

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Gwynedd Council

Fridd Rasus Landfill (Area 2) and Civic
Amenity Site
Morfa Road
Harlech
Gwynedd
LL46 2UW

Permit number
EPR/PP3294FJ

Fridd Rasus Landfill and Civic Amenity Site

Permit number EPR/PP3294FJ

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows. A final closure report was agreed for Area 2 of Fridd Rasus Landfill in March 2012. This permit requires the operator to operate the closed landfill in accordance with their aftercare proposals. This permit consolidates the conditions of the onsite Civic Amenity Facility with the aftercare conditions of a non-hazardous landfill.

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

Status log of the permit		
Description	Date	Comments
NOW-07-L	13/11/79	Inert Landfill Waste Disposal Licence issued to Meirionydd District Council
NOW-07-L (Now EAWML 37004)	25/04/97	Licence Modified under Waste Management Licensing Regulations
EAWML 37004	31/03/99	Licence Modified
EAWML 37004	04/07/00	Licence Modified
EAWML 37004	28/02/04	Licence Modified
EAWML 37004	09/10/04	Licence Modified
EPR/PP3294FJ (formerly EAWML 37004)	21/10/11	Agency initiated variation under Environmental Permitting Regulations to add all relevant conditions for a Civic amenity Site.
Agency initiated Application EPR/PP3294FJ/V008 (variation and consolidation)	Received 22/05/12	Application to vary and update the permit to modern conditions.
Variation determined EPR/PP3294FJ	21/05/13	Varied and consolidated permit issued in modern condition format.

Other Part A installation permits relating to this facility		
Operator	Permit number	Date of issue
Gwynedd County Council	GP3330BY	31/10/05

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/PP3294FJ

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/PP3294FJ/V008 authorising,

Gwynedd County Council (“the operator”),

of

Council Offices

Shire Hall Street

Caernarfon

Gwynedd

LL46 2UW

to operate waste operations at

Ffridd Rasus Landfill and Civic Amenity Site

Morfa Road

Harlech

Gwynedd

LL46 2UW

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Stephen Attwood	21/05/2013

Authorised on behalf of Natural Resources Wales

Conditions

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 this permit shall have convenient access to a copy of it 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 schedule 1 table S1.1 (the “activities”).

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 at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to the Natural Resources Wales for approval within the period specified, a revision of any plan specified in schedule 1, table S1.2 or otherwise required under this permit, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 2.3.2 For the following activities referenced in schedule 1, table S1.1 (A1- Civic Amenity Site). Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.1; and
- (b) except for household waste accepted from householders, it conforms to the description in the documentation supplied by the producer and holder.

2.4 Technical requirements

WEEE treatment

- 2.4.1 For the following activities referenced in schedule 1, table S1.1 (A1- Civic Amenity Site). The storage (including temporary storage) and treatment of WEEE shall be carried out in accordance with the technical requirements of Annex III of the WEEE Directive.

Hazardous waste storage and treatment

- 2.4.2 For the following activities referenced in schedule 1, table S1.1 (A1- Civic Amenity Site). Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.5 Waste acceptance

- 2.5.1 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). No waste shall be accepted for disposal at the site.
- 2.5.2 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). Wastes shall only be accepted for recovery if:
- (a) they are listed in schedule 2 table S2.2,
- (b) they are not liquid waste (including waste waters but excluding sludge).
- 2.5.3 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). The operator shall visually inspect:
- (a) without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill; and
- (b) waste at the point of deposit;

and shall satisfy itself that it conforms to the basic characterisation documentation submitted by the holder.

- 2.5.4 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.5.5 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.4.
- 2.5.6 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for recovery and of the identity of the producer. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

2.6 Leachate levels

- 2.6.1 The limits for the level of leachate listed in schedule 3 table S3.1 shall not be exceeded.

