Caulmert Limited

Engineering, Environmental & Planning Consultancy Services

Atlantic Household Waste Recycling Centre

FCC Waste Services (UK) Limited

Environmental Permit Variation Application

Fire Prevention & Mitigation Plan

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Document Reference: 6326-CAU-XX-XX-RP-V-0302.A0.C1

July 25

Caulmert
engineering environmental planning

APPROVAL RECORD

Site: Atlantic Household Waste Recycling Centre

Client: FCC Waste Services (UK) Limited

Project Title: Environmental Permit Variation Application

Document Title: Fire Prevention & Mitigation Plan

Document Ref: 6326-CAU-XX-XX-RP-V-0302.A0.C1

Report Status: **Final**

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Author	Enlli Roberts Environmental Consultant	**Date**	12/11/2024
Reviewer	Andy Stocks Director of Environment	**Date**	08/04/2025
Approved	Andy Stocks Director of Environment	**Date**	08/04/2025

Revision Log			
Revision	**Description of Change**	**Approved**	**Effective Date**
C1	Initial Release	AS	03/07/2025

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Fire Prevention & Mitigation Plan

TABLE OF CONTENTS

DRAWINGS

6326-CAU-XX-XX-DR-V-1800 Sensitive Receptors Plan
6326-CAU-XX-XX-DR-V-1801 FPMP Site Layout

Appendices

Appendix 1 Site Inspection Forms

1.0 INTRODUCTION

1.1 Application Overview

1.1.1 FCC Waste Services (UK) Ltd (hereby known as the 'Operator') operates the Atlantic Household Waste Recycling Centre ('The Site') located in The Atlantic Trading Industrial Estate on the outskirts of Barry, Vale of Glamorgan, South Wales, under Environmental Permit EPR/UP3395VQ.

1.1.2 This Fire Prevention and Mitigation Plan (FPMP) has been written following consultation with the following guidance documents:

- *NRW Fire Prevention & Mitigation Plan Guidance – Waste Management Guidance Note 16 'Reducing Fire Risk at Waste Management Sites', Waste Industry Safety & Health Forum.*

1.1.3 In addition to the above, the site will operate in line with its Environmental Management System which details emergency procedures for accidents, fires and spillages.

1.1.4 This FPMP and the fire prevention measures specified have been designed to satisfy Natural Resources Wales (NRW) to:

- Reduce the likelihood of a fire.
- Reduce Impact from emissions during or after a fire on the local community, critical infrastructure and the environment.
- Consider resources required by the NRW and other emergency services during an incident, and.
- Procedures for post incident clean-up and remediation costs.

1.1.5 The permit allows the operator to run a Household Recycling Centre for the storage of non-hazardous and inert waste.

1.1.6 These changes have been incorporated into this FPMP, and changes made to drawings to reflect the permit variation:

Sensitive Receptors Plan: Drawing Ref 6326-CAU-XX-XX-DR-V-1800

FPMP Site Layout: Drawing Ref 6326-CAU-XX-XX-DR-V-1801

1.1.7 The annual throughput of waste will not exceed the proposed 24,999 tonnes per year which is reflected through the Site's permit variation application.

1.2 Site location

1.2.1 The Site is located to the southeast of the town of Barry in South Wales. The Site operates from the Atlantic Trading Estate, an industrial estate situated near the mouth of the Cadoxton River which flows into the Bristol Channel at the Bendricks to the southeast of the Barry Docks. The Atlantic Trading Estate is accessed via Wimbourne Road from Ffordd-y-Mileniwm near

Weston Square, Cadoxton or from Hayes Road from the B4267 Sully Moors Road, southwest of the village of Sully. It covers an area of 3.73 ha. The centre of the Site can be found at OS Grid Reference ST 13648 67209 (postcode: CF63 3RF). The proposed permit boundary is shown in **Figure 1** below.

1.2.2 The area from the west to the east of the Site, forming an arc towards the north is populated predominantly by industrial sites. The opposite side of the Site, towards the south, opens up to the Bendricks, a stretch of coastline and important paleontological site in the Vale of Glamorgan, and further south, the Bristol Channel.

1.2.3 Current access is from Wimbourne Road from Ffordd-y-Mileniwm near Weston Square, Cadoxton, or from Hayes Road from the B4267 Sully Moors Road, southwest of the village of Sully.

1.2.4 The Site location is shown below in **Figure 1**:

Figure 1 – Site Location (permit boundary outlined in red)

1.3 Sensitive Receptors

1.3.1 A sensitive receptor search has been conducted of the surrounding area within 1km radius of Atlantic HWRC using Defra's Magic Maps website[1] and other publicly available sources. The sensitive receptors identified are listed below in Table 1 and shown on the attached 'Sensitive Receptor Plan' drawing ref. 6326-CAU-XX-XX-DR-V-1800. The distance to each receptor is measured from the Barry HWRC permit boundary ('*the Site*').

1.3.2 The receptor search radius in relation to the site boundary are shown below in **Figure 2:**

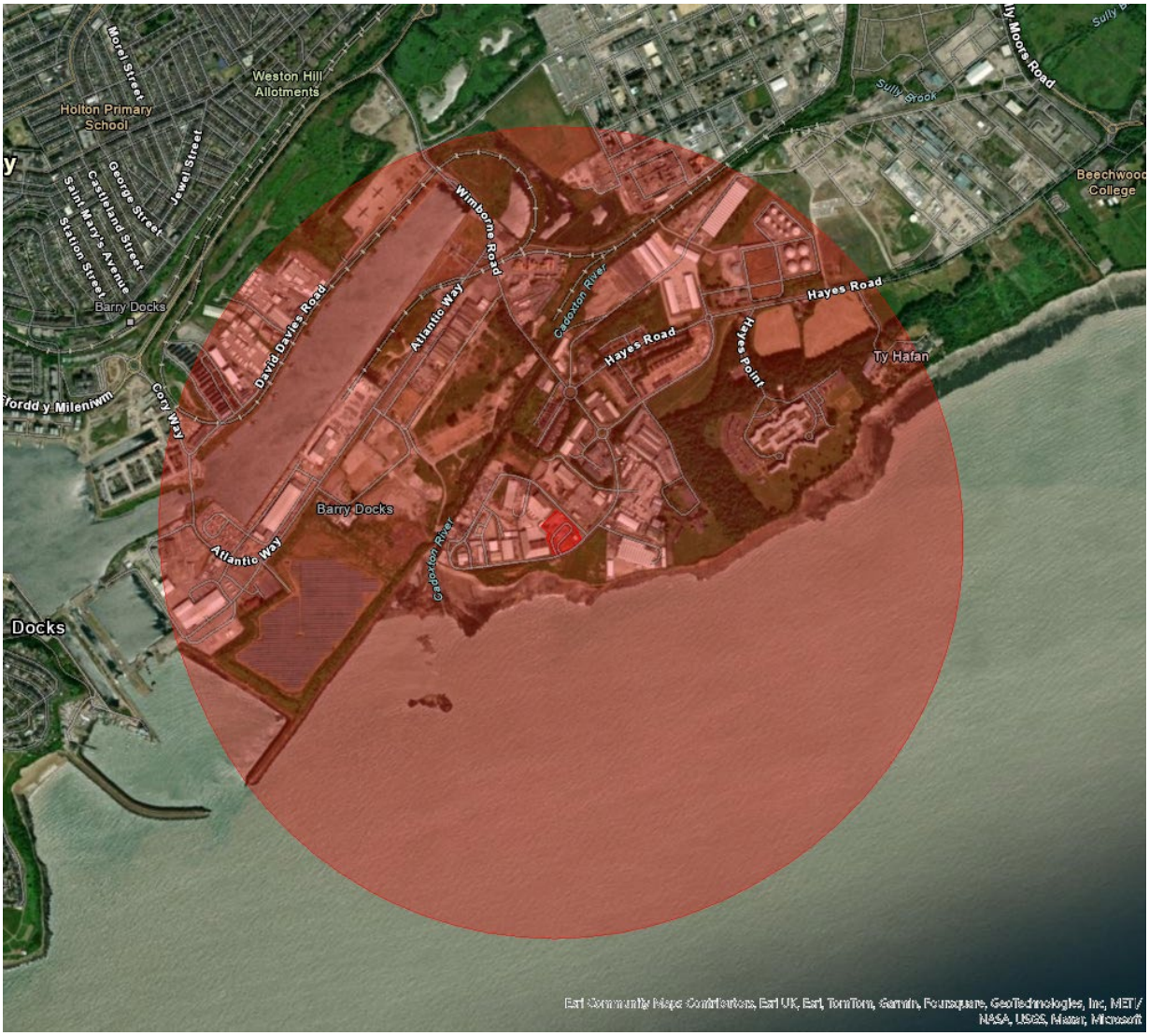


Figure 2 – 1km radius from the Site boundary.

1.3.3 The closest human receptors are users of the Atlantic Trading Estate road network which abuts the eastern and southern boundaries of the Site. The closest residential receptors are the residential properties situated along Bendrick Road located 153m north-northeast of the Site. The largest potential group of sensitive receptors are the commercial and industrial

[1] DEFRA Magic Maps 2025: https://magic.defra.gov.uk/MagicMap.aspx

properties operating within the industrial estate, the closest of which are approximately 18m northeast and 75m east-southeast. Additional potential receptors include residential properties along Wimborne Road and Hayes Road, as well as the residential apartments located approximately 630m east-northeast of the site. There are no schools within 1km of the site. The closest hospital is Tŷ Hafan Children's Hospice located 962m east-northeast of the site boundary.

