

# **Decision Report**

### **Application for Works Approval**

### Division 3, Part V Environmental Protection Act 1986

Works Approval Number W6191/2018/1

Applicant Adaman Resources Pty Ltd

**ACN** 620 314 007

File Number DER2018/001588

Premises Kirkalocka Project

Part of Mining Lease M59/234

DAGGAR HILLS WA 6638

As defined by the coordinates in Schedule 1 of the Works

Approval

Date of Report 20 March 2019

Status of Report Final

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## 1. Definitions of terms and acronyms

In this Decision Report, the terms in Table 1 have the meanings defined.

**Table 1: Definitions** 

| Term                          | Definition  |  |  |  |  |  |
|-------------------------------|---|--|--|--|--|--|
| ACN                           | Australian Company Number   |  |  |  |  |  |
| Category/<br>Categories/ Cat. | Categories of Prescribed Premises as set out in Schedule 1 of the EP<br>Regulations   |  |  |  |  |  |
| Decision Report               | refers to this document.  |  |  |  |  |  |
| Delegated Officer             | an officer under section 20 of the EP Act.  |  |  |  |  |  |
| Department                    | means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act. |  |  |  |  |  |
| DWER                          | Department of Water and Environmental Regulation  |  |  |  |  |  |
| EPA                           | Environmental Protection Authority  |  |  |  |  |  |
| EP Act                        | Environmental Protection Act 1986 (WA)  |  |  |  |  |  |
| EP Regulations                | Environmental Protection Regulations 1987 (WA)  |  |  |  |  |  |
| EPBC Act                      | Environment Protection and Biodiversity Conservation Act 1999 (Cth)   |  |  |  |  |  |
| HDPE                          | means high density polyethylene   |  |  |  |  |  |
| Minister                      | the Minister responsible for the EP Act and associated regulations  |  |  |  |  |  |
| tpa                           | tonnes per annum  |  |  |  |  |  |
| Noise Regulations             | Environmental Protection (Noise) Regulations 1997 (WA)  |  |  |  |  |  |
| Occupier                      | has the same meaning given to that term under the EP Act.   |  |  |  |  |  |
| Prescribed<br>Premises        | has the same meaning given to that term under the EP Act.   |  |  |  |  |  |
| Premises                      | refers to the premises to which this Decision Report applies, as specified at the front of this Decision Report   |  |  |  |  |  |
| Primary Activities            | as defined in Schedule 2 of the Works Approval  |  |  |  |  |  |
| Risk Event                    | As described in <i>Guidance Statement: Risk Assessment</i>  |  |  |  |  |  |
| UDR                           | Environmental Protection (Unauthorised Discharges) Regulations 2004 (WA)  |  |  |  |  |  |

### 2. Purpose and scope of assessment

#### 2.1 Application details

Adaman Resources Pty Ltd (the Applicant) has recently acquired the Kirkalocka Gold Mine located 60km south of Mount Magnet. The site has been in care and maintenance since 2008 and the Applicant wishes to recommence operations. On the 9 November 2018 the Applicant applied for a works approval (the Application) to construct a putrescible landfill as described under Category 89 of Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations). On 14 February 2019 the Applicant advised that the location of the proposed landfill had been revised and resubmitted supporting documentation detailing changes to the Applicant. Table 2 lists the documents submitted during the assessment process.

Table 2: Documents and information submitted during the assessment process

| Document/information description  | Date received    |  |
|---|------------------|--|
| Works Approval (W6191/2018/1) application form and supporting documentation   | 8 November 2018  |  |
| Email entitled "RE: APPLICATION NOTIFICATION - W6190 & W6191 Kirkalocka Project - WORKS APPROVAL APPLICATIONS, REQUEST FOR FURTHER INFORMATION" dated 18 January 2019 | 18 January 2019  |  |
| Works Approval (W6191/2018/1) revised supporting documentation (February 2018)  | 14 February 2019 |  |
| Email entitled "190319 DWER WAA Draft Approval Queries Cat 89 W6191.pdf" dated 19 March 2019  | 19 March 2019    |  |

### 2.2 Classification of premises

Table 3 lists the prescribed premises categories that have been applied for.

