

NEW BESPOKE WASTE INSTALLATION ENVIRONMENTAL PERMIT APPLICATION FOR THE ANAEROBIC DIGESTION FACILITY

at

**BRYN QUARRY, GELLIARGWELLT FARM, GELLIGAER
ROAD, GELLIGAER, CAERPHILLY**

SITE CONDITION REPORT

Prepared for:

BRYN POWER LIMITED

Part of the



Document reference: BPL-EPV-2015-SCR

Submitted by:-

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CONTENTS

- 1 Site Data
- 2 Condition of the Land at Permit Issue
- 3 Permitted Activities

1 SITE DATA	
Name of the applicant	Bryn Power Ltd
Activity address	Gelliargwellt Farm Gelliagaer Hengoed Mid Glamorgan CF82 8FY
National grid reference	312673, 196395
Document reference and dates for Site Condition Report at permit application	BPL-EPA-2015-SCR, February 2015
Document references for site plans	Drawing No. BPL-EPA-2015-002 of document reference BPL-EPA-2015-MS

2 CONDITION OF THE LAND AT PERMIT ISSUE

Environmental setting	The site is located east of the A470 which connects Cardiff with Merthyr Tydfil, approximately 20km northwest of Newport. Access to the site is via the site access road off Gelliagaer Road. The land covered by the proposed Environmental Permit application in the west of the site is previously open agricultural land that has been excavated to gain material necessary for the construction of a visibility screening bund which bounds the site to the south. The east of the site has been surfaced with concrete and used by the adjacent IVC as a maturation pad for their composting activities. The area is underlain by the solid geology of the Upper Westphalian Grovesend Formation, predominantly argillaceous, comprising mudstones and siltstones, with well-developed coals; minor lithic ("Pennant") sandstones and locally developed red mudstones in the type area. There are clay rich superficial drift deposits in the area. The geological classification is of a Secondary Aquifer (permeable) - These are permeable layers of rock or drift deposits capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. The application area is not located within a groundwater source protection zone (SPZ) or an area at risk of flooding. The area is not located within a Nitrate Vulnerable Zone (NVZ). There are no active ground or surface water abstractions within 1km of the extension. The nearest natural surface water feature to the application area is approximately 20m to the south east. This water feature is a small unidentified stream that flows to the south before joining with another stream. Nelson Bog, 1km south of the area boundary is a designated Site of Special Scientific Interest (SSSI).
Pollution history	Prior to the excavation material from the area the site remained undeveloped as open land and woodland since at least 1875. Land immediately surrounding the site to the north, west and east has remained undeveloped as agricultural land. In the east of the site has been surfaced with concrete and used by the adjacent IVC as a maturation pad for their composting activities. A HDPE lined leachate lagoon services the existing concrete pad. A trial pit investigation in the west of the site revealed no visual or olfactory evidence of contamination in the application

	area and there is no evidence of vegetative stress. There are not considered to be any potential contaminants of concern associated with the historical use of the site.
Evidence of historic contamination.	It is not considered necessary to obtain site soil sample analyses to assess the background contamination levels. In addition the site does not lie within a groundwater SPZ I or SPZ II.
Baseline soil and groundwater reference data	Given the historic land use on site, no soil and groundwater reference data were collated. As the site has remained in use as undeveloped woodland, there are considered to be no significant levels of contamination on site relating to historical activities.

3 PERMITTED ACTIVITIES	
Permitted activities	Permitted activities applied for: Environmental Permit Application
Non-permitted activities undertaken	None
Document references for: • Plan showing activity layout • Environmental risk assessment	Drawing No. BPL-EPA-2015-MS-002 BPL-EPA-2015-ERA