

HARVESTER FARM, GREENHOLME BANK, WROOT, DN9 1EA

CONSTRUCTION AND ENVIRONMENTAL MANAGEMENT PLAN

ON BEHALF OF LOVEDEN ESTATES

Pegasus Group

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1. Introduction

- 1.1 This Construction and Environmental Management Plan has been prepared by Pegasus Group on behalf of Loveden Estates for the installation of a 500kW Anaerobic Digester facility with associated ancillary infrastructure. A plan of the site area is provided in appendix 1.
- 1.2 All works will be completed following the Approved Code of Practice (ACOP) Construction (Design and Management) Regulations 2007.
- 1.3 It is the responsibility of the site agent to ensure all drivers of vehicles delivering to the construction site are aware of the Construction Management Plan. The site agent is the responsible person for enforcing compliance with the plan.

Principal Contractor Information

- 1.4 Biogest will be the principal contractors, overseeing all works on site. Wolf Systems will install the tanks associated with the AD facility. Their Health and Safety methodology and risk assessment can be found in appendix 3.

2. Construction phasing and timing

- 2.1 Prior to commencement of construction works the contractor will provide any residents affected with a mail drop outlining the following items: Key site personnel contact details (including emergency out of hours contact number); explanation of the main site activities; details of long and wide vehicle notification process; Details of the "construction traffic route"; details of the working hours restrictions; and an estimated programme of works.

The following principles will be adhered to:

- 2.2 Heavy construction works and any cement works will be carried out work on the site between 0700hrs-2100hrs Mon-Fri and 0700hrs-1800hrs Sat. Given the considerable distance of the site to non-involved properties, light construction works are proposed to be carried out from 0700hrs-2100hrs Monday-Sunday. There should only be two days on which construction is necessary for a 24 hour period, which is when a large section of concrete will need to be continuously poured. As the start date is not fixed as yet, due to requiring planning permission, the dates on which this will happen cannot be specified. If work needs to be completed outside of these hours agreement will be sought from the Local Authority at least 2 days before such an event.

- 2.3 The expected start date for construction works on the site will not be before 1st October 2015, subject to gaining planning consent.
- 2.4 Any site lighting required will be designed and positioned so as not to cause any impact on local residential amenity. However due to the considerable remoteness of the site with non-involved properties being located in excess of 965m from the site, it is not expected that any lighting would cause a negative impact.
- 2.5 The current programme of works is provided in appendix 2.

3. Construction Traffic

- 3.1 The Construction Traffic Route will be displayed as a plan within the site supervisor's office. The plan should include anticipated swept path movements for differing types of delivery vehicles likely to visit the site.
- 3.2 Any movement restrictions imposed will also be displayed on the construction traffic route.
- 3.3 The applicant will be responsible for liaising with local residents over traffic movements and compliance with this construction management plan.
- 3.4 Although unlikely, if access to and from the site proves difficult, it may be necessary for temporary waiting restrictions along Wroot Road, to be secured by a Traffic Regulation Order. In such circumstances the local residents will be consulted prior to any order being applied for. The site has considerable turning space for a number of HGVs and articulated lorries and therefore it should not be necessary for any vehicles to have to wait on the road prior to delivery. Greenholme Bank although an unclassified road is sufficiently wide enough to accommodate two HGVs or tractors and trailers travelling in opposite directions, to pass. The lane is a regularly used access to the farm's fields and therefore operates to a significant capacity.
- 3.5 Should a wider vehicle need to access the site and another vehicle need to pass the lane has a significant number of passing places in the form of field entrances.
- 3.6 Except in an emergency, all delivery vehicles will access and exit the site via the Wroot Road and Greenholme Bank, from Idle Bank from the A18. Low level signage will be provided after the junction with the A18 for all construction vehicles to follow to Harvester Farm.

- 3.7 For the purposes of safety for contractors within the site, vehicle speeds will be limited to 10mph. A designated banksman will be on site for deliveries to ensure the safe movement of vehicles around the site. All deliveries will be coordinated so as to avoid queuing and overcrowding on and along the route to the site.
- 3.8 HGVs will be able to turn in the farmyard as they do currently for the collection of and delivery of machinery, livestock etc.
- 3.9 No construction vehicles (except management and security staff vehicles) may enter the site prior to 7am nor may they leave the site after 9pm.
- 3.10 In total there will be approximately 200 lorry movements associated with the build of the AD Plant. 150 of these will be associated with the delivery of concrete. As there are elements within the build which are intense periods of concrete pouring it is not possible to average these movements across the build time. Concrete pouring and setting takes place in the first three months of the build. There will be two days each of which require the delivery of 30 loads of concrete.
- 3.11 Therefore on these two days and based upon the average length of working day these works will require approximately 2 deliveries per hour (4 movements). The remaining 90 HGV concrete deliveries will take place over a 3 month period, based on a 7 day working week this equates to one delivery per day.

4. Excavated material

- 4.1 The excavated material will amount to 3000m³. All of this soil will be used as part of the construction process and it is not intended to transport any from the site. If such surplus did occur the soil would be used on Pollybell Farm, which is under the same land ownership.