**Table 3: Prescribed Premises Categories** 

| Classification of Premises | Description  | Approved Premises production or design capacity or throughput |  |  |
|----------------------------|--|---|--|--|
| Category 89                | Putrescible landfill site: premises on which waste (as determined by reference to the waste type set out in the document entitled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer, as amendment from time to time) is accepted for burial. | 25 tonnes per annual period                                   |  |  |

#### 3. Overview of Premises

### 3.1 Operational aspects

The landfill will receive waste from mining activities (e.g. general waste associated with the mine camp) for burial in two landfill cells via the 'trench and fill method' whereby a trench will be dug and excavated soil later used as cover. The design capacity of the landfill is 25 tonnes per annum (tpa) (operating over a period of 20 years), however the expected throughput is 20 tpa over a period of 7 years. Only waste classed as "putrescible" as per the *Landfill Waste Classification and Waste Definitions 1996* will be accepted at the landfill. Other wastes (e.g. waste oils, chemicals, etc.) will be taken offsite for disposal. No tyres, asbestos or clinical waste will be accepted.

The landfill also includes a Temporary Waste Storage Area for the temporary storage of waste prior to burial in the landfill trench. Waste received at the Temporary Waste Storage Area will not remain in this area for longer than 24 hours.

Recyclable material will be stored within three designated recycling areas prior to removal offsite:

- Metal Recycling;
- Poly Recycling (e.g. HDPE and other heavy duty plastics); and
- Ancillary Recycling (e.g. other recyclables such as glass, cardboard, paper and other plastics).

#### 3.2 Infrastructure

The landfill facility infrastructure, as it relates to Category 89 activities, is detailed in Table 4 and with reference to the Site Layout Plan (Figure 1).

Table 4 lists infrastructure associated with each prescribed premises category.

Table 4: Landfill facility Category 89 infrastructure

|   | Infrastructure                                       | Site Plan Reference         |
|---|--|-----------------------------|
| 1 | 2 x 5m x 40m x 3m Landfill Cells                     | Site layout plan (Figure 1) |
| 2 | Temporary Waste Storage Area including drainage sump |                             |
| 3 | Metal, Poly and Ancillary Recycling Areas            |                             |

### 4. Legislative context

Table 5 summarises approvals relevant to the assessment.

Table 5: Relevant approvals and tenure

| Legislation  | Number                    | Approval  |  |  |  |  |
|--|---------------------------|---|--|--|--|--|
| Environmental Protection<br>Act 1986   |                           | No clearing is approved under this Works Approval. The Applicant has indicated that clearing will be carried out under an exemption   |  |  |  |  |
| Environmental Protection<br>(Clearing of Native<br>Vegetation) Regulations<br>2004 | N/A                       | which applies under Regulation 5 (Item 25) of the <i>Environmental Protection (Clearing of Native Vegetation) Regulations 2004</i> relating to clearing undertaken under the <i>Mining Act 1978</i> . |  |  |  |  |
|  |                           | Kirkalocka Gold SPV Pty Ltd is the registered holder of M59/234 which is a wholly owned subsidiary of Adaman Resources Pty Ltd.   |  |  |  |  |
| Mining Act 1978  | MP 37823<br>approved 2013 | Mining Proposal managed by DMIRS.   |  |  |  |  |
|  |                           | An updated Mining Proposal was submitted to DMIRS on 9 March 2019 and is currently under assessment.  |  |  |  |  |

#### 5. Consultation

The Application was open for public consultation from 13 December 2018 to 3 January 2019.

No submissions were received. The following stakeholders were contacted directly:

- Department of Mines, Industry Regulation and Safety;
- Department of Biodiversity, Conservation and Attractions;
- Shire of Yalgoo; and
- Shire of Mount Magnet.

### 6. Location and siting

#### 6.1 Siting context

The Kirkalocka Gold Mine is an existing mine located on mining tenement M59/234, 70km south of Mount Magnet. The area consists primarily of pastoral landuse and the Premises is located within the boundaries of Kirkalocka Station and Nalbarra Station. The mine also crosses the boundaries of two local government authorities; Shire of Mount Magnet and Shire of Yalgoo. North West Coastal Highway, a major state road, is located approximately 2km east of the Premises.

#### 6.2 Residential and sensitive Premises

The distances to residential and sensitive receptors are detailed in Table 7.

