



Amendment Notice 2

Licence Number L7799/2001/8

Licence Holder Southern Metropolitan Regional Council

File Number: DER2015/001639

Premises

Regional Resource Recovery Centre
350 Bannister Road
CANNING VALE WA 6155

Legal description –
Part of Lot 77 and Part of Lot 78 on Deposited Plan
2903

Being the area bound by Latitude/Longitude points:
115.8910, -32.0739;
115.8931, -32.0758;
115.8874, -32.0777; and
115.8869, -32.0772

Date of Amendment 9 July 2018

Amendment

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

Date signed: 9 July 2018

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

Definitions and interpretation

Definitions

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

Table 1: Definitions

Term	Definition
ACN	Australian Company Number
Amendment Notice	refers to this document
Category/ Categories/ Cat.	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department Administering the <i>Environmental Protection Act 1986</i> Locked Bag 33 Cloisters Square PERTH WA 6850 info@dwer.wa.gov.au
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.
DER	Department of Environment Regulation. This was the name of the former Department now known as DWER.
DWER	Department of Water and Environmental Regulation
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
Existing Licence	The Licence granted under Part V of the EP Act on 26 March 2015, and as amended
Licence Holder	Southern Metropolitan Regional Council (SMRC)
m ³	cubic metres
Minister	the Minister responsible for the EP Act and associated regulations
MS	Ministerial Statement

Noise Regulations	<i>Environmental Protection (Noise) Regulations 1997 (WA)</i>
Occupier	has the same meaning given to that term under the EP Act.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Decision Report applies, as specified at the front of this Decision Report.
Risk Event	as described in <i>Guidance Statement: Risk Assessment</i>

Amendment Notice

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

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

- *Guidance Statement: Regulatory Principles (July 2015)*
- *Guidance Statement: Setting Conditions (October 2015)*
- *Guidance Statement: Land Use Planning (February 2017)*
- *Guidance Statement: Decision Making (February 2017)*
- *Guidance Statement: Risk Assessment (February 2017)*

Amendment description

On 8 May 2018 the Southern Metropolitan Regional Council (SMRC) submitted an Application to DWER for proposed upgrades to the Waste Composting Facility (WCF) tipping floor operations. The Application is supported by additional documentation provided to DWER on 8 June 2016 titled *Southern Metropolitan Regional Council Regional Resource Recovery Centre – Licence Amendment Application L7799/2001/8* (SMRC, May 2018). The upgrade proposed is for the installation of a new sorting platform and associated infrastructure within the existing WCF.

Process description

Information from the documentation: *Southern Metropolitan Regional Council Regional Resource Recovery Centre – Licence Amendment Application L7799/2001/8* (SMRC, May 2018)

Weekly collections of Municipal Solid Waste (MSW) from member councils currently utilise a two bin system for MSW and recyclables. MSW is composted as a mixed waste at the SMRC waste composting facility, and recyclables are processed at the premises' Materials Recycling Facility (MRF).

The WCF has a design life to 2023 after which time the digesters are unlikely to be viable to continue to operate due to high maintenance and repair costs (SMRC, May 2018). There is now an opportunity, with the implementation of the three bin Food Organics Garden Organics (FOGO) collection and processing system, to move to a source separated organics collection system where waste is more efficiently sorted. The intended purpose of the proposed sorting platform is to provide for a safer and more efficient environment where manual sorting of the FOGO waste is achieved, allowing non-organic and non-process material to be removed from the waste stream and placed into transport containers for off-site disposal (SMRC, 2018). A diagram depicting a summarised version of the FOGO pre-sort process is shown in Attachment 2 of this Amendment Notice.

A Komptech Mustang trommel will be utilised to separate material by size, allowing material 40mm and over to be processed through the sorting platform. Material less than 40mm in size will be recovered via an under-discharge conveyor.

Mobile plants such as a Volvo L60 wheel loader and hooklift truck will be utilised to place unsorted FOGO into the trommel feed hopper, remove trommel fines, manage stockpiles and remove the 30m³ bins under the sort cabin.