2.7 Landfill Engineering

- 2.7.1 No construction of landfill infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals and the Natural Resources Wales has confirmed that it is satisfied with the construction proposals.
- 2.7.2 The construction of the landfill infrastructure shall take place only in accordance with the approved construction proposals unless:
 - (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Natural Resources Wales.
- 2.7.3 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the landfill infrastructure.
- 2.7.4 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.6.1 and 2.6.2 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to the Natural Resources Wales as soon as practicable.
- 2.7.5 For the purpose of conditions 2.6.1, the Natural Resources Wales shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:
 - (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.
- 2.7.6 Where the Natural Resources Wales has required further information under condition 2.6.5(b), the Natural Resources Wales shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:
 - (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.

2.8 Closure and aftercare

- 2.8.1 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). The operator shall maintain a closure and aftercare management plan.

2.9 Landfill Gas Management

- 2.9.1 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). The operator shall take appropriate measures, including, but not limited to, those specified in any approved landfill gas management plan, to:
- (a) collect landfill gas; and
 - (b) control the migration of landfill gas.
- 2.9.2 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). The operator shall use the collected landfill gas to produce energy. If the collected landfill gas cannot be used to produce energy, the operator shall flare or otherwise treat the gas.
- 2.8.3 The operator shall:
- (a) if notified by the Natural Resources Wales, submit to the Natural Resources Wales for approval within the period specified, a revised landfill gas management plan;
 - (b) implement the revised landfill gas management plan, from the date of approval, unless otherwise agreed in writing by the Natural Resources Wales.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.2, and S3.3.
- 3.1.2 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). The limits given in Table S3.2 shall not be exceeded, save that compliance with an emission limit in that table shall include incorporation of the uncertainty allowance stated in Natural Resources Wales guidance LFTGN 05 and LFTGN 08.
- 3.1.3 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). There shall be no emission from the activities into groundwater of any hazardous substances contrary to the EP Regulations.
- 3.1.4 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). There shall be no emission from the activities into groundwater of any non-hazardous pollutants so as to cause pollution.
- 3.1.5 The trigger levels for emissions into groundwater for the parameters and monitoring points set out in schedule 3 table S3.3 shall not be exceeded.
- 3.1.6 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). The operator shall submit to the Natural Resources Wales a review of the Hydrogeological Risk Assessment:
- (a) between nine and six months prior to the sixth anniversary of the granting of the permit, and

- (b) between nine and six months prior to every subsequent six years after the sixth anniversary of the granting of the permit.

3.1.7 The limits for landfill gas arising from the facility set out in schedule 3, tables S3.4 and S3.5 shall not be exceeded.

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 condition 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 the Natural Resources Wales that the activities are giving rise to pollution, submit to the 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 the 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 the 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) if notified by the Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to the Natural Resources Wales for approval within the period specified, an odour management plan;
- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the 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 the 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 the Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the 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 the Natural Resources Wales.

3.5 Monitoring

- 3.5.1 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). The operator shall, unless otherwise agreed in writing by the Natural Resources Wales, undertake the monitoring and any other actions for the parameters specified in the following tables in schedule 3 to this permit:
- (a) Leachate specified in tables S3.1 and S3.7;
 - (b) Point source emissions specified in table S3.2;
 - (c) Groundwater specified in table S3.3 and S3.9;
 - (d) Landfill gas specified in table S3.4, S3.5 and S3.6;
 - (e) Surface water specified in table S3.8.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 For the following activities referenced in schedule 1, table S1.1 (A2 – Closed Landfill Site). A topographical survey of the site referenced to ordnance datum shall be carried out:
- (a) annually, and
 - (b) following closure of the landfill or part of the landfill.
- The topographical survey shall be used to produce a plan of a scale adequate to show the surveyed features of the site.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit 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 in writing by the 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 the land and groundwater.
- (iii) The results of groundwater monitoring;
- (iv) Sub-surface landfill gas monitoring;
- (v) Leachate levels, quality and quantities;
- (vi) Landfill gas generation and collection;
- (vii) waste types and quantities;
- (viii) the specification and as built drawings of the basal, sidewall and capping engineering systems.

