# ENVIRONMENTAL MANAGEMENT SYSTEM

Lower Park Farm, Parkside, Rossett, Wrexham, LL12 0BN

Lower Park Farm Co-Operative

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|---|---|---|---|---|---|
| VERSION: | 1.3 | DATE: | 13/02/2020 | | |
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Oaktree Environmental Ltd

Waste, Planning & Environmental Consultants

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# Document History and Control:

| *Version* | *Issue date* | *Author* | *Checked* | *Summary* | *Details of EMS Revisions* |
|---|---|---|---|---|---|
| 1.0 | 10/11/2017 | RT | _ | Draft | First draft |
| 1.1 | 10/03/2018 | RT | _ | Draft | Final review before revision/issue |
| 1.2 | 12/03/2019 | RT | MM | Active | Issued document |
| 1.3 | 13/02/2020 | RT | MM | Active | EMS review |

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# List of Appendices:

# Site Information & Key Contacts List

| | | | |
|---|---|---|---|
| **Site Address:** | Lower Park Farm, Parkside, Rossett, Wrexham, LL12 0BN | | |
| **Site Operator:** | Lower Park Farm Co-Operative | **National Grid Ref:** | SJ 38453 55085 |

| CONTACT | Description | Office Hours | Out of Hours |
|---|---|---|---|
| Richard Tomlinson | Site Operations Manager | 5am to 5pm | 07710814554 |
| The County Hospital | Local NHS Hospital Wrexham | | 999 |
| | Accident & Emergency (A&E) | 111 | 999 |
| Rossett Medical Centre | Local Doctor Surgery (GP) | 01244 570317 | 999 |
| | Local Police Non-Emergency | 101 | |
| | Police Emergency | 999 | |
| Natural Resources Wales | Environmental Regulator | 0300 065 3000 | |
| | Local Planning Authority | 01978 292000 | n/a |
| | Environmental Health Dept. | 01978 292040 | |
| Oaktree Environmental Ltd | Specialist Advisor (Waste and Planning Issues) | 01606 558833 | |

# 1 GENERAL CONSIDERATIONS

## 1.1 Site operator/permit holder

1.1.1 At present, a standard rules environmental permit is held by Lower Park Farm Co-Operative for an Anaerobic Digestion (AD) plant at Lower Park Farm, Parkside, Rossett, Wrexham, LL12 0BN. This permit (Ref:) was issued to Lower Park Farm Co-Operative by Natural Resources Wales (NRW). A copy of the Environmental Permit is contained within Appendix VI.

1.1.2 This management system updates all previous management systems.

1.1.3 This Management System has been prepared to meet the requirements of The Environmental Permitting (England and Wales) Regulations 2016 and relevant government guidance[1] to enable compliance with permit conditions.

1.1.4 The contact details for Lower Park Farm Co-Operative are as follows:

| | |
|---|---|
| Lower Park Farm Co-Operative<br>Lower Park Farm<br>Parkside<br>Rossett<br>Wrexham<br>LL12 0BN | Contact Name: Richard Tomlinson<br><br>Position: Site Director<br><br>Contact Number: 07710814554 |

1.1.5 Contact details for Oaktree Environmental are as follows:

| | | |
|---|---|---|
| **Oaktree Environmental Ltd** | **Contact:** | Marco Muia |
| Lime House | **Position:** | Director |
| 2 Road Two | **Tel:** | 01606 558833 |
| Winsford CW7 3QZ | **E-mail:** | marco@oaktree-environmental.co.uk |

[1] https://www.gov.uk/guidance/develop-a-management-system-environmental-permits

## 1.2 EMS Reviews

1.2.1 This EMS is reviewed on an ongoing basis by the site operator. Revisions made to the EMS are recorded in the Document History section at the start of the EMS. The EMS is updated over time to reflect changes to operational procedures. It is also updated in response to NRW site audits/inspections to ensure that the operation complies with the Environmental Permit and procedures are updated in the event of non-conformances. Any breaches communicated in NRW Compliance Assessment Report (CAR) forms will be reviewed and action taken as necessary, including revisions to the EMS.

## 1.3 Document Change Control Procedure

1.3.1 The changes made to this EMS are summarised and documented at the start of this EMS. In order to ensure that all staff are made aware of any revisions to the EMS that may affect their roles and responsibilities on site, the following procedure will be followed:

1. Once a change is made to this EMS, the document is given a new version number and the changes made are summarised in the Document History and Control Section.
2. Once a change to the EMS has been made, the Site Director will ensure that all staff affected by the changes are provided with a copy of the revised EMS.
3. Additional training will be provided to site staff (as applicable) to ensure that they are aware of the changes to the operational procedures in the EMS. This will ensure they can undertake their duties in accordance with the EMS to enable compliance with the permit for the operation.
4. Additional training given to site staff will be documented on the staff training form (form LPF/RF/06 in Appendix II).

## 1.4 Site location, description and planning status

1.4.1 The site is located on Land at Lower Park Farm, Parkside, Rossett, Wrexham, LL12 0BN as shown on Drawing No. LPF/001. The national grid reference floor the site is 338453, 355085. The site is located approximately 3km to the South–East of Rossett.

1.4.2 The site is located on Lower Park Farm which is a working farm, the AD plant comprising an area of 0.6 hectares, located to the South- East of an existing farm building, used to house dairy cattle. To the South of the site lies agricultural land. Immediately to the East lies the slurry lagoon which provides part of the feedstock (Cow slurry) for use in the AD plant. The site is accessed off the B5102 which is to the East of the site.

1.4.3 Full planning permission for the operation was granted on 15 May 2015 (Ref: P/2014/0145) by Wrexham Borough Council for a 249 Kw anaerobic digestion plant (Copy attached as Appendix V).

## 1.5 Permit area/ operations

1.5.1 The permit boundary area is outlined in green on the Drawing in Schedule 1 to the permit. All references to 'the site' in this Management System shall mean this area and the associated infrastructure, plant and equipment.

1.5.2 The Environmental Permit is required for the operation of an Anaerobic Digestion Facility, fuelled by farm derived wastes and grass silage.

1.5.3 The site layout is shown on Drawing No. 170-1020. AD is a biological process, which breaks down organic matter within biodegradable wastes in the absence of oxygen, through the actions of a variety of micro-organisms. The result of these processes is the production of biogas, which consists predominantly of methane ($CH_4$) and carbon dioxide ($CO_2$) and a useable digestate product which has environmental benefits when used in place of fertilisers.

1.5.4 The AD process is fuelled by up to 31,000 tonnes/annum of farm waste and manure consisting of the following feedstocks:

- 2,000 tonnes of poultry manure;
- 2,000 tonnes of grass silage;
- 2,000 tonnes of farmyard manure; and,
- 25,000 tonnes of cow slurry

1.5.5 The manure, slurry and silage are generated by the existing activities within the wider farm. Poultry manure is imported from outside the site. Liquid manures are pumped directly into the AD system from the cow slurry lagoon Other manures are stored within a storage clamps with concrete side walls.

1.5.6 The solid feedstocks are transported by a rubber wheeled telehandler and are mixed with liquid feedstock in a submerged mixing pit. Once mixed into a thick soup, the mixed feedstocks are pumped automatically via enclosed pipework to the primary digester. The primary digester is fitted with a patented Auto De-gritting system, this constantly sweeps the floor of the digester tank, depositing any grit that settles, into a grit sump from where the grit is pumped out of the digester every hour. The Auto De-gritting system enables the operator to load a much wider variety of feedstocks without the worry of the digester filling up with grit. It should be noted that the Auto de-gritting technology negates the need to periodically empty the digester tank and have to work within a gas space.

1.5.7 The AD plant uses a two stage digestion process, with one primary digestion tank and secondary digester. Biogas is collected within double membrane gas holders within domed roofs on the secondary digestion tank. The tanks are fitted with safety vacuum/pressure relief valves to relief and prevent build up of excessive pressure.

1.5.8 Once the feedstocks have travelled through the digestion process, the remaining product (digestate) is separated into solid and liquid fractions. This is undertaken by a separator located above a concrete bunker, the solid fraction collected within the bunker, the liquid fraction pumped to a storage lagoon. Both are used in place of fertilizers for spreading on farm land all within a five-mile radius of the digester site. The AD process breaks down sulphur containing compounds over a several week retention time. This minimises potential for generation of odourous compounds, meaning that the digestate produced is virtually odourless.

1.5.9 The biogas is used to power internal combustion engines for the production of electricity and heat. The site has an electrical output capacity of 0.25MWh. Part of the heat and electricity produced is used to provide power to processes on the farm and AD plant itself with the remainder of electricity exported to the National Grid.

1.5.10 Biogas is stored in a double membrane gas holder above the secondary digester.

1.5.11 The operations include waste recovery operations listed Annex IIA and IIB of The Waste Framework Directive 2000/442/EEC. These are summarised below:

R1: Use principally as a fuel or other means to generate energy.
R3: Recycling or reclamation of organic substances.
R13: Storage of waste pending recovery.

## 1.6 Hours of operation

1.6.1 The AD process on site operates continuously for 24 hours per day, 7 days per week, except for periods of maintenance. The site will be open for the delivery and receipt of wastes/feedstocks and export of products according to the hours specified below.

| | |
|---|---|
| Monday to Friday | 06.00 – 20:00 |
| Saturdays and Sundays | 07.00 – 19.00 |

1.6.2 The only activities on site which will be permitted outside of these hours are maintenance works and general office use.

1.6.3 During times where the site is closed or not in operation, the site will be locked and secured to prevent unauthorised vehicular and/or pedestrian access.

## 1.7 Waste types and quantities

1.7.1 The waste types handled on site will include the following:

- 2,000 tonnes of poultry manure per annum;
- 2,000 tonnes of grass silage per annum;
- 2,000 tonnes of farmyard manure per annum; and,
- 25,000 tonnes of cow slurry per annum.

1.7.2 A detailed breakdown of the waste types permitted under the permit is attached to this management system in Appendix III. No hazardous wastes are permitted to be accepted at the site.

1.7.3 The manure, slurry and silage are generated by the existing activities within the wider farm. Poultry litter is imported from outside the site.

1.7.4 The throughput of the site will be a maximum of 31,000 tonnes per annum.

## 1.8 Staffing and management

1.8.1 The site will open for the deposit of waste/feedstocks or for other essential operations during the hours listed in Section 1.4. The table below details the staff structure of the site when operating at full capacity.

**Table 1: Staffing Levels**

| POSITION | EMPLOYEES | RESPONSIBILITIES |
|---|---|---|
| Site Director (TCM) | 1 | Overseeing all activities which take place at the site, waste handling/loading, AD plant operation/management, staff training |
| Site Manager | 1 | Waste handling/loading and AD plant operation/management |
| Trained relief Site Operatives | 2 | Waste handling/Loading and AD plant operation. |

1.8.2 Richard Tomlinson, who is the TCM for the site, is the Site Director but it also involved in the day to day running and management of the plant. The following summarises the roles and responsibilities of the Site Director:

- Management of all site staff on a day to day basis;
- Remote management of plant via computer or mobile phone;
- Operation of the plant, including feedstock acceptance/receipt, handling, processing and loading;
- Staff training;
- Response to automated alarms (alarm diagnosis and resolution of any issues);
- TCM for the site;
- Management of feedstock supply agreements;
- Management of external contractors undertaking works on site, eg maintenance and servicing contractors;
- Site inspections and monitoring;
- Logging complaints and taking necessary action;
- Site maintenance; and,
- Maintaining records associated with the above, as applicable.

1.8.3 The Site Director has full control of the plant via remote access. The plant can be accessed from the computer system within the site office or from mobile phone, ensuring that the Site Director can oversee and manage the entire operation on a continual basis and can be alerted by alarms on a 24/7 basis. In the event of an alarm, the Site Director will receive an alert, will review the alarm which has been activated and take steps to solve the problem, either via remote management or attendance on site.

1.8.4 The Site Director provides on the job training to all employees involved in the operation of the AD plant. Records of training provided to site staff will be maintained on Form LPFC/RF/6 in Appendix II.

Site Manager

1.8.5 The site manager/operator feeds the plant on a day to day basis and is responsible for carrying out routine maintenance and site checks. The Site Manager reports directly to the Site Director. The following summarises the roles and responsibilities

of the Site Manager:

- Operation of the plant, including feedstock acceptance/receipt, handling, processing and loading;
- Site inspections and monitoring, including daily visual inspection of all plant and machinery used on site, and odour monitoring;
- Routine site maintenance;
- Weekly testing for volatile fatty acids;
- Assistance to Site Director, as required;
- Logging complaints and taking necessary action; and,
- Maintaining records associated with the above, as applicable.

General Operatives

1.8.6 General operatives feed the plant on a day to day basis, on occasions when the site manager is unavailable. The general operatives report directly to the Site Director. The general operatives receive full training from the Site Director before being permitted to undertake activities associated with operation of the AD plant. Records of training provided to site staff will be maintained on Form LPFC/RF.6 in Appendix II.

1.8.7 The Site Director is responsible for admin, ensuring records are maintained within the site office and for handling invoices.

## 1.9 Health and safety

1.9.1 All operations on site will be carried out in accordance with the relevant requirements of the Health and Safety at Work Act 1974. Conditions of site use for employees, visitors and contractors are attached to this Management System as Appendix IV. These conditions will be shown to all site users and must be signed prior to using the site. Anyone refusing to comply with the conditions of use will be asked to leave the site.