Proposed Construction works and design

Information from the documentation: *Southern Metropolitan Regional Council Regional Resource Recovery Centre – Licence Amendment Application L7799/2001/8* (SMRC, May 2018)

The proposed sorting platform is a steel framed platform support structure, bolted to the existing concrete floor along the southern wall of the tipping building. Power will be supplied to the platform from the existing WCF site motor control room. A touch screen panel on main Motor Control Centre (MCC) allows full user control of conveyor speeds, runtime, faults and alarm history with the option to add a Supervisory Control and Data Acquisition (SCADA) system if required to export data.

The platform will comprise of:

- A load hopper with heavy duty sides to retain infeed loads from infeed loading;
- A 26m x 1.2m slider bed sorting conveyor complete with heavy duty belt, gear drive and motor, and support structure. 400mm high side walls and support leading into the sort cabin;
- Access stairs and railing;
- Fully enclosed Heating, Ventilation and Air-conditioning (HVAC) Sort Cabin (14m long, 4.8m wide, 3.2m high), comprising of support structure, four double glazed viewing windows, four sorting bays with chutes on both sides of the belt to feed open top skip bins, and extraction fans/ventilation;
- Steinhert overband magnet with the support structure and chute extraction at the end of the sort line, to remove ferrous items prior to discharge onto the tipping floor;
- Variable Speed Drives on all belts to assist with metering and controlling the flow of green waste, as well as a pause function on the sorting belts.

The Engineering Design for the sorting cabin and associated infrastructure is shown in Attachment 1 of this Amendment Notice. A diagram showing the revised layout of the tipping shed is shown in Attachment 3 of this Amendment Notice.

The installation and construction of the sorting platform and associated infrastructure will take approximately 7 days, with the utilisation of a crane to move the infrastructure into place to occur over a weekend period. The time that the doors to the Tip Floor will be open for crane movement will be minimal, and within the odour management system's current capacity to maintain negative pressure. Monitoring will be undertaken of fans, humidifier performance and negative pressure during the works and installation.

The existing infrastructure and pollution control equipment will service the new sorting platform, given that there are no changes to volume of waste on the existing tipping floor.

The operational activity of the proposed sorting platform fits within the existing licence categories for the premises, and the Application indicates that there will be no change to the production and design capacity of the premises following the upgrade of the tipping floor operations. The new sorting platform will allow for more efficient and effective waste stream processing to be undertaken as the waste feedstock transitions from Municipal Solid Waste (MSW) to the FOGO system.

Table 2 provides a summary of the applicable prescribed premises categories.

Table 2: Proposed design capacity changes

Category	Current design capacity	Proposed design capacity	Description of proposed amendment
67A	No more than 109,200 tonnes per year	No more than 109,200 tonnes per year	No change
61A	No more than 52,000 tonnes per year	No more than 52,000 tonnes per year	No change

Ministerial Statement – assessment of regulatory duplication

In regulating the premises under Part V, Division 3 of EP Act, DWER will seek to avoid duplication of requirements imposed under Part IV. Pursuant to section 59B(7) of the EP Act, DWER will also not amend a Part V licence that is contrary to, or otherwise than in accordance with, an implementation agreement or decision. The proposed amendment to the licence does not duplicate or contradict the requirements of the relevant Ministerial Statement.

The Licence Holder holds the Part IV approvals listed in Table 3.

Table 3 – Relevant Ministerial Statements

Legislation	Number	Approval
<i>Environmental Protection Act 1986 - Part IV</i>	Ministerial Statement 517	<p>Report of the EPA – Bulletin 938</p> <p>Provides for the construction and operation of a Regional Resource Recovery Centre for the separation and processing of waste, with the three main components:</p> <ul style="list-style-type: none"> - An in-vessel composting facility; - A materials recycling facility; and - A green waste processing facility. <p>The in-vessel composting facility is to be operated under negative pressure and services by biofilters.</p>

Amendment history

Table 4 provides the amendment history for L7799/2001/8.