1.3.4 The Site is not located within a Drinking Water Safeguard or a Source Protection Zone (SPZ).

1.4 Designated Sites of Ecological Importance & Other Habitats

1.4.1 The closest statutory designation is Hayes Point to Bendrick Rock SSSI located 35m south of the Site boundary. The 28ha area has been designated due to its special geological aspects of national importance as it provides a significant insight into Triassic lake and river deposits. The nearest Special Area of Conservation (SAC) is the Severn Estuary located 5km east of the site boundary. There are no Special Protection Areas (SPAs) or Ramsar sites within 1km of the site, the nearest of which are located 2km east-northeast on Sully Island. There are no National Nature Reserves (NNRs), or Areas of Outstanding Natural Beauty (AONBs) within 5km of the Site. The closest Priority Habitat Designations include a lowland calcareous grassland and a lowland meadow, located approximately 2km east-northeast in Sully, and 2.7km southwest on Friar's point, respectively.

1.5 Summary of Identified Sensitive Receptors

1.5.1 A summary of the identified sensitive receptors within 1km is detailed in Table 1 below. The distance to each receptor is measured in metres from the closest part of the Site boundary.

Table 1 – Summary of Sensitive Receptors within 1km of the Site boundary.

Receptor	Receptor Type	Distance/Direction
Principle Aquifer	Groundwater	Below Site
Users of the Atlantic Trading Estate Road Network	Public Road	Abuts the eastern and southern boundaries of the site
Lydon SGB Scaffolding	Commercial / Industrial	18m NE
Hayes Point to Bendrick Rock	SSSI	35m S
Accsys Wood Supplier	Commercial	75m ESE
Techniflow UK	Commercial	93m ENE
Atlantic Secure Self Storage	Commercial	110m ENE
Espex Batteries	Commercial	111m W
Install Skip Hire	Commercial / Industrial	139m NNW
LB Osteopathy	Commercial	142m WSW
Kits 'n Bits Auto electrical Service	Commercial	145m NE
Bendrick Road	Residential	153m NNE
Scott FPS	Commercial	170m NNE
Functional Fitness	Commercial / Recreational	177m W
Window Cleaning Warehouse	Commercial	178m NNE

Receptor	Receptor Type	Distance/Direction
Firebug Photography	Commercial	180m NE
Veesu Taxis	Commercial	187m NNE
Spartan Equipment Sales	Commercial	274m W
A&L Scrap Car Dealers	Commercial / Industrial	225m WNW
Peacock Scaffolding Solutions	Commercial / Industrial	202m NW
Heinnie Haynes	Commercial	264m NNE
Denise's Cafe	Commercial / Recreational	273m NE
Cadoxton River	Surface Water / Habitat	273m WNW
Kellaway Commercial Limited	Commercial	280m NE
Tim Hayward Car Sales	Commercial	288m ENE
Scafftag Safety	Commercial	291m NE
Vale Cleaning Services	Commercial	312m NE
Café Atlantic	Commercial / Recreational	325m N
Chaseblue Loans	Commercial	329m ENE
Users of Hayes Lane	Public Road	338m NE
G Wood Flooring	Commercial	339m NE
Users of Lon Felin Wynt	Public Road	361m NNE
Users of Hayeswood Road	Public Road	386m NNE
Residential Properties on Wimborne Road	Residential	399m N
Residential Properties on Hayes Road	Residential	406m NNE
Nearby Solar Panel Array	Commercial	465m WNW
Atlantic Salvage	Commercial / Industrial	472m NW
Wardle Painters	Commercial	510m NW
Vale Aggregates	Commercial / Industrial	511m N
APC Wales	Commercial	544m NNW
O'Reilly Precast	Commercial	547m NW
Users of Atlantic Way	Public Road	550m WNW
Pink Self Storage	Commercial	564m NNW
Alembic Manufacturing	Commercial / Industrial	565m NW
Dragon Windscreens	Commercial	568m NW
Courtlands Apartments	Residential	628m ENE
Headlands Apartments	Residential	631m ENE
Scott Pallets	Commercial	637m W
Barry Port Office	Commercial	792m WSW
Shua Cat Sanctuary	Animal Care Facility	831m NE
Bruno Timber Products	Commercial / Industrial	848m NW
S&K Haulage Glamorgan	Commercial / Industrial	852m NW
Palletways Cardiff	Commercial	859m WSW
Users of David Davies Road	Public Road	944m NW
Tŷ Hafan Children's Hospice	Healthcare Facility	962m ENE
Users of Queen's Way	Public Road	970m W
Users of Fordd Darwin	Public Road	989m W
Users of Ffordd Wallace	Public Road	1km WNW

1.6 Meteorological Setting

1.6.1 Prevailing winds are from the south-southwest, therefore the receptors to the north-east of the site are most likely to be impacted in the event of a fire (see **Figure 4**).

1.6.2 The closest meteorological station to the Site actively recording wind statistics is the Old Knap weather station, located approximately 3km southwest. Wind statistics from this weather station are considered to be representative of the typical conditions at the site (see **Figure 3** below).

1.6.3 A review of the data recorded daily between April 2012 and March 2021 on the Windfinder.com website[2] indicates that the prevailing wind direction is from the south-southwest. Therefore, there is limited potential fugitive emission propagation towards the majority of sensitive receptors which are located northwest of the site, including the majority of the identified residential receptors. The primary receptors to the northeast are industrial sites.

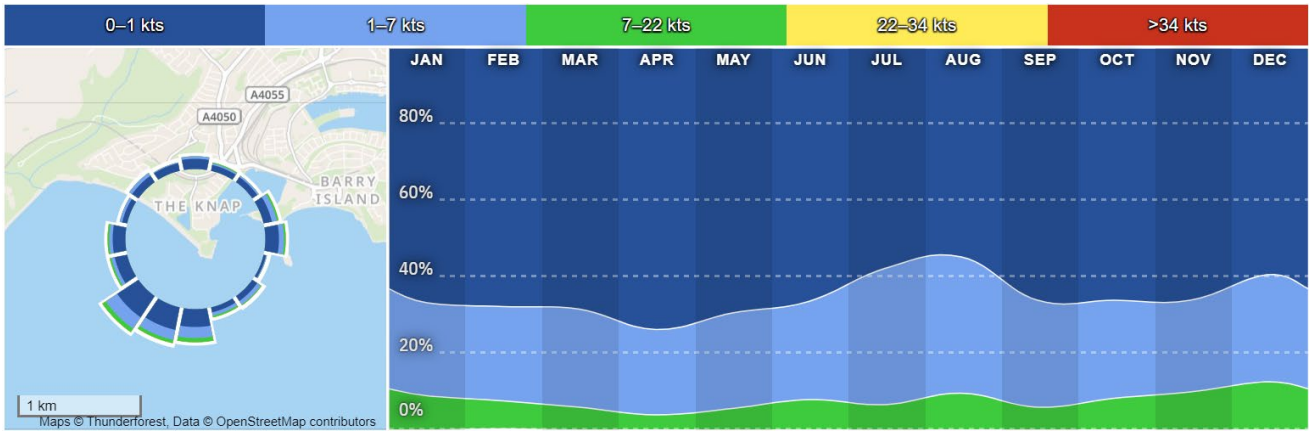


Figure 3 – The Old Knapp Weather Station, average wind direction & strength 2012 to 2021.

[2] Windfinder website 2023, found here: https://www.windfinder.com/windstatistics/lawford-heath_rugby

Figure 4 – The direction towards which the prevailing wind is blowing (NNE) in relation to the Site.

2.0 SITE ACTIVITIES

2.1 Site Layout

2.1.1 The Site is to be operate as a household waste recycling centre. The facility consists of 21 containers situated across a split-level layout. The location and waste type of each skip is outlined in drawing ref. 6326-CAU-XX-XX-DR-V-1801. Other Site infrastructure includes staff welfare and workshop / shed.

2.2 Site Activities

2.2.1 The Site is being utilised as a household waste recycling centre for the southeast of Barry.

2.2.2 The Atlantic HWRC will accept and store the following potentially combustible non-hazardous materials:

- Paper and cardboard
- Plastics
- Rubber
- Wood
- Engine Oil
- Cooking Oil
- Waste electrical and electronic equipment such as fridges, computers, and televisions containing combustible materials such as plastic
- Green waste
- General / mixed waste
- Clothes / textiles

2.2.3 Vehicles will be directed to offload in the designated area of the Site. The operatives overseeing the offloading process will be fully trained and knowledgeable regarding the nature and types of waste that are permissible.

2.2.4 The site operatives will assist in directing users to the correct tipping/storage areas for their waste. Any wastes not suitable for recycling, will be bulked up and stored in the residual waste container until it is removed off site for disposal at a permitted landfill facility.

2.2.5 The Site manager or supervisor will ensure that there is sufficient storage and operating resources to accept wastes to Site and ensure that all storage and treatment activities are carried out within the designated containers. Details of all inspections/checks carried out will be recorded on Site Inspection Form (**Appendix 1**).

2.3 Surface Waters and Site Drainage

2.3.1 All areas of external hard surfacing with the exception of the external concrete pad storage area are laid to fall to the surface water drain system.

2.3.2 The three chamber oil interceptors serving the Site will discharge to the Site surface water drain system. The interceptors will have a minimum of six minutes retention time per chamber

at its maximum flow rate and will be regularly inspected and maintained to ensure their effectiveness in intercepting all liquids which run off the Site surfaces.