1.9.2 Given the nature of the process, certain areas of the site are designated as explosion zones, due to the potential presence of gas. Within these zones, potential sources of ignition are strictly prohibited. Within the designated explosion zones , the only equipment permitted for use (electrical, mechanical or protective systems)

are items of plant and equipment which meet the requirements of the Equipment and Protective Systems intended for Use in Potentially Explosive Atmospheres Regulations 1996. Signs should be erected on site to notify of explosion zones.

1.9.3 The use of portable electronic equipment including mobiles phones and cameras is strictly prohibited within the explosion zones.

## 1.10 Fit and proper persons

1.10.1 The facility and its operations will be under the direct control of a nominated Technically Competent Manager (TCM) by the permit holder, Lower Park Farm Co-Operative . The TCM for the site is Richard Tomlinson.

1.10.2 The TCM will provide the required attendance time at the facility as required by guidance periodically issued by Natural Resources Wales.

1.10.3 The company, through the TCM, will ensure that a nominated deputy is sufficiently trained and familiar with the Environmental Permit and this EMS document in addition to all relevant company procedures who, in the absence of the TCM, will act the competent person. If either the TCM or deputy is changed, Natural Resources Wales will be informed of the change and the relevant details of the replacement as soon as possible.

# 2 SITE ENGINEERING AND INFRASTRUCTURE

## 2.1 Access and parking

2.1.1 The site is located as shown on Drawing Nos LPF-001 and 170-1020 and access to the site is gained off the B5102 which is to the East of the site. The site benefits from a generously-sized staff and visitor car park which is located in the main farm yard. The site access is shown on Drawing No. 170-1020.

## 2.2 Notice board and signs

2.2.1 A notice board will be erected at the site entrance, which displays the following information:

- The site name and address.
- The name of the permit holder and operator.
- The Environmental Permit number and accompanying statement stating that the site is permitted by Natural Resources Wales.
- Natural Resources Wales contact details / Emergency No. 0300 065 3000
- General Enquires No. 07710 814 554
- Operator's "out of hours" emergency contact details (telephone number).
- Operating hours.

2.2.2 Additional signs will be displayed around the site for operational / health & safety purposes. All staff and visitors will be required to comply with the requirements of all signs whilst on site.

## 2.3 Site security

2.3.1 The site has an electric entrance gate and security cameras. The gate is locked out of hours to prevent unauthorised vehicular and/or pedestrian access.

2.3.2 Additional security measures in place includes the following:

- Supervision of people entering site during normal working hours;
- Visitors are required to sign in and receive a site induction procedure before being permitted to enter the site;
- Signs are in place warning unauthorised people not to enter the site; and,

- The Combined Heat and Power (CHP) building is locked unless authorised personnel require access.

## 2.4 Site office

2.4.1 The site office is located off the front yard of the farm, adjacent to the visitors parking and farm dwelling.

2.4.2 Table 2 below details the relevant site documentation which will be kept in the site office.

| Table 2: Documents to be retained in site office |
|---|
| The Environmental Permit (original & any subsequent variations) |
| This Management System |
| Current site diary (to record all inspections/visitors to the site) |
| Natural Resources Wales inspection (CAR) forms |
| In-house inspection sheets/recording forms |
| Duty of care transfer notes (for 2 years minimum) & |
| Waste delivery tickets |
| Accident book (& 1st aid kit) |

## 2.5 Fuel storage

2.5.1 Any fuel tanks which are stored on site will be surrounded by a bund capable of containing a minimum of 110% of the volume of fuel stored in the tank. All pipework and associated infrastructure will be enclosed within the bund. A lock will be fitted to the tank valve to prevent unauthorised operation. All valves and gauges on the bund will be constructed to prevent damage caused by frost. The tank will be clearly marked showing the product within and also its capacity.

## 2.6 Waste transfer & storage areas

2.6.1 The location of the operational areas are shown on Drawing No. 170-1020, 171-1030, 171-1031 and 171-1032.

2.6.2 Clearly labelled enclosed skip/containers will be provided for the deposit of rejected waste which cannot be removed from the site immediately. The location of these skips may be varied as operating conditions permit (i.e. to permit the loading of rejected wastes but clear labelling and management control will ensure its use as

specified).

## 2.7 Drainage

2.7.1 Clean surface water runoff from buildings is channelled to runoff drains and soakaways. The remainder of clean surface water is drained via soakway within existing grassed or stoned areas on site.

2.7.2 Effluent/rainwater arising from feedstock storage areas (clamps) is collected at the end of the clamps where it is channelled to a specified foul water drain, which is fed back into the slurry reception pit, or the digestate lagoon.

2.7.3 The following drainage mitigation measures are/will be implemented on-site:

a) Lagoon in constructed or impermeable clay.
b) Lagoon walls constructed to meet NRW standards; and,
c) Concrete bund wall constructed around tanks to contain tank contents in the event of spillage.

## 2.8 Vehicles, plant and equipment

2.8.1 Waste will be handled using the plant listed in Table 3 below. Additional plant will be hired to cover any very busy periods. Only trained operators will be permitted to drive/operate the plant listed below. Any changes to the list will be notified to Natural Resources Wales prior to implementation. The minimum requirements when the site is operational are shown in bold italic print. Table 3 outlines principle mobile and stationary plant and equipment used on site.

**Table 3: Plant & Equipment**

| ITEM | NUMBER | FUNCTION |
|---|---|---|
| Mixing pit | 1 | Reception/loading of solid and liquid feedstocks to digester |
| Tractor/Trailer | 3 | Transfer of materials off site |
| JCB Telehandler | 2 | Transfer of materials |
| Primary digester | 1 | Anaerobic digestion of wastes |
| Secondary digester | 1 | Anaerobic digestion of wastes |
| Gas storage domes (double membraned roofs) | 1 | Collection and storage of biogas arising from digesters |
| Separator | 1 | Separating solid and liquid components of digestate |
| Slurry lagoon | 1 | Storage of liquid digestate |
| CHP unit | 1 | Combustion of biogas to produce heat and power |
| Pumps | multiple | Circulation of materials through process |
| Storage clamps | 1 | Storage of Poultry litter |
| Flare | 2 | Burning off biogas during CHP maintenance/malfunction |
| Transformer | 1 | Transferring electrical energy from alternator to cable |

# 3 SITE OPERATIONS

## 3.1 Preliminary procedures

3.1.1 Guidance will be given by the site management to all employees, sub-contractors, other waste carriers and customers regarding the waste types and operations which are acceptable at the site i.e. a copy of Appendix III of this document.

3.1.2 Upon arrival of waste on site, the site operator will inspect the load for conformity with relevant regulations and safety procedures.

a) If the load is satisfactory the driver will sign the relevant paperwork (Duty of Care transfer note/delivery ticket).
b) If the waste does not meet the description stated on the controlled waste transfer note the customer is advised to check the note and give a more detailed description of the waste.
c) If the more detailed description of the waste reveals that the waste is not permitted at the plant then the customer is advised that the waste must be taken to another site which is appropriately permitted to accept the waste(s).
d) If further instructions are needed the driver may also report back to the site manager/director.

## 3.2 Checking in & inspection of loads

3.2.1 All incoming vehicles are required to report to the site office. The details of the load will be recorded and the Duty of Care transfer note and company documentation will be further checked by the operator to ensure that the load is acceptable at the site. Any deviation from these procedures or problems with any loads will be reported to the Site Director.

3.2.2 Once a load has been accepted by the operator, a visual inspection of the contents will be carried out to ensure that the waste types comply with the Environmental Permit. If rejected waste is discovered before deposit, the load will remain on the delivery vehicle and will be returned to the producer if possible or disposed of at an approved facility. In cases where the presence of unauthorised waste is likely to lead to a breach of permit conditions, Natural Resources Wales will be contacted immediately to agree a course of action.

## 3.3 Waste deposit, handling and storage

3.3.1 If the load is acceptable the driver will be instructed to deposit it within the designated storage area. If the load is unacceptable after deposit it will be loaded back onto the delivery vehicle, or stored until it can be taken to an approved facility to be disposed of. Otherwise, Natural Resources Wales will be contacted and the load will be taken to a suitably permitted or exempt site.

3.3.2 Rejected wastes discovered at any stage in the process will be deposited in the skip provided for non-conforming wastes. Where necessary, particularly where the rejected waste discovered would be classed as a difficult, hazardous or clinical waste, Natural Resources Wales will then be contacted to agree a course of action. The contents of the rejected waste skips will be recorded in the site diary.

3.3.3 For outward consignments of wastes produced on site, the driver of the collection vehicle will be instructed to report to the site office (see Section 2.4.1) or the Site Manager. All relevant documentation will be completed and the vehicle will be passed to pick up the load and take it to the designated recycler/disposal site. The product or waste will be loaded using the loading shovel.

## 3.4 Record keeping

3.4.1 The details in this section will be recorded on a combination of the record keeping forms listed in Appendix II, transfer notes (including season tickets), invoices and the site diary. Records will be kept in paper/electronic format.

3.4.2 The following details will be recorded for every load deposited at the site:

i) The date and time of delivery.
ii) The name and address of the waste producer.
iii) The detailed and accurate description of the waste including type, quantity (in tonnes and/or cubic metres) and EWC codes.
iv) How the waste is contained e.g. loose, container type.
v) The carrier's name and address.
vi) Driver’s name, signature and vehicle registration No.
vii) Signature or initials of person(s) producing/ accepting/ inspecting/ carrying the waste.

viii) Additional handling details/notes made by the driver after inspection of the load.

ix) SIC code of the premises which produced the waste (where relevant).

x) Waste hierarchy declaration.

3.4.3 The following details will be recorded for all deposits of non-conforming waste at the site and will be forwarded to NRW, where required (i.e. record form LPFC/RF/2):

i) Date and time of deposit.

ii) A detailed, accurate description of the waste including type and EWC code.

iii) The quantity of waste (in tonnes or cubic metres).

iv) How the waste is contained e.g. loose, container type.

v) Name, address and telephone No. of waste producer.

vi) The carrier's name, registration number and vehicle registration.

vii) Reason for the rejection of waste and action taken.

3.4.4 The following details will be recorded for every load of waste leaving the site:

i) The date and time of removal.

ii) Detailed and accurate description of the waste including type, quantity of waste (in tonnes or cubic metres) and EWC codes.

iii) How the waste is contained e.g. loose, container type.

iv) The destination farm, waste management site or exempt facility.

v) The name and registration No. of the carrier or employee removing the waste (if applicable) and vehicle registration No.

vi) Signature or initials of persons i.e. transferor, transferee and carrier of the waste.

vii) SIC code of the premises transferring the waste.

viii) Waste hierarchy declaration.

3.4.5

3.4.6 A summary of waste types and quantities deposited at and removed from the site and origin and destination details are then forwarded to Natural Resources Wales using the standard Generic Operator Returns electronic spreadsheet(s), with submission due within one month of the end of each quarter as below:

a) Quarter 1: January to March (due on or before 30th April)
b) Quarter 2: April to June (due on or before 31st July)
c) Quarter 3: July - September (due on or before 30th October)
d) Quarter 4: October - December (due on or before 31st January of the following year)

3.4.7 Outcomes of inspections of waste types, hardstanding areas, transfer/treatment areas, storage areas, drainage channels etc., will be recorded onsite inspection form LPF/RF/4 and detailed comments will be entered into the site diary (including action taken or proposed).

3.4.8 Visitors to the site will sign the visitor's book upon arrival and exit stating the purpose of their visit and whom they represent (LPFC/RF/5).

3.4.9 Complaints will be recorded on form LPFC/RF/7 (see section 4).

## 3.5 Weighing and categorising loads

3.5.1 The site does not have a weighbridge. Poultry litter is weighed/calculated at source prior delivery to the AD plant. Details of weight of load will be contained on the waste input records.

3.5.2 The weights of loads will also be estimated/verified using standard Natural Resources Wales and WRAP agreed volume-to-weight conversion factors. For food waste and manure, the conversion factor is 0.8 tonnes to 1$m^3$ of waste.

## 3.6 Preventative maintenance

3.6.1 All items of plant and vehicles are subject to preventative maintenance checks to ensure their safe operation and to prevent any potential situations which may give rise to adverse impacts on the environment.

3.6.2 Much of the plant and equipment on site will be subject to periodic manufacturer maintenance to ensure proper working order in the form of service contracts. Site management will undertake or delegate additional preventative maintenance checks on a more frequent basis to ensure, where possible, the machinery is mechanically sound. These checks will be carried out using a preventative maintenance checklist and any results / defects will be recorded in the site diary and actioned immediately and, in any event, prior to operational use.

3.6.3 The following specific routine and preventative maintenance is undertaken at the site:

- Inspection of plant and equipment by the site management on a daily basis;
- Servicing of CHP engine in accordance with manufacturer specification by 2G under a maintenance contract. The CHP is inspected weekly, including oil checks and serviced as required;
- CHP engine spark plugs changed as required by manufacturer guidelines;
- Detailed inspection of feedstock clamps on an annual basis;

## 3.7 Contingency Measures for Feedstock Diversion

3.7.1 In the event of abnormal operation/plant breakdown, procedures are in place for diversion of feedstocks/wastes as follows:

- **Silage**– Informal agreements in place to divert grass silage to other farms in the local area;
- **Manures** – can be exported and stored on land prior to spreading in accordance with the Code of Good Agricultural Practice, or sent for disposal at an authorised facility;
- **Poultry litter**– will be disposed/recovered at an alternative, appropriately authorised facility

# 4 ENVIRONMENTAL CONTROL, MONITORING AND REPORTING

## 4.1 Breakdowns and spillages

4.1.1 In the event of breakdown of the loading plant, an alternative machine will be brought on site until it is repaired. If an alternative machine cannot be used then waste will be stored securely until the plant is repaired. The repair will be carried out at the most convenient location with absorbents used to clear oil or fuel spillages.