Table 6: Receptors and distance from activity boundary

| Sensitive Land Uses                                 | Distance from Prescribed Activity                |  |  |  |
|---|--|--|--|--|
| Residential Premises (Kirkalocka Station Homestead) | ~12km north of the boundary of M59/234           |  |  |  |
| Residential Premises (Nalbarra Station Homestead)   | ~14km west north west of the boundary of M59/234 |  |  |  |

**Key finding:** In accordance with the *Guidance Statement: Risk Assessments*, the Delegated Officer has determined that this assessment will not consider the risk of potential impacts to people in accommodation camps occupied by the Applicant. Potential impacts to people at these locations are subject to requirements under occupational health and safety regulations and obligations, therefore, the Delegated Officer considers that people at the accommodation camp are excluded as potential receptors.

### 6.3 Specified ecosystems

Specified ecosystems are areas of high conservation value and special significance that may be impacted as a result of activities at or Emissions and Discharges from the Premises. The distances to specified ecosystems are shown in Table 8. Table 8 also identifies the distances to other relevant ecosystem values which do not fit the definition of a specified ecosystem.

The table has also been modified to align with the Guidance Statement: Environmental Siting.

Table 7: Environmental values

| Specified ecosystems      | Distance from the Premises  |  |  |  |  |
|---------------------------|---|--|--|--|--|
| Threatened/Priority Fauna | Shield-backed Trapdoor Spider ( <i>Idiosoma nigrum</i> ) listed as "Endangered" under the <i>Wildlife Conservation Act</i> 1950 and "Vulnerable" under the <i>Environmental</i> |  |  |  |  |

|   | Protection and Biodiversity Conservation Act 1999 recorded to occur on the premises. |  |  |  |  |
|---|--|--|--|--|--|
| Threatened Ecological Communities (TEC) | The nearest TEC is located approximately 40km away.                                  |  |  |  |  |
|   | Distance from the Premises   |  |  |  |  |
| Designated Areas                        | Distance from the Premises   |  |  |  |  |

#### 6.4 Groundwater and water sources

The distances to groundwater and water sources are shown in Table 9.

**Table 8: Groundwater and water sources** 

| Groundwater and water sources | Distance from Premises   | Environmental value  |  |  |
|-------------------------------|--|--|--|--|
| Watercourses/ waterbodies     | Kirkalock Creek is located approx.<br>6km north west of thelandfill. A<br>minor drainage line is located 1km<br>from the landfill, north of the mine pit<br>and tailings storage facility (TSF)<br>that drains north west towards<br>Kirkalocka Creek.   | The region is used for pastoral purposes and water within creeks may be utilised by stock.   |  |  |
| Groundwater                   | Depth to groundwater is approximately 6m at the landfill. Groundwater salinity at the mine (near the TSF) ranges from 840mg/L to 3500mg/L (based on 2015 monitoring data).  The nearest privately owned bore (Curara Well ID 61812804) is located approximately 3.1km southwest of the landfill (based on available GIS dataset –WIN Groundwater Sites). | Groundwater is used onsite for industrial and domestic purposes.  Groundwater in the regional area may be used for stock watering.  There are no Public Drinking Source Water Areas within 50km of the premises. |  |  |

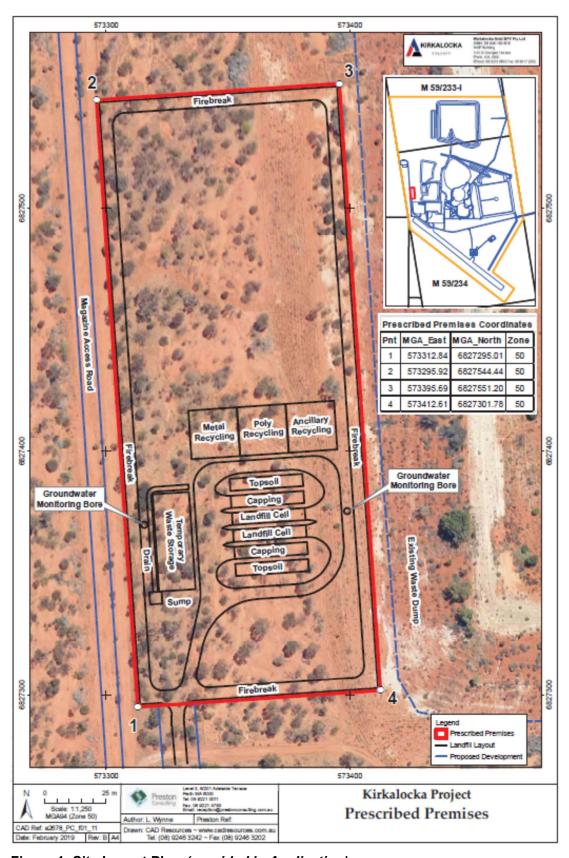


Figure 1: Site Layout Plan (provided in Application)