2.3.3 The site is a split-level facility, with the upper level surfaced in tarmac and the lower level constructed with a concrete base. The external concrete pad storage area, located on the lower level, has a kerbed and impervious engineered base. Potentially contaminated surface water arising from operations in this area will drain to the oil interceptor, which serves the lower section of the HWRC site near the exit gate.

2.3.4 Run-off, including that from the concrete storage pad area, is discharged directly from the interceptor via gravity into the consented discharge drainage point. It then combines with other run-off and is directed to a silt trap and oil interceptor before being discharged into the sewer.

2.3.5 Areas of impermeable pavement, and kerbs will be constructed and maintained to prevent fluids running off the pavement and the transmission of fluids through the pavement or joints. Uncontaminated drainage from clean yard areas shall be kept separate and discharged to the Site surface water drain system. All fixed containers used for the storage and treatment of wastes will be constructed and maintained to a standard, which is fit for purpose.

2.3.6 All areas of hard standing, impermeable pavement, sealed drainage systems, containers, and storage areas for skips, drums and other mobile tanks and containers will be inspected no less frequently than monthly, to ensure the continuing integrity and fitness for purpose of their construction, and the inspection and any necessary maintenance will be recorded on a rolling action plan.

2.4.3 On a minimum weekly basis, the site supervisor will conduct a walkover survey of the hard surfacing, drainage systems and facilities and report any defects, silting, blockages or likely required future action on the Site Inspection Form and remediated accordingly.

2.4.4 For details on firewater management, please refer to *Section 8*.

2.4 Staffing and management

2.4.1 Whenever the site is open to receive waste, it will be supervised by staff who are fully conversant with the requirements of the environmental permit and the Working Plan. This includes knowledge of waste acceptance and control procedures, operational controls and environmental monitoring, maintenance protocols, record-keeping responsibilities, emergency action plans, and the necessary notifications to Natural Resources Wales (NRW). A technically competent person shall have responsibility for the day-to-day operation of the Site. Natural Resources Wales will be notified of the person's name, address, and telephone number.

2.4.2 All Site staff shall work under supervision of a member of staff who is fully conversant with those aspects of the permit conditions and the Working Plan which are relevant to their specific duties.

The site operates during the following hours for all waste operations:

Summer:	08:00 – 18:00
Winter:	10:00 – 16:00
Christmas Day, Boxing Day, New Year's Day:	CLOSED

2.4.3 Emergency work may however be carried out outside the hours detailed above; this will be with notification to NRW. Outside of these hours the close will be locked and secured to prevent unauthorised access.

2.5 Vehicles, plant and equipment

2.5.1 Wastes and site operations are assisted by mobile plant. Additional plant may be hired to site to cover any busy periods. Only trained personnel are permitted to drive/operate the plant.

2.6 Waste types and storage

2.6.1 The waste types accepted at site are solid, dry, household wastes.

2.6.2 Wastes tipped at the Site are brought in directly by individual users, typically arriving in cars, vans, or with trailers. A summary of the accepted waste types, along with their maximum storage durations and quantities, is provided in **Table 3** for each waste stream.

Table 3: Waste types and storage times/arrangements

Waste type	How is it stored? E.g. piles, containers, bays, skips, racks, bales	Form		Max. storage time (days)	Location
		Unprocessed ; shredded; baled	>150mm; 30-150mm; <30mm		
Rigid plastic	40 yrd container	unprocessed	>30mm	7	Bay 1
Bulked Waste	40 yrd container	unprocessed	>150mm	2	Bay 2
Scrap Metals	40 yrd container	unprocessed	>150mm	4	Bay 3
SDA	40 yrd container	unprocessed	>150mm	7	Bay 4
Green waste	40 yrd container	unprocessed	>150mm	5	Bay 6
Cardboard	40 yrd container	unprocessed	>150mm	7	Bay 7
Wood	Loose	unprocessed	>150mm	2	Bay 8
Fluorescent Tubes	Stillage	unprocessed	>150mm	30	Bay 9
Engine oil	2000ltr tank	unprocessed	-	30	Bay 10
Cooking oil	2000ltr tank	unprocessed	-	30	Bay 11
Inert waste	20 yrd container	unprocessed	>150mm	8	Bay 12
Soft plastics	30 yrd container	unprocessed	>150mm	14	Bay 13

Mixed glass bottles	30yrd container	unprocessed	>150mm	30	Bay 14
Plasterboard	30yrd container	unprocessed	>150mm	7	Bay 15
Mixed Waste	40 yrd container	unprocessed	>150mm	2	Bay 16
Textiles	Igloos	unprocessed	>150mm	3	Bay 17
Fridges	20yrd ISO container	unprocessed	>150mm	14	Bay 18
CNTS	20yrd ISO container	unprocessed	>150mm	14	Bay 19
UPVC plastic	10yrd ISO container	unprocessed	>150mm	10	Bay 20
Tyres	Loose	unprocessed	-	10	Bay 21
Paper	30 yrd container	unprocessed	30-150mm	20	Bay 22
Paint	Stillages	unprocessed	>150mm	20	Bay 23
Carpet	40yrd container	unprocessed	>150mm	7	Bay 24

2.6.3 Flammable materials handled on Site for maintenance and the licenced operation are stored in a self-bunded tank on site to prevent the spillage of fuel. The fuel tanks are stored in behind the Site cabins as shown in the FPMP Site Layout, drawing ref: 6326-CAU-XX-XX-DR-V-1801.

2.6.4 The fuel tanks are surrounded by a bund with a holding capacity of 110% on impermeable surfacing. All pipework and infrastructure are also contained within this bund. A lock is provided and fitted to the tank valve to prevent unauthorised access and operation and is clearly labelled identifying the contents within the tank.

3.0 MANAGING THE COMMON CAUSES OF FIRE

3.1 Arson, Vandalism and Site Security

3.1.1 To prevent/reduce risk of arson, the main entrance gates will be padlocked when the Site is unmanned to prevent any unauthorised access.

3.1.2 All Site staff are instructed that, in the event of finding evidence of unauthorised access and/or vandalism, the matter must be reported to the Site Manager and in the event of serious incidents the Police. In the event that unauthorised tipping is found to have taken place at the Site, the Site Manager and Natural Resources Wales must be informed as soon as is reasonably practicable. Perimeter fences which are found to be damaged will be repaired as soon as practicable.

3.1.3 Site security will be inspected on a daily basis as per the Daily Site Inspection Form (**Appendix 1**), any defect which impairs the effectiveness of security will be repaired within 5 working days and noted in the site diary within 24 hours.

3.2 Visitors & Contractors

3.2.1 All visitors and contractors on Site will be made aware of the Fire Prevention and Mitigation Plan during the site induction, the induction will cover the correct fire and safety procedures in the event of a fire on Site.

3.3 Ignition Sources

3.3.1 In the event than an item of equipment is used on Site which contains a source of ignition (e.g. welding), it will be kept at least 6m away from containers of combustible and flammable materials.

3.3.2 All staff and employees are trained (via site induction) and aware of the severity of any instances of unauthorised burning of waste which will lead to immediate dismissal. Firefighting equipment are kept in areas close to waste storage should there be any accidental burning of waste as a result of negligence. Fire Extinguishers will be located across the Site to aid the quick suppression of a fire once detected. The located of fire extinguishers are shown in the FPMP Site Layout, drawing ref: 6326-CAU-XX-XX-DR-V-1801.

3.4 Self-Combustion

3.4.1 The risk of incompatible waste streams self-combusting has been minimised by the waste acceptance measures outlined in *Section 2.2*.

3.4.2 The following materials stored on site could present a risk of self-combustion if stored for a lengthy period:

- Green waste materials
- Compost

- Wood
- Paper
- General / mixed waste

3.4.3 To further minimise the risk of self-combustion all combustible materials will be stored in accordance with **Table 3** of which storage times are typically 1-30 days, which is considerably less than 90 days indicated in the guidance for combustible materials. Due to the short storage time of combustible wastes on Site it is considered that the likelihood of reactions between wastes is low.

3.4.4 Due to storage limitations on site many of these wastes are removed on a daily basis during busy periods but remain for no longer than 30 days.

3.4.5 All wastes will be stored within small enclosed (purpose designed) recycling containers or within larger open topped containers.

3.4.6 Waste will not be stockpiled or stored directly on the ground.

3.4.7 In addition, Site operatives will carry out regular visual fire checks to inspect the waste and increase the frequency of these checks during periods of hot weather. Should any signs or indications of smoke/smouldering be detected, these will be reported and logged in the Site diary and suitable actions will be taken to prevent ignition.

3.5 Plant & Equipment failure

3.5.1 All items of plant and equipment undergo regular Preventative maintenance checks either by the Site Manager or nominated person to ensure their safe operation and prevent any breakdown which can result in a spillage or leak of fuel.

3.5.2 All plant and equipment undergo regular servicing in accordance with the manufacturers maintenance specifications which is carried out by the plant manufacturer. This is to ensure working order in line with service contracts and to identify any faults which could result in a potential leak/spillage of oils and fuels.

3.5.3 In the event of plant or equipment breakdown, an alternative replacement will be brought onto site until it is repaired. Repairs will be carried out within 5 working days (unless otherwise agreed with NRW) outside on impermeable surface with absorbents and spills kits available used to clear any oil or fuel spillages.

3.5.4 To prevent fires from equipment failure, regular inspection of all plant and equipment is carried out, staff are trained to look for leaks and damages which may lead to the spillage of flammable liquids. Preventative measures also include regular maintenance of equipment on Site.

3.5.5 Staff undertake regular inspection of plant and equipment for leaks and damage to prevent spillage of flammable liquids. Spill kits can be found around the site to be used in the event of a spillage.