4.1.2 All site surfaces will be inspected daily when the site is in operation. Debris will be swept as required and placed in a skip for disposal to a suitably permitted site.

4.1.3 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 suitably permitted site for disposal. All spillages of waste and windblown litter will be cleared by the end of the working day in which they occur. Spillage clearance procedures are detailed in Section 5.3. Sand and absorbents will be stored on site.

## 4.2 Site inspections and maintenance

4.2.1 The inspection frequencies for maintenance/housekeeping are listed on record form LPFC/RF/4 in Appendix II which is used to enter specific details of any maintenance undertaken as a result of any problems identified during the site inspection

4.2.2 The inspection forms will be completed by a person who is familiar with the requirements of the management system and permit for the site. All details of defects, problems and repairs carried out will be recorded on the form on the day that each event occurs. Detailed comments may also be recorded in the site diary. All repairs will be carried out within 5 working days unless agreed otherwise with Natural Resources Wales.

4.2.3 All repairs to site security including gates and fencing will be made within 5 working days of the discovery of the damage and the site will be made secure until the repair has been carried out.

4.2.4 Any major defects found during the daily site inspection which are likely to lead to a breach of permit conditions will be repaired by the end of the working day in which they are found, where possible. If a repair is not possible by the end of the working day and a potential breach of permit conditions may occur, Natural Resources Wales will be contacted to agree a suitable timescale for repair.

4.2.5 All defects and problems likely to give rise to pollution will be recorded on the form LPFC/RF/4 with repairs/solutions being carried out immediately.

4.2.6 Essential spares for plant maintenance are kept on site at all times. The following provides a list of essential spares kept on site, for example:

- Spark plugs for CHP engines;
- Oil and gas filters for CHP engine.
- Carbon pellets for the gas carbon filter.
- Spare diaphragm and valves for Energy loading pump.
- Oil and grease for general plant maintenance.

## 4.3 Plant and Equipment Checks and Maintenance

4.3.1 The following specific checks are undertaken on plant and equipment. The results are recorded within the site diary on inspection form LPFC/RF/4. The checks are visual inspections to identify any obvious signs of damage or defect and the condition of the plant and equipment. The daily checks are undertaken by the Site Manager. This covers the following broad areas:

- Storage clamp;
- Primary digester tank 1;
- Secondary digester tank 2;
- Transformer unit;
- Mixing pit;
- Energy loading pump;
- Seepex unloading/de-gritting pump;
- Storth slurry pump;
- Seepex digestate pump;
- Borger RC50 separator;

- 2G CHP unit;
- Energy pod gas boilers;
- Site tracks/access roads; and,
- Digestate lagoon

4.3.2 Plant and machinery inspections and maintenance are undertaken in accordance with the recommended schedules advised by the equipment suppliers which are set out in the Fre-Energy Manual stored in the site office. Inspection procedures form part of the detailed operational manual for the site and have been integrated into this EMS. The manual provides photographic diagrams detailing the items required to be checked for each item of plant and machinery and the level of maintenance required, along with required frequency.

4.3.3 The clamp is visually inspected for any obvious defects on a daily basis.

4.3.4 In addition to the daily visual inspection of the clamp contractors are engaged to inspect the storage clamp once a year to improve and maintain any parts of the clamp which show signs of weakness. In addition, Enviroseal visit the site whenever a weakness/split etc is identified in the mixing pit or digester floor membranes. The clamps are routinely washed down once per year in order that the visual inspection of the base can be undertaken thoroughly. No vehicles are permitted to operate above 5mph within the clamps. This restricts pressure on the tarmac top surface

4.3.5 In addition to the regular checks of the digestate tanks, the tanks have leak membrane inspection chambers fitted.

## 4.4 Control of mud and debris

4.4.1 Vehicles will be visually inspected before exit to check that loads are safe and that no mud is carried out on the wheels or body of the vehicle. Visual inspections of the site roads are carried out daily (see LPFC/RF/4), however, staff will report any problems with mud or debris on the site roads immediately to the site manager.

4.4.2 The length of surfaced haul road which each delivery/collection vehicle must track to egress the site should be adequate to ensure that any residual materials on the wheels or chassis of the vehicles should be shed upon exit. All site roads will be kept free from mud/debris to ensure maximum efficacy.

4.4.3 The deposit of material on the access road or public highway will be treated as an emergency and will be cleared immediately by the operator using either a brush and shovel or vacuum tanker/road sweeper if necessary. Silt will not be washed into roadside drains or gullies.

## 4.5 Control and monitoring of dust

4.5.1 The nature of the feedstocks used in the AD process, the digestate produced and the enclosed nature of the AD process ensures that potential for dust emission is very low. However, a series of dust mitigation measures will be implemented on site to ensure dust emissions are controlled as far as is practically possible. The measures include:

a) sheeting/containment of vehicles delivering waste to the site (if necessary);
b) sheeting of vehicles transporting potentially dusty loads off site;
c) cleaning of any spillages using wet cleaning methods;
d) Storage of solid wastes/feedstocks will be limited to the height of the storage clamps; and,
e) drop heights **ALWAYS** minimised to prevent dust emissions.

4.5.2 A permanent water supply is available on site in all climatic conditions to ensure that the dust suppression systems can function effectively. Any external water pipes will be lagged to prevent frost damage during winter months.

4.5.3 Despite the low risk of dust, visual monitoring will be carried out around the site boundary and results recorded on the inspection form for the site (i.e. record form LPFC/RF/4). This will include twice daily inspections by the site manager.

4.5.4 In the event that complaint is received, or significant dust emission detected beyond the site boundary, immediate action will be taken as follows:

i) Identifying and stopping the operation responsible, if possible.
ii) Damping down and/or covering any area which may be giving rise to dust emission.
iii) Record actions taken in the site diary (on record form LPFC/RF/7).

## 4.6 Odour control

4.6.1 Feedstocks will be delivered to site in covered tractors/trailers or HGV to reduce risk of odour emissions during transportation. Non-liquid feedstocks will be stored within designated clamps. Should odour issues arise from solid feedstock storage areas, these will be sheeted. Through careful site design, transfer distance between clamps and feed hoppers is minimal. Care will be taken to avoid unnecessary mechanical agitation of feedstocks in feed hoppers whilst material is being loaded. Liquid feedstocks will be delivered direct to the process from enclosed tankers minimising potential for odour.

4.6.2 Once in the process, feedstocks are fully contained/enclosed, thus preventing potential for odour. Tanks and pipework must be kept airtight to prevent ingress of air to the system, this also serving to ensure potential odours are contained.

4.6.3 The AD process is such that the digestate produced has low odour potential. However, solid digestate is not stored for extended periods of time before being exported to the site operator's land for spreading. The liquid digestate storage lagoon is covered to prevent odour issues, the digestate pumped via enclosed pipework directly to fields for spreading.

4.6.4 Regular olfactory assessments will be carried out around the site boundary and results recorded on the inspection form for the site (i.e. record form LPFC/RF/4). This will include twice daily inspections by the site manager or supervisor.

4.6.5 The complaints procedure in record form LPFC/RF/7 will be rigorously enforced should a third-party complaint be received from a public or private source.

4.6.6 In the event that complaint is received, or significant odour detected beyond the site boundary, immediate action will be taken as follows:

a) Identifying and stopping the operation responsible, if possible.
b) Damping down and/or covering any area which maybe giving rise to odour emission.
c) Record actions taken in the site diary (on record form LPFC/RF/7).

## 4.7 Litter control

4.7.1 Given the nature of wastes accepted at the site (i.e. no light wastes including paper/cardboard), no significant litter issues are anticipated.

4.7.2 Daily inspections of the site boundary will be carried out for the presence of windblown litter and operatives will be instructed to collect the litter and place it in a skip for disposal/recovery before the end of the working day. In any event, all light waste will be placed in skips before the end of the working day.

4.7.3 Regular checks of the areas immediately beyond the site boundary will be carried out by site operatives.

4.7.4 The greatest risk of litter would be during windy conditions. The site will be operated to a lesser degree during these conditions giving due regard to the potential effects of windblown litter.

## 4.8 Control of pests, birds and other scavengers

4.8.1 The site will be inspected daily for the presence of vermin and the results of the inspection noted in the site diary or site inspection form. If any occurrences are noted, an appropriate pest control firm will be called to site within 48 hours to eradicate the problem and the actions taken noted in the site diary.

## 4.9 Control and monitoring of noise & vibration

4.9.1 The site operations will be carried out using the Best Practicable Means at all times.

4.9.2 The nearest noise-sensitive receptor is >200 metres to the south. The separation distance in part will provide some degree of noise mitigation.

4.9.3 A site-specific Noise Management Plan, prepared as part of this EMS, is shown in Table 4 below, which will ensure the noise levels at the site are managed appropriately by identifying: the likely sources of noise arising from the development; and, the actions to be taken / procedures to be followed or planned in order to prevent or minimise noise levels.

| Table 4: Noise Management Plan | |
|---|---|
| POTENTIAL NOISE SOURCE | ACTION TO BE TAKEN TO PREVENT OR MINIMISE NOISE |
| **HGVs/tractors travelling to and from the site for delivery/collection of wastes/products.** | - **All vehicles are required to be driven onto and off site with due consideration for neighbouring premises.**<br>- **HGV movements will be spread out evenly throughout the day.**<br>- **Restriction on operating hours** |
| **Unloading of waste delivery vehicles** | - **Vehicles must be well maintained and operated with silencers. Moving parts to be regularly lubricated. All vehicles must be driven slowly around the site (5mph site speed limit).**<br>- **Engines to be switched off when not in use.**<br>- **Reversing alarms to be preferentially fitted with white noise alarms to minimise impacts on neighbouring sites.** |
| **Operation of loading plant (i.e. loading shovel** | - **Drop heights to be kept to a minimum, particularly when loading**<br>- **Engines to be switched off when not in use.**<br>- **Plant to be well maintained and operated with silencers. Moving parts to be regularly lubricated. All vehicles must be driven slowly around site.** |
| **Small vehicles travelling to and from the site (e.g. staff and visitor's cars, courier van deliveries etc.)** | - **All those working on and visiting the site to be made aware of need for considerate driving and keeping vehicles well maintained.** |
| **CHP Unit** | - **CHP units held within acoustic container. CHP located at the Northern end of the site, furthest from residential properties to South and noise mitigated by intervening buildings.** |

## 4.10 CHP Emissions Monitoring

4.10.1 The air emission limits which apply to the exhaust serving the CHP unit are outlined in Table 5. Monitoring of CHP air emissions is undertaken annually in accordance with Natural Resources Wales guidance note M2 "Monitoring of stack emissions to air". All monitoring results will be recorded in the site diary. Unless otherwise agreed with Natural Resources Wales, the personnel undertaking the stack emissions monitoring will be MCERTS accredited or certified.

4.10.2 Emission monitoring results will be provided to Natural Resources Wales within 28 days of the end of each annual reporting period, unless otherwise agreed with Natural Resources Wales. Reference should be made to the Environmental Permit in Appendix VI for details of the reporting period start date.

| Table 5: CHP Exhaust Emission Limits | |
|---|---|
| **Pollutant** | **Emission Limits ($mg.m^{-3}$) Expressed at Normal Temperature and Pressure and 5% $O_2$** |
| $NO_2$ | 500 |
| CO | 1,400 |
| $SO_2$ | 350 |
| Total VOCs | 1,000 |

## 4.11 Water Emissions Monitoring

4.11.1 No water emission limits apply to the site.

## 4.12 Procedures for Gas Pressure, Composition and Production Monitoring

4.12.1 Gas pressure and composition is monitored by an automated system, which feeds back to the site control and management system to alert the site operator to any issues.

4.12.2 Gas volume levels are recorded on a continual basis. This enables capture of gas in the event of failure, e.g. engine failure, which would prevent the gas from being utilised. This will normally allow for the fault to be repaired before the gas reaches the flare point in the secondary digester. The flare point is set at 70% gas level in the double gas membrane on the secondary digester.

4.12.3 Gas composition is also monitored on a continual basis. Gas is monitored using a RASI 700 Biogas analyser. The analyser monitors carbon dioxide, methane, oxygen and Hydrogen sulphide. If the methane level is too low, the CHP sends an alarm and will not run.

4.12.4 The following table details the upper and lower operational limits (range) for the various gas parameters.

| Table 7: Gas Composition Upper and Lower Limits | |
|---|---|
| **Gas Parameter** | **Upper and Lower Limits (Range)** |
| Methane | 52-60% |
| Carbon Dioxide | 38-48% |
| Hydrogen Sulphide | <1,000ppm |

4.12.5 The analyser is calibrated on an annual basis.

## 4.13 Alarms and Response Procedures

4.13.1 The plant is managed remotely by 2G and a dedicated phone app on the site operator's mobile phones. If an issue is identified all site pumps and valves can be operated remotely. If an issue cannot be corrected remotely the duty operator will contact the Site director who lives on site to physically resolve the issue. The following site information can be monitored remotely.

- Gas level;
- Gas pressure;
- Primary digester level;
- Primary digester temperature;
- Secondary digester level;
- Mixing pit level;
- CHP generation output:
- Gas Flair operation;
- Loading/unloading pump status;
- Separator status;
- Gas mixing status;
- De-gritting drive status;

4.13.2 The Site Director, Site operator and all other Site trained operators can monitor the AD plant using the app, If an issue is identified, appropriate action can be taken remotely. The majority of the time, issues can be rectified remotely. However, the Site Director will attend the site, if an issue cannot be resolved remotely. In the event of an emergency or major incident, the procedures in Section 5 will be followed.

