ Yes – application reference (if known): [            ]

☐ No – a valid licence applies: [            ]

☒ No – licence not required

**Water licences and permits (*Rights in Water and Irrigation Act 1914*)****6.5 Have you applied, or do you intend to apply for:**

1. a licence or amendment to a licence to take water (surface water or groundwater); or
2. a licence to construct wells (including bores and soaks); or
3. a permit or amendment to a permit to interfere with the bed and banks of a watercourse?

For further guidance on water licences and permits under the *Rights in Water and Irrigation Act 1914*, refer to the [Procedure: Water licences and permits](#).

☐ Yes – application reference (if known): [            ]

☐ No – a valid licence / permit applies: [            ]

☐ No – an exemption applies (explain why):

☒ No – licence / permit not required

**Part 7: Other approvals and consultation****INSTRUCTIONS:**

- Please provide copies of all relevant documentation indicated below, including any conditions, exclusions, or expiry dates.
- “Major Project” means:
  - A State Development Project, where the lead agency is the Department of Jobs, Tourism, Science and Innovation (including projects to which a State Agreement applies); or
  - A Level 2 or 3 proposal, as defined in the Department of Premier and Cabinet's [Lead Agency Framework](#).

	N/A	No	Yes
<b>7.1 Is the proposal a Major Project?</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>7.2 Is the proposal subject to a State Agreement Act?</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
If yes, specify which Act:			
<b>7.3 Has the proposal been allocated to a “Lead Agency” (as defined in the <a href="#">Lead Agency Framework</a>)?</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
If yes, specify Lead Agency contact details:			
<b>7.4 Has the proposal been referred and/or assessed under the EPBC Act (Commonwealth)?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If yes, please specify referral, assessment and/or approval number:			
<b>7.5 Has the proposal obtained all relevant planning approvals?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If planning approval is necessary but has not been obtained, please provide details indicating why:			
If planning approval is not necessary, please provide details indicating why:			

Part 7: Other approvals and consultation				
7.6	For renewals or amendment applications, are the relevant planning approvals still valid (that is, not expired)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.7	Has the proposal obtained all other necessary statutory approvals (not including any other DWER approvals identified in Part 6 of this application)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If no, please provide details of approvals already obtained, outstanding approvals, and expected dates for obtaining these outstanding approvals:				
		N/A	No	Yes
7.8	Has consultation been undertaken with parties considered to have a direct interest in the proposal (that is, interested parties or persons who are considered to be directly affected by the proposal)? DWER will give consideration to submissions from interested parties or persons in accordance with the <a href="#">Guideline: Industry Regulation Guide to Licensing</a> .	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Attachments			N/A	Yes
7.9	Attachment 5: Other approvals and consultation documentation	Details of other approvals specified in Part 7 of this application, including copies of relevant decisions and any consultation undertaken with direct interest stakeholders have been provided and labelled Attachment 5.		<input checked="" type="checkbox"/> <input type="checkbox"/>

Part 8: Applicant history				
<b>Note:</b> <ul style="list-style-type: none"> <li>DWER will undertake an internal due diligence of the applicant's fitness and competency based on DWER's compliance records and the responses to Part 8 of the form.</li> <li>If you wish to provide additional information for DWER to consider in making this assessment, you may provide that information as a separate attachment (see Part 11).</li> </ul>				
		N/A	No	Yes
8.1	If the applicant is an individual, has the applicant previously held, or do they currently hold, a licence or works approval under Part V of the EP Act?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.2	If the applicant is a corporation, has any director of that corporation previously held, or do they currently hold, a licence or works approval under Part V of the EP Act?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.3	If yes to 8.1 or 8.2 above, specify the name of company and/or licence or works approval number:			
8.4	If the applicant is an individual, has the applicant ever been convicted, or paid a penalty, for an offence under a provision of the EP Act, its subsidiary legislation, or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.5	If the applicant is a corporation, has any director of that corporation ever been convicted, or paid a penalty, for an offence under a provision of the EP Act, its subsidiary legislation, or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.6	If the applicant is a corporation, has any person concerned in the management of the corporation, as referred to in s.118 of the EP Act, ever been convicted of, or paid a penalty, for an offence under a provision of the EP Act, its subsidiary legislation, or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.7	If the applicant is a corporation, has any director of that corporation ever been a director of another corporation that has been convicted, or paid a penalty, for an offence under a provision of the EP Act, its subsidiary legislation, or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Part 8: Applicant history				
8.8	With regards to the questions posed in 8.4 to 8.7 above, have any legal proceedings been commenced, whether convicted or not, against the applicant for an offence under a provision of the EP Act, its subsidiary legislation, or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.9	Has the applicant had a licence or other authority suspended or revoked due to a breach of conditions or an offence under the EP Act or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.10	If the applicant is a corporation, has any director of that corporation ever had a licence or other authority suspended or revoked due to a breach of conditions or an offence under the EP Act or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.11	If the applicant is a corporation, has any director of that corporation ever been a director of another corporation that has ever had a licence or other authorisation suspended or revoked due to a breach of conditions or an offence under the EP Act or similar environmental protection or health-related legislation in Western Australia or elsewhere in Australia?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.12	If yes to any of 8.4 to 8.11 above, you must provide details of any charges, convictions, penalties paid for an offence, and/or licences or other authorisations suspended or revoked:			

Part 9: Emissions, discharges, and waste						
<b>INSTRUCTIONS:</b> <ul style="list-style-type: none"> <li>Please see <a href="#">Guideline: Risk Assessments</a> and provide all information relating to emission sources, pathways and receptors relevant to the application.</li> <li>You must provide details on sources of emissions (for example, kiln stack, baghouses or discharge pipelines) including fugitive emissions (for example, noise, dust or odour), types of emissions (physical, chemical, or biological), and volumes, concentrations and durations of emissions.</li> <li>The potential for emissions should be considered for all stages of the proposal (where relevant), including during construction, commissioning and operation of the premises.</li> </ul>						
		<table border="1"> <thead> <tr> <th>No</th> <th>Yes</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	No	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>
No	Yes					
<input checked="" type="checkbox"/>	<input type="checkbox"/>					
9.1	Are there potential emissions or discharges arising from the proposed activities?					
If yes, identify all potential emissions and discharges arising from the proposed activities and complete Table 9.1: Emissions and discharges (below).						

**Part 9: Emissions, discharges, and waste**

☐ Gaseous and particulate emissions (e.g. emissions from stacks, chimneys or baghouses)

☐ Wastewater discharges (e.g. treated sewage, wash water, or process water discharged to lands or waters)

☐ Noise (e.g. from machinery operations and/or vehicle operations)

☐ Contaminated or potentially contaminated stormwater (e.g. stormwater with the potential to come into contact with chemicals or waste materials, etc.)

☐ Other (please specify): [ ]

☐ Dust (e.g. from equipment, unsealed roads and/or stockpiles, etc.)

☐ Waste and leachate (e.g. emissions through seepage, leaks and spills of waste from storage, process and handling areas, etc.)

☐ Odour (e.g. from wastes accepted at putrescible landfills, storage or processing of waste or other odorous materials, etc.)

☐ Electromagnetic radiation<sup>1</sup>

<sup>1</sup> Note that for electromagnetic radiation, copies/details of other relevant approvals (such as from the Department of Mines, Industry Regulation and Safety or the Radiological Council) must be provided where applicable.

Details of any pollution control equipment or waste treatment system, including any control mechanisms used to ensure proper operation of this equipment, must be included in the proposed controls column of the 'Emissions and discharges table' below. Details of management measures employed to control emissions should also be included. Please provide / attach any relevant documents (e.g. management plans, etc.).

Additional rows may be added as required and/or further information may be included as an attachment (see Section 9.3).

**Table 9.1: Emissions and discharges**

	Source of emission or discharge	Emission or discharge type	Volume and frequency	Proposed controls (include in Attachment 6A if extensive or complex)	Location (on site layout plan – see 3.4)
1.	Not applicable.				
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

**9.2 Waste-related activities at the premises<sup>2</sup>**

Answer "yes" or "no" for the following questions and complete Table 9.2 (below).

	No	Yes
(a) Is waste accepted at the premises?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(b) Is waste produced on the premises?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(c) Is waste processed on the premises?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(d) Is waste stored on the premises?	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Part 9: Emissions, discharges, and waste																																								
(e)	Is waste buried on the premises?	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																					
(f)	Is waste recycled on the premises?	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																					
(g)	Is any of the waste listed in Table 9.2 (below) also considered a 'dangerous good' for the purposes of the Dangerous Goods Safety (Storage and Handling of Non-Explosives) Regulations 2007? <sup>3</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																					
	Specify, if yes:																																							
<p><sup>2</sup> Copies / details of any other relevant approvals (e.g. from the Department of Health) must be provided where applicable.</p> <p><sup>3</sup> Wastes derived from the storage, handling, and use of dangerous goods may be considered hazardous and may need to be handled with the same precautions. Please refer to the Department of Mines, Industry Regulation and Safety's <a href="#">Dangerous Goods Safety information sheet</a> for more information.</p> <p>Solid waste types must be described with reference to <i>Landfill Waste Classification and Waste Definitions 1996</i> (as amended from time to time) and the Environmental Protection (Controlled Waste) Regulations 2004 (Controlled Waste Regulations).</p> <p>Liquid waste types must be described with reference to the Controlled Waste Regulations.</p> <p>For further guidance on the definition of waste, refer to <a href="#">Fact Sheet: Assessing whether material is waste</a>.</p>																																								
<p>Detail must be provided on storage type (for example, hardstand and containment infrastructure), capacity, likely storage volumes, and containment features (for example, lining and bunding).</p> <p>Additional rows may be added as required and/or further information may be included as an attachment (see Section 9.4).</p> <p><b>Table 9.2 Waste types</b></p> <table border="1"> <thead> <tr> <th></th> <th>Waste type</th> <th>Quantity (e.g. tonnes, litres, cubic metres)</th> <th>Waste activity infrastructure (including specifications)</th> <th>Monitoring (if applicable)</th> <th>Location (on site layout plan – see 3.4)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td colspan="5">Not applicable.</td> </tr> <tr> <td>2.</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3.</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4.</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Waste type	Quantity (e.g. tonnes, litres, cubic metres)	Waste activity infrastructure (including specifications)	Monitoring (if applicable)	Location (on site layout plan – see 3.4)	1.	Not applicable.					2.						3.						4.						5.					
	Waste type	Quantity (e.g. tonnes, litres, cubic metres)	Waste activity infrastructure (including specifications)	Monitoring (if applicable)	Location (on site layout plan – see 3.4)																																			
1.	Not applicable.																																							
2.																																								
3.																																								
4.																																								
5.																																								
<b>Attachments</b>				<b>N/A</b>	<b>Yes</b>																																			
9.3	<b>Attachment 6A: Emissions and discharges</b> (if required)	If required, further information for Section 9.1 has been included as an attachment labelled Attachment 6A.	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																				
9.4	<b>Attachment 6B: Waste acceptance</b> (if required)	If required, further information for Section 9.2 has been included as an attachment labelled Attachment 6B.	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																				

