

Permit with introductory note:
Pollution Prevention and Control (Industrial Emissions) Regulations (NI) 2013

Variation notice with introductory note

The Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013

Mullaghglass Landfill Site

Mullaghglass Quarry

26 Mullaghglass Road

Lisburn

BT28 3TG

Variation notice number
P0107/05A/V6

Permit number P0107/05A



An Agency within the Department of the
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Northern Ireland
Environment
Agency

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Pollution Prevention and Control (Industrial Emissions) Regulations (NI) 2013

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Permit with introductory note:

Pollution Prevention and Control (Industrial Emissions) Regulations (NI) 2013

Mullaghglass Landfill Site Permit Number P0107/05A/V6

Introductory note

This introductory note does not form a part of the Permit

The following Permit variation is issued under Regulation 19 of the Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 ("the Regulations") to operate an installation carrying out one or more of the activities listed in Part 1 to Schedule 1 of those Regulations, to the extent authorised by the permit.

The Permit includes conditions that must be complied with. It should be noted that aspects of the operation of the installation which are not regulated by those conditions are subject to the condition implied by Regulation 12(9) of the Regulations, that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

The enforcing authority for part A installations in Northern Ireland is the Chief Inspector. Under Regulation 8(4) any function of the Chief Inspector may be delegated to any other Inspector appointed by the Department of the Environment and references to the Chief Inspector should be interpreted accordingly.

The Chief Inspector has assigned responsibility for specified waste management activities to The Regulation Unit.

A non-technical description of the Installation is given in the Application, but the main features of the Installation are as follows.

Mullaghglass is a closed landfill site located at Mullaghglass Quarry, 26 Mullaghglass Road, Lisburn. It closed to the acceptance of non-hazardous waste on 30th November 2022. The operator is Alpha Resource Management Ltd, NI059764. The landfill was designed on the principal of fully engineered containment. Landfill gas is managed by active extraction to a gas utilisation plant operated by Renewable Power Systems Ltd at neighbouring Aughrim Landfill but a backup flare remains onsite. Leachate is collected and routed to the leachate treatment system where it is treated prior to tankering off-site for disposal.

The purpose of this variation is to amend schedule 1 to reduce the tonnage of waste accepted at the site; update schedule 2 to remove redundant monitoring boreholes/ locations and to illustrate the two surface water sampling points; amend Schedule 3 to remove all non-hazardous EWC codes but retain inert waste codes to enable repairs to the cap, if required; update schedule 4 monitoring requirements and amend Schedule 5 with new timeframes for the submission of environmental monitoring reports.

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Status Log of the Permit		
Detail	Date	Response Date
PPC Application	Received 22/11/2005	
Schedule 4 Notice issued	Request 27/02/2006	Received 14/04/2006
Schedule 4 Notice issued	Request 07/07/2006	Received 11/08/2006
Draft permit issued for consultation	31/08/2006	29/09/2006
Permit Determined	09/11/06	
Permit Variation P0107/05A/V1	21/07/10	
Permit Variation 2 application	07/07/15	
Permit Variation determined	23/09/15	
Permit Variation 3 application	26/09/19	
Permit Variation 3 determined	23/12/19	
Permit Variation 4 application	14/06/2021	
Permit Variation 4 determined	12/02/2021	
Permit Variation 5 application	27/6/2022	
Schedule 7 Notice issued	01/09/2022	Received 03/10/2022
Permit Variation 5 determined	29/11/2022	
Permit Variation 6 application	29/11/2024	
Schedule 7 Notice issued	16/01/2025	Received 22/01/2025
Permit Variation 6 Determined	17 th April 2025	

Other PPC Permits relating to this installation

Operator	Permit Number	Date of Issue
None		

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation

Holder	Reference	Date of	Fully or Partially Superseded
Whitemountain Quarries	PO107/05A	09/11/06	Fully superseded by PO107/05A/V1
Alpha Resource Management	P0107/05A/V1	21/07/10	Fully superseded by P0107/05A/V2

Other existing Licences/Authorisations/Registrations relating to this site**Holder****Reference Number****Date of issue**

None

Permit with introductory note:

Pollution Prevention and Control (Industrial Emissions) Regulations (NI) 2013

Talking to us

This permit is issued by the Regulation Unit of the Northern Ireland Environment Agency. We can be contacted on the telephone using the telephone number 028 90569814.