4.13.3 The detailed alarm response procedure includes the following principal actions:

- Identify
- Resolve
- Record

Identify

a) Identify the alarm remotely if possible.
b) Identify if the alarm is time critical (e.g. digester level high).
c) Resolve the alarm remotely if possible.
d) If the alarm is not time critical and cannot be resolved remotely organize a time in normal working hours to rectify. (e.g. solid feeder failure.)
e) If it not possible to remotely rectify the time critical alarm, travel to the site. During night hours notify (another person) that a responder will attend site and provide regular updates (H+S lone worker check).
f) On arrival to the site, sign in and wear/attach all necessary PPE. Do not take mobile phones or other non ATEX compliant equipment into potentially explosive atmospheres.
g) If possible, remotely review SCADA (supervisory control and data acquisition) and critical operational parameters which include gas flow rates etc. Identify / confirm cause for alarm and identify any hidden faults.
h) Visually inspect the site from outside the bund and check for any leakage or unusual operational issues.
i) If safe to do so access the control cabin and carry out further investigation.
j) Identify the fault if not already done so.

Resolve

k) Repair the failure to ensure the continual safe operation of the site. Permit to work will be used.
l) Ensure that the repair has solved the alarm.
m) Test the alarms.
n) If fault cannot be rectified and could result in the spill or leakage of digestate operate the sluice gate and arrange remedial measures without undue delay.
o) If the fault could lead to the uncontrolled release of Biogas do not enter operational areas. Apply a suitable cordon off area and alert the emergency services and NRW. Be aware that DSEAR zones could be significantly increased.
p) If the fault could lead to imminent tank or lagoon failure do not risk health and safety. Alert emergency services and NRW and cordon off area.

q) In an emergency situation consider phased shut down of plant and equipment. Maintain flare operation where possible.

r) If digester tanks/ lagoon require emergency emptying arrange for tankers to be taken to another suitable storage facility or apply to land. The primary environmental consideration is protection of surface waters.

s) If emergency response is required obtain copies of site induction, drainage plans, site layout plan, inventory of fuels / chemicals and provide to responders on arrival. For a significant incident the farm house can be used as an incident control room.

t) Suitable parking is provided for emergency vehicles adjacent to the site office and access to water supply available.

u) Record

v) Ensure that the alarm and repair procedures are recorded.

w) Ensure that the spare parts which have been used are reordered as soon as possible.

x) Identify any possible improvements which could be made to prevent the alarm reoccurring and implement these.

y) Provide updates to NRW using Schedule notification form as soon as practicable and without undue delay.

z) Record details of incident and remediation work undertaken. Where appropriate obtain sign off for remedial works from a suitably qualified person.

aa) Where appropriate discuss with NRW any requirement to monitor ground or surface water discharges.

## 4.14 Complaint procedure

4.14.1 All complaints will be recorded on form LPFC/RF/7 and will include a record of the complaint, particulars of the complainant and details of any action taken to alleviate the problem.

# 5 EMERGENCY PROCEDURES

## 5.1 General

5.1.1 In addition to obligations imposed by RIDDOR 2013 (Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013) the permit holder will notify Natural Resources Wales of any serious injuries to employees of Lower Park Farm Co-Operative , other site users or members of the public arising as a result of operations on site. Minor injuries such as cuts and grazes etc. will be recorded in the accident book on site. Separate procedures will be used for different types of emergency. An emergency at the site is defined by the site management as follows:

*"Any incident which is likely to result in harm to human health or pollution of the environment or serious breach of permit conditions and serious detriment to the amenities of the locality."*

5.1.2 For all emergency situations, the deposit of any further waste will be suspended where necessary to allow action to be taken safely. If necessary, staff and other users of the site will be evacuated to an area which is a safe distance away from the hazards. Staff handling the emergency will be provided with and trained to use the necessary PPE (personal protective equipment) unless the manager instructs them that the hazard is too severe and outside help is needed from the emergency services or specialist waste contractors. A visitor's book will be kept to check who is on site at all times.

## 5.2 Fire

5.2.1 No waste will be burnt on site other than in plant specifically designed for the purpose and in accordance with the relevant statutory instruments. In the event of a fire occurring on site, the operator/site supervisor will exercise his judgement and extinguish the fire with the water hose or suitable fire extinguisher and/or call the fire service for assistance. Any fires will be reported to Natural Resources Wales on the working day that they occur and will be confirmed in writing by fax or letter within 3 working days. All staff will be evacuated from the site if necessary.

5.2.2 Smoking is not permitted on site.

5.2.3 All firefighting residues will be disposed of to a permitted waste management facility.

5.2.4 For quick reference, the following actions will be taken when fire is detected or suspected (Site operatives):

A. DON'T PANIC

B. RAISE THE ALARM (IF NOT DONE SO ALREADY)

C. NOTIFY THE SITE MANAGER (IF SAFE TO DO SO)

D. DO NOT TRY TO TACKLE THE FIRE YOURSELF UNLESS YOU ARE TRAINED IN DOING SO AND YOU ARE SURE OF THE NATURE OF THE FIRE

E. LEAVE THE SITE AS QUICKLY AND AS ORDERLY AS POSSIBLE

F. ASSEMBLE AT THE SPECIFIED FIRE ASSEMBLY POINT WHICH IS LOCATED BY THE SITE ACCESS GATES.

G. THE SITE MANAGER OR DELEGATED OPERATIVE WILL BE IN CHARGE OF CALLING THE EMERGENCY SERVICES ON "999" AND ENSURING THAT ALL PERSONS WHO WERE WORKING ON THE SITE/WITHIN BUILDINGS ARE ASSEMBLED SAFELY

H. INFORM ALL NEIGHBOURING PREMISES WHO ARE LIKELY TO BE AFFECTED

I. DO NOT RETURN TO THE SITE UNTIL YOU HAVE BEEN GIVEN THE "ALL CLEAR" BY THE EMERGENCY SERVICES AND THE SITE MANAGER

## 5.3 Spillages

5.3.1 All fuel stores on site are bunded to contain any fuel leaks. If oil and vehicle maintenance chemicals are kept on site these will be stored securely. If any spills occur a spill containment kit (absorbent pads, booms or granules) will be used to prevent further spillage and the contaminated absorbents placed in a skip for disposal to a suitably permitted landfill. No chemical leaks are expected in the waste handling area but should they occur the procedures outlined in Section 5.4 will apply.

5.3.2 Any wastes which would be classified as having the potential to cause polluting runoff are stored within areas containing a sealed drainage system.

5.3.3 The following specific management procedure will be followed in the event of

digestate spillage/leak:

a) Contain the spillages using a spill kit or diversion / pumping into a holding tank
b) It is important to prevent the transfer of digestate into drains, or onto unmade ground or porous surfaces.
c) **DO NOT** hose down the spill
d) Notify Site Management and also Natural Resources Wales via hotline 0300 065 3000.
e) Once used contaminated absorbent materials must be cleared using the appropriate PPE and stored securely until it can be disposed of appropriately.
f) Complete an incident report.
g) Investigate why the leak or spill occurred and undertake any remedial measures and preventative actions to prevent the incident happening again. (Appropriate action to minimise the possibility of the event occurring again might include improved signage, renewing site inductions, staff refresher training.)
h) Review the relevant procedure. Inform Natural Resources Wales of updates

5.3.4 The following specific management procedure will be followed in the event of fuel and oil spillages:

a) Contain the spillages using the spill kit
b) It is important to prevent the transfer of oil or fuel into drains, or onto unmade ground or porous surfaces.
c) **DO NOT** hose down the spill
d) **DO NOT** treat the affected area with detergents, as this will allow oils to pass through the oil interceptor and be discharged.
e) Notify Site Management and also Natural Resources Wales via hotline 0300 065 3000.
f) Once used contaminated absorbent materials must be cleared using the appropriate PPE and stored securely until it can be disposed of appropriately.
g) Complete an incident report.

h) Investigate why the leak or spill occurred and undertake any remedial measures and preventative actions to prevent the incident happening again. (Appropriate action to minimise the possibility of the event occurring again might include improved signage, renewing site inductions, staff refresher training.)

i) Review the relevant procedure. Inform Natural Resources Wales of any findings and/or updates that may be required.

## 5.4 Adverse reactions

5.4.1 No wastes are accepted which will react to present such a hazard.

## 5.5 Poor visibility

5.5.1 The site will not operate in conditions of poor visibility such as dense fog to reduce the risk of vehicle collision.

## 5.6 Operational failure

5.6.1 The Site Director will be contacted by staff in the event of any operational failure such as the breakdown of plant, systems or equipment and will decide whether operations are to continue or be suspended prior to corrective action being taken. Serious operational failures, which result in the closure of the site, will be recorded in the site diary.

# 6 TRAINING FOR SITE STAFF

## 6.1 Training needs assessment

6.1.1 All new and existing site staff are subject to a specific training regime based on their responsibilities at the site to ensure all operations are carried out without harm to the environment or amenity of the surrounding area. Training in all aspects of the site and waste operations at the site with regard to the individual responsibilities of the site staff will help to prevent incidents occurring which may have an adverse impact on the environment and/or the employees and their co-workers.

6.1.2 An employee training record (i.e. LPFC/RF/6 in Appendix II) shall provide a comprehensive checklist for the training needs of all new site staff and also serves as a training review and record for existing site staff which will be carried out annually or a period set at the operator's preference.

## 6.2 Site rules and infrastructure training

6.2.1 This information will be provided to all employees, visitors and contractors with a full understanding of the site's conditions of use, which will be communicated and documented at induction for all staff with specific induction for visitors and contractors.

6.2.2 Competency should be demonstrated within this field to ensure the employee is fully aware of the site's surroundings and operations to ensure their safety and compliance with specific operating conditions at the site.

## 6.3 Emergency procedures training

6.3.1 All employees will be required to be familiar with the Environmental Controls in Section 4.0 and the Emergency Procedures as detailed in the Section 5.0.

6.3.2 In addition to normal operating conditions as specified in the site rules, employees must also be trained in dealing with eventualities which may occur outside the scope of normal operating conditions, so they are aware of how to deal with these situations in advance of an occurrence.

## 6.4 Fire safety / firefighting training

6.4.1 Management must provide all employees with appropriate fire safety training with regard to their individual responsibilities.

6.4.2 Emergency procedures detailing what measures employees should adopt should a fire occur at the site are detailed in Section 5.2 and will be covered by the 'emergency procedures' training (see Section 6.3).

6.4.3 Regular fire drills will be undertaken by site management to ensure proper procedures are followed by employees in the unlikely event that a fire incident occurs. These will be unannounced drills and will not form part of the induction or review training as specified in Section 6.1.

## 6.5 Recognition of waste types training

6.5.1 All employees will be given induction training and subsequent regular training to identify those waste types which are permitted for acceptance at the site under the site's Environmental Permit and those wastes which are not. This will include specific training to identify those common wastes which may be found following deposit and are not permitted at the site and will also include more obscure wastes and how to handle these wastes safely. All employees will be advised that they should refer any unrecognisable or unknown wastes to senior management, who should, in turn, follow procedures outlined in the Management System and/or contact Natural Resources Wales to agree a suitable method for removal.

6.5.2 This training will be provided to all site users who handle waste on site and those in charge of administration and reporting. They will be trained to identify any wastes not covered by the Environmental Permit for the site and inform the producer that an alternative facility must be sought for any non-compliant wastes.

## 6.6 Storage areas / limits training

6.6.1 Those employees who carry out their responsibilities at the site and those in senior posts must be trained to identify appropriate waste storage areas to ensure that waste storage operations comply with the requirements of the Environment Permit for the site.

6.6.2 Employees in these roles must also be trained to recognize storage limits to ensure that they are in accordance with those specified in Section 1.5.

## 6.7 Vehicle / plant preventative maintenance training

6.7.1 This training is provided specifically for the vehicle and plant operators in order to ensure that all plant and machinery is checked regularly to prevent any occurrences which may lead to any adverse impacts on the environment or human health.

6.7.2 Training will be in accordance with Section 3.6 of this document and will be based on the preventative maintenance schedule supplied by the plant/equipment manufacturer.

6.7.3 The same training will be provided to senior management enabling a dual-level maintenance programme.

## 6.8 Duty of care training

6.8.1 All employees dealing with consignments of waste will be trained in the completion of Duty of Care Waste Transfer Notes and the appropriate auditing of destination sites and/or contractors to ensure compliance.

## 6.9 Plant operation training

6.9.1 Any employees who are required to operate loading or treatment plant for the movement or processing of waste will be required to undertake the necessary qualifications for the operation of the specific item of plant in question. This will be required prior to operating the plant and will be obtained through necessary external certification programmes.

6.9.2 Regardless of general plant operation certification, all operatives will be fully inducted in the operation of the specific make and/or model of plant used on site.

## 6.10 Permit / management system training

6.10.1 All employees will be inducted into the operating conditions as prescribed in the Environmental Permit for the site. Whilst much of the above training will provide specific guidance on many aspects of these documents, all employees will be made aware of the location of the Environmental Permit in the site office. All managerial

positions will be made fully aware of the site's operating conditions.

## 6.11 Training for contractors

6.11.1 General site training will be provided to any contractors who are working on the site on a temporary basis as described in Sections 6.2, 6.3 and 6.4 above.

6.11.2 Additional training will be provided to contractors in their area of expertise. If they are dealing with specific items of plant/machinery, site operating conditions and a general understanding of the Environmental Permit conditions will be provided to prevent any adverse impacts on the environment.

