



**Cyfoeth  
Naturiol**  
Cymru  
**Natural  
Resources**  
Wales

# Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2016

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**Gwynedd Council**

**Ffridd Rasmus Landfill Areas 1 & 3  
Morfa Road  
Harlech  
Gwynedd  
LL46 2UW**

Variation number

**EPR/GP3330BY/V006**

Permit number

**EPR/GP3330BY**

# **Ffridd Rasmus Landfill Areas 1 & 3**

## **Permit number EPR/GP3330BY**

### **Introductory note**

#### **This introductory note does not form a part of the notice**

The following notice gives notice of the variation of an environmental permit.

The purpose of this variation is to include a micro turbine and the utilisation of the landfill gas as a directly associated activity to the landfill.

The schedules specify the changes made to the original permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

**Status log of the permit**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application GP3330BY	Received 08/11/2004	
Request to extend determination	Requested 24/05/2005	Response 06/06/2005
Response to Schedule 4 Notice	Requested 04/07/2005	Response 10/08/2005
Response to request for information	Requested 04/07/2005	Response 21/07/2005
Revised Surface water management plan	Requested 10/08/2005	Plan 09/08/2005
Request to extend determination	Requested 30/09/2005	Response 04/10/2005
Permit GP3330BY determined	31/10/2005	
Variation notice QP3134LY issued (variation & consolidation)	14/03/2007	
Application EPR/GP3330BY/V003	Duly made 22/07/2011	Application for increase in annual throughput to 49,000 tonnes
Additional information received	16/08/2011	Confirmation of landfill stability and management system update
Variation determined EPR/GP3330BY/V003	18/08/2011	Varied permit issued
Agency variation determined EPR/GP3330BY/V004	21/03/2013	Agency variation to implement the changes introduced by IED
Variation Application EPR/GP3330BY/V005 received	01/12/2014	Variation application to place landfill into closure and aftercare
Request for further information	13/03/2014	Request for 6 yearly Hydrogeological Risk Assessment Review
Schedule 5 Notice	26/10/2015	Request for further information relating to Groundwater Compliance Limits
Response to Schedule 5 Notice	26/11/2015	
Variation Application EPR/GP3330BY/V005 issued		Consolidated permit issued to incorporate closure and aftercare requirements
Variation application EPR/GP3330BY/V006 received	30/11/2016	Variation to include a micro turbine and the utilisation of landfill gas as a directly associated activity to the landfill
Schedule 5 Notice	26/01/2017	Request for further information relating to the Air Quality Screening Assessment
Response to Schedule 5	02/02/2017	

Notice

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Variation	DD/MM/YY
EPR/GP3330BY/V006	Y
issued	

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**End of introductory note**

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## Notice of variation

Environmental Permitting (England and Wales) Regulations 2016

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

Permit number  
**EPR/GP3330BY**

issued to:  
**Gwynedd Council** (“the operator”)

whose principal office is

**Gwynedd Council  
Municipal Services  
Cibyn Industrial Estate  
Caernarfon  
LL55 2BD**

to operate a regulated facility at

**Ffridd Rasus Landfill Areas 1 & 3  
Morfa Road  
Harlech  
Gwynedd  
LL46 2UW**

to the extent set out in the schedules.

The notice shall take effect from **[DD/MM/YYYY]**

Signed

Date

**[name of authorised person]**  
Type name, signature not needed

**[DD/MM/YYYY]**

Authorised on behalf of Natural Resources Wales

## Schedule 1 – conditions to be deleted

None

## Schedule 2 – conditions to be amended

The following conditions are amended as a result of the application made by the operator:

Table S1.1, and now reads as follows:

<b>Table S1.1 activities</b>		
<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity</b>
S5.2 A1 (a) The Disposal of waste in a landfill	Landfill for non-hazardous waste (D5 - Specially engineered landfill). Landfill is closed and not accepting waste.	Management and Monitoring of emissions of closed landfill (including leachate and landfill gas)
<b>Directly Associated Activity</b>		
Leachate Management	Storage of leachate	Leachate arising from the Permitted landfill
Flaring of landfill gas	Flaring of landfill gas in an appliance for disposal	Landfill gas arising from the landfill
Water discharges to controlled waters	Discharge of site drainage from Area 1.	Drainage from hardstanding in Area 1 to point of entry to controlled waters.
Fuel storage	Storage of fuel	Fuel for operation of plant and equipment required to operate the landfill.
Gas utilisation	Utilisation of landfill gas for energy recovery	Landfill gas arising from the landfill