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

4.2 Reporting

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

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Natural Resources Wales by 31 January (or other date agreed in writing by the Natural Resources Wales) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this facility and any agreed amendments thereto;
- (b) the annual production/treatment set out in schedule 4 table S4.2;
- (d) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
- (e) the volumetric difference (reported in cubic meters) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;
- (f) an assessment of the settlement behavior of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
- (g) a calculation of the remaining capacity (reported in cubic meters) derived from the pre-settlement contours and the most recent topographical survey;

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.3; and

- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 Within one month of the end of each quarter, the operator shall submit to the 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.
- 4.2.5 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Natural Resources Wales, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

- 4.3.1 The 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 the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the 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 the Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The 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:

Where the operator is a registered company:

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

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

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

In any other case:

 - (a) the death of any of the named operators (where the operator consists of more than one named individual);
 - (b) any change in the operator's name(s) or address(es); and
 - (c) 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 of them being in a partnership, dissolving the partnership.

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Natural Resources Wales shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “without delay”, in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities		
Activity reference	Description of activities for waste operations	Limits of activities
A1 (Civic Amenity Site)	D15: Storage pending any of the operations number D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)	Treatment consisting only of manual sorting, separation, shredding or compaction of waste into different components for disposal (no more than 50 tonnes per day) or recovery.
	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	The maximum quantity of hazardous waste oils (in aggregate) that can be accepted stored or treated on site in connection with a disposal operation shall not exceed 10 tonnes per day.
	D14: Repackaging prior to submission to any of the operations number D1 to D13	
	R3: Recycling/reclamation of organic substances which are not used as solvents	The maximum quantity of asbestos waste received at the site shall not exceed 10 tonnes per day.
	R4: Recycling/reclamation of metals and metal compounds	The maximum quantity of asbestos waste stored at the site at any one time.
	R5: Recycling/reclamation of other inorganic compounds	There shall be no treatment of asbestos waste.
A2 (Closed Landfill Site)	D1: Deposit into or on to land D5: Specially engineered landfill (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc.)	No more than a total of 50 tonnes of intact and shredded waste vehicle tyres (waste code 16 01 03) shall be stored at the site.
		Only waste types as specified in Table S2.1 shall be accepted.
		Notwithstanding the waste types specified in table S2.1, wastes with any of the following characteristics shall not be accepted: • Solely or mainly of dusts • Powders or loose fibres
A3	R10: Land treatment resulting in benefit to agriculture or ecological improvement	Recovery of waste (specified within Table 2.2) for restoration above the landfill cap

Table S1.2 Operating techniques

Description	Parts	Date Received
"How to comply with your environmental permit"	All	N/A
EPR 5.07: Clinical Waste	All	N/A
SGN 5.06 Guidance for the recovery and disposal of hazardous and non-hazardous waste	All	N/A
Environmental Management system Ffridd Rasus Household waste recycling centre	All	01/08/11
Landfill Closure report dated 22/03/2012	All	22/03/12

Table S1.4 Annual waste input limits

Category	Limit Tonnes
Waste for restoration	13000

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for Civic Amenity Site.

Maximum quantity	Less than 5000 tonnes per year
Waste code	Description
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 03	end-of-life tyres
16 05	gases in pressure containers and discarded chemicals
16 05 05	gases in pressure containers other than those mentioned in 16 05 04
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	concrete, bricks, tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 06	insulation materials and asbestos-containing construction materials
17 06 05	construction materials containing asbestos ¹
17 08	gypsum-based construction material
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
18	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 01	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 03*	wastes whose collection and disposal is subject to special requirements in order to prevent infection
18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection(for example dressings, plaster casts, linen, disposable clothing, diapers)
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 01	paper and cardboard
20 01 02	Glass
20 01 08	Biodegradable canteen and kitchen waste
20 01 10	Clothes
20 01 11	Textiles
20 01 13*	Solvents
20 01 14*	Acids
20 01 15*	Alkalines
20 01 17*	Photochemicals
20 01 19*	Pesticides

¹ As far as the landfilling of waste is concerned, Member States may decide to postpone the entry into force of this entry until the establishment of appropriate measures for the treatment and disposal of waste from construction material containing asbestos. These measures are to be established according to the procedure referred to in Article 17 of Council Directive 1999/31/EC on the landfill of waste (OJ L 182,16.7.1999,p.1) and shall be adopted by 16 July 2002 at the latest.'