# Appendix I

# Drawings

# Lower Park Farm Biogas Site

P /2014/0145

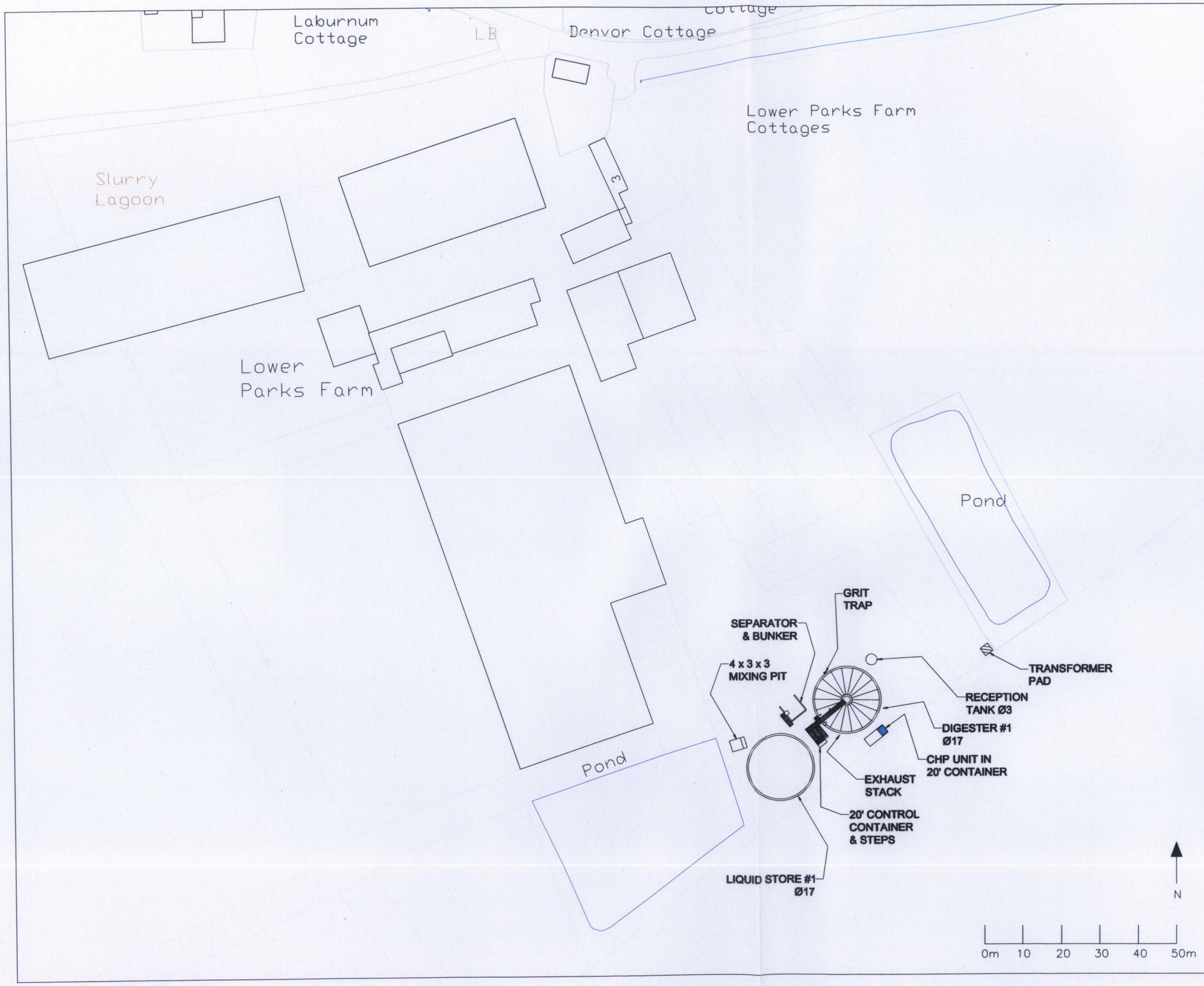



Scale: 1:50000, paper size: A4

WREXHAM COUNTY BOROUGH COUNCIL
APPROVED
PLANNING DEPARTMENT

WREXHAM COUNTY BOROUGH COUNCIL
18 MAR 2014
PLANNING DEPARTMENT

DRAWING No.
LPF-001




**NOTES:**

1. ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED
2. LIQUID STORE 7m HEIGHT TO EAVES & GAS HOLDER ROOF ALONE, 5.5m TALL MAX.
3. DIGESTER TANK 7m HEIGHT TO EAVES
4. SECTION OF LAGOON FILLED TO SITE LEVEL

WREXHAM COUNTY BOROUGH COUNCIL
APPROVED
PLANNING DEPARTMENT

AMENDED

ebd
environmental business development ltd
78 GRANT AVENUE
LIVERPOOL
L15 5AZ

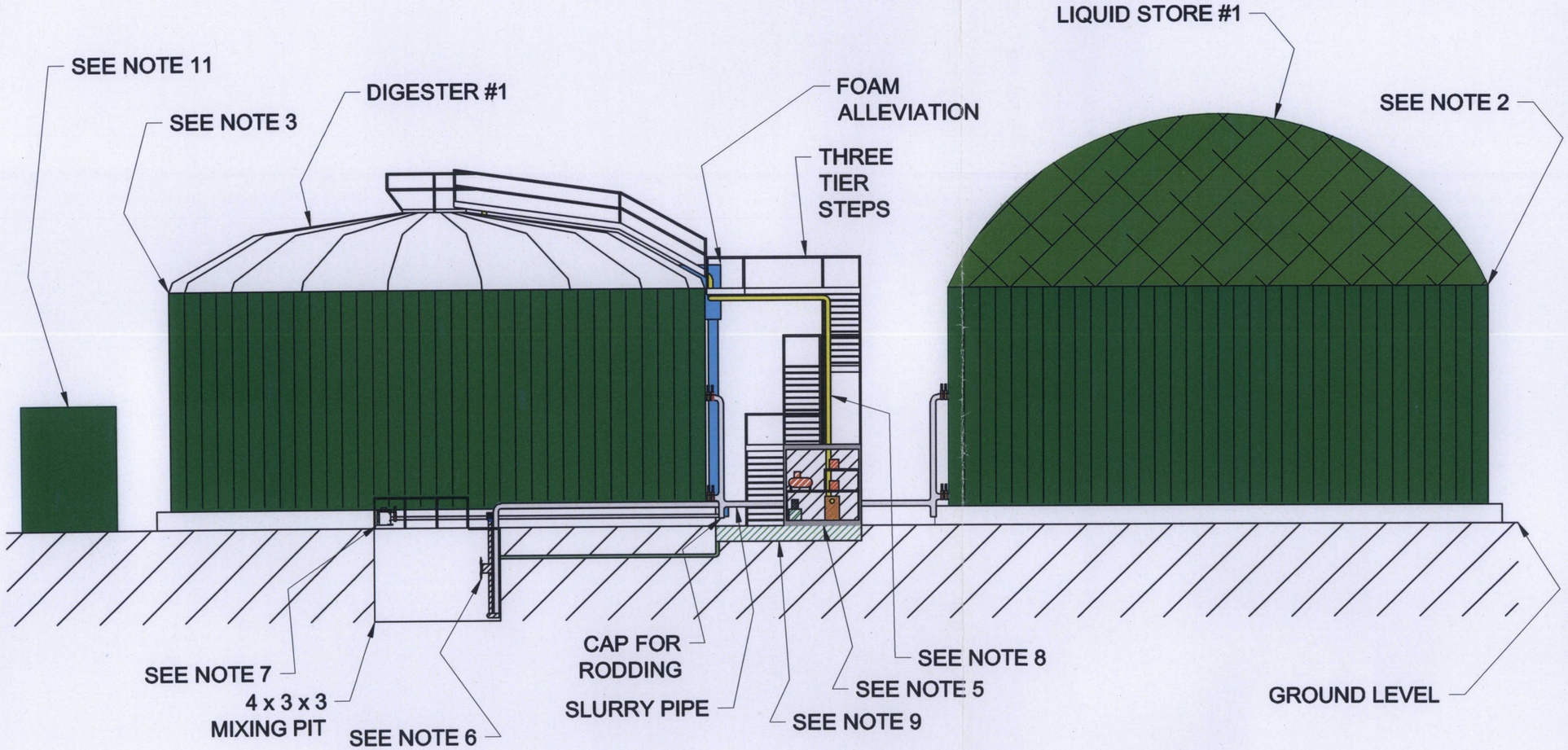
**PROJECT:**
LOWER PARKS FARM

**CLIENT:**
RICHARD TOMLINSON

**DRAWING DESCRIPTION:**
PROPOSED SITE LAYOUT

| | |
|---|---|
| DRAWN: | D.JONES |
| CHECKED: | RC |
| DATE: | 29/11/2013 |
| SCALE: | 1:1000 @ A3 |
| DRAWING NO.: | 170-1020 |
| REVISION: | '3' (04/05/2014) |

P/2014/0145








**NOTES:**

1. ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED
2. LIQUID STORE 7m HEIGHT TO EAVES & GAS HOLDER ROOF ALONE, 5.5m TALL MAX., INCLUSIVE OF 600mm CONCRETE BASE
3. DIGESTER TANK 7m HEIGHT TO EAVES, INCLUSIVE OF 600mm CONCRETE BASE
4. SITE LAYOUT DRAWING: 170-1020
5. CONTAINER FRONT DOORS OPEN IN SITU, REVEALING GAS & HYDRAULIC SECTION OF CONTROL UNIT
6. MIXING PROPELLER, CHOPPER PUMP & OUTLET TO CONTROL UNIT SLURRY PUMP
7. GRIT TRAP WITH 4" PRESSURE EQUALIZATION PIPE RUNNING TO CONTROL UNIT SLURRY MANIFOLD
8. GAS TAKE OFF PIPE FROM DIGESTER ROOF TO CONDENSATION TRAP IN CONTROL UNIT
9. GRID RUNNING BELOW SLURRY PUMPS & LOADING PIPES, WITH DRAIN LEADING TO MIXING PIT
10. SEPARATOR REMOVED FROM VIEW FOR CLARITY
11. RECEPTION TANK: Ø3 x 4 TALL

ebd
environmental business development ltd
78 GRANT AVENUE
LIVERPOOL
L15 5AZ

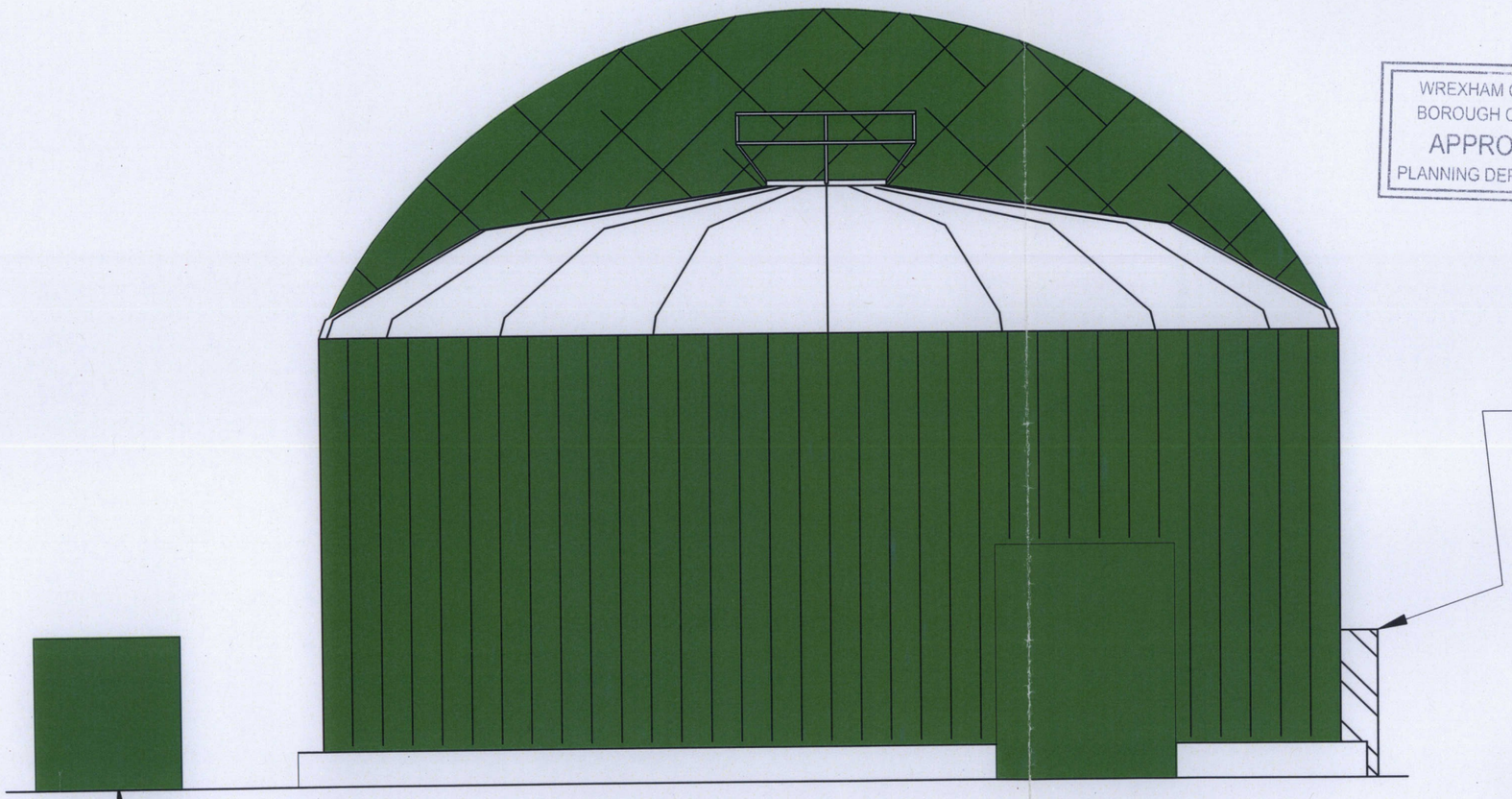
PROJECT:
LOWER PARKS FARM

CLIENT:
RICHARD TOMLINSON

DRAWING DESCRIPTION:
SITE ELEVATION FROM NORTH WEST (N39°W)

| | |
|---|---|
| DRAWN: | D.JONES |
| CHECKED: | RC |
| DATE: | 08/12/2013 |
| SCALE: | 1:160 @ A3 |
| DRAWING NO.: | 171-1030 |
| REVISION: | '0' |