3.5.6 Mobile plant will be parked a minimum of 6m away from any combustible waste stockpiles and away from the Site facilities when not in use. The location of the mobile plant parking area is shown in the Site Layout Plan, drawing ref: 6326-CAU-XX-XX-DR-V-1801.

3.6 Discarded Smoking Materials

3.6.1 To prevent/reduce the risk of fires caused from smoking there is a no smoking policy at the facility. No smoking signs are displayed around the site. A designated smoking area is provided which is located outside and away from combustible materials, the location is shown in the Site Layout Plan (6326-CAU-XX-XX-DR-V-1801).

3.6.2 All contractors must have completed a site-specific induction within the last 12 months as a minimum. The inductions cover issues such as the no smoking policy, site H&S signage, COSHH and what to do in the event of any emergency.

3.7 Hot Works

3.7.1 Should any hot works be carried out on site (such as welding and cutting) undertaken by staff or contractors, a permit to work system for any hot works will be in place and will be carried out at a minimum distance of 6m away from any combustible wastes.

3.7.2 Any hot works will be recorded in the 'Daily Site Inspection Form- continuation sheet' in **Appendix 1** and will include a visual fire watch which is set to check at 15, 30, and 60 minutes after works are completed.

3.8 Industrial Heaters

3.8.1 Not applicable, not utilised on Site.

3.9 Wood Burners / Biomass Dryers

3.9.1 Not applicable, not utilised on Site.

3.10 Hot Exhausts

3.10.1 Designated staff will monitor the Site and carry out daily checks during the working day to identify signs of a fire from hot exhausts, engines or surface. A Daily Site Inspection Form (**Appendix 1**) includes mobile plant and equipment checks.

3.10.2 All mobile plant are cleaned down at the end of the working day and a final visual check of the plant is carried out by that operator. In addition, the Site carries out a 'Preventative Maintenance Checklist' (**Appendix 1**) on all plant and machinery to ensure it is mechanically sound and not creating any unusual and/or excessive heat sources.

3.11 Electrical Faults

3.11.1 All electric is provided by underground electric cable supply and lighting.

3.11.2 To prevent/reduce the risk of fires from electrical faults, all electrics on site will be fully certified by a qualified electrician. The Site undergoes a daily site inspection which is recorded in **Appendix 1** and will record any electrical issues or faults on Site.

3.12 Reactions between wastes

3.12.1 All staff are trained to be vigilant and identify any incompatible non-conforming waste such as drums (except empty for oils), batteries, containing materials that are corrosive, oxidising, and potential hazardous materials. These wastes will be segregated and quarantined to prevent reactions between incompatible or unstable wastes. Arrangements will be made to have these wastes taken to an appropriate disposal facility within 48 hours.

3.12.2 In addition, combustible wastes will not be stored in excess of storage times detailed in **Table 3**.

3.13 Incompatible Wastes/Deposited hot loads

3.13.1 To prevent fires from incoming waste loads, strict waste acceptance procedures are in place as per the Site's Environmental Management System. No hot ash/smouldering loads will be accepted, staff and Site operatives are trained via the Site's induction and regular training to be vigilant of all incoming wastes with particular attention for any signs or indications or a hot/burning load. The training also includes identification of common wastes which may be found following deposit and which are not permitted at Site. Routine roles of Site staff/operatives include checking in and inspection of loads to ensure all waste accepted into Site is recorded and in line with the Site's permit. Any non-confirming waste or unrecognisable wastes are reported immediately to management who will make arrangements for segregation, quarantine, and removal.

3.13.2 Fire risk is also minimised by practising good housekeeping techniques and daily site checks as per the 'Daily Site Inspection Form' (**Appendix 1**) to ensure that the Site is kept in a generally tidy manner.

3.13.3 Any rejected wastes are deposited in a free skip/container for non-conforming wastes. NRW will be advised of any rejected wastes to Site and detailed recorded in the Site diary. Arrangement will be made to have the rejected waste taken to a suitable disposal facility within 48 hours of receipt.

3.13.4 In the event of a deposited hot load, that hot load will be segregated to the Site's 'Quarantine Area' as shown in the Site Layout Plan (drawing ref: 6326-CAU-XX-XX-DR-V-1801).

3.13.5 To further prevent the risk of fire only authorised personnel are permitted within the waste handling areas (the lower level of the split-level layout). Visitors and users of the Site are made aware of the correct safety and fire prevention procedures to follow whilst visiting the Site.

3.14 Build-up of loose combustible waste, dust and fluff

3.14.1 Fire risk is minimised by practising good housekeeping techniques and daily litter picking to prevent the build-up of combustible waste, dust, and fluffs on Site. The Site is inspected daily by staff and management for the build-up of combustible waste which are recorded against the Daily Site Inspection Form (Appendix 1).

3.14.2 As part of the Site's management system, Site inspections, maintenance and procedures for the control of dusts are in place to reduce any build ups and minimise the potential fire risk. Plant exhausts and surfaces are inspected daily for any build-up and undergo a 'preventative maintenance checklist' as detailed in **Appendix 1**.

3.15 Tramp Metal

3.15.1 The risk of tramp metal moving into machinery to cause localised hotspots is considered low.

3.16 Batteries within waste deposits

3.16.1 As per the Site's management system, all wastes will undergo strict pre-acceptance and waste acceptance checks to ensure that no incompatible wastes are accepted on Site. All staff are trained to identify any non-conforming wastes such as batteries and any indicating signs (e.g. smoke/smouldering) of a battery break-down within the waste.

3.16.2 Any batteries found within waste deposits will be removed immediately and segregated within the quarantine area on Site. If necessary, any dampening or cooling of waste actions will be carried out immediately. The segregated waste will be recorded in the site diary and removed off-site within 48 hours to a suitable disposal facility.

3.17 Batteries in ELV's

3.17.1 Not applicable, ELV's will not be accepted.

3.18 Cylinders Stored at the site

3.18.1 Any gas bottles received to Site will be stored upright in a lockable gas storage cage and no more than 20 bottles will be stored on site at any one time.

3.19 Leaks and Spillage of oils and fuels

3.19.1 Spillages and leakages of oils and fuels can result from the breakdown of mobile plant and equipment or faulty/leaking fuel and oil stores. To prevent the likelihood of spillages/leaks occurring from plant breakdown, all plant and equipment on site undergo a 'Preventative Maintenance Checklist' (**Appendix 1**) and regular servicing as per manufacturers recommendations.

3.19.2 Any spillages of fuel/oil will be cleared immediately by depositing sand or absorbents on the affected area. The sand or absorbents will be placed in a skip to be taken to a permitted

disposal site. The Site operates a 'Spillage Clearance Procedure' as part of their Site's environmental management system. In addition, the Site undergoes a 'Daily Site Inspection' check which will identify any potential leaks and spillages which can under remedial actions.

3.19.3 To minimise the risk of a leak and/or spillage from fuel and oil tanks, stores are bunded to 110% capacity and all pipework and associated infrastructure is enclosed within that bund. A lock is fitted to the tank valve to prevent unauthorised access and operation. All valves and gauges have been constructed to withstand damaged caused by frost.

4.0 STORAGE TIMES AND PREVENTION OF SELF COMBUSTION

4.1 Prevention of Self-Combustion

4.1.1 To help prevent the self-combustion of wastes, storage time of all materials on site will be minimised and in accordance with **Table 3**.

4.1.2 In addition, all wastes will undergo a 'first-in first-out' principle which is monitored and recorded using record forms which will ensure that the risk for long excessive storage durations are prevented. Waste Acceptance Procedures detailed in the Site's Environmental Management System will ensure that the risk of incompatible waste streams that that have the potential for self-combustion are minimised. Staff are thoroughly trained in the vigilance of waste acceptance, incompatible, and hot loads and wastes which require segregation and immediate notification to Site management.

4.1.3 It is considered that the potential for any incoming hot loads is low risk due to the origin of the wastes accepted. However, should any non-conforming items e.g. incompatible or hot loads be identified on deposit, staff are trained to follow the waste acceptance procedures within the Environmental Management System. Wastes will be segregated to the quarantine area by use of mobile plant, a hot load can be dowsed using any of the water supplies provided or using an appropriate fire extinguisher.

4.1.4 Hot loads identified prior to tipping will be placed within the quarantine area immediately. Any hot loads that have been deposited will either be removed to a quarantine area where safe to do so, or any combustible wastes adjacent to the deposited hot load will be removed to prevent spread.

4.1.5 Any wastes that are showing signs of self-combustion, e.g. smoke & smouldering, water will be added to cool the stockpile using available water sources or a suitable extinguisher appropriate to the waste.

4.2 Waste Storage

4.2.1 Potentially combustible materials are stored appropriately, in designated containers, to reduce the risk of fires starting and spreading. Further detail on waste storage arrangements are outlined in *Section 2.6* and in **Table 3**, their locations shown on the FPMP Site Layout (drawing ref. 6326-CAU-XX-XX-DR-V-1801).

4.2.2 All storage container integrity will be inspected daily using the 'Daily Site Inspection form' (**Appendix 1**), any compromise in storage containment will be reported immediately to Site management and remedial actions undertaken.

4.2.3 Combustible waste is separated and segregated into various fractions and stored in separate containers.

4.3 Temperature Monitoring

4.3.1 The guidance states, 'if you are storing materials at risk of self-combustion for longer than 3 months you must demonstrate what additional measure you will take, including monitoring the piles to reduce this risk'.