Table 4: Licence amendments

Instrument	Issued	Amendment
L7799/2001/8	27/03/2014	Licence re-issued
L7799/2001/8	29/08/2014	Amendment to correct administrative errors and update biofilter monitoring and compliance reporting
L7799/2001/8	29/04/2016	Amendment to expiry date of licence as per DER's Notice of Amendment to Licence Expiry Dates
L7799/2001/8	27/03/2015	Amendment to increase tonnage per year and remove the monthly limit of waste collected at the facility
L7799/2001/8	20/12/2017	Amendment Notice 1 – Administrative changes only
L7799/2001/8	09/07/2018	Amendment Notice 2 – Inclusion of new sorting platform to the WCF for FOGO processing.

Location and receptors

Table 5 below lists the relevant sensitive land uses in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 5: Receptors and distance from activity boundary

Residential and sensitive premises	Distance from Prescribed Premises
Residential premises within the suburb of Leeming.	Approximately 400m north west of the WCF.
Bush Forever site	Adjacent to the premises on the western boundary, however note that the site is unlikely to be impacted by the proposed works/operation of the sorting platform

Risk assessment

Tables 6 and 7 below describe the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. Both tables identify whether the emissions present a material risk to public health or the environment, requiring regulatory controls.

Table 6: Risk assessment for proposed amendment during construction

Risk Event						Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities		Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts				
Cat 67A Compost manufacturing and soil blending	Installation of sorting platform	Noise associated with installation activity and vehicle movements	Sensitive residential premises within Leeming, approx. 400m north of the premises	Air	Health and amenity impacts	Minor	Rare	Low	Construction works will take up to 7 days, with the majority of the works being undertaken within the existing enclosed WCF. Crane movements may result in localized noise impacts. Given the distance to the nearest residences and short duration of works, the Delegated Officer has determined that the risk of noise impacts for the construction and installation of the sorting platform is considered to be low .
		Odour from the tipping floor of the Waste Composting Facility during the installation activity	Sensitive residential premises within Leeming, approx. 400m north of the premises	Air	Health and amenity impacts	Minor	Rare	Low	Odour emissions may occur when the doors of the WCF are opened for construction works. During the period of works (7 days) negative pressure to the building will be maintained and monitored to direct air emissions to the odour management systems. Given the short term period of works and the maintenance of the existing odour management systems during works, the Delegated Officer has determined that the risk of odour during construction and installation is low .

Table 7: Risk assessment for proposed amendments during operation

Risk Event						Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities		Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts				
Cat 67A Compost manufacturing and soil blending	Operation of the new sorting platform	Noise associated with the running of the conveyors, trommel, sorting of waste, and vehicle movements.	Sensitive residential premises within Leeming, approx. 400m north of the premises	Air	Health and amenity impacts	Minor	Rare	Low	<p>There is no change to the overall emissions and discharges anticipated from the operation of the new waste sorting platform as waste input remains the same and the platform is located within the existing enclosed WCF.</p> <p>The Delegated Officer considers that noise emissions from the new platform will be consistent with existing operations, and are not likely to be exacerbated. Therefore the risk is considered to be low.</p> <p>The activities at the premises will need to comply with the <i>Environmental Protection (Noise) Regulations 1997</i>.</p>
		Odour: associated with the sorting of food and garden organics waste	Sensitive residential premises within Leeming, approx. 400m north of the premises	Air	Health and amenity impacts	Minor	Rare	Low	<p>There is no change to the waste inputs, volumes or waste types, and the new sorting platform will be inside the enclosed WCF which is fitted with odour mitigation infrastructure, including being operated under negative pressure. The Delegated Officer considers risk of odours to be low.</p>

Consequence and likelihood of risk events

A risk rating will be determined for risk events in accordance with the risk rating matrix set out in Table 8 below.

Table 83: Risk rating matrix

Likelihood	Consequence				
	Slight	Minor	Moderate	Major	Severe
Almost certain	Medium	High	High	Extreme	Extreme
Likely	Medium	Medium	High	High	Extreme
Possible	Low	Medium	Medium	High	Extreme
Unlikely	Low	Medium	Medium	Medium	High
Rare	Low	Low	Medium	Medium	High

DWER will undertake an assessment of the consequence and likelihood of the Risk Event in accordance with Table 9 below.