P /2014 /0145








**NOTES:**
1. ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED
2. SITE LAYOUT DRAWING: 170-1020

ebd
environmental business development ltd
78 GRANT AVENUE
LIVERPOOL
L15 5AZ

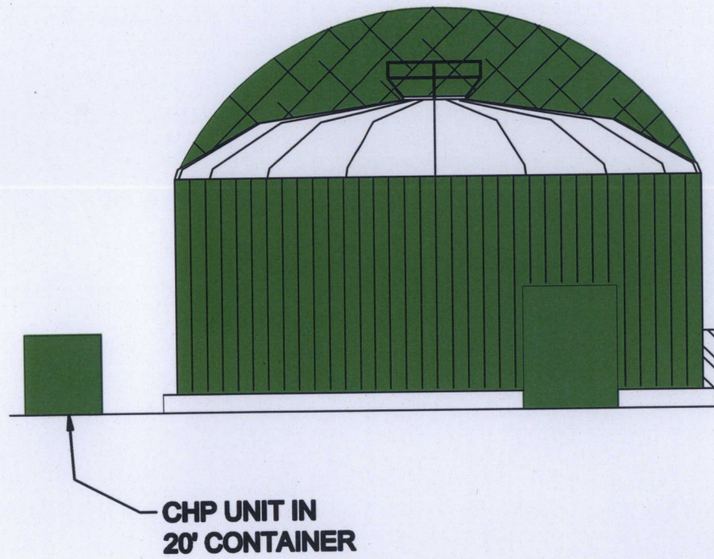
PROJECT:
LOWER PARKS FARM

CLIENT:
RICHARD TOMLINSON

DRAWING DESCRIPTION:
SITE LAYOUT FROM THE NORTH EAST (N51°E)

| | |
|---|---|
| DRAWN: | D.JONES |
| CHECKED: | RC |
| DATE: | 08/12/2013 |
| SCALE: | 1:100 @ A3 |
| DRAWING NO.: | 171-1031 |
| REVISION: | '0' |

P /2014 /0145




WREXHAM COUNTY
BOROUGH COUNCIL
APPROVED
PLANNING DEPARTMENT

**NOTES:**
1. ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED
2. SITE LAYOUT DRAWING: 170-1020

WREXHAM COUNTY
BOROUGH COUNCIL
18 MAR 2014
PLANNING DEPARTMENT

ebd
environmental business development ltd
78 GRANT AVENUE
LIVERPOOL
L15 5AZ

PROJECT:
LOWER PARKS FARM

CLIENT:
RICHARD TOMLINSON

DRAWING DESCRIPTION:
SITE LAYOUT FROM THE NORTH EAST (N51°E)

| | |
|---|---|
| DRAWN: | D.JONES |
| CHECKED: | RC |
| DATE: | 25/01/2014 |
| SCALE: | 1:200 @ A3 |
| DRAWING NO.: | 171-1032 |
| REVISION: | '0' |

# Appendix II

# Record Keeping Forms

LOWER PARK FARM CO-OPERATIVE

WASTE INPUT RECORD FORM - LPFC/RF/1 DATE: .....

| TIME | PRODUCER/SOURCE | WASTE TYPE/ EWC CODE | QUANTITY IN TONNES / $m^3$ | NAME OF CARRIER | DRIVERS NAME | DRIVERS SIGNATURE | VEHICLE REG. NO. | WASTE ACCEPTED/ INSPECTED BY |
|---|---|---|---|---|---|---|---|---|
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| | | | | | | | | |
| TOTAL FOR THIS SHEET | | | | | | | | |
| TOTAL FROM PREVIOUS SHEET | | | | SHEET No. OF . CHECKED..... | | | | |
| TOTAL WASTE DEPOSITED | | | | | | | | |

LOWER PARK FARM CO-OPERATIVE

REJECTED WASTE - RECORD FORM LPFC/RF/2

| | |
|---|---|
| DATE | |
| TIME | |
| WASTE DESCRIPTION & EWC CODE | |
| | |
| QUANTITY OF WASTE | |
| PRODUCER/HOLDER'S NAME, ADDRESS & TELEPHONE No. | |
| | |
| | |
| | |
| | |
| NAME OF CARRIER | |
| VEHICLE REGISTRATION | |
| CARRIER REG. No. | |
| REASON FOR REJECTION OF WASTE | |
| | |
| | |
| ACTION TAKEN | |
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LOWER PARK FARM CO-OPERATIVE

WASTE AND PRODUCT OUTPUT RECORD FORM - LPFC/RF/3 MONTH.....

| DATE | TIME | WASTE TYPE / EWC CODE | QUANTITY (TONNES) | DESTINATION SITE | NAME OF CARRIER OR EMPLOYEE REMOVING WASTE | VEHICLE REG. NO. |
|---|---|---|---|---|---|---|
| | | | | | | |
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| TOTAL FOR THIS SHEET | | | | | | |
| TOTAL FROM PREVIOUS SHEET | | | | SHEET No. OF . CHECKED..... | | |
| TOTAL WASTE EXPORTED | | | | | | |

## LOWER PARK FARM CO-OPERATIVE

## SITE INSPECTION FORM (DAILY INSPECTIONS) – LPFC/RF/4

| WEEK STARTING | | | | | | | |
|---|---|---|---|---|---|---|---|
| TYPE OF INSPECTION | DAY | | | | | | |
| | M | T | W | T | F | S | S |
| SITE ENTRANCE/NOTICE BOARD | | | | | | | |
| SECURITY - GATES | | | | | | | |
| SECURITY - FENCING | | | | | | | |
| SITE ROADS / SURFACES | | | | | | | |
| WASTE CONTAINERS & BAYS | | | | | | | |
| WASTE STORAGE / SLURRY LAGOON | | | | | | | |
| CONTAINERS/OUTGOING DIGESTATE STORAGE | | | | | | | |
| PLANT/EQUIPMENT/PUMPS | | | | | | | |
| FUEL TANK/BUND | | | | | | | |
| CONCRETE HARDSTANDING | | | | | | | |
| WASTE TYPES/ QUANTITIES | | | | | | | |
| REJECTED WASTE TYPES / STORAGE | | | | | | | |
| NOISE LEVELS | | | | | | | |
| FIRES | | | | | | | |
| LITTER | | | | | | | |
| DUST | | | | | | | |
| ODOUR | | | | | | | |
| VERMIN | | | | | | | |
| RECORDS | | | | | | | |
| COMPAINTS RECEIVED | | | | | | | |
| OTHER - | | | | | | | |
| INSPECTION CARRIED OUT BY | | | | | | | |

| NOTES/ACTION (CONTINUE ON A SEPARATE SHEET IF NECESSARY): |
|---|
| |
| |
| |
| |
| |

| CHECKED BY | | SIGNATURE | |
|---|---|---|---|
| POSITION | | DATE | |
| *Sheet* | | *of* | |

LOWER PARK FARM CO-OPERATIVE

SITE INSPECTION FORM (DAILY INSPECTIONS) –LPFC/RF/4

NOTES/ACTION (CONTINUATION SHEET):

| | | | |
|---|---|---|---|
| CHECKED BY | | SIGNATURE | |
| POSITION | | DATE | |
| *Sheet* | | *of* | |

# LOWER PARK FARM CO-OPERATIVE
# EMPLOYEE TRAINING NEEDS ASSESSMENT / REVIEW - LPFC/RF/6

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| EMPLOYEE NAME | | | | | DATE | | | | | |
| POSITION | | | | | REVIEW DUE | | | | | |
| TRAINING CARRIED OUT BY | | | | | | | | | | |
| POSITION | | | | | | | | | | |
| TRAINING REQUIRED | GENERAL OPERATIVES | | HGV DRIVER | | SITE MANAGER/ OPERATOR | | ADMIN STAFF | | TECHNICALLY COMPETENT MANAGER | |
| CARRIED OUT? | Y/N | SIGNED BY EMPLOYEE | Y/N | SIGNED BY EMPLOYEE | Y/N | SIGNED BY EMPLOYEE | Y/N | SIGNED BY EMPLOYEE | Y/N | SIGNED BY EMPLOYEE |
| SITE RULES AND INFRASTRUCTURE | | | | | | | | | | |
| EMERGENCY PROCEDURES | | | | | | | | | | |
| FIRE SAFETY/ FIRE FIGHTING | | | | | | | | | | |
| RECOGNITION OF WASTE TYPES | | | | | | | | | | |
| STORAGE AREAS/LIMITS | | | | | | | | | | |
| RECORD KEEPING | | | | | | | | | | |
| VEHICLE CHECKS (Preventative Maintenance) | | | | | | | | | | |
| PLANT CHECKS (Preventative Maintenance) | | | | | | | | | | |
| DUTY OF CARE WASTE TRANSFER NOTES | | | | | | | | | | |
| PLANT OPERATION - LOADING PLANT | | | | | | | | | | |
| MOBILE PLANT AND MACHINERY | | | | | | | | | | |
| MANAGEMENT SYSTEM & PERMIT | | | | | | | | | | |
| OTHER 1 (PLEASE SPECIFY) | | | | | | | | | | |
| OTHER 2 (PLEASE SPECIFY) | | | | | | | | | | |

## LOWER PARK FARM CO-OPERATIVE
## COMPLAINTS REPORT FORM (LPFC/RF/7)

| | |
|---|---|
| Date Recorded: | Reference Number: |
| Name and address of caller | |
| Telephone number of caller | |
| Time and Date of call | |
| Nature of complaint<br>(noise, odour, dust, other)<br>(date, time, duration) | |
| Weather at the time of complaint<br>(rain, snow, fog, etc.) | |
| Wind (strength, direction) | |
| Any other complaints relating to this report | |
| Any other relevant information | |
| Potential reasons for complaint | |
| The operations being carried out on site at the time of the complaint | |
| Follow Up | |
| Actions taken | |
| Date of call back to complainant | |
| Summary of call back conversation | |
| Recommendations | |
| Change in procedures | |
| Changes to Environmental Management System (EMS) | |
| Date changes implemented | |
| Form completed by | |
| Signed | |
| Date completed | |

## COMPLAINT RECORDING PROCEDURE:

1) Any complaints received will be recorded on form LPFC/RF/7. This form will normally be completed, signed and dated by the Site Manager; if they are not available the Office Manager will complete the form.

2) The name, address and telephone number of the caller will be requested.

3) Each complaint will be given a reference number.

4) The caller will be asked to give details of:

    a. the nature of the complaint;
    b. the time;
    c. how long it lasted;
    d. how often it occurs;
    e. Is this the first time the problem has been noticed; and
    f. what prompted them to complain

5) The person completing the form will then, if possible, make a note of:

    a. the weather conditions at the time of the problem (rain, snow, fog etc.)
    b. strength and direction of the wind; and
    c. the activity or activities taken place on the site at the time the noise was detected, particularly anything unusual.

6) The reason for the complaint will be investigated and a note of the findings added to the report.

7) The caller will then be contacted with an explanation of the source of the complaint if identified and the action taken to prevent a recurrence of the problem in future.

8) If the caller is unhappy about the outcome or unwilling to identify themselves the caller will be invited to contact Natural Resources Wales and or the Local Authority.

9) Following any complaint, the relevant management plan(s) will be reviewed to ensure appropriate actions are in place to counter any problems.

# Appendix III

# Accepted Waste Types (European Waste Catalogue Waste Code List)

# LIST OF WASTES PERMITTED - LOWER PARK FARM CO-OPERATIVE

| EUROPEAN WASTE CATALOGUE - COMMISSION DECISION 2000/532/EC | |
|---|---|
| **CODE** | **WASTE TYPE** |
| **02** | **WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSIN** |
| **02 01** | **Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing** |
| 02 01 01 | sludges from washing and cleaning – vegetables, fruit and other crops |
| 02 01 03 | plant tissue waste – husks, cereal dust, waste animal feeds, off-cuts from vegetables and fruit and other vegetable wastes |
| 02 03 06 | animal faeces, urine, manure including spoiled straw |
| **02 05** | **Wastes from the dairy products industry** |
| 02 05 01 | biodegradable materials unsuitable for consumption or processing (other than those containing hazardous substances) – solid and liquid dairy products, milk, food processing wastes, yoghurt, whey from dairies |
| 02 05 02 | sludge from dairies effluent treatment |
| | |

# Appendix IV

# Health & Safety – Conditions of Site Use

## HEALTH AND SAFETY - CONDITIONS OF SITE USE

The following guidelines apply to all site personnel, contractors and visitors using the site (where applicable).