Part 10: Siting and location	
10.1	<p><b>Sensitive land uses</b></p> <p>What is/are the distance(s) to the nearest sensitive land use(s)?</p> <p>A sensitive land use is a residence or other land use which may be affected by an emission or discharge associated with the proposed activities.</p>
Refer to the attached application Supporting Document	
10.2	<p><b>Nearby environmentally sensitive receptors and aspects</b></p> <p>Identify in Table 10.2 (below):</p> <ul style="list-style-type: none"> <li>all instances of environmentally sensitive receptors that are known or suspected to be present within, or within close proximity to, the proposed prescribed premises boundary;</li> <li>the nature of the sensitive receptors (e.g. type of Threatened Ecological Community, species or threatened flora or fauna, etc.);</li> <li>their actual or approximate known distance and direction from the premises boundary (at the closest point/s); and</li> <li>if applicable, what measures have been or will be taken to ensure that sensitive receptors are not adversely impacted by any emissions or discharges from the premises.</li> </ul>

**Part 10: Siting and location**

Refer to the [Guideline: Environmental siting](#) for further guidance.

**Table 10.2: Nearby environmentally sensitive receptors and aspects**

Type / classification	Description	Distance + direction to premises boundary	Proposed controls to prevent or mitigate adverse impacts (if applicable)
Environmentally Sensitive Areas <sup>1</sup>	Refer to the attached application Supporting Document		
Threatened Ecological Communities			
Threatened and/or priority fauna			
Threatened and/or priority flora			
Aboriginal and other heritage sites <sup>2</sup>			
Public drinking water source areas <sup>3</sup>			
Rivers, lakes, oceans, and other bodies of surface water, etc.			
Acid sulfate soils			
Other			

<sup>1</sup> Environmentally Sensitive Areas are as declared under the *Environmental Protection (Environmentally Sensitive) Notice 2005*. Refer to DWER's website ("[Environmentally Sensitive Areas](#)") for further information.

<sup>2</sup> Refer to the [Department of Planning, Lands and Heritage website](#) for further information about Aboriginal heritage and other heritage sites.

<sup>3</sup> Refer to [Water Quality Protection Note No 25: Land use compatibility tables for public drinking water source areas](#) for further information.

**10.3 Environmental siting context details**

Provide further information including details on topography, climate, geology, soil type, hydrology, and hydrogeology at the premises.

Not applicable.

Attachments		N/A	Yes
10.4	<b>Attachment 7: Siting and location</b> You must provide details and a map describing the siting and location of the premises, including identification of distances to sensitive land uses and/or any specified ecosystems.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Part 11: Submission of any other relevant information**

Attachments		No	Yes
11.1	<b>Attachment 8: Additional Information submitted</b> Applicants seeking to submit further information may include information labelled Attachment 8. If submitting multiple additional attachments, label them 8A, 8B, etc.  Where additional documentation is submitted, please specify the name of documents below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
List title of additional document(s) attached:			



Part 12: Category checklist(s)				
Attachments			N/A	Yes
12.1	<b>Attachment 9:</b> <b>Category checklist(s)</b>	<p>DWER has developed category checklists to assist applicants with preparing their application.</p> <p>These checklists are available on <a href="#">DWER's website</a>.</p> <p>The relevant category-specific checklist(s) must be completed and included with the application, labelled as Attachment 9. If attaching multiple category checklists, label them 9A, 9B, etc.</p> <p>Do not select "N/A" unless:</p> <ul style="list-style-type: none"> <li>a relevant category checklist is not yet published on DWER's website, or</li> <li>the application is for an amendment that does not propose changes to the method of operation, or change the inputs, outputs, infrastructure, equipment, emissions, or discharges of / from the premises.</li> </ul> <p>Note that that a category checklist(s) may still be required for renewal applications. You will be advised in your renewal notification letter (sent approximately twelve months before the licence expiry date) if you are required to provide the information identified in a category checklist.</p> <p>Where a category checklist is submitted, please specify which checklist(s) in the space below.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
List title(s) of category checklists attached:		Category 63		

**Part 13: Proposed fee calculation****INSTRUCTIONS:**

Please calculate the prescribed fee using the relevant online fee calculator linked below.

- Licence: [www.der.wa.gov.au/LicenceFeeCalculator](http://www.der.wa.gov.au/LicenceFeeCalculator)
- Works approval: [www.der.wa.gov.au/WorksApprovalFeeCalculator](http://www.der.wa.gov.au/WorksApprovalFeeCalculator)
- Amendment: <https://www.wa.gov.au/government/publications/works-approval-and-licence-amendment-fee-calculator>

Different fee units apply for different fee components. Fee units may also have different amounts depending on the period in which the calculation is made.

Once DWER has confirmed that the application submitted meets the relevant requirements of the EP Act, you will be issued an invoice with instructions for paying your application fee.

Further information on fees can be found in the [Fact Sheet: Industry Regulation fees](#), and on [DWER's website](#).

13.1	Only the relevant fee calculations are to be completed as follows: <i>[mark the box to indicate sections completed]</i>	<input checked="" type="checkbox"/> Section 13.3 for works approval applications <input type="checkbox"/> Section 13.4 for licence / renewal applications <input type="checkbox"/> Section 13.5 for registration applications <input type="checkbox"/> Section 13.6 for amendment applications <input type="checkbox"/> Section 13.7 for applications requiring clearing of native vegetation
13.2	All information and data used for the calculation of proposed fees has been provided in accordance with Section 13.8.	<input type="checkbox"/>
13.3	<b>Proposed works approval fee</b>	
	Proposed works approval fee (see Schedule 3 of the EP Regulations) Fees relate to the cost of the works, including all capital costs (inclusive of GST) associated with the construction and establishment of the works proposed under the works approval application. This includes, for example, costs associated with earth works, hard stands, drainage, plant hire, equipment, processing plant, relocation of equipment and labour hire. Costs exclude: - the cost of land - the cost of buildings to be used for purposes unrelated to the purposes in respect of which the premises are, or will become, prescribed premises - costs for buildings unrelated to the prescribed premises activity or activities - consultancy fees relating to the works.	
<b>Fee component</b>		<b>Proposed fee</b>



<b>13.4 Proposed licence fee (new licences and licence renewals)</b>		
<b>Detailed licence fee calculations</b>		
<p><b>Part 1 Premises component</b> (see r.5D and Part 1 of Schedule 4 of the EP Regulations)</p> <p>The production or design capacity should be the maximum capacity of the premises. For most categories, the production or design capacity refers to an annual rate. The figure should be based on 24 hour operation for 365 days, unless there is another regulatory approval or technical reason that restricts operation.</p> <p>The premises component fee applies to the category in Part 1, Schedule 4 incurring the higher or highest amount of fee units in accordance with r.5D(2) of the EP Regulations.</p> <p>List all categories (insert additional rows as required). Use only the higher or highest amount of fee units to determine the Part 1 fee component.</p>		
Category	Production or design capacity	Fee units
Using the higher or highest amount of fee units, Part 1 component subtotal		\$
<p><b>Part 2 Waste</b> (see r.5D(1a)(b) and Part 2 of Schedule 4 of the EP Regulations)</p> <p>If your premises includes one or more of the following categories specify any applicable Part 2 waste amounts. Do not include Part 3 waste components of these discharges in the below calculations.</p> <p>Categories: 5, 6, 7, 8, 9, 12, 14, 44, 46, 53, 54A, 70, 80, or 85B</p> <p><b>Part 2 waste means waste consisting of –</b></p> <ul style="list-style-type: none"> <li>(a) tailings; or</li> <li>(b) bitterns; or</li> <li>(c) water to allow mining of ore; or</li> <li>(d) flyash; or</li> <li>(e) waste water from a desalination plant.</li> </ul> <p>If the premises does not fall into one of the categories listed above, or there are no applicable Part 2 waste amounts, the sub total for this section will be \$0.</p> <p>Insert additional rows as required. Sum all Part 2 waste fees to determine the sub total.</p>		
Discharge quantity (tonnes/year)	Fee units	
Part 2 component subtotal		\$
<p><b>Part 3 Waste – Discharges to air, onto land, into waters</b> (see Part 3 of Schedule 4 of the EP Regulations)</p> <p>Choose the appropriate location of the discharge and enter the discharge amount(s) in the units specified in the EP Regulations. This should be the amount of waste expected to be discharged over the next 12 months, expressed in the units and averaging period applicable for that waste kind (for example, g/minute or kg/day). Amounts can be measured, calculated, or estimated and can be based on data acquired over the previous 12 months, but should be based on the maximum premises capacity and not the forecast operating hours.</p> <p>Where there are discharges, all prescribed waste types must be considered in the fee calculation. If a specified waste type is not present in the discharge, this must be justified using an appropriate emission estimation technique (for example, sampling data, industry sector guidance notes, National Pollution Inventory guides and emission factors).</p>		