#### 7. Risk assessment

### 7.1 Determination of emission, pathway and receptor

In undertaking its risk assessment, DWER will identify all potential emissions pathways and potential receptors to establish whether there is a Risk Event which requires detailed risk assessment.

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission. Where there is no actual or likely pathway and/or no receptor, the emission will be screened out and will not be considered as a Risk Event. In addition, where an emission has an actual or likely pathway and a receptor which may be adversely impacted, but that emission is regulated through other mechanisms such as Part IV of the EP Act, that emission will not be risk assessed further and will be screened out through Table 9 and Table 10.

The identification of the sources, pathways and receptors to determine Risk Events are set out in Table 9 and Table 10 below.

Table 9. Identification of emissions, pathway and receptors during construction

| Risk Events  |                     |  |                          |  | C                   | 1 :11:11              |       | Reasoning  |
|--|---------------------|--|--------------------------|--|---------------------|-----------------------|-------|--|
| Sources/Activitie  | Potential emissions | Potential receptors  | Potential pathway        | Potential adverse impacts                        | Consequence rating* | Likelihood<br>rating* | Risk* |  |
| Excavation of  | Noise               | Closest human receptors (pastoral stations) approximately 12km from prescribed premises. |                          | None   | N/A                 | N/A                   | N/A   | The nearest residential receptor is located 12km away. The Delegated Office considers there is sufficient separation from sensitive receptors to mitigate the risk of dust and noise impacts.  |
| Excavation of<br>landfill trench and<br>construction<br>waste storage<br>areas | Dust                | Priority fauna within tenement M59/234   | Air / wind<br>dispersion | Impacts to vegetation habitat for priority fauna | Minor               | Rare                  | Low   | The minor construction works (excavation) are not expected to generate significant dust emissions. Water, and chemical suppressants if required, will be applied to wet down roads and cleared areas to minimise dust  The proposed controls are expected to be sufficient at mitigating dust emissions. |

<sup>\*</sup>Consequence ratings, likelihood ratings and risk descriptions are detailed in the Department's Guidance Statement: Risk Assessments (February 2017)

Table 10: Identification of emissions, pathway and receptors during operation

| Risk Event  |                     |   |  |  | Consequence     | Likelihood |       |   |
|---|---------------------|---|--|--|-----------------|------------|-------|---|
| Source/Activities   | Potential emissions | Potential receptors   | Potential pathway  | Potential adverse impacts  | rating* rating* |            | Risk* | Reasoning   |
| Stockpiled cover<br>material, trench<br>excavation,<br>vehicle movement<br>and covering<br>activities | Fugitive dust       | Priority fauna within<br>tenement M59/234   | Air / wind<br>dispersion   | Impacts to vegetation habitat for priority fauna                         | Minor           | Rare       | Low   | Fugitive dust emissions associated with waste burial and cover stockpiles are expected to be minimal. The Applicant will apply the following controls to minimise dust emissions:  • Minimising disturbance;  • Wetting down roads, stockpiles and cleared areas; and  • Use of dust stabilising agents as required.  The proposed controls are expected to be sufficient at mitigating dust emissions.   |
| Vehicular<br>movement and<br>covering activities  | Noise               | Closest human<br>receptors (pastoral<br>stations) approximately<br>12km from prescribed<br>premises.  | Air / wind<br>dispersion   | Health and amenity impacts   | N/A             | N/A        | N/A   | The nearest residential receptor is located 12km away. The Delegated Office considers there is sufficient separation from sensitive receptors to mitigate the risk of dust and noise impacts.   |
| Waste<br>acceptance,<br>handling, storage<br>and burial   | Windblown<br>waste  | No residents or<br>sensitive receptors in<br>close proximity. Priority<br>fauna (Shield-backed<br>Trapdoor Spider) found<br>within tenement<br>M59/234. | Windblown<br>waste and<br>deposition<br>outside of<br>landfill cells | Pollution of the environment with plastics and other windblown materials | Slight          | Unlikely   | Low   | The Applicant will apply the following controls in accordance with the Landfill Regulations:  The landfill is designed to accept small quantities of waste (25tpa) although estimated throughput is 20tpa;  Waste will be compacted and covered after each dumping activity if practical or covered at least on a monthly basis with inert material stockpiled next to the landfill cells;  The site of the tipping area will not exceed 2m in height and 5 metres in length;  The landfill will be fenced to capture any windblown waste and waste collected on a regular basis;  Litter screens will be used to capture litter at the |