1) The site is covered by the Health and Safety at Work Act 1974 and its associated regulations and all users must abide by any relevant provisions. Any person found to be in contravention of the requirements of this Health and Safety Statement will be asked to leave the site.

2) All visitors and contractors must sign the visitor's book upon entry to and exit from the site. All vehicle drivers must report to the site office and await instruction from the site manager/deputy before proceeding to deposit waste at the site.

3) All accidents, diseases, injuries or dangerous occurrences shall be reported to the site manager. All instructions issued by the site manager in respect of health and safety at the site must be followed by all site users.

4) A first aid box (including eye-wash bottles) is kept in the site office. If you are injured on site please alert a member of staff/trained first-aider for assistance.

5) All persons must wear the appropriate PPE on site including high visibility jackets and hard hat.

6) Safety boots must be worn by all persons in the waste sorting/storage areas.

7) Protective gloves must be worn for any operations which present a hazard of puncture to or laceration of the skin or for any manual handling work carried out on site.

8) Ear defenders, safety helmets (hard hats) and eye protection will be issued when deemed necessary and must be worn by all employees and contractors where required by the site manager or other site representatives.

9) Fire extinguishers are kept on site to deal with any fires - fires shall only be dealt with by employees of Lower Park Farm Co-Operative unless alternative instructions are given by the site manager. Access to fire exits and fire fighting equipment must be kept clear at all times. When the fire alarm sounds please follow instructions and leave the site in an orderly fashion.

10) Persons who are suspected to be under the influence of drugs or alcohol will be removed from the site.

11) Smoking is not permitted on the site.

12) Observe and follow all traffic directions and traffic/safety signs.

13) Drivers must comply with all safety instructions given by the site manager or appointed deputy.

14) All drivers are responsible for ensuring that their vehicle is safely loaded. Unsafe loads will not be accepted at the site and will not be allowed to leave the site until they have been made safe.

15) Drivers waiting to tip at the recycling centre shall follow the instructions of the operator and shall only tip in the designated area, unless advised otherwise.

16) Drivers must remain in the cab or stand well clear of the vehicle during loading or tipping. Once the vehicle has been loaded it must be securely sheeted (if necessary) before leaving the site. When sheeting and unsheeting the vehicle ensure that the engine is switched off, the ignition key removed and the parking brake is on. Do not gain access using the mudguards and wheels. Ensure that your ropes, hooks and sheets are in good condition.

17) Never travel with the vehicle body raised. Ensure you know the maximum height of the raised body of your vehicle.

Declaration: To be completed by site users

I have read and understand the conditions of use for this site and agree to comply with them at all times. I accept that neither Lower Park Farm Co-Operative nor their employees shall be liable for any loss or injury arising from my non-compliance with the above conditions.

Signed…… Print name……

Company/Organisation…… Date……

*Note: these conditions are included in the EMS for information only and may be revised regularly as part of the site health and safety policy.*

# Appendix V

# Planning Permission

**In pursuance of its powers under the Acts an Orders referred to below, the County Borough Council as Local Planning Authority, hereby determines your application in accordance with the particulars and plans comprising the application**

wrexham
COUNTY BOROUGH COUNCIL
CYNGOR BWRDEISTREF SIROL
wrecsam

| | | | |
|---|---|---|---|
| **Applicant** | MR RICHARD TOMLINSON | **Code Number** | ROS P/2014/0145 |
| **Agent** | ENVIRONMENTAL BUSINESS DEVELOPMENT<br>RICHARD CARTER<br>78 GRANT AVENUE<br>WAVERTREE<br>LIVERPOOL<br>L15 5AZ | **Date Received** | 18/03/2014 |
| | | **Decision Date** | 15/05/2014 |

---

**Town and Country Planning Act, 1990**

**Location of application**

LOWER PARKS FARM, PARKSIDE, ROSSETT, WREXHAM, LL12 0BN

**Description of application**

CONSTRUCTION OF A 249KW ANAEROBIC DIGESTION SYSTEM COMPRISING OF A RECEPTION PIT, A 30M3 RECEPTION STORAGE TANK, DIGESTION TANK, DIGESTATE STORE, GENERATION CONTAINER, EXHAUST STACK, AUXILIARY FLARE, CONCRETE BAY FOR SOLID DIGESTATE STORAGE AND A STANDARD BRICK BUILT TRANSFORMER HOUSING. REMOVAL OF SOME EXISTING OVERHEAD ELECTRICITY LINES.

In reaching this decision the Council has had regard to the relevant policies in the Wrexham Unitary Development Plan which are as follows:-

| | |
|---|---|
| EC14 | Protection of controlled waters |
| EC3 | Agricultural Buildings |
| EC4 | Hedgerows, Trees and Woodland |
| EC6 | Biodiversity Conservation |
| GDP1 | Development objectives |
| PS10 | Waste management priorities |
| PS12 | Development and the environment |
| PS2 | Development and the environment |
| T8 | Parking |

**Particulars of decision that permission be GRANTED**
**Subject to the following:-**

| | | | |
|---|---|---|---|
| **Applicant** | MR RICHARD TOMLINSON | **Code Number** | ROS P/2014/0145 |
| **Agent** | ENVIRONMENTAL BUSINESS DEVELOPMENT<br>RICHARD CARTER<br>78 GRANT AVENUE<br>WAVERTREE<br>LIVERPOOL<br>L15 5AZ | **Date Received** | 18/03/2014 |
| | | **Decision Date** | 15/05/2014 |

## Condition(s)

1. The digester, liquid store, reception tank, mixing pit, separator and bunker, and associated containers shall only be used in strict accordance with the details contained within the approved Design and Access Statement, and shall receive, digest and store the cow slurry and grass silage generated by 'Lodge' and 'Lower Park' farms only and no other slurry, food waste or any other materials (with the exception of the glycerol) shall be imported into the site for digestion/storage in connection with any part of the development hereby approved.
2. The digestate taken from the digester hereby approved to be used in the existing digester at Lodge Farm shall be moved by means of retractable umbilical pipe only and shall at no time be transported to the digester or associated storage tanks and reception building by means of external surrounding road network which includes 'Park Lane', 'Rossett Road', 'Hoseley Lane' and 'Borras Road'.
3. All external finishes to the digester, liquid store, reception tank, mixing pit, separator and bunker, and associated containers shall be coloured dark green with white roofing only.
4. No part of the development shall commence until a scheme of noise protection measures have been submitted to and approved in writing by the Local Planning Authority. The development shall only be operated in strict accordance with the noise protection measures as are subsequently approved.
5. No part of the development shall commence until a detailed report of expected odour arising from each of the plant including odour mitigation measures has been submitted to and approved in writing by the Local Planning Authority. The development shall thereafter be operated strictly in accordance with the measures as approved.
6. No part of the development shall commence until a detailed pest control management plan has been submitted to and approved by the Local Planning Authority. The development shall thereafter be operated in accordance with the measures approved.
7. The development shall be carried out in strict accordance with the recommendations and reasonable avoidance measures contained within the ecology report hereby approved as carried out by Perry Amphibian and Reptile Conservation dated April 2014.

| | | | |
|---|---|---|---|
| **Applicant** | MR RICHARD TOMLINSON | **Code Number** | ROS P/2014/0145 |
| **Agent** | ENVIRONMENTAL BUSINESS DEVELOPMENT<br>RICHARD CARTER<br>78 GRANT AVENUE<br>WAVERTREE<br>LIVERPOOL<br>L15 5AZ | **Date Received** | 18/03/2014 |
| | | **Decision Date** | 15/05/2014 |

8. Within 6 months of first use of the development hereby approved, the hedgerows and additional tree planting detailed in the approved ecology report shall be fully implemented in strict accordance with a planting scheme which has been submitted to and approved in writing by the Local Planning Authority. The planting shall thereafter be retained and in the event that any planting is removed, dies or is severely damaged or becomes diseased it shall be replaced during the first available planting season by trees or hedging of a similar size and species to those originally required to be planted.
9. The vehicular parking and turning areas as shown on approved drawing no. 170-1041 dated 30/04/2014 shall be fully laid out, surfaced and drained prior to first use of the development. These areas shall thereafter be permanently retained and kept free of any obstruction, and made available solely for the parking and turning of vehicles at all times.

**Reason(s)**

1. The premises are closely adjoined by residential properties and it is considered necessary to strictly control the nature and intensity of the use of the premises in the interests of the amenities of the area. In the interests of highway safety and to ensure a satisfactory standard of appearance of the development in the interests of the visual amenity of the area.
2. The premises are closely adjoined by residential properties and it is considered necessary to strictly control the nature and intensity of the use of the premises in the interests of the amenities of the area. In the interests of highway safety and to ensure a satisfactory standard of appearance of the development in the interests of the visual amenities of the area.
3. To ensure a satisfactory standard of appearance of the development in the interests of the visual amenities of the area.
4. To ensure that the development fully complies with the appropriate policies and standards and to protect the amenities of the occupiers of nearby properties.
5. To ensure that the development fully complies with the appropriate policies and standards and to protect the amenities of the occupiers of nearby properties.
6. To ensure that the development fully complies with the appropriate policies and standards and to protect the amenities of the occupiers of nearby properties.

| | | | |
|---|---|---|---|
| **Applicant** | MR RICHARD TOMLINSON | **Code Number** | ROS P/2014/0145 |
| **Agent** | ENVIRONMENTAL BUSINESS DEVELOPMENT<br>RICHARD CARTER<br>78 GRANT AVENUE<br>WAVERTREE<br>LIVERPOOL<br>L15 5AZ | **Date Received**<br><br>**Decision Date** | 18/03/2014<br><br>15/05/2014 |

7. To protect the Great Crested Newts which may otherwise be damaged by the development hereby permitted.
8. To ensure a satisfactory standard of appearance of the development in the interests of the visual amenities of the area and in order to protect and enhance wildlife corridors.
9. To provide for the parking and turning of vehicles clear of the highway and to ensure that reversing by vehicles into or from the highway is rendered unnecessary in the interest of traffic safety.

**Officer Appointed for this purpose**
**Head of Community Wellbeing and Development**

**Refer to the Statement of Applicant's Rights and General Information enclosed or refer to the following link:-**

**http://www.wrexham.gov.uk/english/planning_portal/publications/info_sheets.htm**

# Appendix VI

# Environmental Permit

**Standard rules**

Chapter 4, The Environmental Permitting (England and Wales) Regulations 2016

Cyfoeth Naturiol Cymru
Natural Resources Wales

# Standard rules SR2012 No10

# On-farm anaerobic digestion facility using farm wastes only, including use of the resultant biogas

## Waste Recovery Operation – treatment capacity less than 100 tonnes of waste per day

# Introductory note

This introductory note does not form part of these standard rules

These rules are limited to premises used for agriculture and to wastes arising from on-farm activities, including dairies and are available to operators with an anaerobic digestion treatment capacity of less than 100 tonnes of waste or a combination of waste and non-waste – both solid and liquid - on any one day. For anaerobic digesters operating above this threshold, standard rules for installation activities are available.

When referred to in an environmental permit, these rules will allow the operator to carry out the anaerobic digestion of wastes and the combustion of the resultant biogas in gas engines. The rules also allow use of gas turbines, boilers, fuel cells and treatment and/or upgrading the biogas to biomethane.

Permitted wastes do not include hazardous wastes.

Any wastes controlled by the Animal By-Products Regulations must be treated and handled in accordance with any requirements imposed by those Regulations.

These standard rules do not allow any emission into surface waters or groundwater except clean water from roofs and parts of the site not used for waste activity including storage of wastes. However, under the emissions of substances not controlled by emission limits rule, biogas condensate, treated digestate and waste waters may be discharged to a sewer subject to a consent issued by the local water company.

These rules do not apply to installations with more than one operator.

**End of Introductory Note**

# Rules

# 1 Management

## 1.1 General management

1.1.1 The operator shall manage and operate the activities:

(a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances closure and those drawn to the attention of the operator as a result of complaints; and

(b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in these standard rules shall have convenient access to a copy of them kept at or near the place where those duties are carried out.

1.1.4 The operator shall comply with the requirements of an approved competence scheme.

## 1.2 Avoidance, recovery and disposal of wastes produced by the activities

1.2.1 The operator shall take appropriate measures to ensure that:

(a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and

(b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

(c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.2.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

# 2 Operations

## 2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in table 2.1 below ("the activities").

| Table 2.1 Activities | |
|---|---|
| **Description of activities** | **Limits of activities** |
| R13: Storage of wastes pending the operations numbered R1 and R3<br><br>R3**:** Recycling or reclamation of organic substances that are not used as solvents<br><br>R1: Use principally as a fuel or other means to generate energy. | All activities must be carried out on premises used for agriculture.<br><br>Anaerobic digestion of waste and the following associated activities:<br>• Treatment of waste including shredding, sorting, screening, compaction, bailing, mixing and maceration.<br>• Digestion of wastes including pasteurisation and chemical addition<br>• Gas cleaning and upgrading to biomethane.<br>• Gas storage and drying<br>• Treatment of digestate including screening to remove plastic residues, centrifuge or pressing, addition of thickening agents (polymers) or drying.<br>• Composting and maturation of digestate<br>• The use of combustible gases produced as a by-product of the anaerobic digestion process as fuel.<br>• Burning of biogas in gas engines, gas turbines, boilers and use in fuel cells.<br>• Use of an auxiliary flare required only for short periods of breakdown or maintenance of the facility.<br>• Use of pressure release valves to protect the integrity of the plant. Such systems should not be used routinely to vent unburnt biogas.<br><br>The total quantity of waste or a combination of waste and non-waste including solids and liquids accepted at the site shall not exceed 100 tonnes in any one day.<br><br>Anaerobic digestion of waste or waste containing mixtures shall not exceed 100 tonnes per day. |

2.1.2 All process plant and equipment shall be commissioned, operated and maintained, and shall be fully documented and recorded, in accordance with the manufacturers recommendations.

