

3c – Types and Amounts of Raw Materials

Table 5 – Types and amounts of raw materials				
Name of the installation		Westwood Anaerobic Digestion Plant		
Capacity		400 tonnes maximum storage capacity at any one time (waste reception hall). 301 tonnes maximum waste acceptance per day.		
Schedule 1 activity	Description of raw material and composition material	Maximum amount (tonnes)	Annual throughput (tonnes per year)	Description of the use of the raw material including any main hazards (include safety information sheets)
AR1 – AR10	Diesel	10,000 litres	40,000 litres (18,000 litres used in 2024).	<p>Fuel for mobile plant.</p> <p>Purpose built integrally bunded diesel tank (with 110% capacity), dosing is automated with secure hose fittings. The tank is situated on impermeable surfacing with sealed drainage system inside the waste reception building. The diesel tank is locked when not in use to prevent unauthorised access or use. Spill kits are located in close proximity in the event of a spill and all employees are trained in spill response, this includes how to handle, store and dispose of use spill kit contents.</p> <p>H4 Irritant - Non-corrosive substances and preparations which, through immediate, prolonged or repeated contact with the skin or mucous membrane, can cause inflammation.</p> <p>H5 Harmful - Substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may involve limited health risks.</p> <p>H14 - Substances and preparations which present or may present immediate or delayed risks for one or more sectors of the environment.</p> <p>H351: Suspected of causing cancer H373: May cause damage to organs (Thymus, liver, bone marrow) through prolonged or repeated exposure.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> <p>Persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.</p>

AR1 – AR10	Petrol	4 x 25 litre petrol jerricans	200 litres	<p>These are generally only filled when required so will often be left empty. However, in any case they are stored in a COSHH area of the workshop on impermeable surfacing and if containing petrol they will be stored on a bunded pallet. The COSHH area is kept locked.</p> <p>Product is not expected to bioaccumulate through food chain in the environment. May contain Benzene but minimal toxicity.</p>
AR1 – AR10	Ferrous chloride	20m ³ ferrous chloride tank or 1000 litre IBC's each weighing 1400kg / 1.4 tonnes (average dosing rate of 400-600 litres per day)	400m ³	<p>Ferrous chloride dosing into the Raw Waste Buffer Tank (RWBT) feed line to control H₂S concentrations.</p> <p>A new self-contained ferrous chloride storage tank will be installed within the secondary containment area.</p> <p>The spill control procedure details the actions to take in the event of a chemical spill.</p> <p>H290 Maybe corrosive to metals H302 Harmful if swallowed H315 Causes skin irritation H318 Causes serious eye damage H401 - Toxic to aquatic life Persistence and degradability - Not established. No bioaccumulation data available.</p>
AR1 – AR10	Trace Element (TEA) Solution	1000 litre IBC's each weighing 1400kg / 1.4 tonnes x 5	300 tonnes	<p>TEA is applied to maintain essential nutrient balance for effective biological digestive health to achieve maximum biogas yields. The concentration and composition of TEA applied is dependent on current feedstocks and plant biology. Samples are routinely taken from the RWBT and sent for analysis by our established Research Team who determine the level of dosing required. Any additional so called TEA 'hits' required to improve plant biology are dictated by our Research Team. All weekly TEA additives including 'hits' are recorded on a <u>Plant Monitoring Spreadsheet</u>.</p>

				<p>The TEA is located in the waste reception building on a bund tray positioned on impermeable surfacing served by sealed drainage or within the secondary containment area. Dosing takes place into the RWBT infeed line. Daily integrity inspections take place of the bunds and IBC containers. The level of TEA is closely monitored and recorded for process monitoring purposes. The spill control procedure details the actions to take in the event of a chemical spill.</p> <p>H302 - Harmful if swallowed H317 – May cause an allergic skin reaction H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled H341 – Suspected of causing genetic defects, H350i – May cause cancer by inhalation H360F – May damage fertility H400 – Very toxic to aquatic life H410- Very toxic to aquatic life with long lasting effects.</p>
AR1 – AR10	DEFRA approved disinfectant	5 litre drums x 25 1000 litres IBC's each weighing 1400kg / 1.4 tonnes x 2	5 tonnes 20 tonnes	<p>Dipropylene glycol monomethylether used for footbaths and for vehicle washing as part of ABP obligations as a water based mix.</p> <p>Drums are stored within the COSHH enclosed locked area. IBCs are stored on bund trays on impermeable surfacing served by sealed drainage.</p> <p>R41 Risk of serious damage to eyes R38 Irritating to skin H318 Causes serious eye damage H315 Causes skin irritation</p>
AR1 – AR10	Oils / Waste oils	205 litre drums (x 4 on site at any one time)	4 tonnes	<p>Stored on banded pallets positioned on an impermeable surface within the workshop.</p>

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AR1 – AR10	Antifreeze	1000 litre IBC weighing 1400kg / 1.4 tonnes x 1	5 tonnes	<p>Antifreeze is stored on site in a 1000 litre IBC positioned on impermeable surfacing served by sealed drainage. Antifreeze is used by Clarkes Energy to help maintain the CHP engines.</p>
AR1 – AR10	Chemical products (COSHH)	Very minimal quantity and used infrequently	Very minimal quantity and used infrequently.	<p>Individual closed containers and kept in a COSHH cabinet which is always secured, and access restricted to authorised personnel only. The COSHH cabinet is located inside the workshop, and a spill kit is located in the COSHH area.</p> <p>COSHH assessments available on site.</p>