
	Document Name	Fire Prevention Plan	Document Ref.	FPP01
	Prepared by	Mark Milner, Fire Safety Consultant	Version	01
	Approved by	Awais Mazhar Butt, Managing Director	Review Date	21/05/2025

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Fire Prevention Plan

**Recycle For Future Ltd
183 Fengate,
Peterborough
Cambridgeshire
PE1 5BH**

Plastic Recycler

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5. MPA The Concrete Centre. Concrete & Fire Safety. PDF.
6. Vehicle Heat Check Sheets. (Dated 16th, 17th, & 20th May 2024)

1 INTRODUCTION

1.1 Introduction

This document has been prepared by Safe Training & Consultants on the behalf of Recycle For Future Ltd for the operation of their recycling facility located in 183 Fengate, Peterborough, Cambridgeshire. Recycle For Future Ltd is a waste recycler specialising in mainly plastics arising from dry waste collected by dedicated transport or be delivery from third parties.

The document provides a structured framework and approach in effectively preventing potential fire associated with the processing and storage operations at the site. This Fire Prevention Plan document (referred hereafter as the 'FPP') has been produced in accordance with the updated Environment Agency's Fire Prevention Plan Guidance (published 29th July 2016 and updated 11th January 2021).

1.2 Structure of the Fire Prevention Plan


This FPP has been structured in accordance with the EA Fire Prevention Plan Guidance and considers the following relevant aspects of the facility.

- Managing common causes of fire
- Preventing self-combustion
- Managing waste piles
- Preventing fire spreading
- Quarantine area
- Detecting fires
- Suppressing fires
- Firefighting techniques
- Water supplies
- Managing fire water
- During and after an incident

1.3 Status of the Fire Prevention Plan

The FPP is a live document and will form part of the key environmental management document for the facility. All monitoring procedures, responsibilities and compliance actions will be updated as and when required.

The Fire Prevention Plan is a standalone document and is made available to all staff and relevant contractors and visitors to the site.

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2 SITE BACKGROUND

2.1 Site Setting

The facility will be regulated in accordance with the requirements of the Environmental Permitting Regulations. Recycle For Future Ltd is a recycling facility accepting up to 18,000 tonnes per annum of plastics and approx. no more than 50 tonnes of card arising from industrial waste. Once sufficient card is accumulated on site contractors are requested to come to site to remove this, no other processes take place with this material. Processing activities onsite are limited to manual sorting, separation, baling and shredding for onward recovery.

Waste is always unloaded directly outside the buildings into the relevant storage bays where it is temporarily stored prior to processing with expected standard processing time of 3-6 weeks. There are some storage areas inside the building, this is for more higher value plastic material (rolls of plastics) With maximum storage for no longer than 90 days.

The site is located in 183 Fengate, Peterborough, Cambridgeshire PE1 5BH.



The location of the site is centred at approximate National Grid Reference TL 20751 98518.


Latitude, Longitude (decimal) - 52.571086, -0.21972495

Latitude, Longitude (degrees, mins, secs) - 52°34'16"N, 000°13'11"W

What 3 Words: drop.grades.cones.

The site is located within the industrial estate to the eastern side of Peterborough City Centre and is surrounded by a number of other industrial, commercial premises with residential properties located close by (within 30 metres) are located on Fengate. The table below provides information regarding the site surroundings.

Direction	Description
North	Industrial & Commercial Units
North East	Industrial & Commercial Units
East	Industrial & Commercial Units
South East	Industrial & Commercial Units & Residential Homes
South	Industrial & Commercial Units
South West	Industrial & Commercial Units
West	Residential Homes
North West	Industrial & Commercial Units

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2.1.1 Hours of Operations

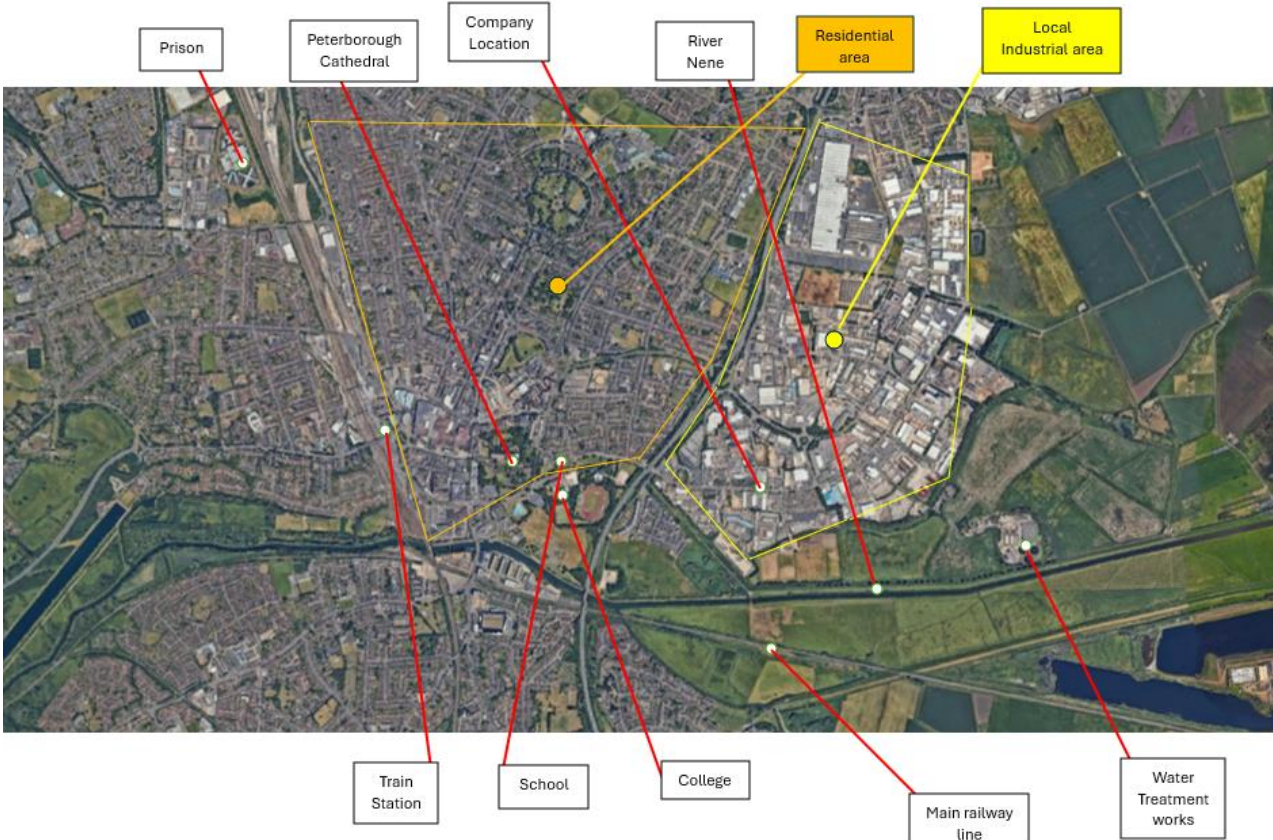
Recycle For Future currently operate a 24 hours a day for 5 days a week and work days only at weekends.


2.2 Sensitive Receptors

The nearest sensitive receptor in terms of water pollution would be the river located approximately 600m to the south of the site. The surrounding areas of the site are mixed industrial and commercial.

