EPA Application Form

4. Activity and Capacity

4.3.1 - Storage of Waste and Other Materials - Attachment

Organisation Name: *	Starrus Eco Holdings Ltd.
Application I.D.: *	LA010880

* indicates required field

Amendments to this Application Form Attachment

Version No.	Date	Amendment since previous version	Reason
V.1.0	July 2017	N/A	Online application form attachment
V.1.0	March 2018	Identification of required fields	Assist correct completion of attachment

Storage of Waste and Other Materials

State the maximum amount of waste and other materials that will be stored on the site at any one time in the table below[1].

Waste/Other Material	Amount (tonnes) *
Waste accepted and in storage pending treatment:	2,700
Other materials (Non-waste) accepted, including non-waste feedstocks:	10
Capacity of treatment vessels and chambers:	NA
Treated waste, whether classified as waste or not:	6,500

List any other feedstocks to the treatment process not classified as waste. State '*none*' if none.*

The types and maximum amount of wastes on site at any one time are listed in the Waste Storage Plan, a copy of which in attached. The Plan takes into consideration the EPA Guidance Note: Fire Safety at Non-Hazardous Waste Transfer Stations, (2013) and the EPA Guidance on Fire Risk Assessment for Non-Hazardous Waste Facilities, 2016. Any proposal to extend external storage areas must be approved in advance by the OEE.

The wastes stored inside the buildings include unprocessed and processed materials of which there is a maximum of 2,270 tonnes at any one time. The wastes stored outside are baled SRF/RDF, tyres, waste electronic and electrical equipment (WEEE), rubble and plastic. The maximum amount of waste stored externally any one time is 6,500 tonnes, which includes 6,200 tonnes of SRF/RDF bales. The proposed increase in throughput does not require any additional storage. The Plan is a dynamic document that changes over time in response to market conditions and is subject to the approval of the OEE.

A self-bunded 5,000 litre diesel tank is located to the south of the weighbridge for fuelling the mobile plant. A self-bunded 2,500 litre diesel tank is located in the north of the site. The back-up generator at MP2 has an internal 2,500 litre diesel storage tank. Hydraulic and engine oils are stored on bunded pallets in the maintenance shop in MP2.

[1] This should include waste and other materials in: (1) reception, inspection and quarantine areas; (2) storage pending treatment; (3) storage after treatment; and (4) vessels, chambers or tanks during treatment or processing.

Waste and material outputs from waste activities (i.e., those subject to Waste licensing or class 11 of the First Schedule of the EPA Act)

Describe the waste and material outputs from the installation resulting from the treatment of waste. If no treatment is carried out on the waste, the waste outputs will be the same as the inputs.

If waste is treated, describe the nature and quantity of the treated waste and its onward fate/destination, and in particular whether it is sent for onward recovery or disposal operations.

If waste is treated and a material is produced that is no longer a waste, provide the rationale for such classification. The requirements of Article 28 of the European Communities (Waste Directive) Regulations 2011 should be addressed in any such rationale. Include the response in this attachment.

Municipal Solid Waste (MSW) Dry Mixed Recyclables (DMR), Brown Bin (food) waste), sterilised non-hazardous plastic medical waste and Solid Recovered Fuel (SRF) is accepted in the southern building (MP1 and MP2). Construction and Demolition (C&D) and Commercial & Industrial (C&I) wastes are accepted in the northern building (MP3).

The MSW is off loaded in MP2 where it is inspected for contamination and unsuitable materials are moved to a quarantine area. The materials are then processed to remove the organic, metal fraction and recoverable 'lights' (plastics). Metals are sent for recycling, organic fines fraction sent for composting. The recoverable 'lights' are sent to the SRF production line in MP1. The residue, which contains some putrescible matter, is suitable for use as refuse derived Fuel (RDF) and is baled in an on-site baler and stored externally.

The sterilised medical waste is off loaded inside MP1, inspected and then loaded into the granulator which produces a granulated 'floc' that is sent to the SRF production line. The SRF is stored pending onward transfer to incinerators or cement kilns in Ireland and abroad where it is used as a fuel.

The operators of the Irish incinerators and kilns require the SRF to be delivered loose, whereas for export the SRF must be baled. The incinerators/ kilns regularly close down for maintenance and when this occurs the SRF that is delivered to the facility along with that produced on-site is baled in the-onsite baler to facilitate longer term storage.

The Brown Bin waste is off loaded in a dedicated area inside MP2. Currently the Brown Bin waste is not processed, but is bulked up and sent off-site to authorised biological treatment plants. The DMR is off loaded in MP 1, where it is temporarily stored before being loaded into articulated trailers and sent off-site for further treatment at authorised facilities.

The C&I and C&D waste is handled in the northern building (MP3). The waste are off loaded in dedicated bays and are initially sorted using a mechanical grab to remove large items such as timber, metal and oversized light materials, which are removed to other storage areas in the building. The segregated materials are stored pending consignment to authorised treatment plants for further processing.

For Soil Recovery Activities (only), please complete the following table:
Not Applicable

All blank fields in the table are mandatory

Soil Recovery Activity Details	**Input a value into ALL blank cells (where applicable)**			
Volume of void to be filled and authorised by planning permission:			**m^3**	
Quantity of waste soil and stone that is required to fill the void:			**tonnes**	
Proposed annual intake of waste soil and stone:			**tonnes per annum**	
Proposed duration to complete the fill:			**years**	
Stage of fill: 'Not Commenced' **OR** 'Commenced':				
- **If commenced: quantity of waste already deposited in the void:** (Enter a value in both cells)		**m^3**		**Tonnes**
- **Volume of void remaining**:			m^3	
Period of previous fill: (<Year> **to** <Year>):				
Quantity of fill authorised by planning permission: (Enter a value in both cells)		**m^3**		**Tonnes**
Waste Licence, waste facility permit, or certificate of authorisation number: (Attach copy in this document)				

* indicates required field