Fire Prevention Plan Much Fawley Site.

Plan version: **01**

Date of plan: **25.04.2021**

Site details

Site name: Much Fawley Farm

Site address: Much Fawley Farm, Much Fawley, Herefordshire HR1 4SP

Operator name: **Nigel & Sally Green**

Who this plan is for

This plan is for all operators who are involved in the operation of the Anaerobic Digestion Site at Much Fawley Site.

Nigel Green

Sally Green

John Watkins – Assistant Site Manager

Types of combustible materials

Combustible waste

Under this heading, replace this text with information listing all the types of combustible waste that you will have on site at any time. List the associated storage arrangement in the Managing waste piles section of your plan.

Material	Storage Area
Poultry Manure	Storage Bunker
Engine Oil	IBC Adjacent Emergency CHP Engine
Hydraulic Oil	Workshop (Away from permitted site)
Biogas	Gas Holder

Where the plan is kept and how staff know how to use it

Site Office. Next to Emergency CHP and also in Environmental Management Plan.

Testing the plan and staff training

All staff to receive training on this plan and annual review of the plan to be carried out.

Activities at the site

R13 Storage of Wastes. Purpose grown crops or received wastes.

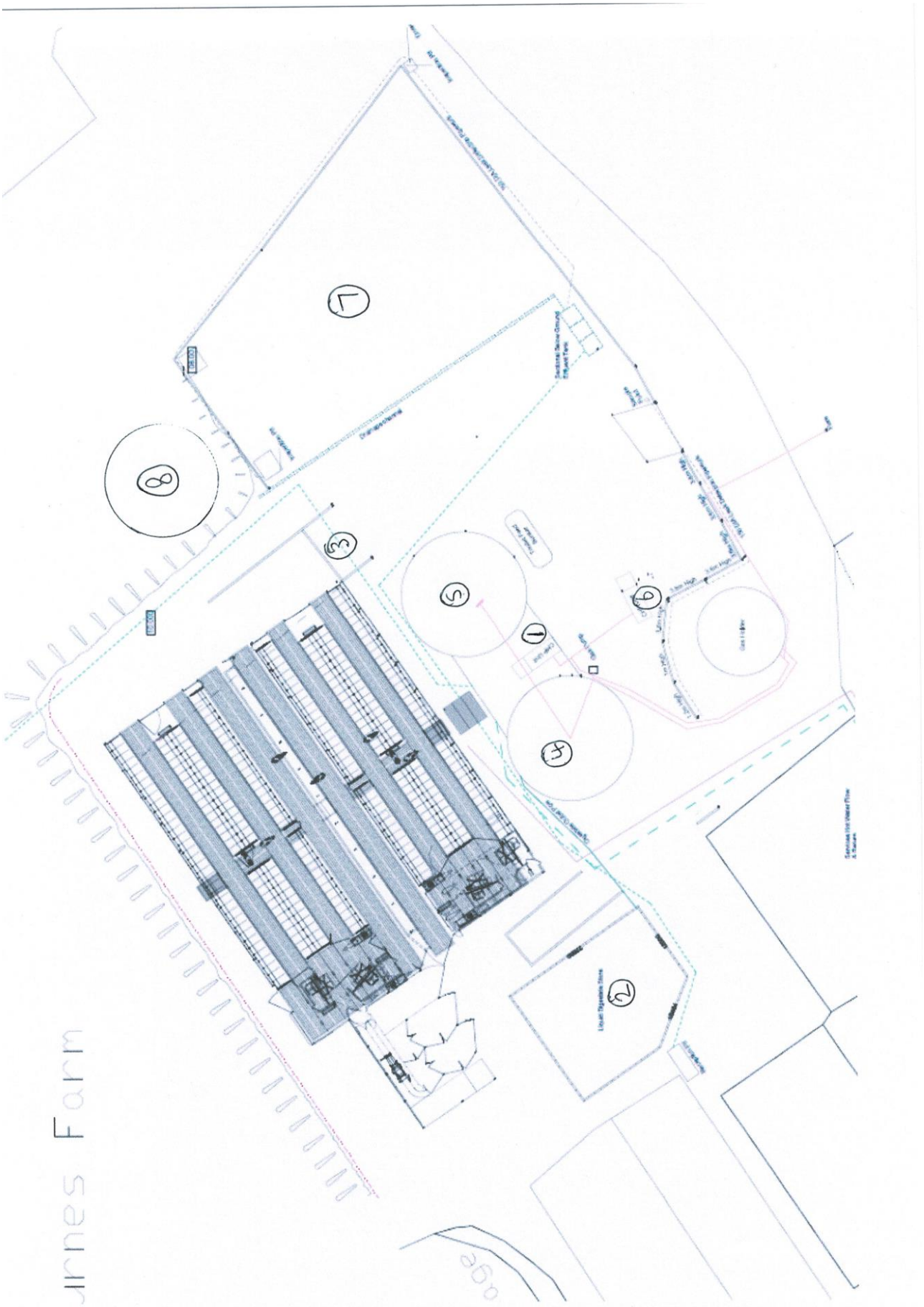
R3 Recycling / Reclamation of organic substances which are not used as solvents.