|   |   |  |  |        |      |     | active tipping area; and     Cells will be capped with 1m of fill on completion of landfilling activities.  These Applicant controls are suitable for regulatory control under the Works Approval, and Licence respectively.  The following Applicant controls minimise the   |
|---|---|--|--|--------|------|-----|---|
| Contaminated stormwater associated with contact with deposited waste and sediment | Minor ephemeral creek<br>1km north draining to<br>Kirkalocka Creek 6km<br>away. | Direct<br>discharge<br>(stormwater<br>contaminated<br>with leachate<br>and sediment) | Contamination of stormwater potentially impacting on surface water systems | Slight | Rare | Low | <ul> <li>consequence and likelihood of a risk event:</li> <li>The landfill is designed to accept small quantities of waste (25tpa) although estimated throughput is 20tpa;</li> <li>The landfill will only receive Putrescible Waste as defined in the Landfill Definitions;</li> <li>The gate at the entrance will be locked when not in use to prevent unauthorised access and disposal of unauthorised waste types (e.g/ hazardous wastes);</li> <li>Signage will be installed informing staff and contractors using the facility of the types of waste that can be accepted to ensure only the correct waste types are accepted at the Premises;</li> <li>Records of the waste types and quantities will be recorded to ensure that only acceptable waste types are received at the landfill;</li> <li>Uncontaminated stormwater will be directed away from the operational areas via a perimeter drainage channel installed upslope of the landfill;</li> <li>Stormwater falling within the landfill trenches will be contained within the trenchers; and</li> <li>Stormwater from the Temporary Waste Storage Area will be collected in a drainage sump sized to contain a 1 in 20 year rainfall event. The sump will be inspected regularly to ensure capacity is maintained and excavated should it be required to remove sediment build up.</li> </ul> |

|  |  |                                     |  |       |      |     | These Applicant controls are suitable for regulatory control under the Works Approval, and Licence respectively  The Applicant will apply the following controls in  |
|--|--|-------------------------------------|--|-------|------|-----|--|
| Fire<br>(contaminated<br>fire water and<br>burnt<br>materials) | Minor ephemeral creek<br>1km north draining to<br>Kirkalocka Creek 6km<br>away.<br>Depth to groundwater<br>6mbgl | Direct<br>discharge                 | Contamination of soil, surface waters and groundwater. | Minor | Rare | Low | <ul> <li>accordance with the Landfill Regulations:</li> <li>No waste will be burnt on the Premises;</li> <li>Only putrescible waste will be accepted for burial at the landfill. No tyres will be accepted for storage or burial;</li> <li>Waste will be compacted and covered after each dumping activity if practical or covered at least on a monthly basis; and</li> <li>The size of the tipping area will not exceed 2m above the excavated ground level (with an additional 1m to allow for capping on closure) and 5 metres in length.</li> <li>These Applicant controls are suitable for regulatory control under the Works Approval, and Licence respectively.</li> </ul> |
| Fire (Smoke)   | Closest human<br>receptors (pastoral<br>stations) approximately<br>12km from prescribed<br>premises.             | Air / wind<br>dispersion<br>(smoke) | Public health and amenity.                             | N/A   | N/A  | N/A | No receptor present  |