Discharges to air			
Discharges to air	Discharge rate (g/min)	Discharges to air	Discharge rate (g/min)
Carbon monoxide		Nickel	
Oxides of nitrogen		Vanadium	
Sulphur oxides		Zinc	
Particulates (Total PM)		Vinyl chloride	
Volatile organic compounds		Hydrogen sulphide	
Inorganic fluoride		Benzene	
Pesticides		Carbon oxysulphide	
Aluminium		Carbon disulphide	
Arsenic		Acrylates	
Chromium		Beryllium	
Cobalt		Cadmium	
Copper		Mercury	
Lead		TDI (toluene-2, 4-di-iso-cyanate)	
Manganese		MDI (diphenyl-methane di-iso-cyanate)	
Molybdenum		Other waste	
Part 3 component subtotal		\$	
Discharges onto land or into waters			Discharge rate
1. Liquid waste that can potentially deprive receiving waters of oxygen (for each kilogram discharged per day) —	(a) biochemical oxygen demand (in the absence of chemical oxygen demand limit)		
	(b) chemical oxygen demand (in the absence of total organic carbon limit)		
	(c) total organic carbon		
2. Bio-stimulants (for each kilogram discharged per day) —	(a) phosphorus		
	(b) total nitrogen		
3. Liquid waste that physically alters the characteristics of naturally occurring waters —	(a) total suspended solids (for each kilogram discharged per day)		
	(b) surfactants (for each kilogram discharged per day)		
	(c) colour alteration (for each platinum cobalt unit of colour above the ambient colour of the waters in each megalitre discharged per day)		
	(d) temperature alteration (for each 1°C above the ambient temperature of the waters in each megalitre discharged per day) — (i) in the sea south of the Tropic of Capricorn (ii) in other waters		



4. Waste that can potentially accumulate in the environment or living tissue (for each kilogram discharged per day) —	(a) aluminium	
	(b) arsenic	
	(c) cadmium	
	(d) chromium	
	(e) cobalt	
	(f) copper	
	(g) lead	
	(h) mercury	
	(i) molybdenum	
	(j) nickel	
	(k) vanadium	
	(l) zinc	
	(m) pesticides	
	(n) fish tainting wastes	
	(o) manganese	
5. <i>E. coli</i> bacteria as indicator species (in each megalitre discharged per day) —	(a) 1,000 to 5,000 organisms per 100 ml	
	(b) 5,000 to 20,000 organisms per 100 ml	
	(c) more than 20,000 organisms per 100 ml	
6. Other waste (per kilogram discharged per day) —	(a) oil and grease	
	(b) total dissolved solids	
	(c) fluoride	
	(d) iron	
	(e) total residual chlorine	
	(f) other	
Part 3 component subtotal		\$
<b>Summary – Proposed licence fee</b>		
Part 1 Component		
Part 2 Component		
Part 3 Component		
Total proposed licence fees:		\$
<b>13.5 Prescribed fee for registration</b>		
A fee of 24 units applies for an application for registration of premises, unless the occupier of the premises holds a licence in respect of the premises, in accordance with r.5B(2)(c) of the EP Regulations.		<input type="checkbox"/> (Tick to acknowledge)

<b>13.6 Amendment fee (works approval or licence)</b>	
<p>The fee prescribed for an application for an amendment to a works approval or licence is calculated in accordance with r.5BB(1)(a) of the EP Regulations:</p> <ul style="list-style-type: none"> <li>for a single category of prescribed premises to which the works approval or licence relates, by using the fee unit number corresponding to the prescribed premises category and relevant design capacity threshold in Schedule 4 Part 1 of the EP Regulations.</li> <li>for multiple categories of prescribed premises to which the works approval or licence relates, by using the highest fee unit number corresponding to the prescribed premises categories and design capacity threshold in Schedule 4 Part 1 of the EP Regulations.</li> </ul>	
Fee Units	Proposed fee
0	\$ 0.00
<b>13.7 Prescribed fee for clearing permit</b>	
<p>In accordance with the <a href="#">Guideline: Industry Regulation Guide to Licensing</a> and <a href="#">Procedure: Native vegetation clearing permits</a>, where approval to clear native vegetation is sought as part of an application for a works approval or licence, DWER may elect to either jointly or separately determine the clearing component of the application. Where DWER separately determines the clearing component of an application, the application will be deemed to be an application for a clearing permit under s.51E of the EP Act and processed accordingly.</p> <p>Note: If a clearing permit application has been separately submitted and accepted by DWER, a refund for the clearing permit application will not be provided where DWER determines to address clearing requirements as part of a related works approval application.</p>	<input type="checkbox"/> (Tick to acknowledge)
<b>13.8 Information and data used to calculate proposed fees</b>	
<p>The detailed calculations of fee components, including all information and data used for the calculations are to be provided as attachments to this application, labelled as <b>Attachment 10</b>, with an appropriate suffix (for example 10A, 10B etc.). Please specify the relevant attachment number in the space/s provided below.</p>	
Proposed fee for works approval	Attachment No.
Details for cost of works	10
Proposed fee for licence	Attachment No.
Part 1: Premises	
Part 2: Waste types	
Part 3: Discharges to air, onto land, into waters	

Part 14: Commercially sensitive or confidential information		
<p><b>NOTE:</b> Information submitted as part of this application will be made publicly available. If you wish to submit commercially sensitive or confidential information, please identify the information in Attachment 11, and include a written statement of reasons why you request each item of information be kept confidential. Information submitted later in the application process may also be made publicly available at DWER's discretion. For any commercially sensitive or confidential information, please follow the same process as described above.</p> <p>DWER will take reasonable steps to protect genuinely confidential or commercially sensitive information. However, please note that DWER cannot commit to redacting all personal information from all supporting documents. You are advised to ensure that all personal information, including signatures, are removed from supporting documents prior to submitting them to the department. Please note that all submitted information may be the subject of an application for release under the <i>Freedom of Information Act 1992</i>.</p>		
<p>All information which you would propose to be exempt from public disclosure has been separately placed in a redacted version of the application form and its supporting documentation. Note that this is in addition to the unredacted version(s) provided to DWER for its assessment. Grounds for claiming exemption in accordance with Schedule 1 to the <i>Freedom of Information Act 1992</i> must be specified in <b>Attachment 11</b> (located at the end of this form).</p>	<p>Attached</p> <p><input type="checkbox"/></p>	<p>N/A</p> <p><input checked="" type="checkbox"/></p>



**Part 15: Submission of application****INSTRUCTIONS:**

Check one of the boxes below to nominate how you will submit your application.

**Files larger than 50MB cannot be received via email by DWER. Files larger than 50MB can be sent via File Transfer. Alternatively, email DWER to make other arrangements.**

A full, signed, electronic copy of the application form including all attachments has been submitted via email to [info@dwer.wa.gov.au](mailto:info@dwer.wa.gov.au):

☒

**OR**

A signed, electronic copy of the application form has been submitted via email to [info@dwer.wa.gov.au](mailto:info@dwer.wa.gov.au) and attachments have been submitted via File Transfer, or electronically by other means as arranged with DWER;

☐

**OR**

A full, signed hard copy has been sent to:

APPLICATION SUBMISSIONS

Department of Water and Environmental Regulation

Locked Bag 10

Joondalup DC WA 6919

☐

## Part 16: Declaration and signature

### General

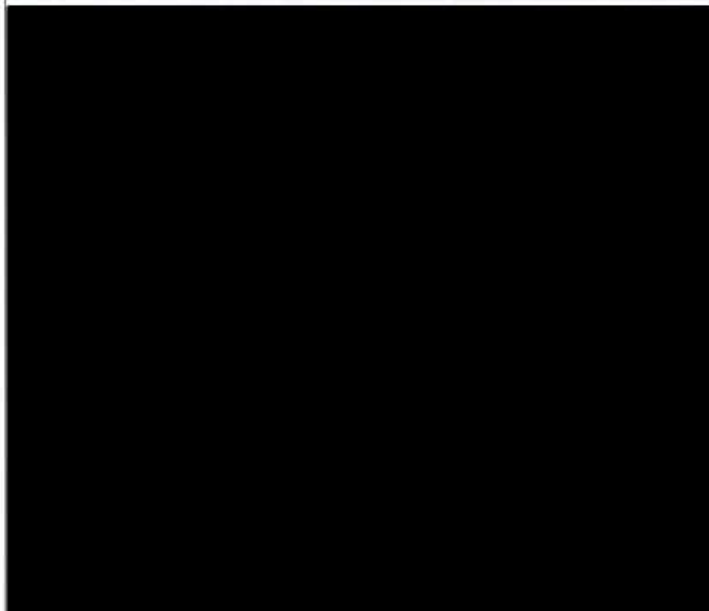
I / We confirm and acknowledge that:

- the information contained in this application is true and correct;
- I / we have legal authority to sign on behalf of the applicant (where authorisation provided);
- I / we have not altered the requirements and instructions set out in this application form;
- I / we have provided a valid email address in Section 2.3 for receipt of correspondence electronically via email from DWER in relation to this application;
- that successful delivery to my / our server constitutes receipt of correspondence sent electronically via email from DWER in relation to this application; and
- I / we have provided a valid postal and/or business address in Section 2.4 for the service of all Part V documents
- giving or causing to be given information that to my knowledge is false or misleading is an offence under s.112 of the EP Act and may incur a penalty of up to \$100,000

### Publication

I / We confirm and acknowledge:

- this application (including all attachments apart from the sections identified in Attachment 11) is a public document and may be published;
- marine surveys provided in accordance with Part 5 will be published and used, for the purposes of the IMSA project, in accordance with your declaration made in the *Metadata and Licensing Statement*;
- all necessary consents for the publication of information have been obtained from third parties;
- information considered exempt from public disclosure has been noted by redaction of a separately provided copy of the completed application form and its supporting documentation (in accordance with Part 14), with reasons as to why the information should be exempt in accordance with the grounds specified in Schedule 1 to the *Freedom of Information Act 1992 (WA)* being provided in Attachment 11;
- subsequent information provided in relation to this application will be a public document and may be published unless written notice has been given to DWER by the applicant, at the time the information is provided, claiming that the information is considered exempt from public disclosure; and
- the decision to not publish information will be at the discretion of the CEO of DWER and will be made consistently with the provisions of the *Freedom of Information Act 1992 (WA)*.