4.3.2 Temperature monitoring is not required at Atlantic Household Waste Recycling Centre as there are no combustible wastes which are stored in excess of 3 months. However, the Site still adopts controls measures to ensure that the risk of self-combustion is reduced.

4.3.3 To minimise the risk of self-combustion at the Site, all combustible materials detailed in **Table 3** will not exceed storage durations of more than 3 months. However, the Site has employed additional measures to prevent the unlikely outbreak of a fire incident due to self-combustion:

- 'First-in, First-out' principle (monitoring & recorded using Appendix 3 and Appendix 4)
- Daily Site Inspection checks of site infrastructure and waste storage
- Staff trained to identify appropriate waste store areas to ensure that waste storage operations comply with the requirements of the permit, and;
- Staff trained to recognise waste storage limits so that they do not exceed storage times detailed in **Table 3**.

4.3.4 To minimise the self-combustion of non-waste materials e.g. fuels, oils and lubricants, these materials are stored away from direct sunlight in containers which provides shading and protection.

5.0 MANAGING WASTE MATERIAL STACKS AND SEPARATION DISTANCES

5.1.1 Where separation distances have been specified to prevent fire spread, all combustible waste piles are separated by at least 6 metres from;

- Other combustible waste piles
- The Site perimeter, any facilities, and other combustible / flammable materials (for example gas cylinders, aerosols, flammable chemicals, fuel tanks)

5.1.2 The larger open containers are located within the lower area and will be located to ensure that non-combustible wastes such as scrap metal and inert wastes are sited to provide fire breaks and minimise spread.

5.1.3 A quarantine area will be used where necessary. Mobile plant is available to allow wastes to be removed from containers quickly and effectively to isolate it during an incident.

5.1.4 The quarantine area will be used in the event of a fire to either hold burning wastes or to hold unburnt wastes to isolate and prevent them catching fire. The wastes will be transported with use of the site mobile plant. The quarantine area is large enough to hold up to at least 50% of the volume of the largest combustible waste pile and maintain a separation distance of 6 metres.

5.2 Baled Stack heights and widths

5.2.1 The site does not carry out any baling, therefore consideration of baled stack heights and widths is not required.

5.3 Storage of ELV's

5.3.1 The site does not accept any End of Life Vehicles, therefore their storage on site is not applicable to the Fire Prevention and Mitigation Plan. No batteries or cylinders from ELV's are accepted or stored at Site.

5.4 Baled Waste Storage

5.4.1 The site does not carry out any baling, or storage of any baled wastes, therefore baled storage conditions do not apply.

5.5 Waste Stored within a building

5.5.1 No wastes on site are stored within a building. All wastes will be separated to designated containers.

5.6 Monitoring and Turning of Stacks

5.6.1 Due to the waste activities on site, combustible wastes will not be stored typically longer than 1-30 days as detailed in **Table 3**.

5.7 Fire Detection

5.7.1 Fire detection is not considered relevant to the site due to the nature of the waste storage arrangements. All waste materials are securely contained in purpose-built containers located entirely outdoors.

5.7.2 This configuration substantially mitigates the risk of fire propagation or undetected ignition, as there are no enclosed structures in which heat or smoke could accumulate without prompt detection.

5.7.3 As part of the IMS (Integrated Management System) Atlantic HWRC has in place daily Site checks completed visually by Site staff. They are trained to identify any potential fires, i.e. smoke/steam, investigate further and if necessary, implement the Site Emergency Strategy.

5.8 Out-of-hours

5.8.1 Out-of-hours incidents at the Site will be responded to by designated site personnel. In the event of an emergency or issue outside of normal operating hours, the primary contact is Adam Hicks, who can be reached on 07516 426545. If Adam is unavailable, the secondary contact is Darren Hemming, available on 07747 638830. These individuals are responsible for coordinating and managing any necessary response actions to ensure site safety and compliance.

5.9 Fire Suppression

5.9.1 The Site has Fire Extinguishers located a various areas of the Site which are checked annually by a competent qualified persons and site staff are trained annually on the use of this equipment.

5.9.2 In the event of a large/major fire which could not be successfully dowsed by a fire extinguisher, the Fire and Rescue Services will be called to attend site and tackle the fire.

5.9.3 The Site is designed and operated to allow for active firefighting. Appropriate resources are available to fight a fire including mobile plant to move waste, trained operators, and a sufficient water supply.

5.9.4 Containers in the lower level are predominantly 76m^3 capacity and accessible to the emergency services from both upper and lower areas. On the top level wastes will generally be stored within smaller mainly enclosed containers which will be separated apart to help prevent fire spreading and be easily accessible.

5.9.5 In the event of a fire in one of the containers mobile plant can be used to isolate the affected materials and/or containers provided it is safe to do so, by dragging or lifting the container into the quarantine area as shown on drawing ref. 6326-CAU-XX-XX-DR-V-1801.

5.10 Water Supply Information.

5.10.1 Firefighting techniques to be employed on-site will include a combination of strategies as appropriate to the situation. These may involve the application of water to cool unburned materials and other potential hazards, the use of mobile plant equipment to separate unburned material from the fire, and the removal of burning material from the main body of the fire in order to extinguish it effectively. These actions will be taken under supervision from the fire and rescue service.

5.10.2 This Fire Prevention and Mitigation Plan should be forwarded to the local Fire and Rescue Authority (FRA) for comment.

FRA details: Port Road West / CF62 3AZ / 01433 232000

5.10.3 Safe access for fire and rescue services will be achieved by maintaining routes for fire engines and access points around the site perimeter through site as indicated in the FPMP Site Layout (drawing ref: 6326-CAU-XX-XX-DR-V-1801).

5.10.4 The Site is accessible via access points as indicated in the FPMP Site Layout (drawing ref: 6326-CAU-XX-XX-DR-V-1801). The following procedures will be undertaken to ensure that a fire is controlled and suppressed so it does not spread further, prior to the arrival of the Fire and Rescue Services:

i. Use relevant fire extinguisher to control and supress the fire to prevent it from spreading further and to other wastes;
ii. Isolate fire-affected waste away from other wastes by moving to quarantine area using mobile plant;
iii. Ensure all access routes are made clear and available for the arrival of the Fire and Rescue Services;
iv. Ensure operators of appropriate machinery are standing by in a safe location to help create fire breaks, under the direction of the FRS when they arrive;
v. deploy surface water protection equipment;
vi. The Site Manager/ TCM will identify themselves to the fire and rescue services as soon as they arrive on Site and will provide them with a copy of the site plan and update them with relevant information i.e. actions already carried out, waste type on fire.

5.10.5 The shortest anticipated emergency response time to the Site is 15 minutes, based on current service coverage and proximity.

5.10.6 On arrival of the nominated persons, they will carry out the ‘out-of-hours’ fire-fighting strategy as detailed in Section 14.2.

5.10.7 If the Fire and Rescue Services arrive prior to the nominated emergency contact, the Site will be accessed by either using a ladder to climb over site security or cutting the padlocks/locks on the site gates.

6.0 FIRE-FIGHTING STRATEGY

6.1.1 On detection of smoke or fire, staff would first raise the alarm and evacuate the area. Depending on the severity of the issue a decision would be made as to whether site staff could deal with the incident or whether the Emergency Services would need to be called.

6.1.2 Employees shall only attempt to fight a fire if it is safe to do so. If an employee cannot tackle a fire safely and effectively evacuation of all personnel is the primary priority.

6.1.3 In the event of a fire on Site, as part of the Site's management system, the following actions will be taken:

i. Don't Panic
ii. Raise the alarm
iii. Notify the Site Manager
iv. Initiate evacuation of staff and visitors on site to a fire assembly point and instruct delegated person(s) to conduct a roll-call to ensure all site users are accounted for.
v. Do not try to tackle the fire yourself unless you are trained in doing so – assess the intensity and scale of the fire and make judgement as to whether the fire can be managed without the requirement for assistances from the emergency services.
vi. If viable and safe, instruct necessary site staff to comment extinguishment.
vii. If not viable or safe, call the Fire and Rescue Services immediately dialling '999'
viii. Inform neighbouring premises likely to be affected from **Table 4.**
ix. Senior Management of the company should be informed at this point of the details, nature and extent of the fire and whether assistance from staff from other depots is required.
x. Ensure all access routes are clear
xi. If safe to do so, the TCM or a senior member of staff will inspect the location of the fire, to identify immediate risks to surrounding premises and the Fire and Rescue Services.
xii. Ensure operators of appropriate machinery are standing by in a safe location to help create fire breaks, under the direction of the FRS when they arrive.
xiii. Ensure relevant site staff are standing by in a safe location to deploy surface water protection equipment under the direction of the Fire and Rescue Services when they arrive
xiv. The Site Manager/ TCM will identify themselves to the fire and rescue services as soon as they arrive on site and will provide them with a copy of the site plan and update them with relevant information that will assist them in dealing with a fire more effectively
xv. Implement pollution control measures only when safe to do so.
xvi. Inform all neighbouring premises who are likely to be affected
xvii. Do not return to site until you have been given the 'All Clear' by the emergency services and the Site Manager.

6.1.4 Fire-fighting equipment are provided and available to site operatives who have undergone the appropriate training in tackling small fires. Fire extinguishers are located around the Site as detailed in the FPMP Site Layout ref. 6326-CAU-XX-XX-DR-V-1801.