|  | Seepage of leachate | Groundwater 6mbgl | Infiltration to<br>underlying<br>groundwater | Contamination of soil and impacts to groundwater or surface water quality | Slight | Unlikely | Low | <ul> <li>The following Applicant controls minimise the consequence and likelihood of a risk event:</li> <li>The landfill is designed to accept small quantities of waste (25tpa);</li> <li>Only putrescible waste will be received at the landfill. The landfill will not receive contaminated waste such as oils and chemicals;</li> <li>The gate at the entrance will be locked when not in use to prevent unauthorised access;</li> <li>Signage will be installed informing staff and contractors using the facility of the types of waste that can be accepted;</li> <li>Records of the waste types and quantities will be recorded to ensure that only acceptable waste types are received at the landfill; and</li> <li>Uncontaminated stormwater will be directed away from the operational areas.</li> <li>These Applicant controls are suitable for regulatory control under the Works Approval, and Licence respectively.</li> <li>The Applicant has committed to installing 2 groundwater monitoring bores with groundwater quality monitored on a 6 monthly basis. The Delegated Officer has determined that the low level of risk does not require groundwater monitoring to be conditioned on the works approval or licence.</li> </ul> |
|--|---------------------|-------------------|--|---|--------|----------|-----|---|
|--|---------------------|-------------------|--|---|--------|----------|-----|---|

<sup>\*</sup>Consequence ratings, likelihood ratings and risk descriptions are detailed in the Department's Guidance Statement: Risk Assessments (February 2017)

### 8. Applicant's comments

The Applicant was provided with the draft Decision Report and draft issued Works Approval on 12 March 2019. With the exception of providing additional information as requested by DWER, the Applicant did not provide comments on the draft documents.

#### 9. Conclusion

This assessment of the risks of activities on the Premises has been undertaken with due consideration of a number of factors, including the documents and policies specified in this Decision Report (summarised in Appendix 1).

Based on this assessment, it has been determined that the Issued Works Approval will be granted subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

Although short construction timeframes are expected the Works Approval has been issued for a period of 3 years. The works approval allows the Applicant to undertake works, subject to conditions, in addition to allowing the acceptance of waste following the completion of works and as the Premises commences operating, also subject to conditions.

It is expected that the Applicant will apply for a licence towards the completion of installing the first Landfill Cell. The determined controls for a licence will be generally consistent with the operation based conditions outlined in Table 10 and included on the works approval as follows:

- 1. Operation infrastructure and equipment;
- 2. Waste type restrictions and waste classification;
- Monitoring of waste inputs;
- Post closure requirements: and
- 5. Annual reporting.

Final determination of licence controls will consider information submitted by the Applicant in its licence application and in response to works approval requirements.

Operation under the Works Approval has been authorised for period of 3 months, following the submission of written confirmation that works have been completed, while the application for licence is assessed.

Caron Goodbourn Manager, Process Industries

Delegated Officer under section 20 of the Environmental Protection Act 1986

# **Appendix 1: Key documents**

| Document title  | Availability                          |  |  |  |
|---|---------------------------------------|--|--|--|
| Works Approval (W6191/2018/1) application form and supporting documentation (November 2018)   | DWER records (A1737472)               |  |  |  |
| Email entitled "RE: APPLICATION NOTIFICATION - W6190 & W6191 Kirkalocka Project - WORKS APPROVAL APPLICATIONS, REQUEST FOR FURTHER INFORMATION" dated 18 January 2019 | DWER records (A1763750)               |  |  |  |
| Works Approval (W6191/2018/1) revised supporting documentation (February 2018)  | DWER records (A1767594)               |  |  |  |
| Environmental Protection (Rural Landfill) Regulations 2002  | Accessed at www.leigslation.wa.gov.au |  |  |  |
| DER, July 2015. Guidance Statement: Regulatory principles. Department of Environment Regulation, Perth.   |                                       |  |  |  |
| DER, October 2015. <i>Guidance Statement: Setting conditions</i> . Department of Environment Regulation, Perth.   | accessed at www.dwer.wa.gov.au        |  |  |  |
| DER, August 2016. <i>Guidance Statement: Licence duration</i> . Department of Environment Regulation, Perth.  |                                       |  |  |  |
| DER, February 2017 <i>Guidance Statement: Risk Assessments</i> . Department of Environment Regulation, Perth.   |                                       |  |  |  |
| DER, February 2017. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.   |                                       |  |  |  |
| DWER, April 2018. Landfill Waste Classification and Waste Definitions 1996 (as amended 2018), Department of Water and Environmental Regulation, Perth                 |                                       |  |  |  |

# **Attachment 1: Issued Works Approval W6191/2018/1**