The Operator should use the Emergency Hotline telephone number (0800 80 70 60) to notify of any accident which has caused or has the potential to cause water pollution.

Confidentiality

The Permit requires the Operator to provide information to the Chief Inspector. We will place the information onto the public registers in accordance with the requirements of the Regulations. If the Operator considers that any information provided is commercially confidential, they may apply to the Chief Inspector to have such information withheld from the register as provided in the Regulations. To enable us to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Variations to the permit

This Permit may be varied in the future. The Status Log within the Introductory Note to any such variation will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the permit

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made. For the applicant to be successful, they would have to be able to demonstrate to the Chief Inspector, in accordance with Regulation 22, where applicable, of the Regulations, that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the permit or part of the permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit must be made by both the existing and proposed holders, in accordance with Regulation 20 of the Regulations. A transfer will be allowed unless the Chief Inspector considers that the proposed holder will not be the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit. If the Permit authorises the carrying out of a specified waste management activity, then there is a further requirement that the transferee is considered to be a "fit and proper person" to carry out that activity.

End of Introductory Note

Permit No: P0107/05A/V6

Effective date:

Permit with introductory note:
Pollution Prevention and Control (Industrial Emissions) Regulations (NI) 2013

Permit
Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 Landfill Regulations (Northern Ireland) 2003

Variation Notice

Variation Notice Number
P0107/05A/V6

The Chief Inspector in exercise of his powers under Regulation 19 of the Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013; and the Landfill Regulations (Northern Ireland) 2003, hereby varies Permit Number P107/05A/V5 as held by

Alpha Resource Management Ltd. (“the Operator”),
Whose Registered Office is
5 Blackwater Road
Mallusk
Newtownabbey
Antrim
BT36 4TZ
Company Registration Number: NI 059764

to operate an installation at **Mullaghglass**
Landfill
26 Mullaghglass Road
Lisburn
County Antrim
BT28 3TG

to the extent authorised by and subject to the conditions of this Permit. This Permit shall take effect from 17th April 2025

Signed	Date
	17 th April 2025



Authorised to sign on behalf of the Chief Inspector

SCHEDULE TO NOTICE

1 – CONDITIONS TO BE DELETED

All existing conditions for permit P0107/05A/V5.

2 – CONDITIONS TO BE ADDED

The following conditions and schedules to be added.

PERMIT CONDITIONS

1. Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities in accordance with a Site Specific Management Plan (The Management Plan), agreed by the Chief Inspector, that shall detail the operational procedures to be used to manage the Activities at the Site.

The Management Plan shall detail measures to prevent emissions to soil and groundwater from non-landfill activities in addition to landfill activities.

The Management Plan shall include (but not limited to) the following:

- Site infrastructure
- Site management and control procedures
- Waste acceptance procedures
- Waste rejection and quarantine procedures
- Waste deposit procedures
- Emergency/incident procedures
- Environmental monitoring techniques and procedures
- Odour and odorous waste monitoring and management procedures
- Noise and vibration monitoring and management procedures
- Leachate monitoring and management procedures
- Surface water monitoring and management procedures
- Landfill gas monitoring, flaring/utilisation, and management procedures
- Dusts and particulates monitoring and management procedures
- Birds, vermin, and insects monitoring and management procedures
- Site closure management procedures

- 1.1.2 The Activities shall, subject to the conditions of this permit, be managed and operated:

- (a) using the techniques and in the manner described in the Management Plan provided and agreed in accordance with condition 1.1.1, unless otherwise agreed in writing by the Chief Inspector; and
- (b) by sufficient persons who are technically competent in respect of the responsibilities to be undertaken by them in connection with the operation of the Activities.