6.2 Fire and Rescue Response Actions

6.2.1 In the event of an emergency call out, the nearest fire station to the site is Buckley Fire Service Station, which is located 2 miles by road from Site, full address:

Barry Emergency Services Station
Port Road West
Barry
CF62 3AZ

6.2.2 On arrival of the Fire and Rescue Services, site management will ensure that there is clear and safe access to the Site and around the waste containers by clearing any obstructions e.g. moving wastes or mobile plant. Site management will appraise the Fire and Rescue Services with details including the location and composition of the waste involve. In addition, site management will assist the Fire and Rescue Services in any way safely and practicable to ensure that the fire is extinguished.

6.3 Out-of Hours

i. The out-of-hours contact/ Site Manager will immediately attend site on receipt of call to assist with the pending arrival of the Fire and Rescue Services;
ii. Ensure the site gates are open for access for the arrival of the Fire and Rescue Services;
iii. Ensure all routes to the fire source are clear and available;
iv. Deploy necessary surface water protection and control measures;
v. Assess the intensity and scale of the fire and carry out any manual suppress by use of fire extinguishers to control and stop the fire from spreading;
vi. Contact any additional staff required to ensure that surface water protection measures are deployed;
vii. On arrival of the Fire and Rescue Services, the out-of-hours contact/Site Manager will identify themselves to the fire and rescue services as soon as they arrive on site and will provide them with a copy of the site plan and update them with relevant information that will assist them in dealing with a fire more effectively;

6.3.1 Site staff are trained to extinguish small fires with appropriate handheld fire extinguishers. The facilities on Site store equipment such as fire extinguishers, protective clothing and pollution control equipment. These will also be stored at various points throughout the Site, as shown on the FPMP Site Layout ref. 6326-CAU-XX-XX-DR-V-1801.

6.3.2 Safe access for fire and rescue services will be achieved by maintaining routes for fire engines and access points around the site perimeter.

6.3.3 On site there will be a 'Fire and Emergency Information box' (location shown in Site Layout Plan, drawing ref: 6326-CAU-XX-XX-DR-V-1801) that contains a copy of the Fire Prevention Plan and Fire Emergency Plan. These documents can be accessed by the emergency services. Site staff are trained in all of these documents as part of their induction programme. Copies of these specific documents are held within the welfare cabin.

6.3.4 In the event of a fire, trained operators will be permitted to drive/operate the plant below to in the construction of fire breaks, isolated affected materials or move unaffected waste materials away from the source of fire:

- 1 x 360 Excavator

6.3.5 Operators are also, only provided it is safe to do so and where possible, drag containers to the quarantine area.

7.0 WATER SUPPLIES

7.1.1 With regards to water supply requirements, the NRW Guidance on Fire Prevention and Mitigation Plan states that you must have sufficient water supplies available to the Site for fire-fighting to take place and to manage a worst-case scenario incident. A sufficient water supply considered is a supply of at least 2,000 litres per minute for a minimum of 3 hours for a 300m^3 pile of combustible material.

7.1.2 As the waste on site is stored in containers rather than in large piles, based on the operators experience of similar fires on HWRC's it is considered that most container fire would normally be extinguished using onsite equipment or at worst, well within 1 hour by the fire brigade using water from the tender.

7.1.3 It unlikely that in most operating conditions that the fire would spread beyond a single container and that the affected container or adjacent containers could not be isolated.

7.1.4 The maximum total volume of combustible waste contained within the largest container will be 40 cuyd, or 30.58 m^3. Based on the estimation above, the volume of water that would be required to manage the maximum total volume of materials contained within the largest container, the equivalent of 30.58 m^3, would be 36,696 litres (greater than the capacity of the container).

7.1.5 In the event of a fire, a water hose would be deployed to facilitate the suppression of a fire. Water would be supplied via a mains water supply. In addition, a fire hydrant is located approximately 4 m east-northeast of the Site boundary, behind the reuse shop. This hydrant would be used by the FRS to suppress the fire. This hydrant is not managed or maintained by FCC Waste Services (and as a result the flow rate cannot be determined by FCC Waste Services).

7.1.6 In addition, Fire tenders are each equipped with a 1,800-litre water tank and are capable of delivering water at a flow rate of 1,136 litres per minute. It

8.0 MANAGING FIRE WATER RUN-OFF

8.1.1 In the unlikely event of a fire to occur on site, the Site has a number of measures in place to contain firewaters on Site.

8.1.2 Site surface drainage is shown on drawing ref: 6326-CAU-XX-XX-DR-V-1801. The Site is surfaced with impermeable concrete which will ensure that no firewaters are allowed to soak through site surfacing into the underlying ground. The site is also kerbed which will prevent firewater escaping beyond the impermeable pavement.

8.1.3 All areas of hardstanding, impermeable pavement and containers are visually inspected at least monthly to ensure continuing integrity and fitness for purpose. The inspection and any necessary maintenance subsequently required will be recorded.

8.1.4 Secondary and tertiary containment measures for firewater run-off are in place to mitigate potential environmental impacts in the event of a fire. These measures include the use of shut-off valves and pollution control equipment such as firewater booms and drain mats. In the event of firewater discharge, containment will be achieved on-site through the deployment of firewater booms. Once contained, the accumulated firewater will be safely removed from the site by a licensed waste contractor, ensuring compliance with environmental protection standards.

8.1.5 Under no circumstances will firewaters be allowed to be release into the surrounding waterways, drains or any other system which might lead to contamination of water or land. In the event of a fire, the Site Manager will instruct a member of staff to immediately close the shut-off the valve from the interceptor to ensure that firewaters are not discharged off Site. Drain blocking and surface water control equipment are available on Site, this includes sandbags, drain bungs, mats and concrete lintels which will be used to fabricate temporary bunds.

8.1.6 Fire water management will depend on the location of a fire on site. In the event that a fire takes place in one of the containers, and water is used, fire water would remain in the containers and slowly drain on site to the drainage system.

8.1.7 Containers will not be overfilled with water as to cause an overflow of water. However, should that occur, all containers are stored on impermeable surfacing which drains towards the interceptor. Therefore, any waters will be captured by the Site's drainage and contained by shut off valves..

8.1.8 Further containment measures if required will include building a 2-tier sandbag wall high around the interceptor to prevent water escaping from Site. Any site drainage will be covered using drainage mats to ensure there is no escape of firewater from Site. All pollution prevention infrastructure (e.g. drainage systems, impermeable surfacing and bunding) will be maintained to ensure that it remains fit for purpose at all times.

9.0 QUARANTINE AREA

9.1.1 A quarantine area has been identified on the FPMP Site Layout, drawing ref: 6326-CAU-XX-XX-DR-V-1801 as a designated area to place fire affected wastes to ensure that it is fully extinguished. The quarantine area is kept available at all times for use if a hot load is imported, or if a hot-spot is identified in a stockpile and turning or digging out or considered to be suitable measures. Mobile plant can be used to segregate wastes to the quarantine area. As an alternative approach, unburnt wastes can be moved into the quarantine area for isolation and to help prevent other wastes catching fire.

9.1.2 The quarantine area is located on impermeable pavement and is large enough to hold at least 50% of the largest waste pile and is located a minimum distance of 6m from any other materials, mobile plant and site infrastructure.

9.1.3 In the event of a fire in one of the containers the affected material will be isolated provided it is safe to do so, and if possible, drag the waste to the quarantine area using the excavator with grab.

10.0 INCIDENT MANAGEMENT

10.1.1 On Site there will be a 'Fire and Emergency Information' box fitted on the side of the skip office that contains a copy of the Fire Prevention and Mitigation Plan and also a list of key out-of-hours contacts. These documents can be accessed by the emergency services. Site staff are trained in all of these documents as part of their induction programme.

10.1.2 Upon the detection of any fire during operating hours a member of staff will be positioned at the entrance of the site to direct emergency vehicles and to redirect incoming vehicles away from the Site.

10.1.3 A long burning/smouldering fire is likely to have a greater impact on people, neighbours, infrastructure and the environment. Particularly the sensitive receptors identified in **Table 1.**

10.1.4 Different waste streams within the Site may give rise to different environmental issues i.e. a fire within the residual waste container(s) may give rise to black toxic smoke due to the waste composition (mixed plastics, rubber, food waste, etc). A fire within the wood container may result in a more intensive heat plume but less smoke. A fire within the green waste container may give off less heat but thicker white smoke.

10.1.5 Other considerations would need to be taken into consideration are wind direction, smoke, weather conditions, etc. In particular the potential impact of smoke on the Atlantic Industrial Estate and the surrounding area, be monitored and the emergency services notified as necessary.

10.1.6 The action plan will include contact numbers for all nearby properties or receptors likely to be affected. Nearby residents likely to be affected will be notified by the site supervisor or other nominated person as shown in **Table 4** below:

Table 4: Adjacent (<100m) premises to be notified during a fire incident on site

Key Receptor	Direction	Distance from facility boundary (metres)	Contact number
Lydon SGB Scaffolding	NE	18m	08443 358860
Accsys Wood Supplier	ESE	75m	01446 507077
Techniflow UK	ENE	93m	01446 701122

10.1.7 Other considerations would need to be taken into consideration are wind direction, smoke, weather conditions, etc. In particular the potential impact of smoke on the adjacent roads, nearby residential properties and industrial buildings.

10.2 Post-fire site recovery

10.2.1 After a fire has been extinguished, the following actions will be carried out:

i. Any fires will be reported via phone call to NRW within 24 hours, and be confirmed in writing within 3working days detailing all steps taken by site staff, management and/or emergency services to deal with the fire;

ii. Removal of burnt material using appropriate and lawful disposal;
iii. Investigation into the cause of the fire, to ensure it does not reoccur;
iv. A review of the accident plant, Fire Prevention and Mitigation Plan and Environmental Management System;
v. Review of staff training requirements;
vi. All fire extinguishers and firewater containment products used during the fire incident to be serviced and replaced after use.