6/12/24  
Date

6/12/24  
Date

**NOTE:** This form may be signed:

- if the applicant is an individual, by the individual;
- if the applicant is a corporation, by:
  - the common seal being affixed in accordance with the *Corporations Act 2001 (Cth)*; or
  - two directors; or
  - a director and a company secretary; or
  - if a proprietary company has a sole director who is also the sole company secretary, by that director; and
- by a person with legal authority to sign on behalf of the applicant.



**ATTACHMENT 11 – Confidential or commercially sensitive information**

Request for exemption from publication			
Information which you consider should not be published, on the grounds of a relevant exemption found in Schedule 1 to the <i>Freedom of Information Act 1992</i> (WA), must be specified in this Attachment. Add additional rows as required.			
<b>NOT FOR PUBLICATION IF GROUNDS FOR EXEMPTION ARE DETERMINED TO BE ACCEPTABLE</b>			
Section of this form:		Grounds for claiming exemption:	
Section of this form:		Grounds for claiming exemption:	
Section of this form:		Grounds for claiming exemption:	
<div style="border: 1px solid black; height: 100px; margin-bottom: 10px;"></div> <div> <div style="border-bottom: 1px solid black; width: 250px; display: inline-block;"></div> Full Name </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div> <div style="border-bottom: 1px solid black; width: 250px; display: inline-block;"></div> Signature </div> <div> <div style="border-bottom: 1px solid black; width: 200px; display: inline-block;"></div> Date </div> </div>			

## **Attachment No. 1A – Proof of Occupier Status**

Not Applicable.



## **Attachment No. 1B – ASIC Company Extract**

Not Applicable.

## **Attachment No. 1C – Authorisation to Act as Representative of the Occupier**

Not Applicable.



## **Attachment No. 2 – Premises Map**

Not Applicable.

## **Attachment No. 3A – Environmental Commissioning Plan**

Not Applicable.



## **Attachment No. 3B – Proposed Activities**

Refer to the Supporting Document attached to the rear of this application.

## **Attachment No. 3C – Map of Proposed Area to be Cleared**

Not Applicable.



## **Attachment No. 3D – Additional Information for Clearing Assessment**

Not Applicable.

## **Attachment No. 4 – Marine Surveys**

Not Applicable.

## **Attachment No. 5 – Other Approvals and Consultation Documentation**

Not Applicable.



## **Attachment No. 6A – Emissions and Discharges**

Not Applicable.

## **Attachment No. 6B – Waste Acceptance**

Not Applicable.

## **Attachment No. 7 – Siting and Location**

Not Applicable.



## **Attachment No. 8 – Additional Information Submitted**

Nil.

## **Attachment No. 9 – Category Checklist(s)**

Refer to the attached Landfill Checklist.



#### INSTRUCTIONS:

- This checklist outlines additional information requirements for applications under **Part V Division 3** of the *Environmental Protection Act 1986* (EP Act) to:
  - construct and operate new solid waste landfills, or
  - amend an instrument granted for an existing landfill (i.e. new cells/landfill areas at an existing landfill facility).
- This checklist must be completed and submitted as an attachment to the main 'works approval, licence or amendment [application form](#)' (see Part 12 of that form). Notes included throughout this checklist must be read in conjunction with the instructions and requirements of the main application form.
- The application checklist must be completed with all relevant information attached. Information requirements and attachments can be combined and submitted as one or more consolidated documents if desired, provided it is clear to which section of the application checklist the information/attachments relate.
- If an application form and checklist has been submitted and are incomplete the Chief Executive Officer (CEO) of the Department of Water and Environmental Regulation (DWER) will decline or return the application (as applicable).
- The information requirements outlined in this checklist are not exhaustive. Applicants are advised to provide additional supporting information and environmental investigations as required to support the application and assessment process.
- This checklist does not apply to landfill sites that are associated with mining operations or for rural landfill premises (premises specified in Schedule 1 Part 2 of the *Environmental Protection Regulations 1987* as category 89 premises).
  - However, depending on the environmental context of the proposed landfill site, DWER may still require applicants to provide a similar level of detail to support their application. Mine site and rural landfill operators should consider the environmental siting of the proposed landfill site and, depending on the site sensitivity, should contact **DWER** to seek advice on the likely specific information requirements, prior to submitting an application.

#### Completion matrix

The matrix below explains what sections are required to be completed for different types of landfill applications. The class and category of landfill is outlined in Schedule 1 of the *Environmental Protection Regulations 1987*.

Form section	Prescribed premises category and landfill class				
	Category 63	Category 64	Category 64	Category 65	Category 66
	Class I	Class II	Class III	Class IV	Class V
<a href="#">Part 1: Environmental siting and Conceptual Site Model</a>	•	•	•	•	•
<a href="#">Part 2: Landfill design and construction</a>	•	•	•	•	•
<a href="#">Part 2A: Design and construction overview</a>	•	•	•	•	•
<a href="#">Part 2B: Landfill liner specifications</a>	N/A	•	•	•	•
<a href="#">Part 2C: Stability assessment</a>	N/A	•	•	•	•
<a href="#">Part 2D: Leachate management</a>	N/A	•	•	•	•
<a href="#">Part 2E: Landfill gas management</a>	N/A	•	•	•	•
<a href="#">Part 2F: Stormwater/surface water management</a>	•	•	•	•	•
<a href="#">Part 2G: Monitoring requirements</a>	•	•	•	•	•
<a href="#">Part 3: Premises operations</a>	•	•	•	•	•
<a href="#">Part 4: Landfill closure and rehabilitation</a>	•	•	•	•	•

#### Key:

- **Must be submitted**
- N/A **Not required with application, or not applicable in the context of the scope of works and operations.**



Part 1: Environmental siting and conceptual site model (CSM)	
<b>INSTRUCTIONS:</b> <ul style="list-style-type: none"> <li>Refer to DWER's <a href="#">Guideline: Environmental siting</a> for details of the specified ecosystems and other environmental attributes considered in DWER's assessment.</li> <li>The supporting information provided as part of an application must provide sufficient evidence to allow DWER to make a reasonable decision.</li> </ul>	
	Yes
<b>1.1 Siting context and background</b> Provide a description of: <ul style="list-style-type: none"> <li>history of the site (past and current activities)</li> <li>land ownership</li> <li>the local area and the landfill's siting within this area</li> <li>surrounding land uses</li> <li>community and/or stakeholder need for landfill site.</li> </ul>	<input checked="" type="checkbox"/>
<b>1.2 Sensitive receptors and designated areas (within a 2 km radius<sup>1</sup>)</b> Provide information on the distance and directions to sensitive environmental and human receptors including: <ul style="list-style-type: none"> <li>human receptors (e.g. residential, rural, industrial / commercial, and/or recreational premises)</li> <li>surface waters (permanent and seasonal)</li> <li>depth to groundwater and potential beneficial use(s)</li> <li>sensitive flora and fauna</li> <li>designated areas<sup>2</sup></li> <li>regional and local catchment characteristics.</li> </ul> And other sensitive receptors as identified in the <a href="#">Guideline: Environmental siting</a> .  Note 1: depending on the proposed landfill class and site context, a larger radius may need to be assessed.  Note 2: designated areas as defined by section 57 of the EP Act and comprise water source areas proclaimed under the Rights in Water and Irrigation Act 1914, and Public Drinking Water Source Areas proclaimed under the Country Areas Water Supply Act 1947 and Metropolitan Water Supply, Sewerage, and Drainage Act 1909.	<input checked="" type="checkbox"/>
<b>1.3 Local climate and meteorological data</b> Provide information on the local climate and meteorological data, including: <ul style="list-style-type: none"> <li>monthly rainfall</li> <li>monthly evaporation</li> <li>wind conditions (seasonal wind strength and direction)</li> <li>source and date range of meteorological data (e.g. on-site weather station or from a Bureau of Meteorology [BoM] site; site details must be provided).</li> </ul>	<input checked="" type="checkbox"/>
<b>1.4 Topography, geology and hydrology</b> Provide information on the topography, geology and hydrogeology of the area including: <ul style="list-style-type: none"> <li>surface elevation and topography</li> <li>regional and local geology<sup>3</sup> and soils<sup>3</sup> including site-specific soil and geological records where available</li> <li>regional and local hydrology</li> <li>groundwater flow direction and rate<sup>3</sup></li> <li>groundwater quality<sup>3</sup> and current or future use</li> <li>groundwater aquifer characteristics</li> <li>a description of geologic active processes (e.g. faulting, subsidence) (if applicable).</li> </ul> Note 3: site-specific investigations should be undertaken where information on local attributes is not available in published documentation or digital datasets. Whether relying on published information or the results of site investigations, applicants must provide references and demonstrate that the information presented is representative of site conditions.	<input checked="" type="checkbox"/>