- 1.1.3 Any proposed changes by the Operator to the Management Plan shall be submitted in writing by Recorded Delivery to the Chief Inspector. The Management Plan shall only be amended in accordance with the proposed change(s) if, and to the extent that, either;

- (a) the Chief Inspector gives written consent to the proposed change(s), or
- (b) the Chief Inspector has not indicated in writing within 28 days of the proposed change(s) that the proposed change(s) are rejected.

- 1.1.4 Records demonstrating compliance with condition 1.1.2 shall be maintained.

- 1.1.5 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.

- 1.1.6 The Operator shall undertake a daily inspection of the site for compliance with the conditions of this Permit. The inspection shall include, but not be limited to:

- (a) Site boundary and security measures;

- (b) Site infrastructure;
- (c) Fugitive emissions;
- (d) Gas,
- (e) Odour;
- (f) Noise and vibration;
- (g) Birds, vermin and insects;
- (h) Litter.

1.1.7 A record shall be kept of each inspection undertaken in accordance with condition 1.1.6, including the following details:

- (a) Date and start and finish times of inspection;
- (b) Person(s) carrying out the inspection;
- (c) Areas of non-compliance identified;
- (d) Actions taken or to be taken to rectify any non-compliance, including timescales.

1.2 Breach of permit conditions

1.2.1 In the event that a breach of any permit condition poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the Operator shall immediately suspend the operation of the installation or the relevant part of it until compliance with permit conditions has been restored.

1.2.2 In the event of a breach of any permit condition, the Operator shall inform the Chief Inspector immediately using the means referred to in condition 5.3.2 and take the measures necessary to ensure that compliance is restored within the shortest possible time.

1.3 Accidents that may cause pollution

1.3.1 The Operator shall:

- (a) maintain and implement an accident management plan;
- (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
- (c) make any appropriate changes to the plan identified by a review.

1.3.2 The Operator shall inform the Chief Inspector, immediately, of any accident which has caused, is causing or has the potential to cause significant pollution and to immediately take all appropriate measures to limit the environmental consequences and to prevent further possible accidents.

1.4 Finance

- 1.4.1 The Operator shall make adequate financial provision which has been agreed with the Chief Inspector. This financial provision shall be maintained by the Operator throughout the subsistence of this Permit and the Operator shall produce evidence of such provision whenever required by the Chief Inspector.
- 1.4.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:
- (a) the costs of setting up and operating the landfill;
 - (b) the costs of the financial provision required by condition 1.4.1; and
 - (c) the estimated costs for the closure and aftercare of the landfill.

1.5 Energy efficiency

- 1.5.1 The Operator shall:
- (a) Review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the Activities; and
 - (b) Implement any appropriate measures identified by a review.

1.6 Avoidance, recovery and disposal of wastes produced by the activities

- 1.6.1 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.
- 1.6.2 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.

1.7 Site security

- 1.7.1 Site security measures shall prevent unauthorised access to the Site, as far as practicable.

1.8 Multiple operator installations

- 1.8.1 This is not a multi operator installation.

2. Operations

2.1 Permitted activities

- 2.1.1 The Operator is authorised to carry out the activities specified in Schedule 1 Table S1.1 (the “Activities”) at the Permitted Installation to which this permit applies.

2.2 The site

- 2.2.1 The Activities shall not extend beyond the site of the Permitted Installation (“the Site”), being the land shown edged in Red on the Site Plan in Schedule 2 to this Permit.

2.3 Off-site conditions

- 2.3.1 There are no off-site conditions.

2.4 Commencement

No conditions apply.

2.5 Pre-operation Conditions

- 2.5.1 There are no pre-operating conditions.

2.6 Improvement programme

- 2.6.1 There are no improvement conditions.

2.7 Engineering

- 2.7.1 The restoration of the Landfill site shall take place only in accordance with the Site Closure Plan.

2.8 Waste acceptance

- 2.8.1 Wastes shall only be accepted for disposal if they are listed in Schedule 3,

- 2.8.2 The deposit of gypsum and other high sulphate bearing waste shall be prevented.

- 2.8.3 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.

- 2.8.4 Where the Operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.