Table S2.1 Permitted waste types and quantities for Civic Amenity Site.

Maximum quantity	Less than 5000 tonnes per year
Waste code	Description
20 01 21*	fluorescent tubes and other mercury-containing waste
20 01 23*	discarded equipment containing chlorofluorocarbons
20 01 25	edible oil and fat
20 01 26*	oil and fat other than those mentioned in 20 01 25
20 01 27*	paint, inks, adhesives and resins containing dangerous substances
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 29*	detergents containing dangerous substances
20 01 30	detergents other than those mentioned in 20 01 29
20 01 31*	cytotoxic and cytostatic medicines
20 01 32	medicines other than those mentioned in 20 01 31
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components (1)
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 37*	wood containing dangerous substances
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	Plastics
20 01 40	Metals
20 01 41	wastes from chimney sweeping
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 02 02	soil and stones
20 02 03	other non-biodegradable wastes
20 03	other municipal wastes
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 07	Bulky waste

A waste is considered as partly stabilised if, after the stabilisation process, dangerous constituents which have not been changed completely into non-dangerous constituents could be released into the environment in the short, middle or long term.

Table S2.2 Permitted waste types and quantities for providing restoration soils

Maximum Quantity	13,000 tonnes for restoration purposes only
Waste code	Description
17	CONSTRUCTION AND DEMOLITION WASTE (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES).
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil.
17 05 04	Soil and stones (excluding soil and stones from contaminated sites)
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

Table S2.2 Permitted waste types and quantities for providing restoration soils

Maximum Quantity 13,000 tonnes for restoration purposes only

Waste code	Description
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20 02	Garden and park wastes (including cemetery waste)
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20 02 02	Soil and stones (only from garden and parks waste)
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Schedule 3 – Emissions and monitoring

Table S3.1 Leachate level limits and monitoring requirements

Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
LW4A, LW5A, LW6A and LW13	1.5 m above cell base	Six Monthly	In accordance with Environment Agency document "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02), unless otherwise agreed in writing with Natural Resources Wales

Table S3.2 Point source emissions to water (other than sewer) – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
SW1 as shown on drawing number HRA02 (August 2005)	Oil and grease	Site drainage from area 1 via interceptor	Non visible	Spot Sample	6 monthly	In accordance with Environment Agency 'Guidance on monitoring of Landfill
SW3 as shown on drawing number HRA02 (August 2005)	Oil and grease	Site drainage from area 1 via interceptor and unnamed watercourse that runs along the northern and western boundaries of the installation	Non visible	Spot Sample	6 monthly	Leachate, Groundwater and Surface Water' (LFTGN02), unless otherwise agreed in writing with Natural resources Wales.

Table S3.3 Trigger levels for emissions into groundwater and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Monitoring frequency	Monitoring standard or method
BH19A	Chloride Ammoniacal Nitrogen Cadmium	250 mg/l 3.6 mg/l 5.5 µg/l	6 Monthly	In accordance with Environment Agency Document 'Guidance on monitoring of Landfill Leachate, Groundwater and Surface Water' (LFTGN02), unless otherwise agreed in writing with Natural Resources Wales.
BH19B	Chloride Ammoniacal Nitrogen Cadmium	34 mg/l 3 mg/l 5.5 µg/l		
BH19C	Chloride Ammoniacal Nitrogen Cadmium	34 mg/l 3 mg/l 5.5 µg/l		
BH20A	Chloride Ammoniacal Nitrogen Cadmium	504 mg/l 5 mg/l 5.5 µg/l		
BH20B	Chloride Ammoniacal Nitrogen Cadmium	504 mg/l 230 mg/l 5.5 µg/l		
BH21A	Chloride Ammoniacal Nitrogen Cadmium	387 mg/l 266 mg/l 5.5 µg/l		
BH21B	Chloride Ammoniacal Nitrogen Cadmium	215 mg/l 69.7 mg/l 5.5 µg/l		
BH29	Chloride Ammoniacal Nitrogen Cadmium	19.8 mg/l 19.8 mg/l 5.5 µg/l		
BH30	Chloride Ammoniacal Nitrogen Cadmium	504 mg/l 266 mg/l 5.5 µg/l		
BH31	Chloride Ammoniacal Nitrogen Cadmium	179 mg/l 102 mg/l 5.5 µg/l		