Part 1: Environmental siting and conceptual site model (CSM)				
1.5	<b>Conceptual site model</b> Provide a site-specific conceptual site model (CSM) <sup>4</sup> which clearly identifies all potential source-pathway-receptor (S-P-R) linkages for all related environmental media (Section 1.8 below – Attachment 3).  The development of the CSM is an iterative process, whereby the initial CSM is developed in the first stage of conceptual design/assessment (taking into consideration the nature of baseline environmental conditions) and revised as more detailed information on the site and the nature of potential risk events becomes available. The CSM is also used to identify uncertainties or critical gaps in information that may need to be addressed through additional investigations.  The complexity of the CSM corresponds to the scale and complexity of the landfill activities and should be devised to help in the design process to identify appropriate design and operational measures as well as environmental monitoring requirements.  Note 4: guidance on developing CSM's can be sourced in DWER's <a href="#">Assessment and management of contaminated sites guidelines</a> and from Schedule B2 of the <a href="#">National Environment Protection (Assessment of Site Contamination) Measure 1999</a> (NEPM).			<input checked="" type="checkbox"/>
<b>Attachments</b>			<b>N/A</b>	<b>Yes</b>
1.6	<b>Attachment 1: Locality map(s)</b> An aerial photograph, map, and/or site plan of sufficient scale showing the proposed prescribed premises boundary and general locality of the premises in respect to nearby sensitive receptors and surrounding land uses.  Multiple maps at different scales can be provided.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7	<b>Attachment 2: Topography, geology and hydrogeological plans/maps</b> An aerial overview and cross-section drawings of topographical, geological, and hydrogeological features related to the site.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.8	<b>Attachment 3: Conceptual site model</b> In accordance with Part 1.5 above, provide a CSM in table format. A graphical representation can also be developed and submitted to help illustrate S-P-R linkages. An example table format is provided below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Example CSM table:</b>				
<b>Source / activities</b>	<b>Pollutant or contaminant of potential concern</b>	<b>Pathway (transport mechanism)</b>	<b>Receptor</b>	<b>Potential impacts</b>
Leachate Pond 1	Metals, TDS, nutrients, BOD, organic acids, petroleum hydrocarbons, sulfides, alkanes, PFAS	Infiltration; vertical migration to the subsurface and groundwater.  Horizontal migration in groundwater along the downgradient flow path.  Abstraction of groundwater for non-potable uses (garden irrigation and other non-potable uses).	Underlying groundwater (15mBGL).  Down-hydraulic gradient non-potable groundwater users – 8 licensed bores identified, unlicensed domestic bores may also be present (400m south-west).  Conservation category wetland located down-hydraulic gradient (300m south-west) – considered a 'flow-through wetland' which is in direct hydraulic connection with the water-table aquifer.	Groundwater degradation and impacts to downgradient groundwater users.  Impacts to wetland water quality and ecosystem disturbance.
Landfill	Landfill gas	Subsurface lateral migration along preferential pathways.	On-site office administration accommodation 150m from the proposal landfill cell.	Accumulation of LFG in subsurface structures and conduits presenting a potential explosion hazard.



**Part 2: Landfill design and construction****INSTRUCTIONS:**

- This section is made up of 7 sub-parts focusing on landfill design and construction:
  - Part 2A: Design overview and construction scope
  - Part 2B: Landfill liner specifications
  - Part 2C: Stability assessment
  - Part 2D: Leachate management
  - Part 2E: Landfill gas management
  - Part 2F: Stormwater/surface water management
  - Part 2G: Monitoring requirements
- The proposed design should consider and acknowledge the interactions between these elements and take into consideration the environment setting, adjacent current and future land uses, available materials and infrastructure, waste to be received and the need to provide integrated waste management facilities (disposal and recycling options).
- The CSM (required under Part 1.5) will help operators in gaining an understanding of the environmental setting and potential risk events and should be considered in the design and operation of the landfill.
- Where an application is for a category 63 (Class I landfill), but not any other landfill category, only sub-parts 2A, 2F, and 2G must be completed; Parts 2B to 2E are either optional or not applicable.

**Part 2A: Design overview and construction works****INSTRUCTIONS:**

- This section requires applicants to provide an overview of the proposed landfill design concept including all related infrastructure, such as leachate and landfill gas management infrastructure.
- This section also requires a detailed summary of the extent of construction works that are being proposed under this application to clarify the scope of assessment.

		Yes
2.1	<p><b>Landfill design concept</b></p> <p>Provide information on each component of the proposed landfill including (but not limited to):</p> <ul style="list-style-type: none"> <li>• landfill type and design concept: including details on size (spatial and volumetric), lifespan, geometry, proposed liner<sup>5</sup> and leachate management system<sup>5</sup> and groundwater and surface water management<sup>5</sup> (specified design detail must be provided for each proposed landfill cell)</li> <li>• waste types proposed for disposal<sup>6</sup></li> <li>• details on the landfill cell(s) that will be subject of this application and staging of development</li> <li>• site infrastructure layout including details on traffic access and internal haul routes, and details on all facilities for receiving and handling waste and administration of the landfill.</li> </ul> <p>Note 5: Only an overview of this information is required under this part. Specific information requirements for each of these aspects is outlined further in subsequent parts of the application checklist.</p> <p>Note 6: Information must be consistent with the requirements outlined in Part 9.2 of the main works approval or licence application form (waste-related activities).</p>	<input type="checkbox"/>
2.2	<p><b>Scope of construction works</b></p> <p>Provide details of construction works including:</p> <ul style="list-style-type: none"> <li>• general site preparation works<sup>7,8</sup></li> <li>• infrastructure to be constructed</li> <li>• construction phases and associated timings of works</li> <li>• construction quality assurance (CQA) measures and procedures to be employed<sup>9</sup></li> <li>• summary of management measures and controls to be adopted for noise, dust and odour emissions (odour in the case where new cells are tying in with existing cells) and for the management of stormwater, general erosion and sediment control<sup>10</sup></li> </ul> <p>Note 7: Certain site preparation works may be undertaken without a works approval. Refer to Section 3 of the <a href="#">Guideline: Industry Regulation Guide to Licensing</a> for further information.</p> <p>Note 8: Provide a general overview of site preparation works. Specific preparatory works in relation to the landfill liner, leachate pond and landfill cap are detailed respectively in Part 2B, Part 2E, and Part 4.</p> <p>Note 9: Part 2B of this checklist outlines specific CQA information requirements for the liner installation. It is essential that you adopt a quality approach to landfill engineering. CQA techniques help in providing confidence that construction works have been completed in accordance with the design specifications and, where non-conformances are identified, that appropriate corrective actions are taken. Typically for landfill applications, applicants should provide a CQA plan prepared in conjunction with design engineers and relevant CQA specialists.</p>	<input type="checkbox"/>



Part 2A: Design overview and construction works		
Note 10: Information must be consistent with the requirements outlined in Part 9.1 of the main works approval or licence application form (potential emissions and discharges arising from the proposed activities).		
Attachments		Yes
2.3	<b>Attachment 4: Premises map and site layout plan(s)</b> A premises map and site layout plan must be provided, which include the following: <ul style="list-style-type: none"> <li>premises boundary</li> <li>site layout depicting all infrastructure (current and proposed)</li> <li>location of the works (cells, leachate ponds, etc.) and any potential future cells/ponds (as applicable)</li> <li>stormwater infrastructure</li> <li>access and haulage roads</li> <li>other key buildings (gatehouse, weighbridge, administration office, etc.)</li> <li>scale and north arrow; GPS coordinates and legend.</li> </ul>	<input type="checkbox"/>
2.5	<b>Attachment 5: Detailed design drawings (multiple as required)</b> Detailed design drawings: <sup>11</sup> <ul style="list-style-type: none"> <li>cell layout</li> <li>landfill geometry</li> <li>schematic cross sections of the landfill cell(s)</li> <li>leachate pond layout and cross sections</li> <li>landfill cap.</li> </ul> Note 11: Additional design drawings are required for the proposed liner, leachate management system and landfill cap as detailed respectively in Part 2B, Part 2E, and Part 4.	<input type="checkbox"/>