Table S1.2, and now reads as follows:

**Table S1.2 Operating techniques**

<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application	The response to questions 2.1, 2.2, 2.3, 2.4, 2.5, 2.7, 2.8, 2.9, and 2.11 of Part B of the Landfill Application Form excluding the answers to the following questions: 2.1.5, 2.2.16, 2.2.17, 2.2.46, 2.2.47, 2.2.49, 2.2.50, 2.2.53 and 2.2.57.	08/11/2004
Pulveriser Application	The responses to all questions in Part B of the Pulveriser Application Form	08/11/2004
Response to Schedule 4 Notice Dated 04/07/2005	All parts of letter and enclosures	10/08/2005
Response to letter requesting further information dated 04/07/2005	All parts of letter and enclosures excluding revised drawings and revised surface water management plan.	21/07/2005
Revised Surface Water Management Plan	All parts of letter and enclosures.	Letter dated 10/08/2005
Letter containing proposals meeting the requirements of improvement condition 1.4.1.1 (original permit) - dated 10/08/2006	All parts including plan (Figure 1)	Received 11/08/2006
Variation application EPR/GP3330BY/V003	Response to form C2, questions 1b, 2b and 5c: 28587N202 technical note and 28587N202 Annex A Non-Technical Summary	22/07/2011
	Email about stability and management systems.	16/08/2011
Closure report	All	01/12/2014
Hydrogeological Risk Assessment Review	All	04/06/2015
Schedule 5 Response	All	26/10/2015
Variation application EPR/GP3330BY/V006	Technical note, specifying that only one of the landfill gas flare and landfill gas micro turbine will be used at any one time	30/11/2016

Table S3.2, and now reads as follows:

**Table S3.2 Point source emissions to air – emission limits and monitoring requirements**

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
Landfill gas flare	Gas utilisation plant	Oxides of Nitrogen	150 mg/m <sup>3</sup>	Hourly mean	Annual	As per LFTGN 05 'Guidance for monitoring enclosed landfill gas flares' unless otherwise agreed in writing with NRW
		CO	50 mg/m <sup>3</sup>			
		Total VOCs	10 mg/m <sup>3</sup>			
Landfill gas micro turbine engine	Gas utilisation plant	Oxides of Nitrogen	500 mg/m <sup>3</sup>	Hourly mean	Annual	As per LFTGN 08 'Guidance for monitoring landfill gas engine emissions'
		CO	1400 mg/m <sup>3</sup>			
		Total VOCs	1000 mg/m <sup>3</sup>			

Table S4.1, and now reads as follows:

**Table S4.1 Reporting of monitoring data**

<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Leachate levels As required by condition 3.5.1	LCP1, LCP2, LCP3, LCP4/2, and LCP4/B	Every 12 months	1 January
Emissions to air Parameters as required by condition 3.5.1	Landfill gas flare  Landfill gas micro turbine engine	Every 12 months	1 January
Emissions to water Parameters as required by condition 3.5.1	SW1, SW2, SW3	Every 12 months	1 January
Groundwater Parameters as required by condition 3.5.1	BH1, BH15, BH18A, BH18B, BH19A, BH19B, BH19C, BH20A, BH20B, BH21A, BH21B, BH23, BH24, BH27-BH36 and NRA3  BH1, BH15, BH18A, BH18B, BH19A, BH19B, BH19C, BH20A, BH20B, BH21A, BH21B, BH23, BH24, BH27-BH36 and NRA3	Every 12 months	1 January
Landfill gas surface emissions Parameters as required by condition 3.5.1	Permanently capped zone	Every 12 months	1 January
Landfill gas lateral migration Parameters as required by condition 3.5.1	BHG01 - BHG04	Every 12 months	1 January
Other Landfill gas monitoring Parameters as required by condition 3.5.1	In waste monitoring boreholes  Landfill surface  Input to LFG utilisation compound  Landfill gas flare	Every 12 months	1 January
Other leachate monitoring Parameters as required by condition 3.5.1	LCP1, LCP2, LCP3, LCP4/2, and LCP4/B	Every 12 months	1 January
Hazardous substance screen	LCP1, LCP2, LCP3, LCP4/2, and LCP4/B	Every 12 months	1 January
Annual review of HRA as required by condition 4.2.1 (b)		Every 12 months	1 January

### Schedule 3 – conditions to be added

None

### Schedule 4 – amended plan (site permits only, where relevant)

Amended plan attached

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