## 2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan attached to the permit.

2.2.2 The permitted activities must not be carried out within:

(a) 10 metres of any watercourse;

(b) a groundwater source protection zone 1, or if a source protection zone has not been defined then within 50 metres of any well, spring or borehole used for the supply of water for human consumption. This must include private water supplies;

(c) a specified Air Quality Management Area;

2.2.3 The gas engine stack must be a minimum of 3 metres in height and must not be located within:

(a) 200 metres of a European Site or a Site of Special Scientific Interest (excluding any site designated solely for geological features);

(b) 200 metres from the nearest sensitive receptor in cases where the stack does not have an “effective” stack height of 3 metres or more, or the stack is less than 7 metres in height.

## 2.3 Waste acceptance

2.3.1 Waste shall only be accepted if:

(a) it is of a type and quantity listed in tables 2.1 and 2.3 of these rules;

(b) it conforms to the description in the documentation supplied by the producer and holder;

(c) the waste is biodegradable;

(d) wastes that are animal by-products or contain animal by-products must be handled and processed in accordance with any requirements and restrictions imposed by the animal by-products legislation; and

(e) it is not hazardous waste.

2.3.2 Records demonstrating compliance with rule 2.3.1 shall be maintained.

| **Table 2.3 Waste Types** | |
|---|---|
| **Waste Codes** | **Description** |
| **02** | **WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, AND HUNTING, FISHING, FOOD PREPARATION AND PROCESSING** |
| **02 01** | **wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing** |
| 02 01 01 | sludge from washing and cleaning – vegetables, fruit and other crops |
| 02 01 03 | plant tissue waste - husks, cereal dust, waste animal feeds, off-cuts from vegetable and fruit and other vegetation waste |
| 02 01 06 | animal faeces, urine, manure including spoiled straw |
| **02 05** | **Wastes from the dairy products industry** |
| 02 05 01 | biodegradable materials unsuitable for consumption or processing (other than those containing hazardous substances) − solid and liquid dairy products, milk, food processing wastes, yoghurt, whey from dairies |
| 02 05 02 | sludge from dairies effluent treatment |

## 2.4 Operating techniques

2.4.1 The activities shall be operated using the techniques and in the manner described in Table 2.4 below.

| **Table 2.4 Operating Techniques** |
|---|
| **Measures** |
| 1) All waste solids, liquids and sludges shall be securely stored. In the event of a leak, spill or failure, material can be contained and recovered. |
| 2) All storage and process tanks shall be fit for purpose and shall be regularly inspected and maintained in accordance with paragraph 2.1.2. In the event of a leak, spill or failure, material can be contained and recovered. |
| 3) Digestate shall be stored within containers or lagoons and should be of a design and capacity fit for purpose. The lagoon shall have a free board of 750mm. |
| 4) Gas engine stack height shall be no less than 3 metres. |
| 5) All biogas condensate shall be discharged into a sealed drainage system or recirculated back to the digester. |
| 6) Emissions of unburned biogas and the operation of the auxiliary flare shall be minimised. Any significant emissions of unburned biogas (including the operation of the pressure relief valves, and the operation of the auxiliary flare shall be recorded. |

# 3 Emissions and monitoring

## 3.1 Emissions to air, water or land

3.1.1 There shall be no point source emissions to air, water or land, except from the sources and emission points listed in table 3.1

3.1.2 The limits given in table 3.1 shall not be exceeded.

**Table 3.1 Point source emissions to air - emission limits and monitoring requirements**

| Emission Point and Source | Parameter | Limit (including units) | Monitoring Frequency and Standard or Method |
|---|---|---|---|
| Stacks on engines | Oxides of Nitrogen<br>Carbon monoxide<br>Sulphur dioxide<br>Total volatile organic compounds including methane | 500 mg/$m^3$<br>1400 mg/$m^3$<br>350 mg/$m^3$<br>1000 mg/$m^3$<br><br>Emission levels at Normal Temperature and Pressure and 5%O2, unless otherwise agreed in writing by Natural Resources Wales<br><br>Uncertainty allowance as stated in EA guidance LFTGN08 v2 2010.<br><br>To ensure effective plume breakaway, minimum stack gas exit velocity shall be no less than 15 m/s or 12 m/s where stack volume flow is less than 0.5 $m^3$/s; OR<br>The gas exit temperature shall be no less than 200$^o$C | Annual monitoring<br><br>Monitoring equipment, techniques, personnel and organisations employed for the engine stack emissions monitoring programme (including the measurement of exhaust gas temperature) shall have either MCERTS certification or MCERTS accreditation (as appropriate). |
| Stacks on boilers burning biogas | Oxides of Nitrogen | No limit set | None specified |
| Stacks or vents on biogas upgrading plant | No parameter set | No limit set | None specified. |
| Stacks or vents on biofilter and/or scrubbing system | No parameter set | No limit set | Biofilter and/or scrubbing system shall be regularly checked and maintained to ensure that they remain effective |
| Auxiliary flare | Oxides of Nitrogen | No limit set | Record of operating hours. |
| Pressure relief valves | Biogas | No limit set | Weekly visual or remote monitoring to ensure valves are correctly seated. |

## 3.2 Emissions of substances not controlled by emission limits

3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this rule if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions

3.2.2 The operator shall:

(a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales for approval within the period specified, an emissions management plan;

(b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise leakage and spillage from the primary container.

## 3.3 Odour

3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable, to minimise, the odour.

3.3.2 The operator shall:

(a) maintain and implement an odour management plan;

(b) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales for approval within the specified period, a revised odour management plan;

(c) implement any approved revised odour management plan from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

## 3.4 Noise and vibration

3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan, to prevent or where that is not practicable, to minimise, the noise and vibration.

3.4.2 The operator shall:

(a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales for approval within the period specified, a noise and vibration management plan;

(b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

## 3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in table 3.1.

3.5.2 The operator shall maintain records of all monitoring required by these standard rules including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, test and surveys and any assessment or evaluation made on the basis of such data.

## 3.6 Pests

3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.6.2 The operator shall:

(a) if notified by Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;

(b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by Natural resources Wales.

# 4 Information

## 4.1 Records

4.1.1 All records required to be made by these standard rules shall:

(a) be legible;

(b) be made as soon as reasonably practicable;

(c) if amended, be amended in such a way that the original and any subsequent amendments remain legible or are capable of retrieval; and

(d) be retained, unless otherwise agreed by Natural Resources Wales, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:

(i) off-site environmental effects; and

(ii) matters which affect the condition of land and groundwater

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by these standard rules, unless otherwise agreed in writing by Natural Resources Wales.

## 4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by these standard rules to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.

4.2.2 Within one month of the end of each quarter, the operator shall submit to Natural Resources Wales using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

## 4.3 Notifications

4.3.1 Natural Resources Wales shall be notified without delay following the detection of:

(a) any malfunction, breakdown or failure of equipment or techniques, accident or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;

(b) the breach of a limit specified in these standard rules; or

(c) any significant adverse environmental effects.

4.3.2 Written confirmation of actual or potential pollution incidents and breaches of emission limits shall be submitted within 24 hours.

4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.

4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters except where such disclosure is prohibited by Stock Exchange rules:

(a) Where the operator is a registered company:

- any change in the operator's trading name, registered name or registered office address; and
- any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

(b) Where the operator is a corporate body other than a registered company:

- any change in the operator's name or address; and
- any steps taken with a view to the dissolution of the operator.

(c) In any other case:

- the death of any of the named operators (where the operator consists of more than one named individual);
- any change in the operator's name(s) or address(es);and
- any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case them being in a partnership, dissolving the partnership.

## 4.4 Interpretation

4.4.1 In these standard rules the expressions listed below shall have the meaning given.

4.4.2 In these standard rules references to reports and notifications mean written reports and notifications, except when reference is being made to notification being made "without delay", in which case it may be provided by telephone.

*"accident"* means an accident that may result in pollution.

*"anaerobic digestion"* means a process of controlled decomposition of biodegradable materials under managed conditions where free oxygen is absent, at temperatures suitable for naturally occurring mesophilic or thermophilic anaerobe and facultative anaerobe bacteria species, which convert the inputs to a methane-rich biogas and whole digestate.

*"agriculture"* means as defined in The Agriculture Act 1947 including:-"horticulture, fruit growing, seed growing, dairy farming and livestock breeding and keeping, the use of land as grazing land, meadow land, osier land, market gardens and nursery grounds, and the use of land for woodlands where that use is ancillary to the farming of the land for other agricultural purposes, and 'agriculture' shall be constructed accordingly"

*"animal by-products legislation"* refers to animal by-products which are subject to the requirements and controls in Regulation (EC) 1069/2009 (as amended) and its corresponding implementing Regulation (EC)

142/2011 (as amended). These are enforced through The Animal By-Products (Enforcement) (England) Regulations 2011 and The Animal By-Products (Enforcement) (No2) (Wales) Regulations 2011. You will need to add NI and Scot legislation if QP covers the UK.

"*animal by-products*" are defined in Article 3 of Regulation (EC) 1069/2009 as 'entire bodies or parts of animals, products of animal origin or other products obtained from animals that are not intended for human consumption'. This includes catering waste, used cooking oil, former foodstuffs, butcher and slaughterhouse waste, blood, feathers, wool, hides and skins, fallen stock, pet animals, zoo and circus animals, hunt trophies, manure, ova, embryos and semen not intended for breeding purposes.

*"animal waste"* means any waste consisting of animal matter that has not been processed into food for human consumption.

*"Annex I"* means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*"Annex II"* means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*"authorised officer"* means any person authorised by Natural Resources Wales under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in Section 108(4) of that Act.

*"D*" means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*"digestate"* means material resulting from an anaerobic digestion process

"emissions to land" includes emissions to groundwater.

*"emissions of substances not controlled by emission limits"* means emissions of substances to air, water or land from the activities, either from the emission points specified in these standard rules or from other localised or diffuse sources, which are not controlled by an emission limit**.**

*"European Site*" means candidate or Special Area of Conservation and proposed or Special Protection Area in England and Wales, within the meaning of Council Directives 79/409/EEC on the conservation of wild birds and 92/43/EEC on the conservation of natural habitats and of wild flora and fauna and the Conservation of Habitats and Species Regulations 2010. Internationally designated Ramsar sites are dealt with in the same way as European sites as a matter of government policy and for the purpose of these rules will be considered as a European Site.

*"Gas engine effective stack height"* means:

(a) If away from buildings actual stack height is no less than 3 meters.

(b) If attached to or on top of a building the stack tip must be no less than 3 meters above roof ridge.

(c) If there are other buildings within a distance of 5L from the point of discharge, the top of the stack must be no less than 3 meters above the roof ridge of the highest building. L is the lesser of the two measurements of building height and maximum width of the building.

*"groundwater"* means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

*"groundwater source protection zone"* has the meaning given in the document titled "Groundwater Protection: Principles and practice" published by the Environment Agency in 2012.

*"hazardous property"* has the meaning in Annex lll of the Waste Framework Directive.

*"hazardous substance"* means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008.

*"hazardous waste"* has the meaning given in the Hazardous Waste (Wales) Regulations 2005 (as amended).

*"impermeable surface"* means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface, and should be read in conjunction with the term "sealed drainage system" (below).

*"maturation*" means optional period of treatment or storage of separated fibre digestate under predominantly aerobic conditions

*"MCERTS"* means the Environment Agency's Monitoring Certification Scheme.

*"Natural Resources Wales"* means the Natural Resources Body for Wales established by article 3 of the Natural Resources Body for Wales (Establishment) Order 2012. The Natural Resources Body for Wales (Functions) Order 2013 transferred the relevant functions of the Countryside Council for Wales, and functions of the Environment Agency and the Forestry Commission in Wales to the Natural Resources Body for Wales.

*"nearest sensitive receptor"* means the nearest place to the permitted activities where people are likely to be for prolonged periods. This term would therefore apply to dwellings and associated gardens (including farmhouses) and to many types of workplaces. We would not normally regard a place where people are likely to be present for less than 6 hours at one time as being a sensitive receptor. The term does not apply to the operators of the permitted facility, their staff when they are at work or to visitors to the facility, as their health is covered by Health and Safety at Work legislation.

"*Pests*" means Birds, Vermin and Insects.

*"pollution"* means emissions as a result of human activity which may—

(a) be harmful to human health or the quality of the environment,

(b) cause offence to a human sense,

(c) result in damage to material property, or

(d) impair or interfere with amenities and other legitimate uses of the environment.

*"quarter"* means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

*"R*" means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*"sealed drainage system"* in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

(a) no liquid will run off the surface otherwise than via the system;

(b) except where they may lawfully be discharged to foul sewer, all liquids entering the system are collected in a sealed sump.

*"secure storage"* means storage where waste cannot escape and members of the public do not have access to it.

*"site"* means the location where waste storage and treatment activities can take place.

*"specified AQMA*" means an air quality management area within the meaning of the Environment Act 1995 which has been designated due to concerns about oxides of nitrogen.

*"SSSI"* means Site of Special Scientific Interest within the meaning of the Wildlife and Countryside Act 1981 (as amended by the Countryside and Rights of Way Act 2000).

*"waste code"* means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the 'List of Wastes Decision') and in relation to hazardous waste, includes the asterisk.

*"year"* means calendar year commencing on 1st January.

**End of standard rules**