Table S3.4 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (including units) *	Monitoring frequency	Monitoring standard or method
monitoring borehole BHG03	Methane Carbon Dioxide Oxygen Atmospheric pressure	1 %v/v 5.1 %v/v - -	6 Monthly	Monitoring to be carried out in accordance with Environment Agency document "Guidance on Management of Landfill Gas (LFTGN03), unless otherwise agreed in writing with Natural Resources Wales.
monitoring boreholes BHG04	Methane Carbon Dioxide Oxygen Atmospheric pressure	14.8%v/v 11.1%v/v - -	6 monthly	

Table S3.4 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (including units) *	Monitoring frequency	Monitoring standard or method
Spiker Bar Survey (eastern boundary, 50m spacing)	Methane Carbon Dioxide Oxygen Atmospheric pressure	1 %v/v	6 Monthly	
Spiker Bar Survey (northern boundary 25m spacing)	Methane Carbon Dioxide Oxygen Atmospheric pressure	1 %v/v	6 Monthly	

Table S3.5 Landfill gas from capped surfaces – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (including unit)	Monitoring frequency	Monitoring Standard or method
Permanently capped zone	Average methane flux and total methane emission	Average zone emission rate of 0.001 mg/m ² /second	Annually	In accordance with Environment Agency document LFTGN 07 V2 2010 unless otherwise agreed in writing with Natural Resources Wales.

Table S3.6 Landfill gas – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method
Internal Landfill gas boreholes BH1, BH2, BH3, BH4, BH5, BH6, BH7, BH8, BH8A, BH9, BH10, BH11, BH12, BH13, BH14, BH15, BH16, /bh17, BH18, BH19, BH20, BH21, BH22 and BH23. GW1, GW2, GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, GW11, GW12, GW13 and GW14	Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Differential pressure Meteorological Data	Quarterly	In accordance with Environment Agency Document "Guidance on Management of Landfill Gas" (LFTGN03), unless otherwise agreed in writing with Natural Resources Wales.
Input to LFG Utilisation Compound.	Trace gas analysis	Annually	In accordance with Environment Agency's guidance document "Guidance for monitoring trace components in landfill gas" (LFTGN04), unless otherwise agreed in writing with Natural Resources Wales.

Table S3.6 Landfill gas – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method
Input to LFG Utilisation Compound	Methane Carbon Dioxide Oxygen Gas flow rate % Balance Gas (calculated as the difference between the sum of measured gases and 100%)	Fortnightly	In accordance with Environment Agency's guidance document "Guidance for monitoring trace components in landfill gas" (LFTGN04), unless otherwise agreed in writing with Natural Resources Wales.
Landfill gas flare	Oxides of nitrogen Carbon monoxide Total VOC's Non-methane VOC's	Annually	In accordance with Environment Agency Guidance Document M2 (Version 8.1, December 2011), unless otherwise agreed in writing with Natural Resources Wales.