10.2.2 Any fire damaged waste will be characterised to enable determination of a suitable facility for recovery or disposal of the affected waste, which may include the following:

- Waste characterisation by visual sorting
- Compositional analysis of the waste material
- Waste acceptance criteria testing for landfill

10.2.3 Containers and any remaining waste affected by fire will be removed from Site and the affected area will be cleaned any debris placed into containers for appropriate disposal off Site.

10.2.4 Any notifiable incident will be reported to the health and safety authority. The Site supervisor will carry out an inspection of the Site to ensure it is in a satisfactory condition before the site is allowed to reopen.

10.3 Surface Water clean-up

10.3.1 All surface water containment measures will remain in place until the clean-up and removal of all firewater has been carried out, which include; emptying of holding tanks, gullies and interceptors, followed up by site brushing of the affected areas. Any site surface water will be cleared using the following methods:

i. Use of Site bowser, all standing fire-water will be sucked up and discharged to foul sewer or stored prior to removal off site.
ii. First 2-3 bowser loads of contained firewater in the interceptor will be removed and discharged to foul sewer.
iii. Use of road sweeper, sweep the yard until all ash and clinker has been removed.
iv. Isolate all debris and tanks to undergo full clean and decontamination
v. Wash down of the yard area using clean water, or allow heavy rain shower to wash the yard down, where all runoff should remain discharged to the site interceptor
vi. Site Management to review post-fire actions and clean up

10.3.2 Any contaminated fire waters collected after an incident will be stored on the Site surface until disposal to an approved site can be agreed with Natural Resources Wales. This surface water can be pumped from the interceptor tank chamber by tanker for disposal off Site if considered unsuitable for discharge to surface water.

10.3.3 The site supervisor will carry out an inspection of the site to ensure it is in a satisfactory condition before the site is allowed to reopen.

11.0 STAFF TRAINING AND COMPETENCE

11.1.1 All employees will be provided with the appropriate fire safety training as detailed in 'During and After a fire' as part of their site induction (which is refreshed annually).

11.1.2 Induction training for new staff or contractors will include instructions on fire safety and what to do if a fire is discovered at the site. Ongoing training will also be provided to ensure site staff are informed of any changes to any of the site management documentation subject to regular review, details of training will be recorded.

11.1.3 Staff will receive regularly updated training to ensure that they remain familiar with fire precautions and actions to be taken in the event of a fire. Training will be given in accordance with procedures within the company management system including and recorded in the Emergency Drill Record (Appendix 12).

11.1.4 Regular fire drills will be undertaken by site management to ensure procedures are in place and followed by employees in the unlikely event of a fire on Site. Site Management will carry unannounced fire drills which is document and recorded in the 'Emergency Drill Record Form' in Appendix 11 as part of the Site's management system.

12.0 REVIEWING AND MONITORING THE FIRE PREVENTION & MITIGATION PLAN

12.1.1 The FPMP will be kept and treated as a live working document which will be kept up to date with Site operations and compliance and will be reviewed regularly to reflect any changes in site operations.

12.1.2 Following any significant fire event at the Site an investigation of the incident will be undertaken, and all procedures and plans will be reviewed.

12.1.3 Taking into consideration findings of the investigation, these procedures and plans may be amended to improve fire preventative measures and fire response measures in the future.

The FPMP will be reviewed resulting from any of the following circumstances:

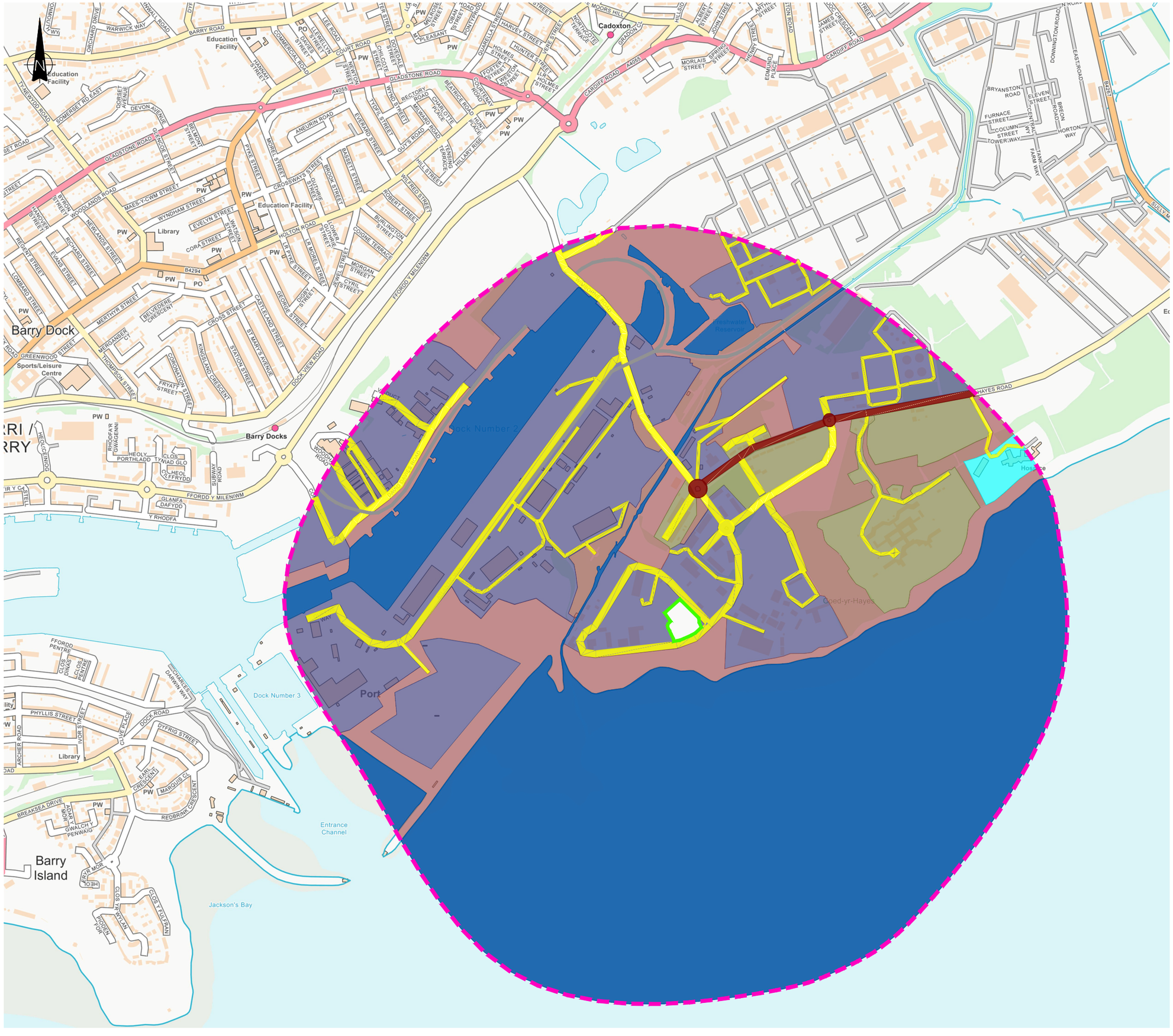
- **Fire Incident**: management measures will be reviewed and improved as required to address any issues or concerns
- **Addition of combustible waste stream accepted to Site**
- **Increase in Waste Volumes**
- **Development of Site Infrastructure** e.g. buildings
- **Installation of new equipment or plant**: e.g. baler, loading shovel, trommel
- **Change in permit**: site boundary, permit variation, site operations

13.0 REFERENCES

1) NRW guidance 'Guidance No.16 Fire Prevention & Mitigation Plan' (last updated August 2017), found at: https://naturalresources.wales/media/684379/guidance-note-16-fire-prevention-mitigation-plan-english.pdf

DRAWINGS

6326-CAU-XX-XX-DR-V-1800	Sensitive Receptor Plan
6326-CAU-XX-XX-DR-V-1801	FPMP Site Layout



LEGEND

- PERMIT BOUNDARY
- 1000m OFFSET
- SURFACE WATER
- WOODLAND / SCRUBLAND
- COMMERCIAL / INDUSTRIAL
- EDUCATIONAL FACILITY
- RESIDENTIAL
- MEDICAL FACILITY
- MAJOR ROAD
- MINOR ROAD
- RAIL