Table 9: Risk criteria table

Likelihood		Consequence		
The following criteria has been used to determine the likelihood of the Risk Event occurring.		The following criteria has been used to determine the consequences of a Risk Event occurring:		
			Environment	Public health* and amenity (such as air and water quality, noise, and odour)
Almost Certain	The risk event is expected to occur in most circumstances	Severe	<ul style="list-style-type: none"> onsite impacts: catastrophic offsite impacts local scale: high level or above offsite impacts wider scale: mid-level or above Mid to long-term or permanent impact to an area of high conservation value or special significance[^] Specific Consequence Criteria (for environment) are significantly exceeded 	<ul style="list-style-type: none"> Loss of life Adverse health effects: high level or ongoing medical treatment Specific Consequence Criteria (for public health) are significantly exceeded Local scale impacts: permanent loss of amenity
Likely	The risk event will probably occur in most circumstances	Major	<ul style="list-style-type: none"> onsite impacts: high level offsite impacts local scale: mid-level offsite impacts wider scale: low level Short-term impact to an area of high conservation value or special significance[^] Specific Consequence Criteria (for environment) are exceeded 	<ul style="list-style-type: none"> Adverse health effects: mid-level or frequent medical treatment Specific Consequence Criteria (for public health) are exceeded Local scale impacts: high level impact to amenity
Possible	The risk event could occur at some time	Moderate	<ul style="list-style-type: none"> onsite impacts: mid-level offsite impacts local scale: low level offsite impacts wider scale: minimal Specific Consequence Criteria (for environment) are at risk of not being met 	<ul style="list-style-type: none"> Adverse health effects: low level or occasional medical treatment Specific Consequence Criteria (for public health) are at risk of not being met Local scale impacts: mid-level impact to amenity
Unlikely	The risk event will probably not occur in most circumstances	Minor	<ul style="list-style-type: none"> onsite impacts: low level offsite impacts local scale: minimal offsite impacts wider scale: not detectable Specific Consequence Criteria (for environment) likely to be met 	<ul style="list-style-type: none"> Specific Consequence Criteria (for public health) are likely to be met Local scale impacts: low level impact to amenity
Rare	The risk event may only occur in exceptional circumstances	Slight	<ul style="list-style-type: none"> onsite impact: minimal Specific Consequence Criteria (for environment) met 	<ul style="list-style-type: none"> Local scale: minimal to amenity Specific Consequence Criteria (for public health) met

[^] Determination of areas of high conservation value or special significance should be informed by the *Guidance Statement: Environmental Siting*.

* In applying public health criteria, DWER may have regard to the Department of Health's *Health Risk Assessment (Scoping) Guidelines*.

"onsite" means within the Prescribed Premises boundary.

Decision

The Amendment Application was submitted for the installation of a new sorting platform within the existing Waste Composting Facility (WCF) and will not result in any changes to the Premises' throughput or potential emissions. Having considered the proposed Amendment to the Licence, the Delegated Officer has determined that the construction and operation of the new sorting platform for the FOGO feedstock will not result in emissions which are unacceptable to public health or the environment.

Conditions will be included on the licence to authorise the construction of the infrastructure and equipment as specified by the Licence Holder (Conditions 38, 39 and 40). Definitions have been amended, where required. There are no other changes to the Licence.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 5 July 2018. The Licence Holder accepted the proposed amendments on 6 July 2018 and waived the 21 day comment period.

Amendment

1. Definitions of the Licence are amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

~~"CEO" means Chief Executive Officer of the Department of Environment Regulation;~~

~~"CEO" for the purpose of correspondence means;
Manager, Licensing (Waste Industries)
Department of Environmental Regulation
Locked Bag 33
CLOISTERS SQUARE WA 6850
Telephone: (08) 9333 7510
Fax: (08) 9333 7550
Email: grswanbooragoon@der.wa.gov.au~~

"CEO" means Chief Executive Officer.