Table S3.7 Leachate– other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method Other specifications
LW4A, LW5A., LW6A and LW13	Level, Temperature, Cl, pH, EC, NH ₄ , Ca, Mg, K, Na, Alkalinity, TOC, SO ₄ , TON, phenol, COD, BOD.	Six Monthly	In accordance with Environment Agency document "Guidance on monitoring of landfill leachate, Groundwater and Surface Water (LFTGN02), unless otherwise agreed in writing with Natural Resources Wales.
LW4A, LW5A., LW6A and LW13	Cd, CR, Cu, Fe, Pb, Mn, Ni, Zn and Hazardous Substances	Annually	Appendix 6 of H1 – Annex J3 "Additional guidance for hydrogeological risk assessments for landfills and the derivation of groundwater control levels and compliance limits"

Table S3.8 Surface water – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method
SW1, SW2, SW3	Cl, COD, DO, EC, NH ₄ , pH, Temperature	6-monthly	In accordance with Environment Agency Document 'Guidance on monitoring of Landfill Leachate, Groundwater and Surface Water' (LFTGN02), unless otherwise agreed in writing with Natural resources Wales.

Table S3.9 Groundwater – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method Other specifications
BH1, BH15, BH18 (A&B), BH19 (A, B & C), BH20 (A&B), BH21 (A&B), BH23, BH24, BH27-BH36 and NRA3.	Water level, DO, pH, EC, NH4, Cl, Ca, Mg, K, Na, Alkalinity, TOC, SO4, TON, Phenol and Cd.	Quarterly	Monitoring to be carried out in accordance with Environment Agency Document 'Guidance on monitoring of Landfill Leachate, Groundwater and Surface Water' (LFTGN02), unless otherwise agreed in writing with Natural Resources Wales.
	Cr, Cu, Fe, Pb, Mn, Ni and Zn.	Annually	

Schedule 4 - Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference		Period begins
Leachate levels As required by condition 3.5.1	LW4A, LW5A, LW6A and LW13	Every 6 months	1 June
Emissions to air Parameters as required by condition 3.5.1	Landfill Gas Flare	Every 12 months	1 June
Emissions to water Parameters as required by condition 3.5.1	SW1, SW3	Every 6 months	1 June
Groundwater Parameters as required by condition 3.5.1	BH19A, B & C BH20 A & B BH21 A & B BH29, BH30, BH31	Every 6 months	01/06
Landfill gas surface emissions Parameters as required by condition 3.5.1	BHG03, BHG04, Spike Bar Surveys	Every 6 months	01/06, 01/12
Other Landfill gas monitoring Parameters as required by condition 3.5.1	Landfill gas boreholes BH1, BH2, BH3, BH4, BH5, BH6, BH7, BH8, BH8A, BH9, BH10, BH11, BH12, BH13, BH14, BH15, BH16, /bh17, BH18, BH19, BH20, BH21, BH22 and BH23. GW1, GW2, GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, GW11, GW12, GW13 and GW14	Every 3 months	01/03, 01/06 01/09, 01/12
Other leachate monitoring Parameters as required by condition 3.5.1	LW4A, LW5A., LW6A and LW13	Every 6 months	01/06, 01/12
Hazardous substance Screen		Every 12 months	01/12
Other surface water monitoring Parameters as required by condition 3.5.1	SW1, SW2, SW3	Every 6 months	01/06, 01/12

Table S4.2: Annual production/treatment

Leachate:	Cubic metres/year
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Disposed of off-site;
 Disposed of to any onsite effluent treatment plant;
 Recirculated into the waste mass.

Surface water and/ or groundwater:	Cubic metres/year
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Disposed of off-site;
 Disposed of to any onsite effluent treatment plant.

Landfill gas:	Normalised cubic metres/year
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combustion in flares;
 combustion in gas engines;
 Other methods of gas utilisation.