REV	MODIFICATIONS	BY	RE	AP	DATE
P01	ISSUED FOR INFORMATION	EJD	ER	ER	13.09.24

PURPOSE OF ISSUE: FOR INFORMATION

STATUS: S2

CLIENT: FCC Environment

PROJECT: ATLANTIC HWRC

TITLE: SENSITIVE RECEPTOR PLAN

DESIGNED BY	DRAWN BY	REVIEWED BY	AUTHORISED BY
EJD	EJD	ER	ER

DATE	SCALE @ A3	JOB REF:	REVISION
13.09.2024	1:10000	6326	P01

DRAWING NUMBER: 6326-CAU-XX-XX-DR-V-1800

Caulmert engineering environmental planning

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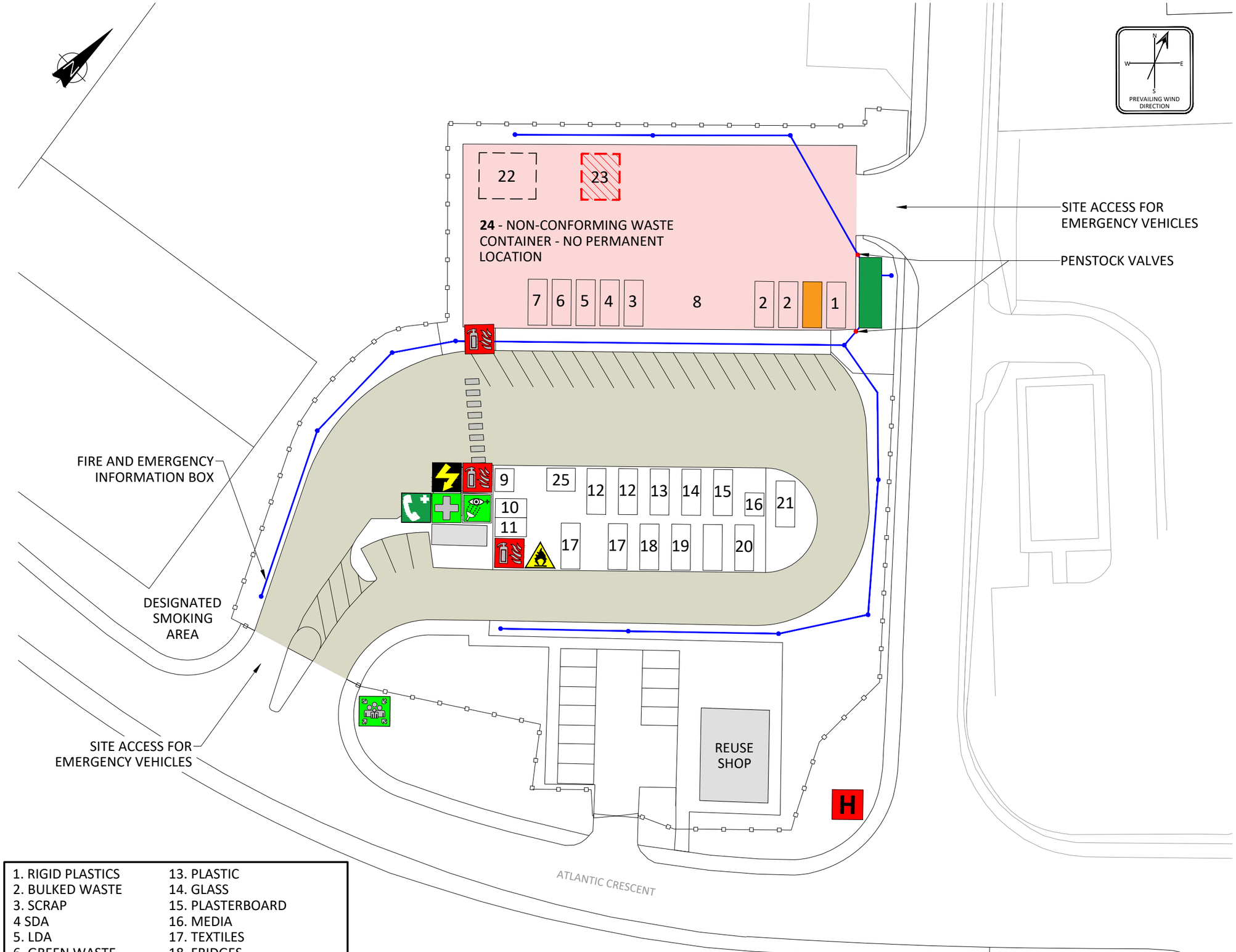

LEGEND

- FIRE ASSEMBLY POINT
- FIRE EXTINGUISHER
- DEFIB TELEPHONE
- FIRST AID BOX
- EYE WASH
- ELECTRICAL BOX
- OIL STORAGE
- FIRE HYDRANT
- BLACK BIN SORTING AREA
- INTERCEPTOR
- AREA OF CONCRETE
- AREA OF TARMAC
- SURFACE DRAINAGE

P03	PLAN LAYOUT UPDATED	EJD	ER	AS	29.05.25
P02	DRAINAGE DETAILS ADDED	EJD	ER	AS	22.04.25
P01	ISSUED FOR INFORMATION	EJD	AS	AS	09.01.25
REV	MODIFICATIONS	BY	RE	AP	DATE

PURPOSE OF ISSUE: FOR INFORMATION

STATUS: S2

CLIENT: FCC Environment

PROJECT: BARRY HWRC

TITLE: FPMP SITE LAYOUT PLAN

DESIGNED BY	DRAWN BY	REVIEWED BY	AUTHORISED BY
EJD	EJD	AS	AS

DATE	SCALE @ A3	JOB REF:	REVISION
09.01.2025	1:500	6326	P03

DRAWING NUMBER: 6326-CAU-XX-XX-DR-V-1801

1. RIGID PLASTICS
2. BULKED WASTE
3. SCRAP
4 SDA
5. LDA
6. GREEN WASTE
7. CARDBOARD
8. WOOD
9. FLUORESCENT TUBES
10. ENGINE OIL
11. COOKING OIL
12. INERT WASTE
13. PLASTIC
14. GLASS
15. PLASTERBOARD
16. MEDIA
17. TEXTILES
18. FRIDGES
19. CNTS
20. UPVC
21. TYRES
22. MOBILE PLANT PARKING
23. QUARANTINE AREA
24. SEE DRAWING
25. GAS STORAGE CAGE

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APPENDIX 1

SITE INSPECTION FORMS

FCC Environment	FCC Environment Integrated Management System	
Document Title:	**Environmental Permit Compliance Installation Check Form**	Mandatory Guidance Project Specific

Site: Barry		
Inspector:		**Date:**
Signature:	**Position:**	**Permit No: UP3395VQ**

This Inspection sheet forms part of the installation log

[Insert Frequency e.g.Daily/Weekly/Monthly/Annual] Installation check and details	Initial	Comments	Action	Close out
All Near Miss Report updated **DAILY**				
Oil Tank levels recorded & Spill kits available **DAILY**		Cooking oil Level – Engine Oil Level –		
Paint containers/ full containers **DAILY**		Full containers –		
Condition of Hardstanding **DAILY**				
Litter Pickers available **DAILY**				
Off Site Odours monitored **DAILY**				
Visual Inspection of Pests **DAILY**				
Waste Reurns submitted to NRW **QUARTERLY**				
Fences & Gates in good repair **DAILY**				
Adequate staffing levels **DAILY**				
Container avialability suitable **DAILY**				
Gantry Checks **DAILY**				
Intercepter Checks **MONTHLY**				
JSP FACEGAURD (Clean & Serviceable) **MONTHLY**				
Duty of care & Hazardous Consignment notes **MONTHLY**				

Fridge Storage & Hazardous Consignment notes for commercial Fridges **MONTHLY**				
Entrance sign checks (in good order and compliant with NRW) **QUARTERLY**				
Comments:				

Competent Person Signture:	**Date:**

Daily Site Log

SITE:	Barry	Weather:		Time:	Date:	

DAILY	√/X	Comments	DAILY	√/X	Comments:
Fencing & Gates in Good Condition			Height Barrier in good condition		
Site Traffic Plan Adhered To			Traffic/Pedestrian routes Clear		
Containers in Good Condition			Asbestos Containers Closed & Locked	N/A	
Agreed Segregation of Recyclates			Drains,Gullies & Bunds Empty & Clear From Debris		
Grass and Trees to Agreed Standard			Lighting in Good Working Order		
Spill Kits Fully Stocked & Positioned			Fire Extinguishers Positioned as to Plan		
Maintainable Area's Clean & Tidy			Fire Extinguishers in Good Condition		
Odour/Dust/Noise Contained			Brooms & Spades Available & in Good Condition		
Pest Control in Operation			Stairs, Ramps & Gantries in Good Condition		
First Aid Kits Stocked & Available			Chemical Inventory (in chemical bank)		
Gas/Electrical Appliances Checked			Gas bottle Inventory - flammable (no. of canisters)		
Pallet Truck/Trolleys/Sack Barrow			Gas bottle Inventory - oxidising (no. of canisters)		
Mobile Plant Checks Completed			Accident/Incident Forms Available		
Salt / Grit Available			Near Miss / Stop and Think Pads Available		
Vistors Book Available			Recycling Rate Displayed on Site		
Security System in Working Order			Office & Wefare Facilities Clean		
Staffing Level Adequate					
MONTHLY			**MONTHLY**		
Risk Assessments Reviewed	√		Safe Ststems of Work Reviewed	√	
COSHH Assessments Reviewed	√		Emergency Procedures reviewed	√	
Toolbox Talk Completed	√				

KPI INFORMATION				Y/N	
Is the appearance of the HWRC acceptable, with litter pick ups taking place and the boundries being inspected					
Has any waste escaped from the site.		If YES	Type of material		
			Action taken		
Have any containers reached their capacity		If YES	What Type		
			How Many		
			When Emptied		
Is the site diary up to date and available					
Are all permanent signs in good condition, clean and as per the site licence agreement					
Have there been any Accidents / Incidents that have occurred on site					
Are all staff wearing the correct PPE, Uniform and ID badges					
Have any hand written weighbridge tickets been issued					

Weighbridge Unavailability	Mins	Time	Site Unavailability	Mins	Time

Mobile Plant Defects Reported:	Accident / Incident
	Report No;

Other Issues: Commplaints	Non Conforming Waste

Suspected Trade Log

Date	Registration	Time	Name of member of staff	Description of waste, vehicle & other comments	Refused Y/N

Monthly Electric Meter Reading:	Monthly Water Meter Reading
Checks carried out by:	Reveiwed by Manager:
Signature	Signature

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