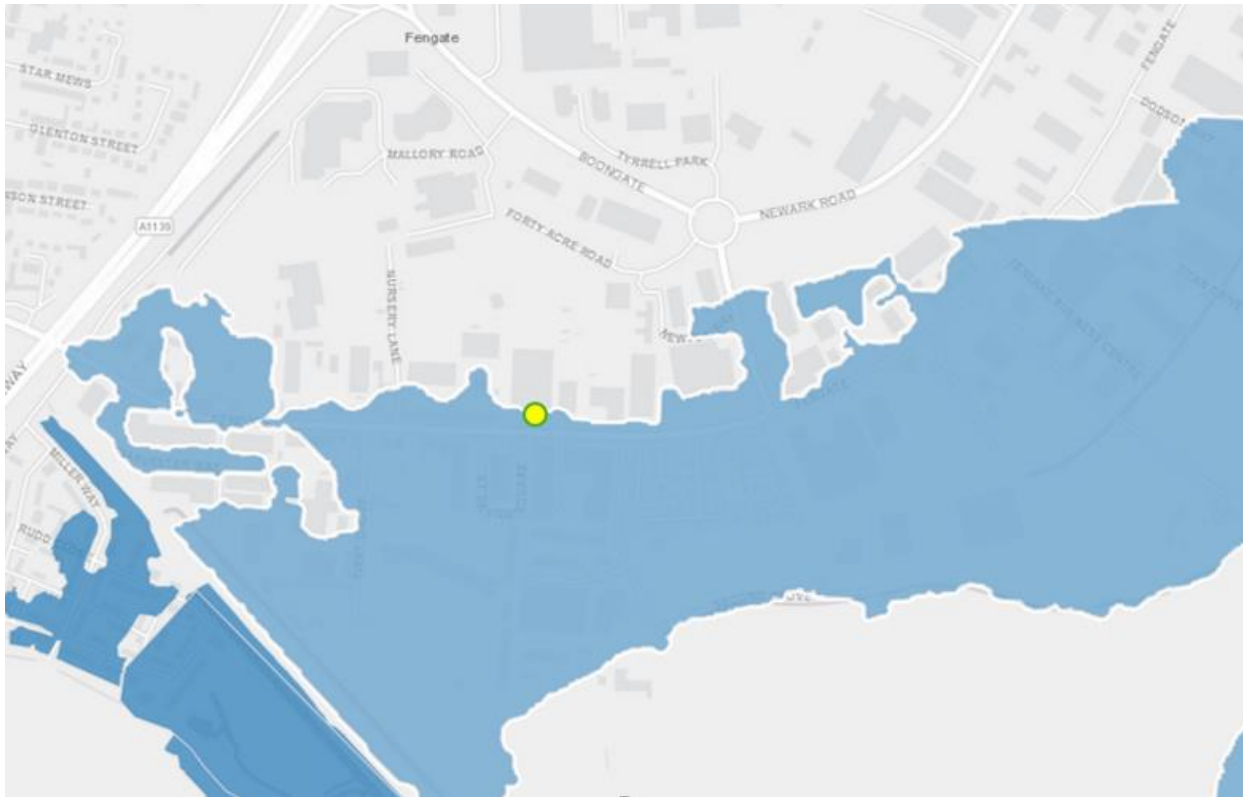


Other areas identified as potentially sensitive receptors are shown below.

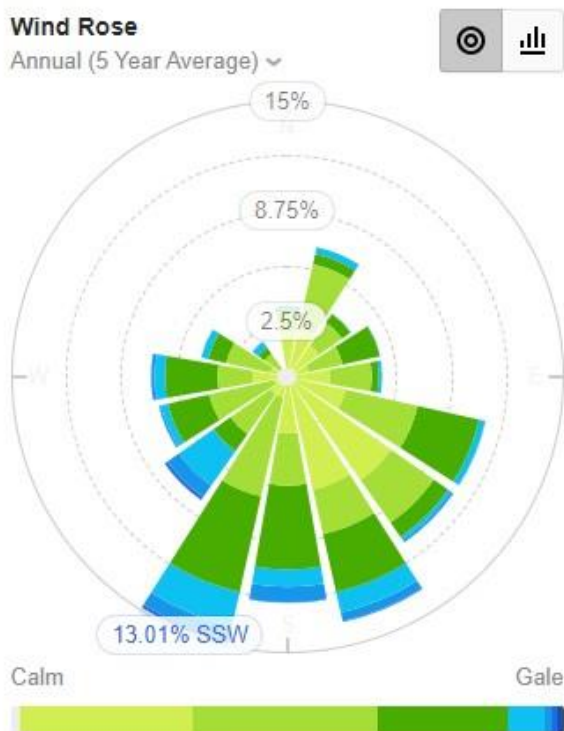



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The Environment Agency flood zone database indicates that the site lies entirely within Flood Zone 3, although there is some areas of the road that are within Zone 2 – an area with a high probability of flooding that benefits from flood defences.



The Wind Rose for the past 5 years is shown below for information.



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2.3 Combustible Waste Streams

At any time, there may be the following types of combustible waste present at the site:

- Plastics;
- Card.

2.4 Other Combustible Materials

In addition to the waste streams outlined above, the company also stores diesel onsite for refuelling site vehicles and equipment. This is stored within a self-bunded container storing up to 1000 litres and is stored outside of the building and away from any flammable wastes, flammable materials, or sources of ignition. The fuel tank is also accessible to the Fire and Rescue Service (FRS) in the event of a fire. The tank is double bunded tank located on the concrete close to the weigh bridge shed on the western side of the yard area.

In addition, there are also COSHH items including aerosols that are stored within a locked COSHH cabinet located within the maintenance area. These are only removed from the COSHH cabinet when required and are returned after use. Rags from the maintenance of equipment are also present and stored within a container along with office / general wastes again stored within containers.

There are Gas cylinders (LPG) stored on site. These are used for the forklift trucks that operate on site. These are stored in a cage outside of the main building, which is secured at all times. There is also an LPG storage tank for the gas for the Forklift Trucks to refill from. (Quantity 2200 Litres)

There is gas mains used on site for the heating and for some machine operations, this should be checked on a more regular basis.

3 FIRE PREVENTION PLAN

This Fire Prevention Plan has been developed to include an assessment of fire risk on site and the measures in place to prevent, detect, suppress, mitigate, and contain fires. This plan forms part of Recycle For Future management system and sets out the fire prevention measures and procedures that will be put in place and used on site. All staff and contractors working on site will understand the contents of the Fire Prevention Plan and what they must do during a fire. The Fire Prevention Plan will be kept in the Site Office and all staff will be aware of where it is kept. Regular exercises will be carried out to test how well the plan works and that staff understand what to do. These exercises will take place at least twice a year.

3.1 Control of Potential Causes of Fire

The following table identifies common causes of fire and the measures that Recycle For Future take to reduce the risk.



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Source of Fire	Proposed Management Controls	Residual Risk
Arson	<p>Arson by intruders is controlled via 24/7 CCTV, security gates and a secured perimeter (fencing and walls). CCTV is monitored by senior management using an app on their phones, when the site is unmanned which is on key Bank Holidays, such as Boxing Day and Christmas Day.</p> <p>The site is well lit and secured. Any fire would be immediately identified.</p> <p>CCTV overlooks the yard, production area and hallways and records 24/7.</p> <p>The intruder alarm notifies management in sequence and the management then access the cameras on their mobile devices in the event of an alarm activation.</p> <p>Fire detection system is installed (smoke detection) detection in the buildings, smoke detectors in the offices.</p> <p>The main fire alarm system is not red call linked to the fire service, call centre, but the implementation of the alarms being linked to the senior managements phones is due to be investigated and considered no later than July 2024.</p> <p>The Directors and senior management team are able to view the live images from the CCTV is linked to their mobile phones, and take the necessary actions required.</p> <p>The boundary fencing and gate's primary purpose is to prevent unauthorised entrance to the site and are constructed from metal palisade and security fencing to form a complete boundary.</p>	VERY LOW
Plant and equipment	<p>The site has a regular inspection and maintenance programme (PPM for main equipment and machinery) which identifies any electrical or mechanical machinery faults which could result in a machinery fire.</p> <p>All machinery is visually inspected daily at the start and end of each shift.</p> <p>Machinery is regularly cleaned to remove any dust, waste etc to ensure that it does not accumulate on moving parts.</p> <p>All workplace mobile machinery on site has fire protection suppression built in.</p> <p>Some relevant site vehicles are fitted with fire extinguishers.</p> <p>When not in use plant and equipment is stored in the workshop maintenance area overnight towards the rear of the building, with the keys removed.</p>	VERY LOW
Electrical Faults Including Damaged or Exposed Electrical Cables	<p>The risk of damaged or exposed electrical cables is controlled via the regular inspection and maintenance programme and 5 year fixed wiring inspection.</p> <p>Most of the main electrics for the site have been upgraded and renewed in 2022/2023, with other areas planned to be completed.</p> <p>Any electrics on site are fully certified by a qualified electrician and a permit to work will be issued by the General Manager when works are required.</p>	VERY LOW