Table S4.3 Reporting forms

Media/parameter	Reporting Format	Date of Form
Leachate	Form leachate 1 or other reporting format to be agreed in writing with the Natural Resources Wales	21/05/13
Air	Form Air 1 or other reporting format to be agreed in writing with the Natural Resources Wales	21/05/13
Controlled water	Form water 1 or other reporting format to be agreed in writing with the Natural Resources Wales	21/05/13
Groundwater	Form groundwater 1 or other reporting format to be agreed in writing with the Natural Resources Wales	21/05/13
Landfill gas	Form Gas 1 or other reporting format to be agreed in writing with the Natural Resources Wales	21/05/13
Waste Return	Waste Return Form RATS2E	21/05/13
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Natural Resources Wales	21/05/13

Schedule 5 - Notification

This page outlines the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for 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

To be notified within 24 hours of detection

Date and Time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B to be supplied as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

“accident” means an accident that may result in pollution.

“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.

“annually” means once every year.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

authorised officer” means any person authorised by the 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.

“Background concentration” means such concentration of that substance as is present in:

- For emissions to surface water, the surface water quality up-gradient of the site; or
- For emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge; or
- For emissions of landfill gas, the ground or air outside the site and not attributable to the site.

“controlled substances” means chlorofluorocarbons, other fully halogenated chlorofluorocarbons, halons, carbon tetrachloride, 1,1,1-trichloroethane, methyl bromide, hydrobromofluorocarbons and hydrochlorofluorocarbons listed in Annex I of Regulation (EC) No 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer, including their isomers, whether alone or in a mixture, and whether they are virgin, recovered, recycled or reclaimed. This definition shall not cover any controlled substance which is in a manufactured product other than a container used for the transportation or storage of that substance, or insignificant quantities of any controlled substance, originating from inadvertent or coincidental production during a manufacturing process, from unreacted feedstock, or from use as a processing agent which is present in chemical substances as trace impurities, or that is emitted during product manufacture or handling.

“Construction Proposals”; for landfill infrastructure, means the design, specification of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the landfill infrastructure.

“CQA Validation Report” means the final “as built” construction and engineering details of the Landfill Infrastructure. It must provide a comprehensive record of the construction and must include, where relevant:

- The results of all testing required by the CQA programme - this must include the records of any failed tests with a written explanation, details of the remedial action taken, referenced to the appropriate secondary testing;
- Plans showing the location of all tests;
- “As-built” plans and sections of the works;
- Copies of the site engineer's daily records;

- Records of any problems or non-compliance and the solution applied;
- Any other site specific information considered relevant to proving the integrity of the Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the construction proposals.

“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.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“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 schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit..

“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.

“hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

“Landfill Infrastructure” means any specified element of the:

- surface water drainage systems;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;

within the Site.

“Liquids” means any liquid other than leachate within the landfill.

“LFTGN 05” means Natural Resources Wales Guidance for monitoring enclosed landfill gas flares.

“LFTGN 07” means Natural Resources Wales Guidance on monitoring landfill gas surface emissions.

“LFTGN 08” means Natural Resources Wales Guidance for monitoring landfill gas engines.

“M2” means Natural Resources Wales Guidance Monitoring of stack emissions to air.

“New Cell” means any new cell, part of a cell or other similar new area of the site where waste deposit is to commence after issue of this permit and can comprise:

- groundwater under-drainage system;
- permanent geophysical leak location system;
- leak detection layer;
- sub-grade;
- barriers;
- liners;
- leachate collection system;

- leachate abstraction system;
- separation bund/layer;
- cell or area surface water drainage system;
- side wall subgrade and containment systems;

for the New Cell.

“No impact” means that the change made to the construction process will not alter the agreed design criteria, specification or performance in a way that has a negative effect.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“ozone-depleting substances” *“ODS”* means “controlled substances” contained in refrigeration, air-conditioning and heat pump equipment, equipment containing solvents, fire protection systems and fire extinguishers.

“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.

“Review of the Hydrogeological Risk Assessment” means a written review of the hydrogeological risk assessment included in the Application, together with any other parts of the Application that addressed the requirements of the EP Regulations. The review shall assess whether the activities of disposal or tipping for the purpose of disposal of waste authorised by the permit continue to meet the requirements of the EP Regulations.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or *“WFD”* means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

“WEEE” means waste electrical and electronic equipment.