Part 2B: Landfill liner specifications		
<b>NOTE:</b> <ul style="list-style-type: none"> <li>The principal functions of a landfill liner system are to limit contaminant migration to groundwater and to control landfill gas migration.</li> <li>Construction quality assurance (CQA) measures must be in place to ensure construction of the engineered systems will meet the intended (and assessed) standards and specifications and to provide an audit trail.</li> </ul>		
	N/A	Yes
2.6 <b>Landfill liner system:</b> Provide details of the proposed landfill liner system and configuration. A statement of the intended landfill liner performance (overall permeability and containment features) should also be provided in support of the proposed liner system. Components <sup>12</sup> of the basal and side slope liner may include: <ul style="list-style-type: none"> <li>Subgrade<sup>13</sup></li> <li>Clay<sup>14</sup> or geosynthetic clay liner (GCL)</li> <li>High Density Polyethylene (HDPE) geomembrane</li> <li>leachate drainage layer<sup>15,16</sup></li> <li>cushion geotextile layer.</li> </ul> Provide detailed design drawings of the liner system (see Section 2.9 – Attachment 6). Note 12: Thickness, material properties and manufacturer design specifications (including design hydraulic conductivity/permeability) must be provided for each liner component. Note 13: Where the in-situ subgrade is not suitable to form part of the foundation and liner, then an appropriate sub-grade must be constructed. Note 14: Where a natural geological barrier is in place (and forms part of the liner system) you must demonstrate that the barrier extends along the base and all the way up the sides of the landfill site. Details of the in-situ thickness, material properties and any artificial enhancements must be provided. Note 15: Part 2D of this checklist outlines specific information requirements for leachate management (which complement the detail requested in this section). Note 16: Operators may consider the need for a secondary leachate collection system (leak detection layer) to detect any malfunction of the upper primary liner components.	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Part 2B: Landfill liner specifications										
2.7	<b>Liner construction and/or installation:</b> Provide information of the proposed construction and/or installation of the liner system. Information should be provided for each individual liner component (as the case requires). Considerations include, but are not limited to: <ul style="list-style-type: none"> <li>any preparatory works required, e.g. earthworks/subgrade preparation, compaction methods</li> <li>handling and storage of liner materials</li> <li>method of placement (for clay liners include details of thickness and number of lifts, compaction method and required level of compaction)</li> <li>keying into existing surfaces (anchor points) and/or tying into adjacent landfill cells</li> <li>conditions of underlying surface between layers</li> <li>method of jointing for liner installation (e.g. bonding, welding, or seaming)</li> <li>quality assurance testing (see Section 2.8 below).</li> </ul>		<input checked="" type="checkbox"/>	<input type="checkbox"/>						
2.8	<b>Construction Quality Assurance plan</b> The application should include a Construction Quality Assurance (CQA) plan which includes the proposed testing, inspection, and verification procedures to demonstrate that materials and constructed features at the landfill meet the designs and specifications. The CQA plan should include as a minimum: <ul style="list-style-type: none"> <li>descriptions of responsibilities, qualifications and obligations for each party involved in the CQA plan and the proposed level of supervision for liner construction/ installation</li> <li>materials testing information, including sampling locations, frequency of testing, test methods, laboratories, accreditations, applicable specifications and quality standards, data evaluation, acceptance and rejection criteria, and contingency measures in the event of failure</li> <li>hold and inspection points – these points are typically the start and finish of key stages of the work that cannot later be rectified because they will no longer be accessible</li> <li>for geosynthetic materials (i.e. geomembranes, geosynthetic clay liners, geotextiles, geonet drainage geocomposites, and geogrids), the CQA plan should address the following requirements:               <ul style="list-style-type: none"> <li>manufacturing quality control – including factory test results, certifications and material warranties</li> <li>independent conformance testing – there should be a program of CQA independent conformance testing to verify that the materials supplied comply with the required specifications</li> <li>installation procedures – storage to protect from weather and other damage during installation, panel overlaps, welds, jointing and seam orientation in accordance with good practice and the manufacturer's instructions and regular inspections, repairs tested and recorded and protection from UV light after installation etc.</li> </ul> </li> <li>reporting<sup>17</sup> and record keeping requirements.</li> </ul> Note 17: As part of validating landfill construction works, DWER will require operators to submit a Critical Containment Infrastructure Report (CCIR). The purpose of the CCIR is to confirm that the environmental controls on containment infrastructure are properly constructed before materials are deposited in the containment cell (the CCIR is the equivalent of a CQA validation report which have historically been required for verification and audit purposes).		<input checked="" type="checkbox"/>	<input type="checkbox"/>						
<b>Attachments</b>			<b>N/A</b>	<b>Yes</b>						
2.9	<b>Attachment 6: Detailed design drawings – landfill liner</b>	Provide detailed design drawings which clearly depict the following: <table border="1"> <tbody> <tr> <td>a) basal and side wall liner detail (typical section)</td> <td> <input checked="" type="checkbox"/> </td> <td> <input type="checkbox"/> </td> </tr> <tr> <td>b) leachate sump liner detail (typical section)</td> <td> <input checked="" type="checkbox"/> </td> <td> <input type="checkbox"/> </td> </tr> </tbody> </table>	a) basal and side wall liner detail (typical section)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	b) leachate sump liner detail (typical section)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
a) basal and side wall liner detail (typical section)	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
b) leachate sump liner detail (typical section)	<input checked="" type="checkbox"/>	<input type="checkbox"/>								



Part 2B: Landfill liner specifications		
c) inferred groundwater levels (mAHD) relative to the base of the landfill cell (mAHD): depicted on cross-section drawings (showing at least two perpendicular planes on the horizontal, e.g. north-south, east-west, or otherwise as appropriate) showing perimeter side slopes/walls. All heights of the base, sump, liner, and the perimeter side walls should be shown in mAHD.  Cross sections must clearly demonstrate the separation distance between the lowest point of the landfill cell or leachate sump (whichever is lowest) and the underlying water table.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) leachate collection system, depicting the distribution and layout of leachate collection pipes, sumps, leachate extraction/removal pipes with appropriate grades/slopes etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) anchor trench detail	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) liner tie in detail and interface between adjacent cells (if required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Part 2C: Stability assessment		
<b>NOTE:</b> <ul style="list-style-type: none"> <li>The geotechnical stability of the lining system, wastes and underlying geological strata (foundation) must be assessed.</li> <li>The stability assessment should take into account the interactions between the multiple layers present in the lining system and must demonstrate structural/physical stability over the entire lifecycle of the landfill.</li> <li>Where DWER has previously assessed stability assessments for existing cells, which were considered appropriate, and the proposed new cells comprise a similar design then the applicant can justify a lower level of stability analysis to that outlined below. In this case the applicant must provide clear justification as to the level of analysis undertaken and give regard to and justify the applicability of previous assessments carried out to the new proposed landfill area/cell.</li> </ul>		
	N/A	Yes
<b>2.10 Stability assessment</b> Provide a stability assessment which analyses the following aspects as a minimum: <ul style="list-style-type: none"> <li>liner interface stability             <ul style="list-style-type: none"> <li>a) assessment of the capping liner system (upper surface and slopes)</li> <li>b) assessment of the basal liner system interfaces</li> </ul> </li> <li>waste stability</li> <li>embankment slope and foundation stability.</li> </ul> <b>Other information requirements:</b> The software used and chosen model must be detailed and justified and all assumptions and data inputs must be clearly documented and justified. <sup>18</sup> All adopted factors of safety (FoS) must be clearly documented and justified. Details of the material properties used in the analysis must be provided. Where material properties are not based on site-specific investigations, <sup>19</sup> clear justification must be provided to demonstrate that they are appropriate for use in the stability assessment. The assessment must include the elements with the highest risk of instability (critical surfaces) based on interface properties, geometry, sequence of deposition of the waste and subsurface conditions. Interim construction/filling stages must be analysed if the geometry, loading conditions and materials are of risk. Indicate the location of the sections analysed on an appropriate figure and provide justification for why specific elements have been selected (see Section 2.11 – Attachment 7). Confirm the design assumptions regarding internal leachate phreatic surfaces and external pore pressures for the stability analysis and model the scenarios that account for a build-up of pore water pressure in the lining system and waste during normal and abnormal operations as well as post-operations. At a minimum, the following three internal leachate scenarios must be addressed:	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Part 2C: Stability assessment				
<ul style="list-style-type: none"> <li>no phreatic surface</li> <li>elevated phreatic surfaces representing hypothetical 'steady state' condition</li> <li>high phreatic surface representing a malfunction of the leachate pumps.</li> </ul> <p>For external pore-pressure scenarios, where relevant, the model should consider both average/expected pore pressure condition and highest inferred groundwater level.</p> <p>A stability analysis must also be performed for pseudo-static conditions to address the effect of a seismic event. The following scenarios must be assessed:</p> <ul style="list-style-type: none"> <li>operation basis earthquake (OBE)</li> <li>maximum design earthquake (MDE)</li> <li>maximum credible earthquake (MCE).</li> </ul> <p>Methods for determining return period intervals for each scenario must be clearly documented and justified.</p> <p>A sensitivity analysis must also be carried out for the basal liner system interface to assess the effect of variability of material properties on the stability analysis outcomes.</p> <p>Note 18: Raw and model data (including modelling files) is not required to be submitted at the time of application but must be able to be provided, in full, on request, so that the stability analysis can be technically verified if necessary.</p> <p>Note 19: The characterisation of all materials incorporated into the stability assessment must be appropriately described. Site-specific investigations of material properties is recommended in preference to using other data.</p>				
<b>Attachments</b>		<b>N/A</b>	<b>Yes</b>	
2.11	<b>Attachment 7: Stability assessment drawings and figures (multiple as required)</b>	Analysis drawings and/or figures including, but not limited to: <ul style="list-style-type: none"> <li>cell layout; aerial overview depicting analysed sections</li> <li>cell cross-sections depicting analysed sections (include analysis results in table on figure)</li> <li>other figures and drawings as required.</li> </ul>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Part 2D: Leachate management				
<b>NOTE:</b> <ul style="list-style-type: none"> <li>Operators must provide information on the proposed leachate management system including the need to recover leachate from landfill cells and store in appropriately sized leachate holding and evaporation ponds.</li> <li>There must be sufficient leachate disposal capacity to prevent the build-up of leachate and an increase in the risks of water pollution and offensive odours.</li> </ul>				
		<b>N/A</b>	<b>Yes</b>	
2.12	<b>Leachate management system</b> <p>Provide a description of the proposed leachate management system<sup>20</sup> and method for managing leachate (e.g. evaporation, treatment, re-circulation). A written summary of all the related infrastructure<sup>21</sup> should be provided as well as depicted on an appropriately scaled site layout plan (refer to Section 2.14 – Attachment 8).</p> <p>Please also provide the following assessment and management detail:</p> <ul style="list-style-type: none"> <li>water balance calculation<sup>22,23</sup> to predict the volume of leachate generation over time and to demonstrate that the proposed system has sufficient capacity to manage leachate volumes over the operational life of the landfill</li> <li>leachate management and proposed monitoring plan, including:               <ul style="list-style-type: none"> <li>maximum head of leachate on the liner surface and leachate sump during operation of the landfill</li> <li>in-cell leachate monitoring, including the operational controls and infrastructure to be used to control the leachate head</li> <li>leachate extraction/pumping system (including details on flow rate)</li> <li>leachate pond management, including details on operational freeboard, mechanical aeration equipment (if required), and pond level alarms</li> <li>proposed leachate quality monitoring program (refer also to Part 2G)</li> <li>contingency plans for leachate management in the event of breakdown of various components.</li> </ul> </li> </ul>		<input checked="" type="checkbox"/>	<input type="checkbox"/>