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Discarded Smoking Materials	<p>All staff and visitors to site are informed of the smoking policy during site induction and it is clearly signed on entrance to site. Smoking area is to the side of the site next to the weigh bridge container with a wall mounted bin that is emptied by site staff on regular basis.</p> <p>Any employee found smoking in the non-designated area on site will receive a formal written warning.</p> <p>No smoking or discarded smoking items are allowed or stored within 6m of waste and flammable items.</p>	VERY LOW
Hot Works	<p>Hot works is defined as gas cutting, welding, and grinding. If in the unlikely event that hot work is carried out on site, a permit to work will be issued and the site management will be made aware of the work.</p> <p>The activity will be very closely managed and with the presence of a fire watchmen for at least 1 hour following cessation of the hot works.</p> <p>There are no Gas cylinders stored on site, (other than those previously mentioned). Only used for the maintenance of the site are bought on to site and used when needed, then removed once works are completed</p> <p>When hot works are being undertaken by a member of staff or a contractor, the immediate area is cleared of any waste this is removed from the area to a distance of at least 6m.</p> <p>A fire watch is put in place throughout the activity and fire extinguishers are placed close to the activity to enable any fire to be quickly extinguished.</p> <p>Once the hot works have been completed the equipment is removed from the area and stored within the maintenance area and the fire watch stays in place for a further hour with the fire extinguishers still in the area.</p> <p>No hot works equipment is stored within 6m of waste and flammable items.</p>	VERY LOW
Industrial Heaters	<p>Some plug in portable heaters are used on site in the offices only. No heating on the shopfloor. Air-conditioning / air source heaters installed in the offices.</p>	VERY LOW
Hot exhausts and plant	<p>The site has a regular inspection, cleaning and maintenance programme which identifies any signs of a fire caused by dust settling on any hot exhausts and engine parts.</p> <p>This is carried via visual checks throughout the day as well as at the end of the working day. Machinery is regularly cleaned to remove any dust, waste etc to ensure that it does not accumulate on moving parts.</p> <p>Forklift trucks are regularly cleaned and inspected. Operators clean them daily and the maintenance team follow the scheduled maintenance plan.</p> <p>No vehicles are parked on site, only Lorries and vans that are being loaded or unloaded in the yard are permitted on site.</p> <p>Mobile plant that is not in use will be stored away from combustible waste.</p>	VERY LOW




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Ignition Sources	<p>Ignition sources, including welding equipment, are stored well away from combustible wastes within the workshop.</p> <p>If hot works are required within the waste processing area a hot works permit must be issued via the sites management with an active fire watch in place.</p> <p>Hot works must be completed 1 hour before the site closes and a fire watch put in place with extinguishing equipment. When hot works are being undertaken by a member of staff or a contractor waste is removed from the area to a distance of at least 6m.</p> <p>A fire watch is put in place throughout the activity and fire extinguishers are placed close to the activity to enable any fire to be quickly extinguished.</p> <p>Once the hot works have been completed the equipment is removed from the area and the fire watch stays in place for a further hour with the fire extinguishers still in the area.</p>	LOW
Spills and Leaks	<p>Any fuel stored on site is within a fully bunded tank to ensure any leaks and spillages are contained.</p> <p>Spill kits are available across the site for use in the event of any localised leaks or spillages around the fuel storage tank. All staff are trained on how to use the spill kit as well as the procedures to carry out in the event of a spillage. All waste areas, containers and storage facilities used on site will be monitored on a regular basis to ensure no spillages of contaminated waste are taking place. All COSHH products are stored within a locked COSHH cabinet.</p>	VERY LOW
Build-up of loose combustible waste and dust	<p>The site has a regular inspection and maintenance programme which will identify any build-up of wastes and dust. Machinery is regularly cleaned to remove any dust, waste etc to ensure that it does not accumulate on moving parts. The site is inspected regularly throughout the day by the General Manager. Any build-up of waste and dust would be identified during the inspection. If any dust, waste etc is identified then the area will be immediately cleaned.</p>	LOW
Reactions Between Wastes	<p>Unstable wastes will not be accepted on site.</p>	VERY LOW
Hot Loads	<p>Recycle For Future do not receive hot loads.</p> <p>The sites stringent waste acceptance procedures should ensure the rejection and dampening down of any hot loads, or removal to the front entrance quarantine area to ensure no further environmental damage elsewhere.</p> <p>In the unlikely event a hot load is accepted onsite it would be immediately moved to the quarantine area to prevent combustion and allow material to cool.</p>	VERY LOW



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Fire general	<p>At the end of each working day the production supervisor uses a thermal imaging camera to check the site and likely hot spots before the site is secured and locked. If any hot areas are identified at any time, these are investigated and removed to one of the 2 quarantine areas.</p> <p>When the site is unoccupied, the fire detection systems remain active.</p> <p>If large quantities of water are required to extinguish external fires, the nearest hydrant is located approx. 36 metres from the entrance gates. <i>(See Appendix 1 Hydrant Location Plan)</i></p>	VERY LOW
Electrics	<p>Electrics on site are fully certified by a qualified electrician and installed in 2022/2023.</p> <p>Portable items are PAT tested once per year on office equipment and every 12 months for equipment working off extension leads.</p> <p>All extension cables are to be fully unwound before use to prevent overheating.</p>	VERY LOW
Chemicals and fluids	<p>All chemicals and fluids such as lubricating oils and greases are either stored within the COSHH cabinet along with aerosols and paints or larger containers are on a bunded drip tray within the maintenance area.</p> <p>The area is free from ignition sources and is equipped with suitable fire extinguishers and fire exits.</p>	VERY LOW
Batteries	<p>Workshop equipment battery charging area is in the workshop and turned off overnight.</p>	VERY LOW
Waste Acceptance Checks	<p>Goods arriving on site: lorry arrives at the front gates and is greeted by a member of the yard staff. Yard member checks reference number and EWC code of load to ensure this is something we can accept. Once agreed, the driver is asked to proceed onto the site and /or weighbridge, where it is then weighed in with first weight. Once weighed in the driver is then asked to park in unloading / loading position in the middle of the yard and undo the curtains. The driver is instructed to stay in the cab or behind barrier while we are unloading / loading for H&S, if we need the driver's assistant to move curtains to other side, we will ask them to do this it while all forklift movement stops.</p> <p>If load has a considerably higher temperature than ambient air, the affected load is moved to the quarantine area (bay) for "warm / hot" stock to store. Pictures are taken and moisture readings of the load are recorded on to the main system. Once unloaded, the driver is permitted to sweep the trailer, close curtains, and position himself on weighbridge for second weight. Waste transfer notes are completed for driver to sign, copies are given to driver and asking to leave site. This paperwork is then scanned in to the system for a digital backup.</p>	VERY LOW

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3.1.1 Fire Watch

Due to the potential for fire due to a number of activities on site, a fire watch is required during normal and unscheduled activities such as repairs via hot works.

Activity	Fire Watch Specifics	When fire watch required
Use of mobile plant creating hot exhausts	Appointed person to monitor the activity. Appointed person to know the location of closest fire extinguisher.	During operational if risk is present or by vigilance throughout operation
Hot works	Appointed person to monitor the activity and have fire extinguisher to hand. The Fire watch cannot be the person carrying out the activity.	During the hot works and after use for 1 hour
Non-operational hours	Use of detection and suppression systems to monitor for the detection of fire. Use of CCTV to actively monitor the site overall, both inside and outside of the building.	All non-operational periods

3.1.2 Hot Weather

During hot weather waste can heat up, however the site is able to mitigate this in the following ways. Any potential build-up of heat within the waste can be released by always treating the waste that has been on site longest first (first in, first out policy).

Always minimising storage times to as a short a period as possible.