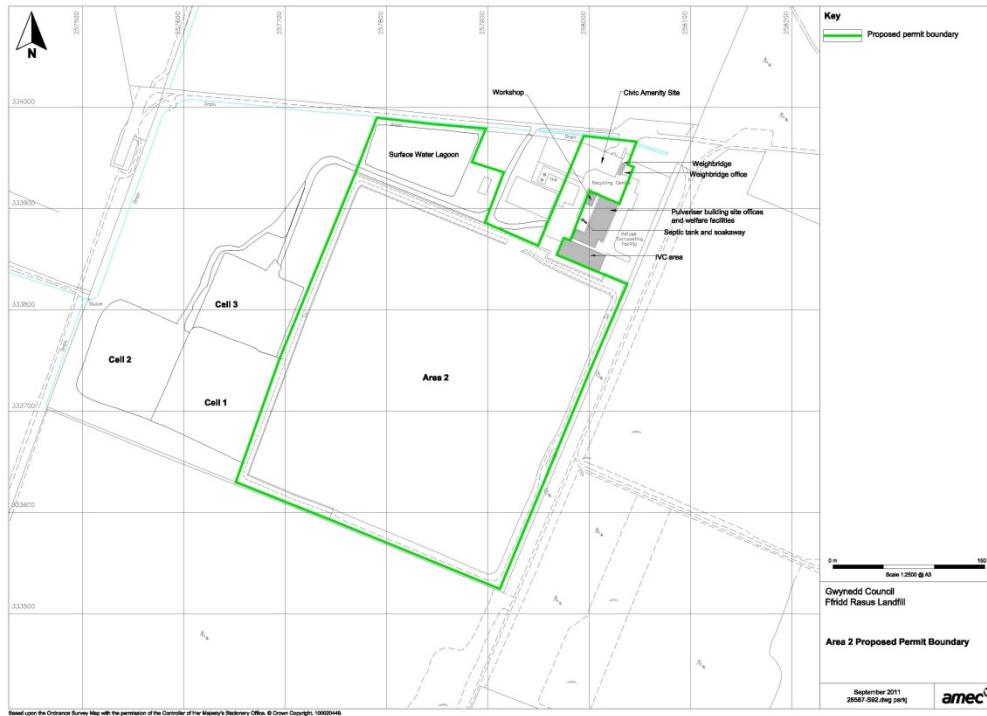
“WEEE Directive” means Directive 2002/96/EC of the European Parliament and of the Council of 27th January 2003 on waste electrical and electronic equipment (WEEE) as amended by Directive 2003/108/EC of the European Parliament and of the Council of 8th December 2003 on waste electrical and electronic equipment (WEEE).

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means the standards included in Natural Resources Wales Guidance for Monitoring Enclosed Landfill Gas Flares LFTGN 05 or Guidance for Monitoring Landfill Gas Engine Emissions LFTGN 08.

“year” means calendar year ending 31 December.

Schedule 7- Site plan



END OF PERMIT

Permit Number: PP3294FJ Operator: Gwynedd County Council

Facility: Fridd Rasmus Landfill (Area 2) Form Number: Water1/ 21/05/13

Reporting of emissions to water (other than to sewer) and land for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed
(Authorised to sign as representative of Operator)

Date.....

Permit Number: PP3294FJ

Operator: Gwynedd County Council

Facility: Fridd Rasus Landfill (Area 2)

Form Number: Leachate 1 / 21/05/13

Reporting of leachate monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Compliance limit	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed
(Authorised to sign as representative of Operator)

Date.....

Permit Number: PP3294FJ

Operator: Gwynedd County Council

Facility: Fridd Rasus Landfill

Form Number: Groundwater1 / 21/05/13

Reporting of groundwater monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

Permit Number: PP3294FJ

Operator: Gwynedd County Council

Facility: Fridd Rasus Landfill

Form Number: LFG1 / 21/05/13

Reporting of landfill gas monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Compliance limit	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed
(Authorised to sign as representative of Operator)

Date.....