5. Dust suppression measures

- 5.1 A road sweeping regime and or other measures to ensure the Wroot Road remains clear of debris must be in place and operational throughout the period of construction. This will remove any mud, stones and any other extraneous materials which fall from the wheels and chassis of vehicles leaving the site.
- 5.2 All best practicable means of preventing, reducing and minimising dust will be employed. Any loads of excavated soil will be covered should any be removed from

site. Vehicles will also be limited to 10mph reducing the amount of dust created by vehicles travelling along Greenholme Bank.

6. Site set up for offices and welfare facilities

- 6.1 A temporary site supervisor's office in the form of a container will be provided; within this container a rest room and changing facilities will also be provided. This will be within the red line area of the site.
- 6.2 Toilet facilities will be made available to contractors on Harvester farm.

7. Trees

- 7.1 As set out within the Arboricultural Report temporary tree fencing will be installed during the construction period to protect the roots and trunks of the trees to the east of the site.

8. Temporary fencing

- 8.1 Temporary fencing will be provided around the excavation area for the digester. A site compound will also be provided using temporary fencing for the storage of equipment. This area will be allocated by the principal contractor; some machinery will also be stored in the existing farm buildings through prior agreement with Loveden Estates/Pollybell Farm.
- 8.2 No temporary hard surfacing is proposed as part of these construction works.

9. Contractor Parking

- 9.1 Contractors will be able to park in the farmyard, to the left of the yard entrance, highlighted in yellow on the Working Area drawing provided in appendix 1. This will be clear of vehicle movements entering and exiting the site.

10. Pollution Control

- 10.1 All procedures on site will adhere to EA's Construction Pollution Prevention Guidelines. A toolbox talk will be given to all new starters on site to disseminate

the pollution prevention control measures on site and will be made aware of an Environmental Plan. The Principal contractor will act as Environmental Coordinator.

- 10.2 Prior to any deliveries on site the suggested Pollution prevention Planning- Checklist found in PPG6 will be followed as a basis for understanding and sensitive receptors on or around the site.
- 10.3 There will be limited plant and equipment used on site during the construction period. The construction phase will use an excavator and a crane on site. It is not expected, apart from deliveries, that any other vehicles will regularly access the site. All construction workers' vehicles will be left to the north east of the site.
- 10.4 The excavator will be used to dig the trench in which the pipework will be laid. The excavator will be checked morning and evening in case of any leaks for any repair work to be carried out. Inspections around its working area will be completed at regular intervals.
- 10.5 The crane requires a diesel powered generator to run, this will be monitored for leaks and spillages throughout. At times this will also require refuelling; this will be completed on an impermeable hard surface to avoid contamination. All fuel and oil storage will be on site using the current site methods, which accord with the Control of Pollution (Oil Storage) (England) Regulations 2001.
- 10.6 A banksman will be on site to monitor the arrivals of deliveries and ensure they do not present any pollution risks. All deliveries will be completed on hardstanding close to or on the existing farmyard.
- 10.7 The steel formwork will be sprayed with oil, prior to being installed and the concrete being poured. This oil is a fine spray, which is mineral oil based, and therefore is not considered to be a pollutant. It is sprayed directly onto the formwork sparingly and is common practice for construction of this type to prevent the concrete sticking to the steel formwork.
- 10.8 The insulation is drilled into the concrete using wall plugs and does not require any machinery in order to install it.
- 10.9 All waste across the site, for instance packaging etc, will be disposed of accordingly and where possible recycled. Hazardous materials and liquids, should they be necessary will be contained within a bunded container to ensure that should a leak occur the hazardous substance is contained. Although it is unlikely any hazardous

oils or chemicals will be delivered to the site any containers will be checked on arrival for leaks.

10.10 The excavated concrete will be moved to a covered skip where it will be dealt with by a hire company to remove the waste and recycle it accordingly.

10.11 The quantity of new concrete ordered has been calculated to reduce any waste and any which is leftover will be used for farm maintenance and repair works.

11. Ecology Mitigation

Reptiles

11.1 In order to reduce the risk of killing or injuring grass snake during site clearance work (i.e. committing an offence) it is proposed that the two large piles of straw bales are cleared outside of the hibernation period, under a method statement removal of vegetation to displace any grass snake present into neighbouring suitable habitat. The implementation of this process will require the supervision of a suitably qualified ecologist.

Nesting Birds

11.2 The proposals will require the removal of the buildings and scrub/ruderal habitats. The buildings and scrub habitat have the potential to support breeding birds. The removal of these habitats will be carried out outside of the bird breeding season in order to avoid committing an offence under The Wildlife and Countryside Act 1981 (as amended). As a guide, the bird nesting season is between February and August inclusive; dates vary by species and can be affected by prevailing weather conditions. The majority of species do not start nesting until March and April. If any clearance work has to take place during the bird breeding season, then the habitats will be surveyed for active bird nests by a suitably qualified ecologist before the proposed work is carried out. If active bird nests are present, then work would have to be delayed until nesting activity ceases.

Water Vole

11.3 It is recommended that during construction and operation, that pollution control measures are put in place to ensure there is no indirect impact on the water quality of the drain. If for any reason works are required to the drain, then a water vole

survey is recommended of the drains to be affected during the spring and autumn months to inform the need for any mitigation measures.

APPENDIX 1

Pollybell Farms AD PLANT WORKING AREA

APPENDIX 2
CONSTRUCTION TIMETABLE

APPENDIX 3

CONTRACTOR HEALTH AND SAFETY METHODOLOGY AND RISK ASSESSMENT