Ensuring there are no reflective surfaces reflecting light onto the waste piles, which are contained with concrete Lego style blocks.

The sites roller shutter doors can be opened to allow cooler air to enter the building.

3.2 Preventing combustion

Preventing combustible materials is limited due to continual monitoring of stock, and operations within the site. The production area is constantly manned during the normal operation times.

All staff have been trained, encouraged and are aware of the need to extra vigilant whilst on site, to observe and report anything they feel may be hazardous or dangerous immediately.

3.2.1 Managing Storage Time

Recycle For Future operate in such a manner as to maintain waste piles as low in size as possible. All combustible wastes are processed and removed from site within 6 months.


A daily review of the stockpiles is made by the supervisors and fed back to the office team to confirm current available space.

All waste is tracked daily and processed through the site on a 'first in–first out' basis.

Seasonal variation in material is monitored by the site. Should the site near capacity for a particular waste stream, acceptance of this waste type will cease until stock rotation can resume.

Good stock rotation is a key component of the company's fire risk mitigation. In the event that material requires storage for longer than 3 months, stock piles are regularly rotated and temperatures are monitored within the waste.

Storage times of processed material is kept to a minimum whilst material is stored in its unprocessed form for as long as possible prior to processing and export offsite.

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At any point there are no ignition sources stored or allowed within 6m of any waste piles unless for operational reasons.

3.2.2 Waste Form

Waste will be stored in its largest possible form when it arrives at the site in the form of bales, only when the bales are ready to be processed are they split open and shredded. This is the start of the processing operation and only enough waste is shredded as is required, meaning waste stored in its largest form for as long as possible. Once it has been processed the product is only held on site for as short a time as possible before it is removed to customers.

3.2.3 Monitor and Control Temperature

Temperature of the waste piles will be controlled through a number of measures. This includes regular temperature checks.

Storage of wastes in unprocessed baled material.

Routinely turning stockpiles to aid detection of hotspots and moisture levels; and trained site operatives will carry out visual inspections on site daily to ensure that the site is being managed correctly.

All storage areas and piles will undergo a daily inspection by the thermal imaging camera to cover blind spots and hard to observe locations where possible.

In the event of temperature rises within the material, the General Manager and/or supervisors will be immediately notified, and the waste will be dampened in situ using the onsite hoses at the exit of the production area.

Waste will be transported by use of a telehandler or forklift truck which are capable of transporting waste to the quarantine area without endangering staff personnel or increasing the risk of fire on site.

In the event that hotspots are detected using the thermal imaging camera and the waste has been removed to the quarantine area for cooling, the waste is appropriately cooled before leaving the quarantine area


All staff undergo specific fire response training including:

- The use of material handling plant and equipment,
- The on-site hoses.
- The purpose built water curtain.
- Live fire training and demonstrations of how to use fire extinguishers.
- Detailed training session on how the detection and suppression systems operate and how they can be activated manually by staff.
- Thermal imaging camera.
- This training will be site specific and provided to all site staff. This training will be provided by a suitably qualified fire-fighting professional and refresher training will be undertaken every 6 months.

3.3 Management of Waste Piles

The maximum height of any stored waste is 4m. All waste is stored a minimum of 6m away from any other flammable waste or materials and sources of ignition, or there is a fire separation wall (Lego Style Blocks) separating the waste, material, and sources of ignition.

Waste Storage and Material	Max Pile Vol (m ³)	Dimension W x L x H (m)	Maximum Storage Time	Fire Risk
Cardboard (Rear Yard 1)	420	10 x 10 x 4.2m	4-6 weeks	VERY LOW
Plastics (Rear Yard 2)	420	10 x 10 x 4.2m	2-4 weeks	VERY LOW
Quarantine Bay (Rear Yard 3)	210	5 x 10 x 4.2m	N/A	VERY LOW

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Waste Storage and Material	Max Pile Vol (m ³)	Dimension W x L x H (m)	Maximum Storage Time	Fire Risk
Plastics (Rear Yard 4)	420	10 x 10 x 4.2m	2-4 weeks	VERY LOW
Plastics (Rear Yard 5)	420	10 x 10 x 4.2m	4-6 weeks	VERY LOW
Plastics (Side Yard 6)	168	4 x 10 x 4.2m	2-4 weeks	VERY LOW
Plastics (Side Yard 7)	168	4 x 10 x 4.2m	2-4 weeks	VERY LOW
Quarantine Area (Front Yard)	168	5 x 8 x 4.2m	N/A	VERY LOW
Waste Skip (Front Yard)	26	Max height 3m	2 weeks	VERY LOW
Metal Skip (Front Yard)	9	Max height 1.5m	3-4 weeks	VERY LOW

3.3.1 Waste Tracking

The company employs a system of monitoring waste throughputs and storage times.

The waste that has been stored on site for longest period of time is the waste that is processed first. This minimises the length of time that waste is stored on the site and reduce the potential for heating.

3.3.2 Stock Rotation & Management

Once plastic has been accepted into the site & unloaded, this is stored within the concrete bays so as not to mix loads even if it is the same grade, "same stock, same line" principle. Stock is counted as a daily task, this is to monitor levels, condition of the stock and to ensure that the "first in first out" methods are continuing. In the event that lines are mixed, the last bale from the previous load is turned on the long side to indicate that this is the start of another load. This system assists with stock counting and the arrival date of the material. The oldest stock is used first for processing, the stock count system is amended to reflect this. The biggest visual indication conducted by the yard & production supervisors daily is to monitor the stock for quality and colour. The product is stored outside and after 2/3 weeks will start to lose its value due to colour and moisture. The finish product is stored left to right in the storage bays meaning left hand side needs using first. Internal storage includes material of higher value that would also be affected quicker by the weather conditions if stored outside.

3.3.3 Waste Containers (Over 1000 Litres)

There are no liquid containers over 1000 litres, other than the diesel tank is limited to 1250 litres with a constant turnover of fuel being used. This tank is double banded.


No other waste is stored form of container other than regular waste skips.

3.4 Prevent Fire Spreading

All waste is stored externally in large concrete bunkers, using Lego style Blocks, Recycle For Future are constructing their own blocks using specifically designed moulds, the concrete is certified to provide fire resistance of up to 120 mins. The size of each block is 1200mm (Length) x 800mm (Width) x 800mm (High) All material is stored at least 1000mm below the top of the bunker wall, where possible all stock is stacked as close as possible to the wall, this will prevent a fire from building quickly due to the lack of oxygen in or around the block, nor is it stored beyond the boundary line, these measures will assist in preventing the fire from spreading from one pile to another.

3.4.1 Separation Distances

All waste bays are separated by fire retardant concrete walls. Therefore, the separation distances stipulated within the FPP Guidance are not considered relevant at this site in all areas. The use of pre-cast concrete walls between the bays results in waste not having to have a separation distance of 6m. All plant machinery will be parked within the plant storage area away from any combustible waste.

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3.4.2 Fire Walls and Bays

Walls erected in the yard as separation for storage – Lego block walls.

All waste is either stored within waste piles separated by concrete fire walls or by distance within the yard. The fire walls have a fire resistance period of at least 120 minutes to allow the waste to be isolated.

All concrete blocks utilised in the walls are Class A1 fire resistant in accordance with Clause 4.3.4.4 of BS-EN 13369 ‘Common Rules for precast concrete products’

Waste within the bays will always be stored to allow a ‘freeboard’ space of at least 0.5m - 1m at the top of the bay. This will remain clear at all times to prevent the potential spread of fire over the top of the walls. Regular site inspections ensure that freeboard space is maintained and piles are managed correctly. The site will operate a ‘first in first out’ policy and regularly carry out full stock rotation.

3.4.3 Building Construction and boundary

The building has external walls constructed from brick up to a height of 6 metres and metal sheeting from the ground to roof, with the roof being of matching metal sheeting with sky lights installed. Dividing internal walls are from floor to ceiling and are constructed from solid block. The offices are away from the main production area and separated by fire doors. The site is secured with a perimeter palisade/security fence and gates.