"CEO" for the purposes of notification means:

Director General
Department Administering the Environmental Protection Act 1986
Locked Bag 33 Cloisters Square
PERTH WA 6850
info@dwer.wa.gov.au

~~"Landfill Waste Classification and Waste Definitions 1996 (as amended)" means the document issued by the Chief Executive Officer of the Department of Environment and Conservation;~~

"Landfill Definitions" means the document titled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer of the Department of Environment as amended from time to time;

2. The Licence is amended by the insertion of new conditions 38, 39 and 40 as shown below. The Reporting conditions are subsequently amended to be renumbered 41 (was 38), 42 (was 39), 43 (was 40), 44 (was 41) and 45 (was 47) to reflect this change.

CONSTRUCTION CONDITIONS

38. *The Licensee must construct the Infrastructure specified in Column 1 at the Location specified in Column 2 in accordance with the Requirements set out in Column 3 and prior to the Completion date specified in Column 4 of Table 4 below.*

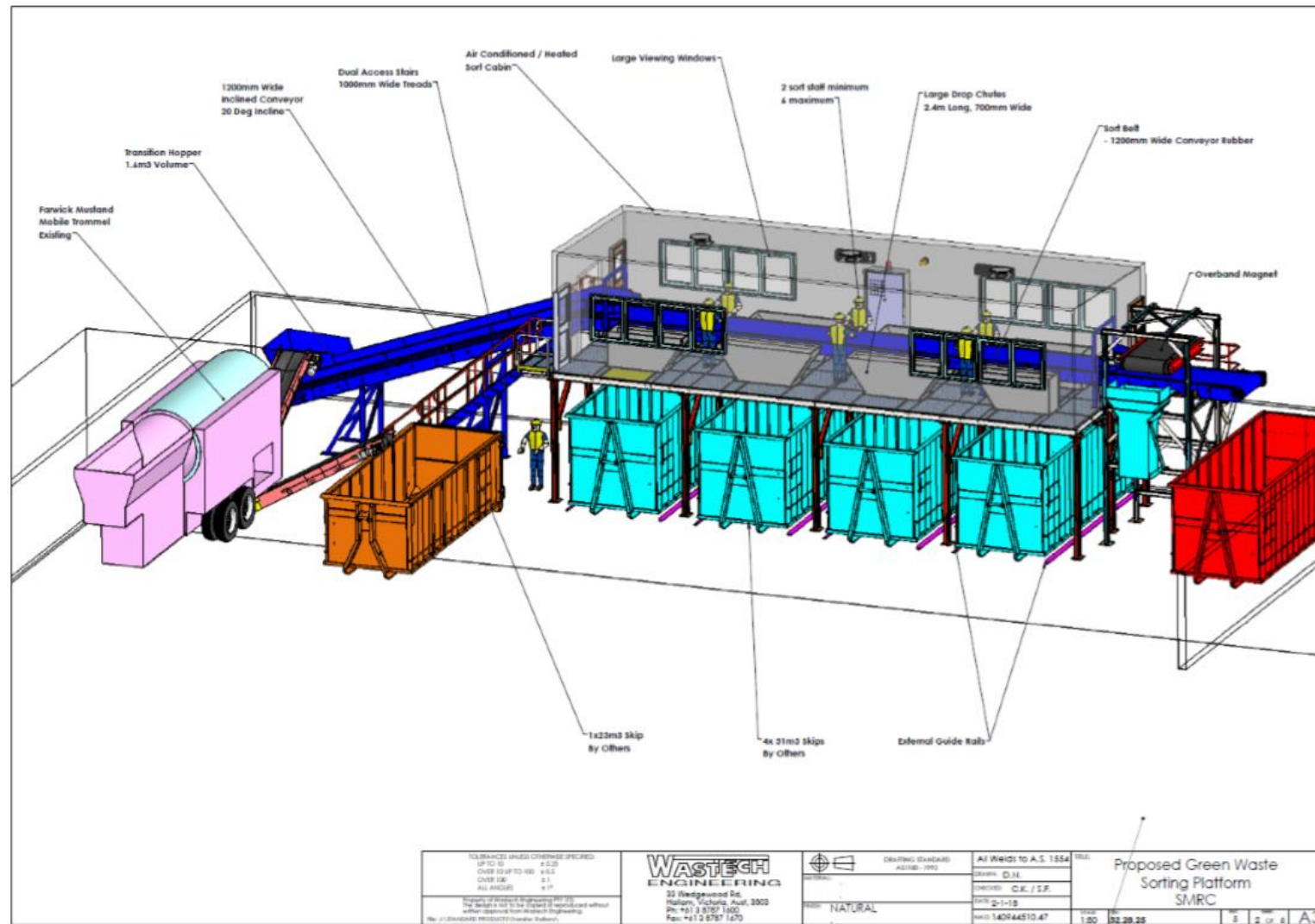
Table 4: Infrastructure Improvements Table			
Column 1	Column 2	Column 3	Column 4
Infrastructure	Location	Requirements (design and construction)	Completion date
Waste sorting platform and associated infrastructure	Within the Tipping Shed of the Waste Composting Facility, as shown on Attachment 3	<ol style="list-style-type: none"> 1. A load hopper with heavy duty sides to retain infeed loads from infeed loading; 2. A 26m x 1.2m slider bed sorting conveyor complete with heavy duty belt, gear drive and motor, and support structure. 400mm high side walls and support leading into the sort cabin; 3. Access stairs and railing; 4. Fully enclosed HVAC Sort Cabin (14m long, 4.8m wide, 3.2m high), comprising of support structure, four double glazed viewing windows, four sorting bays with chutes on both sides of the belt to feed open top skip bins, and extraction fans/ventilation. Two access doors to the cabin, one access door to the magnet service platform; 5. Steinhert overband magnet with the support structure and chute extraction at the end of the sort line, to remove ferrous items prior to discharge onto the tipping floor (includes service platform from sort cabin); 6. Variable Speed Drives on all belts to assist with metering and controlling the flow of green waste, as well as a pause function on the sorting belts; 7. Komptech Mustang trommel for material separation. 	Prior to 31 December 2018