R1 Use principally as a fuel or other means to generate energy. (Biogas).

D10 Incineration on land (biogas).

Site plan

EPR/BB3633DS Site Plan showing key items specific to this plan.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Plan of sensitive receptors near the site

Location of Sensitive Receptors

Property	Direction	Distance	Reference
Fawley Court Farm Office	NW	1400m	A
Fawley Cross Cottage	NNW	700M	B
Fawley Chapel	SSW	165M	C
Greystones	NW	1400M	D
Leybourne House	W	120M	E
Much Fawley Farm	SSE	180M	F
Seabournes	SSE	180M	G
The Lodge	SSW	75M	H
Tremelza	SSW	75M	I
Wyche Cottage	NNE	740M	J
Wye Cottage	SSW	290M	K
Strangford Cottage	SW	140M	L

The neighbouring property receptors, which are mostly residential, are in an arc between North West and South South East from the site.


E
M
H
I
L
C
Fawley Chapel
River Wye
K


A
D
B
Fawley Chapel
L
River Wye
K

Manage causes of fire

Main risk is biogas ignition on the site. DSEAR Risk Assessment Document manages these risk.

Management of the site is done in accordance with DSEAR risk assessment and site management. In brief:

No activities done in high risk gas zones that would cause ignition of biogas.

No combustible materials stored in high risk gas zones.

Poultry Muck clamp outside high risk gas zone.

Engine and Hydraulic Oils stored behind emergency CHP outside high risk gas zones.

Slam shut valves in all gas lines.

All inflammables kept away from Gas zones.

CHP’s are in self contained fire resistant units / containers

No industrial heaters on site.

JCB Loader and Forklift not kept in high risk gas zones.

Arson

No CCTV but due to rural location and at the end of a no through road this is not considered to be a risk in this area- therefore not required. We do have temporary motion cameras on site.

Plant and equipment

JCB Loader and Forklift used on site.

They are not kept in high risk gas zones.

Electrical faults including damaged or exposed electrical cables

Electrics certification

Whole site electrical safety checks are being done May 2021.

Electrical equipment maintenance arrangements

Annual site electrical safety checks to be done.

Discarded smoking materials

No smoking is allowed on site.

Industrial heaters

There are no industrial heaters on site.

Hot exhausts and engine parts

Exhaust manifolds are located in engine units containers. In addition, they are lagged up to the exhaust heat exchangers. After the heat exchangers the exhaust components are at a low temperature anyway so do not pose a risk.

Fire watch procedures
Permitted site is on permit holders farm and so existing farm activities are all carried out in close vicinity to the site. Out of working hours the permit holder lives adjoining the permitted site so can monitor as well.

Ignition sources

CHP engines constitute the main ignition sources. They are contained in containers which minimises any ignition risk.

Leaks and spillages of oils and fuels

Spill kits are to be found in the farm workshop. JCB Loader and the forklift are to be removed from the site if oil leaks are evident.

Waste acceptance and deposited hot loads

No hot loads accepted. Waste is supplied on an as used basis so limited opportunity for loads to get combusted.

Prevent fire spreading

Preventing Fire Spreading

Keep CHP container doors closed at all times.

Keep vegetation clear around Gas Bag.

Keep site tidy and clear from waste, packaging and clear up any leaks of oil etc.

Slam shut valves in gas pipes.

Storing waste in bays

Poultry muck is stored in a bunker away from high risk gas zones and to the right hand side of the diet feeder. Poultry muck is stored in small quantities (used over a 6 week period)

Chicken muck is stored in small quantities (used over a 6 week period) so it does not get hot and combust and away from gas zones. Also limited quantities stored on site.

Silage is a slow heating process and starts as a smoulder over several hours and as the site is operated on daily any signs heat can be dealt with before becoming high risk.

Any fire could be dowsed by water from the dirty water system within the permitted area.

Detecting fires

Detection systems in use

Both engines have fire detection systems which trigger the emergency stops if a fire occurs. Other than this site staff are trained to check for fires and are aware of the procedures if this occurs.

Suppressing Fires

Fires can be suppressed using fire extinguishers located in the process building inside the main access door and a pressure washer also located in the process building. Additional water sources are found in the dairy building adjacent to the site. CHP engine panels have fire extinguishing systems fitted.

Firefighting techniques

Active firefighting

Use extinguishers from inside process building door. Use pressure washer from inside process building doorway. If extinguishing fire in poultry manure bunker use digestate from digestate store.

Water supplies

Pressure washer to be used in low level fire found in process building. Use digestate from either storage tank in the event of larger scale fire.

Available water supply

Water supply from bore hole and mains. Process water digestate from adjoining storage lagoons.

Managing fire water

Any fire water will be contained within the bunded permitted site containment area. This will ensure there is no impact on the environment. Post the control of any water the fire water can be disposed of or reused as appropriate at the time.

During and after an incident

Dealing with issues during a fire

Emergency stop buttons for all site operations are on site or available for each part of the operation separately. There are 2 access points to the main building. In the event of a fire Nigel and Sally Green emergency stops can be managed remotely as well.

Notifying residents and businesses

All contacts for sensitive receptors are held on file and will be notified if they are impacted. Prevailing wind will decide this.