3.4.4 Quarantine Area

The sites quarantine areas will be vacant at all times. The location of the quarantine area can be found at the front and to the rear of the site adjacent to the perimeter fence.

The dimensions of the quarantine area are:

REAR: 5m (D) x 10m (W) x 4.2m (H) (Total size 210 m³, this is over 50% of the largest possible pile size)

FRONT: 5m (D) X 8m (W) x 4.2m (H) (Total size is 168m³).

Further hard standing area is available within the boundary of at least 200 m² if needed.

Waste will be removed to the quarantine area using the telehandler or forklift truck, this is a safe way of transporting hot waste to the quarantine area without endangering staff personnel.


The quarantine area is made out of pre-cast concrete blocks (see appendix 5) and have a fire resistance period of at least 120 minutes to allow the waste to be isolated. All concrete blocks utilised in the walls are Class A1 fire resistant in accordance with Clause 4.3.4.4 of BS-EN 13369– ‘Common Rules for precast concrete products’

The quarantine area is a minimum of 8m from any flammable waste, vehicles, other flammable items, or sources of ignition.

3.5 Detecting Fires

The main detection in place is via a series of smoke detectors throughout the building, including the offices. This system can also be activated manually using call points, by person in the unlikely event of a fire not being detected by the detectors.

The system is provided with a full fire alarm system including control panel and alarm points. The system can be added to if required and as within any other items relating to fire safety is tested on a regular basis and the test is recorded within the sites Fire Safety Book.

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3.6 Suppressing Fires

Only manual operated fire extinguishers are available for extinguishing fires. In the unlikely event that a fire was detected and it was deemed too large to deal with, the fire service would be called immediately.

3.6.1 Suppression system information, testing and guidance

With reference to the Environment Agencies FPP requirements, the above referenced system is comprised of key active fire protection components proven throughout high-risk industries (including Waste & Recycling) in the field and are stringently tested.

3.7 Fire Fighting Techniques

The site has been designed to allow active firefighting if required, however the sites detection system is designed to detect any fire within the building.

Upon identifying or being made aware of a fire, the responsible person or first in attendance will raise the alarm, alert all persons present on site to the fire and its location and alert emergency services.

Staff will only tackle the fire using the fire extinguishers if;

- It is safe to do so;
- The fire service has been notified;
- The Environment Agency (where relevant) will be notified;
- The fire is small and not spreading to other areas;
- Escaping the area is possible by backing up to the nearest exit; and
- The fire extinguisher or site water hoses are in working condition.

In the event of a small fire, staff will remove burning material using the sites mobile plant to the quarantine area. Trained staff will then use on site hoses and extinguishers to extinguish the fire.

In the event of a larger fire, staff are to await the Fire and Rescue Service (FRS), who would then take the appropriate actions. All personnel working on site have been provided training in the Fire Prevention Plan and all associated procedures and controls.

The FPP training will be provided to all new starters and temporary employees working at the site. FPP refresher training will be carried out to all personnel at least annually.

3.8 Hand-held Portable Fire Extinguishers


Current Fire Extinguisher Installation is installed, managed, and maintained by Swift Fire Appliance LPP, who place suitable extinguishers on and around site to ensure operators are within easy reach of an extinguishing agent at all times on site.

3.9 Maintenance and Inspection

The fire detection and extinguishers are maintained in line with the manufacturer's guidelines.

All hand-held portable fire extinguishers are annually inspected as per industry guidelines and inspections dates will be written on the extinguishers.

Extinguishers will also feature a tag showing the extinguisher has not been used. If removed or the extinguisher is discharged, they will be inspected again and a new tag added.

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On a monthly basis all fire exits, extinguishers and emergency lighting will be tested and/or inspected. Records of the inspections and tests will be made by the fire wardens and entered in the sites fire log book.

The fire alarm will be tested at the same allotted time each week and again this will be conducted by the fire wardens and recorded in the fire log book.

3.10 Fire Evacuation

The fire assembly point is located at the site entrance and clearly sign posted.

Sites rules are reinforced via use of fire drills and planned response scenarios.

All personnel are to follow the instructions of the Fire Wardens and the Supervisor/Manager. A list of trained Fire Wardens is maintained and displayed on the site, together with a list of on call staff to attend the site in the event of a fire outside of normal operation hours.

The Fire Evacuation Procedure is provided to staff, contractors, and visitors which states;


- On discovery of a fire, immediately operate the fire alarm by pressing the nearest break glass call point
- The Manager or the most senior person on site will quickly assess the situation and call the Fire and Rescue Service if required.
- Fire Wardens and staff must only tackle to fire if they deem it safe to do so, all staff have been given training in the use of fire extinguishers, the equipment is appropriate and if their safety or that of others is not compromised.
- Leave the building / work area by the nearest available exit / safe route and report directly to the assembly point located at the staff parking area.
- Leave quickly but in a calm, controlled and orderly manner. Do not detour to collect personal items;
- Do not re-enter the building / work area for any reason until authorisation has been given by the FRS
- This document is reviewed and updated annually, or sooner if required. The document details all hazards and the control measures that are in place and/or required to prevent fires.

3.11 Drills and testing

The site will conduct evacuation drill every six months to ensure all staff know how to safely leave the building and locate the muster point.

The fire detection system is visually checked daily to ensure all functions are working correctly. The whole system is inspected annually by the installation company. All detector heads are cleaned on a regular basis.

All checks and tests are to be recorded in the sites fire log book.

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3.12 Water Supplies

Cambridgeshire Fire & Rescue Service have confirmed that the 3 closet hydrants to the site are all on the same 150mm water main (*see appendix 1*). This nearest hydrant to the Recycle for Future site is located to the right of site as you face outwards from the site entrance, and a distance of approx. 36 metres from the entrance. This will deliver a minimum of 1150 Litres per minutes (LPM) at 3 bar pressure (normal hydrant pressure).

To be able to extinguish a pile of the largest bunker size (420m³) a minimum of 1400 LPM would be needed. As no bunker is ever full to the maximum, and with the height of the pile a minimum of 1000mm below the height of the bunker, the largest pile size should not exceed 320m³ of which a flow rate of 1050 LPM is needed of which the hydrant should deliver.

3.13 Managing Fire Water

All operational areas of the site are within a building or on an impermeable concrete pad.

In the event of a fire, when safe to do so, all internal water drainage systems are capped off. Where possible, all fire water would be contained on site within the building or within the yard. The working area of the yard would offer a reasonable holding capacity of approx. 250,000 litres at a depth of 100mm.

The on-site drainage system is directly linked to the main sewerage system on the road, in the event of a large fire, an external company (Dalrod Ltd) would be called upon to provide tankers to remove the water from the site, when its deemed safe to do so.

It must be noted that due to the control measures in place onsite to detect and suppress fires in their early stages, it is highly unlikely that the volumes of firewater will ever reach those calculated in accordance with the current Fire Prevention Plan Guidance.

3.14 Attendance by the Fire Service

The site is welcome to openly accept regular attendance by the Fire and Rescue Service for site familiarisation visits and the Fire Prevention Plan will be shared with them.


The closest Wholetime Fire Stations are Stanground and Dogsthorpe Fire Stations, within easy reach of the FRS, being less than 5 minute drive time away allowing a rapid response time.

Surrounding areas offer support to the Wholetime Fire Stations, these are based at Yaxley, Thorney, Peterborough Volunteers.

In the event of an incident, the FRS have easy access to the site by the front access gates via Fengate, in the unlikely event that the site is closed, contact details for the senior management are stored within the Fire Box located at the entrance of the site.

A copy of the site FPP, Fire Safety Risk Assessment are also located on the front face of the main building within a weatherproof box clearly marked Fire Prevention Plan. Staff at Cambridgeshire Fire & Rescue Services should be made aware of this.

The Pre Determined Attendance for this site have been reviewed by Cambridgeshire Fire and Rescue Service to a minimum of 2 x appliances if a fire is confirmed on site. Further resource's will be available if needed.