39. *The Licensee must not depart from the specifications in Table 4 except:*
- (a) where such departure is minor in nature and does not materially change or affect the infrastructure; or*
 - (b) where such departure improves the functionality of the infrastructure and does not increase risks to public health, public amenity or the environment; and*
 - (c) in accordance with all other conditions in this Licence.*
40. *The Licensee shall submit a compliance document to the CEO, following the construction of the works. The compliance document shall:*
- (a) certify that the works were constructed in accordance with conditions 38 and 39; and*
 - (b) be signed by a person authorised to represent the Licensee and contain the printed name and position of that person within the company.*

Appendix 1: Key documents

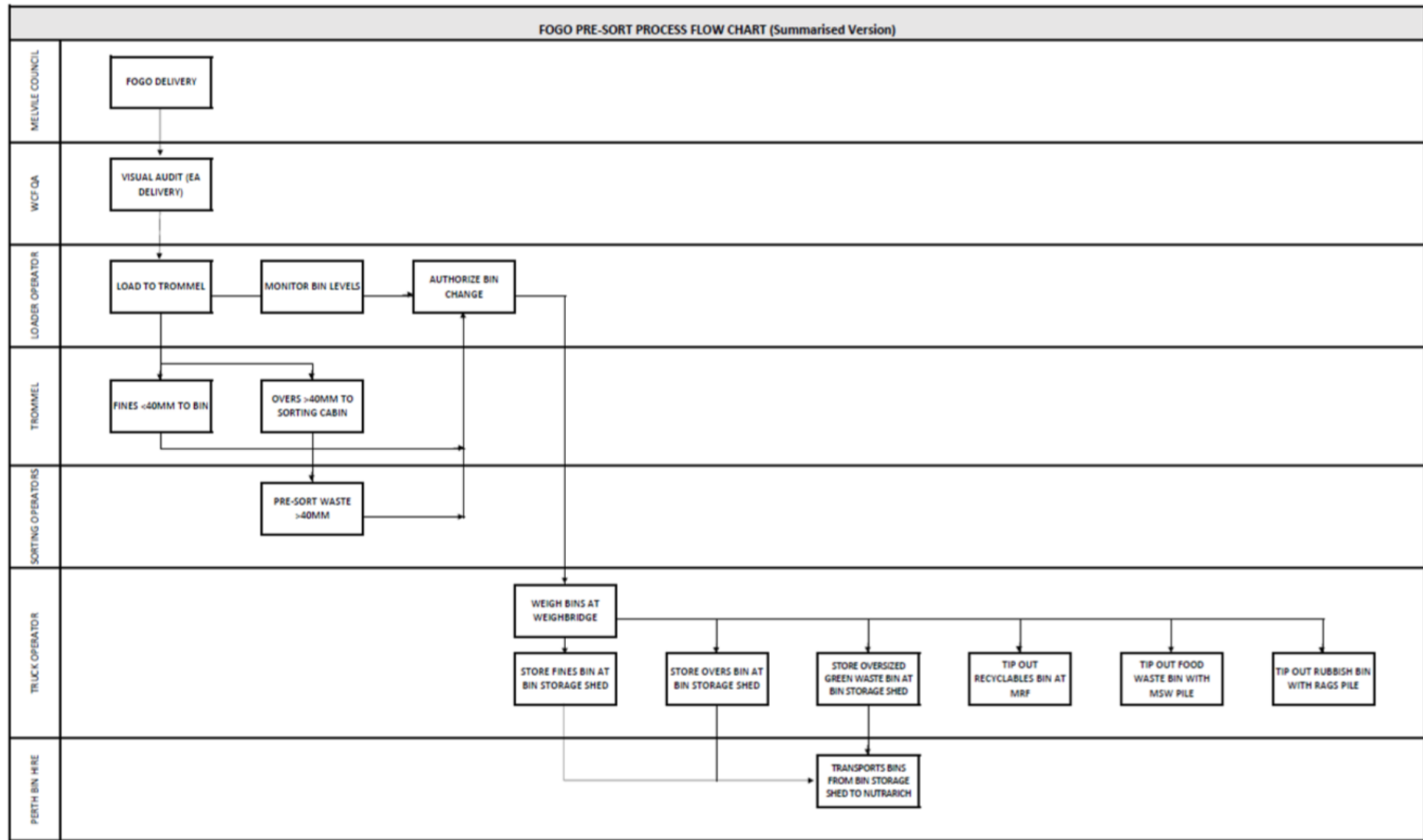
	Document title	Availability
1	L7799/2001/8 Amendment Application and supporting documentation, submitted 8 May 2018	DWER Records: A1669737, A1669741, A1669743, A1669740, A1669745, A1669742, A1669744.
2	<i>Southern Metropolitan Regional Council Regional Resource Recovery Centre – Licence Amendment Application, DWER Requested Information L7799/2001/8</i> (SMRC, June 2018)	DWER Record: A1688378
3	Licence L7799/2001/8 – Regional Resource Recovery Centre	accessed at www.dwer.wa.gov.au
4	Licence L7799/2001/8 – Regional Resource Recovery Centre – Amendment Notice 1	
5	Ministerial Statement 517	
6	DER, July 2015. <i>Guidance Statement: Regulatory principles</i> . Department of Environment Regulation, Perth.	
7	DER, October 2015. <i>Guidance Statement: Setting conditions</i> . Department of Environment Regulation, Perth.	
8	DER, February 2017. <i>Guidance Statement: Risk Assessments</i> . Department of Environment Regulation, Perth.	
9	DER, February 2017. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.	