Part 2D: Leachate management															
<p>Note 20: Design information requirements for leachate pond design and construction are outlined in Part 2.13 (below).</p> <p>Note 21: Details of the drainage/collection network infrastructure should include information on sumps, collection and extraction pipework and aggregate. Pipe material specifications, spacing gradients and sizing must be provided.</p> <p>Note 22: The water balance must be designed to account for monthly inputs and outputs to demonstrate that the system will be able to operate in a satisfactory manner throughout the year. Cumulative leachate storage over multiple years of operation under average and wet conditions (at least two consecutive years) should also be factored in.</p> <p>Note 23: Operators should use recognised water balance models to estimate leachate generation such as the <a href="#">Hydrologic Evaluation of Landfill Performance (HELP)</a> model originally published by the United States Environmental Protection Agency and modified by Dr Klaus Berger at the University of Hamburg. The model should account for all predicted leachate inputs and outputs from the leachate management system.</p>															
2.13	<p><b>Leachate pond design and construction.</b></p> <p>Provide details of the leachate pond design, including but not limited to:</p> <ul style="list-style-type: none"> <li>• pond dimensions and volumetric capacity<sup>24</sup></li> <li>• pond liner system:               <ul style="list-style-type: none"> <li>◦ configuration of pond liner<sup>25</sup></li> <li>◦ statement of intended performance (overall permeability and containment features)</li> </ul> </li> <li>• associated leachate conveyance infrastructure and equipment and connection points at the leachate pond(s)</li> <li>• liner construction and/or installation<sup>26</sup></li> <li>• construction quality assurance (CQA) measures to be employed<sup>27</sup>.</li> </ul> <p>Design drawings of the liner system including that of the liner anchor trench must be provided (refer to Section 2.15 – Attachment 9).</p> <p>Note 24: pond design must be determined based on the estimated leachate generation including all inputs and outputs. Refer to water balance requirements in Part 2.12.</p> <p>Note 25: Refer to Part 2A for typical liner components – noting that where the leachate pond liner design differs from the landfill liner design, justification should be provided.</p> <p>Note 26: Refer to Part 2A for construction and installation information requirements for pond liners.</p> <p>Note 27: Refer to Part 2A for CQA requirements – CQA provisions for the pond liner can be incorporated into the same CQA plan.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>												
<b>Attachments</b>		<b>N/A</b>	<b>Yes</b>												
2.14	<p><b>Attachment 8: Figure/plan – layout of leachate management system</b></p> <p>Provide a layout plan of the leachate management system which clearly depicts all associated infrastructure and equipment. Multiple plans can be provided.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>												
2.15	<p><b>Attachment 9: Detailed design drawings – leachate pond liner</b></p> <p>Detailed design drawings which clearly depict the following:</p> <table border="1"> <tbody> <tr> <td>a)</td> <td>Basal and side wall liner detail (typical section).</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>b)</td> <td> <p>Inferred groundwater levels (mAHD) relative to the base of the leachate pond base (mAHD), depicted on cross-section drawings (showing at least 2 perpendicular planes on the horizontal, e.g. north-south, east-west, or as appropriate) showing perimeter side slopes/walls. All heights of the base, liner and the perimeter side walls should be shown in mAHD.</p> <p>Cross-sections must clearly demonstrate the separation distance between the lowest point of the leachate pond and underlying water table.</p> </td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>c)</td> <td>Anchor trench detail.</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	a)	Basal and side wall liner detail (typical section).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	b)	<p>Inferred groundwater levels (mAHD) relative to the base of the leachate pond base (mAHD), depicted on cross-section drawings (showing at least 2 perpendicular planes on the horizontal, e.g. north-south, east-west, or as appropriate) showing perimeter side slopes/walls. All heights of the base, liner and the perimeter side walls should be shown in mAHD.</p> <p>Cross-sections must clearly demonstrate the separation distance between the lowest point of the leachate pond and underlying water table.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	c)	Anchor trench detail.	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
a)	Basal and side wall liner detail (typical section).	<input checked="" type="checkbox"/>	<input type="checkbox"/>												
b)	<p>Inferred groundwater levels (mAHD) relative to the base of the leachate pond base (mAHD), depicted on cross-section drawings (showing at least 2 perpendicular planes on the horizontal, e.g. north-south, east-west, or as appropriate) showing perimeter side slopes/walls. All heights of the base, liner and the perimeter side walls should be shown in mAHD.</p> <p>Cross-sections must clearly demonstrate the separation distance between the lowest point of the leachate pond and underlying water table.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>												
c)	Anchor trench detail.	<input checked="" type="checkbox"/>	<input type="checkbox"/>												

Part 2E: Landfill gas management		
<b>NOTE:</b> <ul style="list-style-type: none"> <li>Fugitive landfill gas emissions can present a hazard to people and the environment. Landfill gas also contains many odorous trace gases which can cause degradation of amenity of nearby residential and industrial/commercial land uses.</li> <li>Prior to establishing a landfill facility, consideration should be given to the site's ability to control and manage landfill gas emissions.</li> </ul>		
		<div>N/A</div> <div>Yes</div>
2.16	<b>Landfill gas management system:</b> Provide details of the proposed landfill gas management system including: <ul style="list-style-type: none"> <li>a detailed description of the proposed management system, installation procedures, installation timeline, monitoring, and maintenance procedures, including details on:               <ul style="list-style-type: none"> <li>estimated gas generation rates across the entire lifespan of the landfill<sup>28</sup></li> <li>the containment measures to be implemented to reduce subsurface migration (e.g. installation of appropriate basal and capping liner systems)</li> <li>the collection system (active or passive) and layout of landfill gas piping and extraction wells (vertical or horizontal or both), including details on installation processes and timeframes</li> <li>utilisation of captured gas (e.g. flaring, treatment, and reuse in a system of a combustion)</li> <li>specifications of combustion engines/flare and likely emissions (if relevant)</li> <li>in-waste gas monitoring points, perimeter monitoring bores and associated monitoring program (refer also to Part 2G)</li> <li>contingency plans in the event of breakdown of various components.</li> </ul> </li> </ul> <p>Note 28: Landfill gas generation can be estimated using landfill gas generation models which take account of the potential quantity, rate and composition of the landfill gas generated.</p>	<div><input checked="" type="checkbox"/></div> <div><input type="checkbox"/></div>
<b>Attachments:</b>		<div>N/A</div> <div>Yes</div>
2.17	<b>Attachment 10: Drawings and figures – landfill gas management system</b>  <b>Design drawings and layout figure(s) of the proposed landfill gas management system including, but not limited to:</b> <ul style="list-style-type: none"> <li>in-cell layout of gas collection infrastructure (aerial and cross-section diagrams should be provided where relevant)</li> <li>overview of associated above-ground gas management infrastructure</li> <li>landfill gas monitoring locations.</li> </ul> Multiple drawings and figures can be provided.	<div><input checked="" type="checkbox"/></div> <div><input type="checkbox"/></div>



Part 2F: Surface water management		
<b>NOTE:</b> <ul style="list-style-type: none"> <li>The premises must be designed and constructed to ensure that stormwater is diverted away from the landfill cell, leachate pond and other waste handling areas. This may be achieved through the use of surface grade changes, bunding, interceptor drains, piping and other drainage systems.</li> <li>Stormwater which has come into contact with waste materials must be collected and managed as leachate in the leachate management system.</li> </ul>		
		<div>N/A</div> <div>Yes</div>
2.18	<b>Surface water management<sup>29</sup></b> Provide details on the proposed stormwater management strategies and controls for the landfill premises including, but not limited to: <ul style="list-style-type: none"> <li>diversion of stormwater away from areas containing waste using drainage features, bunds, interceptor drains or other drainage systems</li> <li>details on clean stormwater holding ponds to be constructed (if required); design specifications and an overview of construction works should also be provided</li> <li>details of any proposed controlled releases of clean stormwater into the environment and/or proposed reuse options on-site</li> <li>erosion and sediment control along drainage lines and discharge points, including stormwater flow control, vegetation, detention ponds, minimising land disturbance, and other temporary and permanent erosion protection measures.</li> </ul> <p>Note 29: Guidance on stormwater management can be found in DWER's <a href="#">Stormwater Management Manual for Western Australia</a>.</p>	<div><input checked="" type="checkbox"/></div> <div><input type="checkbox"/></div>
<b>Attachments:</b>		<div>N/A</div> <div>Yes</div>
2.19	<b>Attachment 11: Drawings and figures – surface water management infrastructure</b> Design drawings and layout figure(s) of the proposed surface water management infrastructure.	<div><input checked="" type="checkbox"/></div> <div><input type="checkbox"/></div>