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3.15 During and After an Incident

During

- All drainage will be closed.
- During any firefighting or subsequent clear up operations, any incoming wastes will be diverted to an alternative waste processing site.
- All nearby residents, businesses and the Environment Agency will be notified during any firefighting taking place on site. Telephone numbers are stored on site.

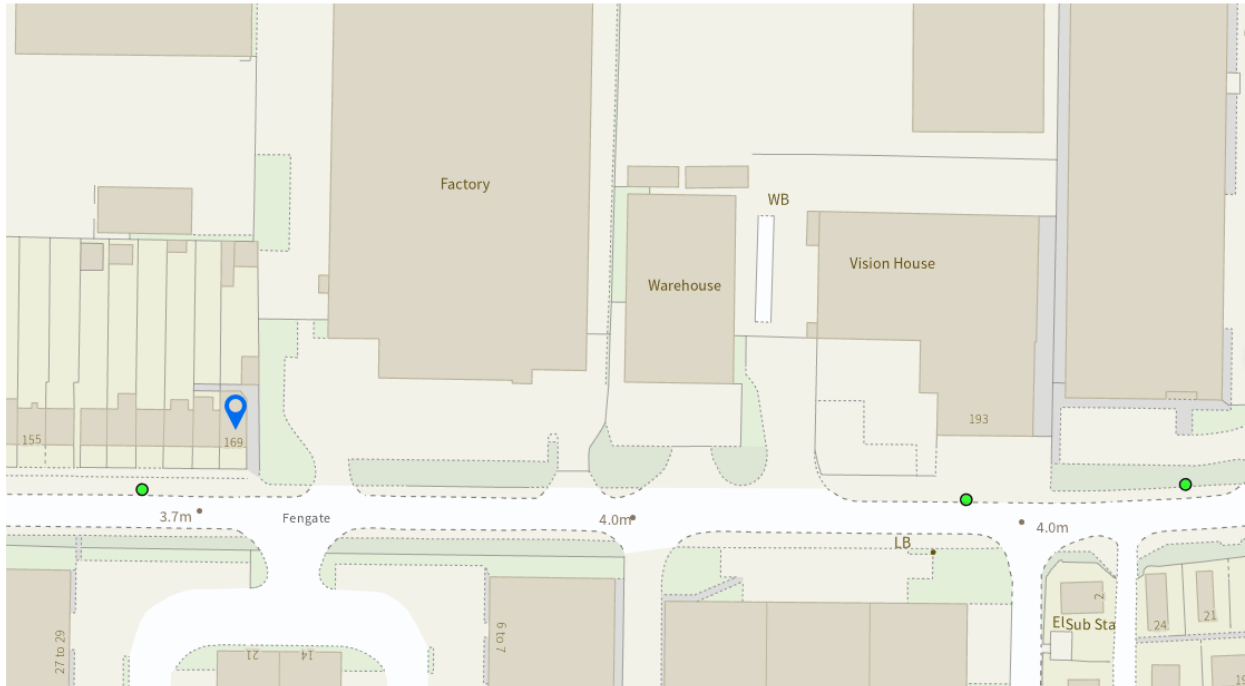
After

- Any burnt material will be disposed at an appropriate facility as non-hazardous waste. It is anticipated that the clearing of burnt material will not take long, as the company are confident that any fires will be appropriately controlled and therefore will not result in significant volumes of burnt waste.
- All fire water captured will have been removed by locally approved contractor.
- Once the burnt material has been cleared off site, site operation can return to normal.
- After any incident the Fire Prevention Plan must be reviewed.

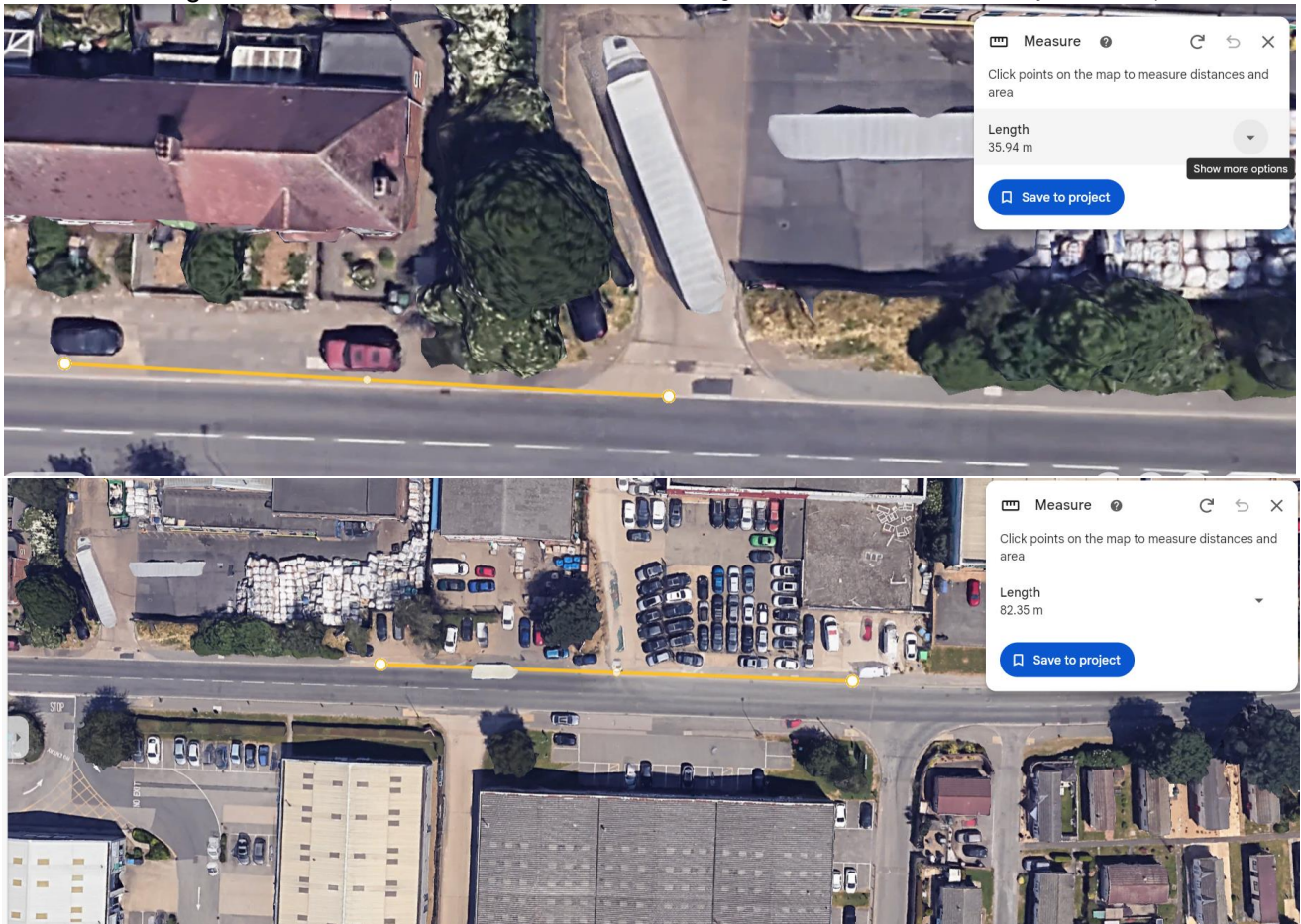
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APPENDICES:

Appendix 1: Hydrant Location Map.