Attachment 1: Proposed Sorting Platform infrastructure



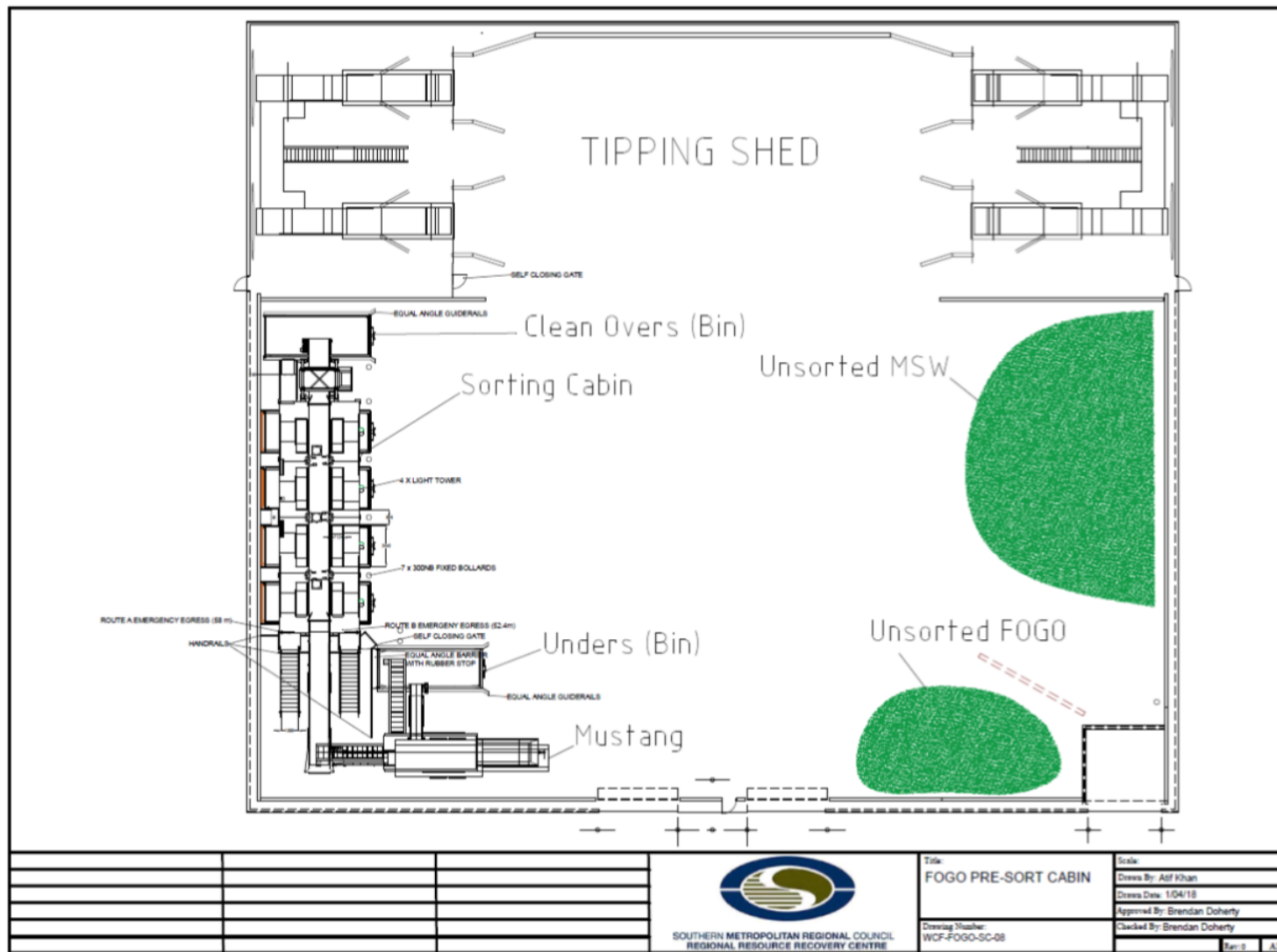
Source: Southern Metropolitan Regional Council Regional Resource Recovery Centre – Licence Amendment Application L7799/2001/8 (SMRC, May 2018)

Attachment 2: FOGO Pre-sort process flow chart



Source: Southern Metropolitan Regional Council Regional Resource Recovery Centre – Licence Amendment Application L7799/2001/8 (SMRC, May 2018)

Attachment 3: New tipping shed layout



Source: Southern Metropolitan Regional Council Regional Resource Recovery Centre – Licence Amendment Application L7799/2001/8 (SMRC, May 2018)