Part 2G: Monitoring requirements		
<b>NOTE:</b> <ul style="list-style-type: none"> <li>A comprehensive monitoring program should be developed to support the ongoing operation of a landfill facility. Aspects that should be included in the program (as a minimum) include leachate, landfill gas, surface water and groundwater. Odour monitoring should also be considered, depending on the environmental siting.</li> <li>The operator must continually review the positioning of monitoring points during the regular review of monitoring data, and as the landfill facility expands consideration must be given to expanding the monitoring network to reflect the design proposals (and refinement of the CSM).</li> <li>Typical monitoring aspects are outlined further below. Where an operator elects not to commit to certain monitoring programs, they must provide clear justification and rationale for this decision.</li> </ul>		
		<div>N/A</div> <div>Yes</div>
2.20	<b>Leachate quality monitoring</b> Provide details of the proposed leachate quality monitoring program (refer also to Part 2D), including, but not limited to, sampling locations, sampling methodology, analysis suite, sampling frequency, and reporting requirements.	<div><input checked="" type="checkbox"/></div> <div><input type="checkbox"/></div>
2.21	<b>Landfill gas monitoring</b> Provide details on the proposed landfill gas monitoring program (refer also to Part 2E), including, but not limited to, sampling locations, well/monitoring point construction specifications, sampling methodology, analysis suite, sampling frequency and reporting requirements.  Proposed sampling locations should give regard to the landfill surface, subsurface (in-waste), perimeter, subsurface services on and adjacent to the site, buildings or structures on and adjacent to the site, and landfill gas treatment/management infrastructure (such as flares and combustion engines).  Action levels for different monitoring locations must be documented to outline what action will be taken to address the matter and/or what further monitoring will be carried out to verify the effectiveness of corrective actions.	<div><input checked="" type="checkbox"/></div> <div><input type="checkbox"/></div>



Part 2G: Monitoring requirements			
2.22	<p><b>Groundwater and surface water monitoring</b></p> <p>Provide details on the proposed groundwater and surface water monitoring program, including, but not limited to:</p> <ul style="list-style-type: none"> <li>• sampling locations</li> <li>• well construction specifications</li> <li>• sampling methodology</li> <li>• analysis suite</li> <li>• sampling frequency</li> <li>• reporting requirements.</li> </ul> <p>The monitoring program should as a minimum seek to establish:</p> <ul style="list-style-type: none"> <li>• the background groundwater quality and levels (in mAHD and mBGL)</li> <li>• the background surface water quality and levels/flow rates and flow direction</li> <li>• the local aquifers, and groundwater flow direction and rates of each aquifer</li> <li>• a monitoring network that acts as an early indicator of leachate contamination in groundwater or surface water prior to offsite migration.</li> </ul> <p>For a new facility, the operator should seek to demonstrate baseline groundwater and/or surface water conditions prior to construction works and to feed the results of this monitoring into the initial CSM development.</p> <p>A sampling and analysis quality plan (SAQP) should be prepared to ensure that the data collected is representative and sufficient to address critical gaps and uncertainties identified in the CSM so that the information obtained provides a reliable basis for continually reviewing site operations and meeting compliance requirements of the operating licence.</p> <p>Further guidance on developing a groundwater and surface monitoring program, including the development of a SAQP, can be sourced from DWER's <a href="#">Assessment and management of contaminated sites guideline</a> and from Schedule B2 of the <a href="#">National Environment Protection (Assessment of Site Contamination) Measure 1999</a> (NEPM).</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Attachments:</b>		N/A	Yes
2.23	<p><b>Attachment 12: Landfill monitoring plan</b></p> <p>Applicants must document the proposed monitoring program in a landfill monitoring plan or a series of equivalent standalone monitoring and/or management plans.</p> <p>The SAQP required in Part 2.22 should be incorporated in this plan.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Part 3: Premises operations			
<p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• In addition to the landfill design and construction, operational practices play an integral role in the protection of the environment.</li> <li>• This section outlines the operational management aspects that must be addressed as part of an application. Focus should be given to the day-to-day activities which are undertaken at the facility and the practices to be implemented to minimise amenity and environmental impacts.</li> </ul>			
		N/A	Yes
3.1	<p><b>Landfill management and operations</b></p> <p>Provide operational detail on the following operational aspects:</p> <ul style="list-style-type: none"> <li>• operational hours of the facility</li> <li>• security fencing and site access</li> <li>• internal traffic control</li> <li>• details on weighbridge for monitoring waste acceptance</li> <li>• waste acceptance,<sup>30</sup> including details of acceptance and handling requirements for different waste types (e.g. putrescibles, asbestos waste, special waste types, contaminated solid wastes, etc.) and record keeping</li> <li>• landfilling method/waste placement, filling sequence and tipping face management (the vertical and horizontal size of the tipping face must be specified).</li> </ul>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Part 3: Premises operations			
	<ul style="list-style-type: none"> <li>waste cover<sup>31</sup> (details on daily, intermediate and final cover, materials to be used, volumes required and storage area pre-use), litter and debris control (measures to prevent the discharge of litter and debris beyond the active landfill area and greater premises boundary)</li> <li>dust management – measures to prevent operations impacting environmental values and social surroundings</li> <li>odour management – measures to protect environmental values and social surroundings from unreasonable emissions of odour</li> <li>noise management – demonstrate and maintain compliance with the assigned levels specified in the Environmental Protection (Noise) Regulations 1997 (Noise Regulations)</li> <li>fire prevention and management (measures to minimise the risk of fires occurring at the facility) and emergency response procedures for fire and other emergencies (e.g. spills, landfill gas emergencies, etc.)</li> <li>vector management (measures to prevent the attraction, refuge, growth and spread of vermin and pests to mitigate impacts to environmental values and social surroundings)</li> <li>chemical and fuel stores, including details of storage requirements</li> <li>environmental monitoring (refer to Part 2G)<sup>32</sup></li> <li>contingency planning (map out all likely incidents and document appropriate corrective measures).</li> </ul> <p>Note 30: Information must be consistent with the requirements outlined in Part 8 (Emissions, discharges, and waste) of the main application form i.e. wastes must be described in accordance with the <a href="#">Landfill Waste Classifications and Waste Definitions 1996</a>.</p> <p>Note 31: Alternative daily and interim cover materials can be proposed but must be supported by details of the physical and chemical properties of the alternative cover together with information on how it will achieve the same or better performance outcomes, taking into consideration seasonal variation.</p> <p>Note 32: Reference can be made to the information provided against Part 2G of this checklist.</p>		
<b>Attachments:</b>		N/A	Yes
3.2	<p><b>Attachment 13: Landfill environmental management plan</b></p> <p>Applicants must document the operational management aspects in a consolidated landfill environmental management plan (LEMP).<sup>33</sup> The landfill monitoring plan (required by part 2G) can form part of the LEMP.</p> <p>Note 33: The LEMP is a dynamic document and must be reviewed on a regular basis as management and operational practices change at the facility. The LEMP should be made available to all operational staff and used in training.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Part 4: Landfill closure and rehabilitation			
<p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>Landfill closure, rehabilitation and aftercare management must be planned and considered in the initial design concept for the landfill facility.</li> </ul>			
		N/A	Yes
4.1	<p><b>Closure and aftercare management</b></p> <p>Provide information about the proposed closure and aftercare management of the facility, including, but not limited to:</p> <ul style="list-style-type: none"> <li>details of future intended land use</li> <li>details of progressive closure, capping and rehabilitation of used cells on the premises</li> <li>final landform and surface contours (pre- and post-settlement) for each landfill cell(s) which forms the scope of the application; a discussion on the final landform in the context of surrounding topography must also be provided</li> <li>landfill cap design detail and drawings (specifications and materials to be used in the final cap) – where geomembranes are proposed to be used in a capping system, similar design detail to that provided in Part 2B (landfill liner specifications) must be submitted (see Section 4.2 – Attachment 14)</li> <li>design detail for connections in the cap to landfill gas and/or leachate collection and monitoring points (where relevant)</li> </ul>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Part 4: Landfill closure and rehabilitation		
<ul style="list-style-type: none"> <li>stormwater management measures for water shed from the cap and final landform</li> <li>construction quality assurance (CQA) measures to be employed in cap construction/installation</li> <li>details on post-closure monitoring and aftercare management<sup>34</sup> (details of proposed environmental monitoring must be consistent with the information requirements outlined in Part 2G)</li> </ul> <p>Note 34: Post-closure monitoring and aftercare management must include inspections of the cap and surveillance of differential settlement to verify continually the integrity of the landfill cap.</p>		
<b>Attachments:</b>		<b>N/A</b>
4.2	<p><b>Attachment 14: Landfill closure plan (including design figures)</b></p> <p>Applicants must document the proposed objectives and closure and rehabilitation measures (as required by Part 4.1) in a consolidated landfill closure plan (LCP).</p> <p>Within the plan the following drawings/figures must be provided:</p> <ul style="list-style-type: none"> <li>a) final contour map – depicting proposed final contours, top &amp; side slopes, and surface drainage features</li> <li>b) typical cross-sections of the proposed landfill cap and design (refer to Part 2A for liner design/construction information requirements – the same should be followed for the capping liner)</li> <li>c) location of passive gas and leachate management infrastructure intended to remain on the premises throughout closure.</li> </ul>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>

## **Attachment No. 10 – Application Fee**

The land developer has confirmed that, a year ago, it received a quotation for the proposed capping works for [REDACTED]. This cost has been increased by 15% to cover any cost increase over the past year; hence, the construction cost is estimated to be [REDACTED].

Refer to the attached fee calculator based on the above anticipated construction cost.

Application Page 3 of 5  
Works Approval Fees

Fee start date 05/11/2024

Fees calculator

If you are applying for a works approval you must provide the following details in accordance with the Environmental Protection Regulations 1987. Guidance on calculating works approval fees is available on the DWER website.

Fees relate to the cost of the works, including all capital costs (inclusive of GST) associated with the construction and establishment of the works proposed under the works approval application. This includes, for example, costs associated with earth works, hard stands, drainage, plant hire, equipment, processing plant, relocation of equipment and labour hire.

Costs exclude:

land purchase costs

Premises Component(s)

Category	Capacity Range	Fee	
63 - Class I inert landfill site	Not more than 500 tonnes per year	N/A	<a href="#">Remove</a>
<div>Selection required</div>	<div>Select capacity range</div>		<div>Add</div>
Total Premises Component(s)		N/A	

Premises construction cost

Total cost	Rate

Calculate

Total Fee

Total Works Approval Fee	
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## **Attachment No. 11 – Confidential or Commercially Sensitive Information**

Nil.