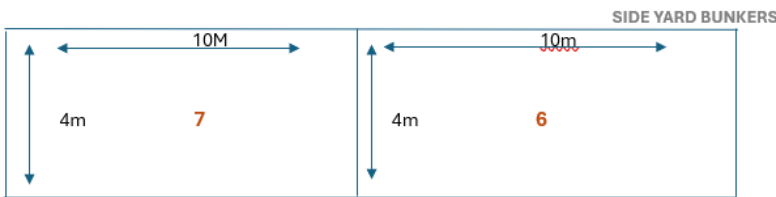
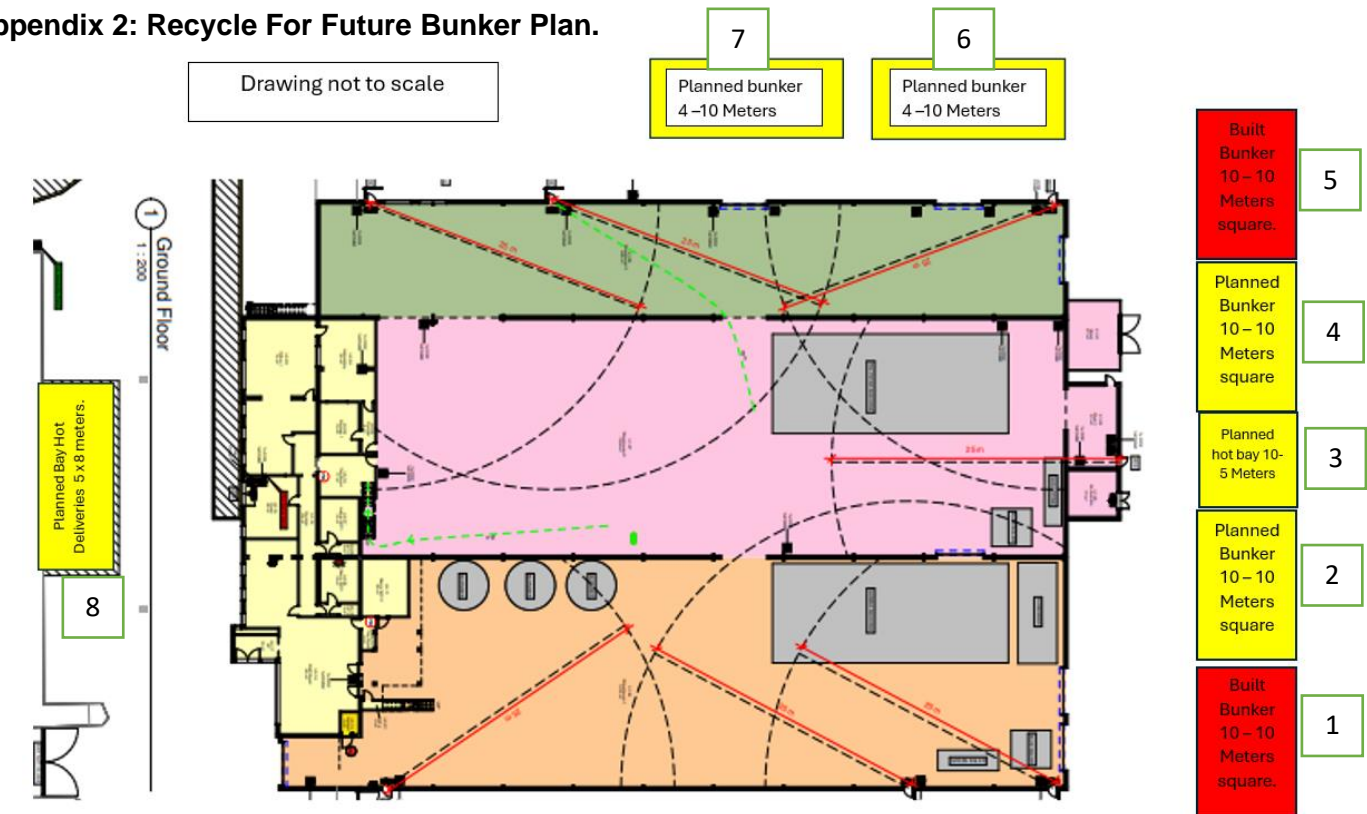


All 3 hydrants indicated (green dots) are on the same 150mm main. A hydrant of this size will deliver on average 1500 Litres per minute at 3 bar pressure. This would be dependent on the time of day and the usage at that time. *(Information obtained from Cambridgeshire Fire & Rescue Services Hydrant Team)*



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Appendix 2: Recycle For Future Bunker Plan.

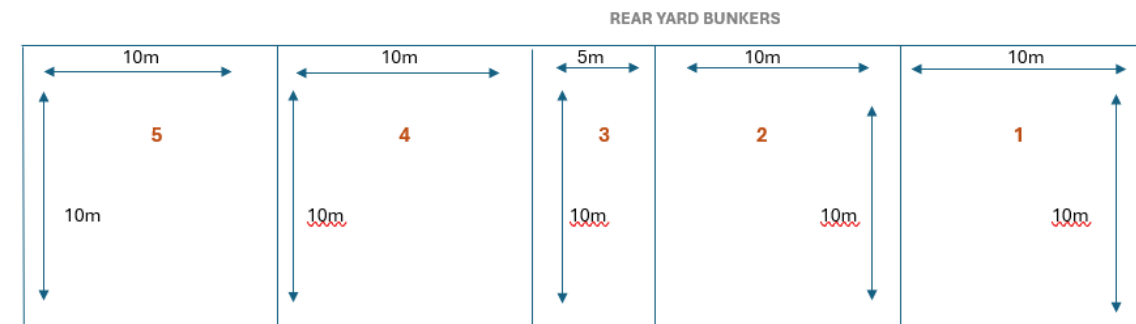


Height 4.2m

Size = 168 m³

Height 4.2m

Size = 168 m³



Height 4.2m

Size = 420m³

Height 4.2m

Size = 420m³

Height 4.2m

Size = 210m³

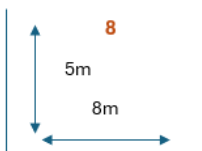
Height 4.2m

Size = 420m³

Height 4.2m


Size = 420m³

FRONT BUNKER

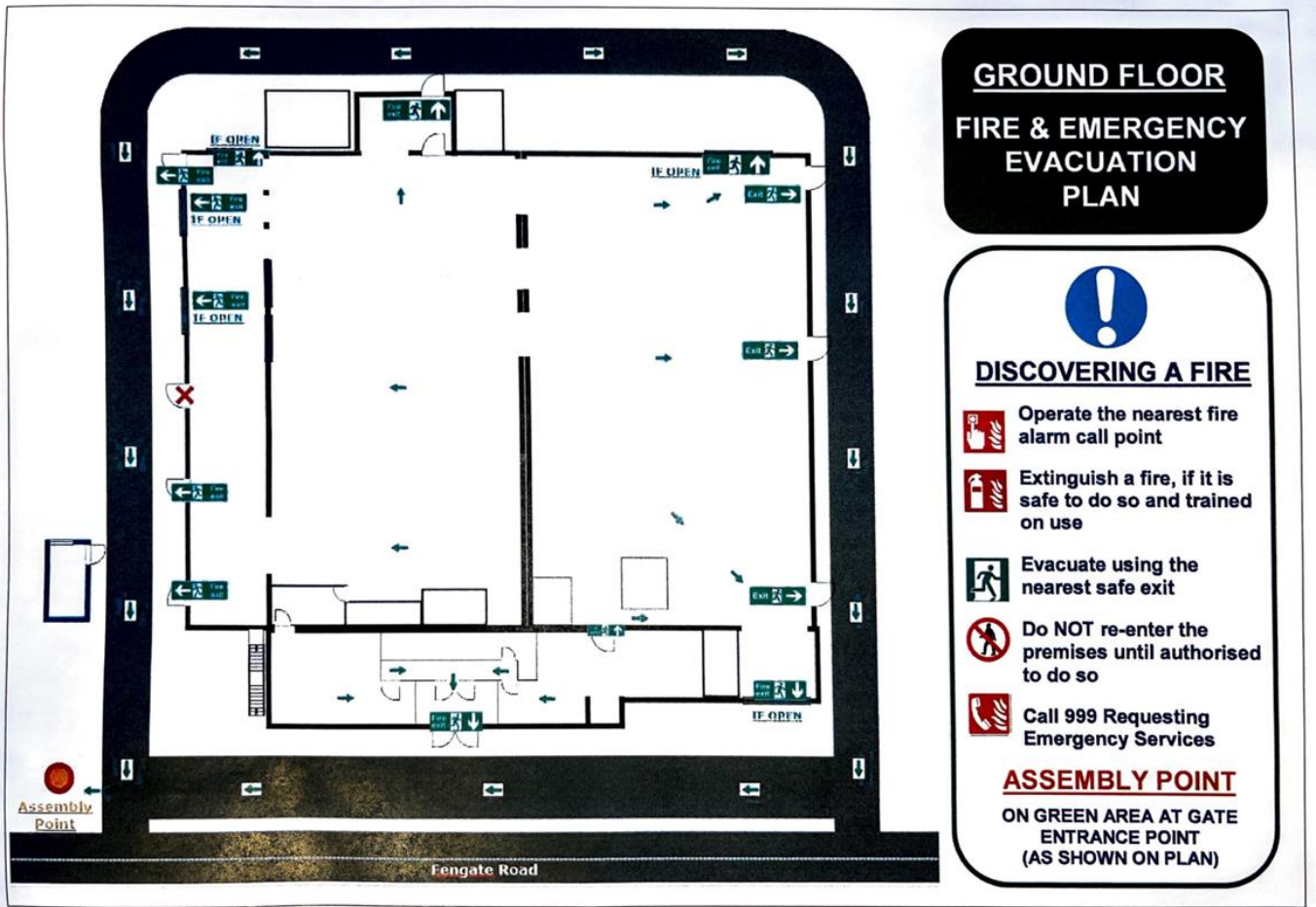


Height 4.2m


Size = 168m³

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Appendix 4: Emergency Evacuation Action Plan.



Appendix 5: MPA – The Concrete Centre. Concrete and Fire Safety PDF



Concrete and Fire Safety



Guidance on the use of concrete and masonry for fire resistant and efficient structures

Contents

Introduction	2
Design principles of fire	3
Concrete and fire	4
Concrete structures	6
Fire safety engineering	10
Specialist design guidance	12
Experience of fires	14
Summary	18
References	19

Introduction

In fire, concrete and concrete masonry perform well – both as an engineered structure, and as materials in their own right: this publication explains how. It is a useful reference guide for designers, clients, insurers and government bodies who need a summary of the important aspects of fire safety design, and the role that concrete can play in maintaining the integrity of the structure, thus preventing the spread of fire and protecting lives. Buildings are covered in depth, while reference is made to tunnels and other structures where concrete is also used.

It is important that we create buildings and structures that minimise risk to both people and property as effectively and as efficiently as possible. Because of concrete's inherent material properties, it can be used to minimise fire risk for the lowest initial cost while requiring the least in terms of ongoing maintenance.


In most cases, concrete does not require any additional fire-protection because of its built-in resistance to fire. It is a non-combustible material (i.e. it does not burn), and has a slow rate of heat transfer. Concrete ensures that structural integrity remains, fire compartmentation is not compromised and shielding from heat can be relied upon.

CONCRETE ENSURES THAT STRUCTURAL INTEGRITY REMAINS, FIRE COMPARTMENTATION IS NOT COMPROMISED AND SHIELDING FROM HEAT CAN BE RELIED UPON.

Cover image:
Hollowcore fire tests, for more information see page 17.

Benefits of using concrete and masonry:

- Concrete and masonry do not burn, and do not add to the fire load.
- Concrete and masonry have high resistance to fire, and can stop fire spreading.
- Concrete and masonry are effective fire shields, providing a safe means of escape for occupants and protection for firefighters.
- Concrete and masonry do not produce any smoke or toxic gases in a fire, so help reduce the risk to occupants.
- Concrete and masonry do not drip molten particles, which can spread the fire.
- Concrete and masonry restrict fire, reducing the risk of environmental pollution.
- Concrete and masonry provide built-in fire protection – there is normally no need for additional measures.
- Concrete and masonry can resist extreme fire conditions, making them ideal for storage premises with a high fire load.
- Concrete's robustness in fire facilitates firefighting and reduces the risk of structural collapse.
- Concrete and masonry are typically easy to repair after a fire, and so help businesses to recover quicker.
- Concrete and masonry is resilient to damage from water used for fire fighting.
- Concrete, when properly designed, can withstand extreme fire conditions encountered in tunnels.

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Appendix 6: Vehicle Heat Check Sheets.

16/05/24

Time booked	Customer	Truck Container	Time In	Time out	Parked up Y/N	Time Parked	Time Called	Heat tested	Phone Number
07:00	Delivery - Truck - Tata Steel	Truck	6.50	7.50	NO				
07:30	Delivery - Truck - Amcor Ledbury	Truck	8.00	8.45	YES	7.10	7.50		Amcor
08:00	Delivery - Truck - ARR	Truck	8.15	8.50	YES	7.55	8.10		07970911284
08:00	Collection - Container - Pakistan	Container	11.40	12.50	YES	10.00	11.30		07397259149
08:30	Delivery - Truck - CJM	Truck	10.00	10.50	YES	9.00	9.45		07862833229
09:00	Collection - Container - Turkey	Container	9.05	10.05	NO				
09:30	Delivery - Truck - Malary	Truck	10.20	11.30	NO				
10:00	Collection - Container - Turkey	Container	13.00	13.45	YES	10.30	12.50		07362205502
10:30	Delivery - Truck - Cory	Truck	7.00	8.05	NO			yes	
11:00	Collection - Container - Turkey	Container	10.20	11.20	NO				
11:30	Delivery - Truck - Agnail	Truck	9.05	9.45	YES	7.40	8.50		07533729913
12:00	Collection - Container - Turkey	Container	13.55	14.45	YES	12.40	13.45		07383188563
14:00	Delivery - Truck - Veolia	Truck	14.05	15.00	NO			yes	
	Delivery - Green Recycling	Truck	15.00	16.00	NO			yes	
	Collection - KSB Works	Truck	17.20	18.00	NO				

17/05/24

Time booked	Customer	Truck Container	Time In	Time out	Parked up Y/N	Time Parked	Time Called	Heat tested	Phone Number
07:00	Delivery - Truck - Sherbourne	Truck	6.30	7.30	NO			YES	
09:00	Collection - Container - Turkey	Container	8.00	9.00	NO				
10:00	Collection - Container - Turkey	Container	9.10	10.00	NO				
11:00	Collection - Container - Turkey	Container	10.20	11.10	NO				
11:30	Delivery - Truck - Saica	Truck	10.30	12.15	NO			yes	
12:00	Collection - Container - Turkey	Container	12.15	13.00	YES	10.30	12.00		07891149922
13:00	Delivery - Truck - All star	Truck							
14:00	Delivery - Truck - Saica	Truck	16.00	16.45	NO			yes	
	Delivery - Green Recycling	Truck	16.30		NO			yes	
	Delivery - Pulp Friction	Truck							
	Delivery - Wheelclan Brothers	Truck	12.50	14.30	YES	11.15	12.40		07855478050
	Delivery - Wheelclan Brothers	Truck	14.40	15.25	NO			yes	
								yes.	

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Time booked	Customer	Truck Container	Time In	Time out	Parked up Y/N	Time Parked	Time Called	Heat tested	Phone Number
07:00	Delivery - Truck - Wheeldon	Truck	N/A						
07:30	Delivery - Truck - Amcor evesham	Truck	8.20	9.00	NO				
08:00	Delivery - Truck - Boost	Truck							
09:00	Collection - Container - Turkey	Container	12.40	13.35	Yes	11.40	12.30		07487806847
09:30	Deivery - Truck - KEE	Truck							
10:00	Collection - Container - Turkey	Container	13.40	14.30	NO				
11:00	Collection - Container - Turkey	Container	10.50	12.00	NO				
12:30	Delivery - Truck - Waste care	Truck							
13:00	Delivery - Truck - Recyclify	Truck							
13:30	Delivery - Truck - Greens Recycling	Truck	N/A						
14:00	Delivery - Truck - Printwaste	Truck	N/A						
15:00	Delivery - Truck - TJ Morris Amesbury	Truck							
	Delivery - W212	Truck	11.15	12.50	NO			yes	

END OF REPORT



This Fire Prevention Plan has been produced by Safe Training and Consultants in association with Recycle For Future Ltd. All Information has been supplied by Recycle For Future Ltd and is accurate at the time of this assessment.