- 2.8.5 The Operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.8.6 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in Schedule 1 Table S1.4.
- 2.8.7 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 disposal or recovery and of the identity of the producer. Any information regarded by the Operator as commercially confidential shall be clearly identified in the record.
- 2.8.8 Where acceptance of waste is refused, the Operator shall notify the Chief Inspector by telephone immediately and shall notify the Chief Inspector in writing within seven days of refusing acceptance.

2.9 Leachate levels and control

- 2.9.1 The limits for the level of leachate listed in Table S4.1 of Schedule 4 shall not be exceeded.

2.10 Closure, aftercare and decommissioning

- 2.10.1 The Operator shall maintain and operate the Activities to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.
- 2.10.2 The Operator shall maintain a Site Closure Plan which demonstrates how the Activities can be decommissioned to avoid any pollution risk and return the site of operation to a satisfactory state.
- 2.10.3 The Operator shall carry out and record a review of the Site Closure Plan at least every 4 years.
- 2.10.4 The Site Closure Plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the Activities or part thereof.

2.11 System for the protection of soil and groundwater

- 2.11.1 The Operator shall carry out monitoring of the condition of groundwater and soil and compare with the measurements in the baseline report (or previous application site report), at least every 5 years for groundwater and every 10 years for soil unless such monitoring is based on a systematic appraisal of the risk of contamination.
- 2.11.2 Where the Operator has made an acceptable case that a baseline report is not required at the application stage, a review of this conclusion is required at least every 5 years.

3. Site Infrastructure

3.1 Site access

- 3.1.1 All roads within the Permitted Installation shall be adequate in both width and bearing capacity for all vehicles that may be required to use that particular road. All such roads shall be free of obstacles at all times that the site is open for the reception of waste. All such roads shall be maintained to ensure the safe passage of vehicles and in particular shall be free from mud and other debris, ruts,

potholes and ponded surface water. Wheel cleaning facilities shall be installed and maintained at the site.

3.2 Noticeboards

3.2.1 A notice board of durable material and finish shall be displayed at the entrance to the Site. The notice board shall contain the following information, which shall be legible from outwith the boundary of the Site:-

- the Site name, address and PPC number;
- the Site Operator's name;
- the Site opening times;
- emergency contact telephone number for the Operator; and
- telephone number of the NIEA Regulation Unit.

3.3 Liquid storage

3.3.1 All containers used to store any liquids whose emission to water or land could cause pollution within the Permitted Installation shall be located in a bund. The minimum capacity of any bund shall be either 110% of the capacity of the largest container, or 25% of the total capacity of all the containers within the bund, which-ever is the greater. In the event of any containers being connected to one another, they shall be treated as one container.

3.3.2 The bunded area(s) and containers shall conform to the following standards:

- (a) the walls and base of the bund shall be impermeable;
- (b) the base shall drain to a sump;
- (c) when not in use all taps, valves, pipes and every part of each container shall be located within the area served by the bund;
- (d) vent pipes shall be directed downwards into the bund;
- (e) no part of the bund shall be within 10 metres of a watercourse; and
- (f) all containers with a design capacity above 1000 litres shall be fitted with a device for continuously monitoring the level of the contents.

3.3.3 The accumulation of rainwater, spillages or leaks shall be managed to ensure that at least 95% of the capacity of the bund is free of liquid.

3.4 Netting

3.4.1 Netting is not required.

4. Emissions and monitoring

4.1 Emissions to water, air or land

4.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in Tables S4.5 and S4.6 of Schedule 4.

- 4.1.2 The limits given in that Schedule shall not be exceeded, save that compliance with an emission limit shall include incorporation of the uncertainty allowance stated in Environment Agency guidance documents.

4.2 Emissions to groundwater

- 4.2.1 There shall be no emission from the Activities into groundwater of any Hazardous Substance (as defined by the Groundwater Regulations) contrary to those Regulations.
- 4.2.2 There shall be no emission from the Activities into groundwater of any Non Hazardous Pollutants (as defined in the Groundwater Regulations) so as to cause pollution (as defined in those Regulations).
- 4.2.3 Where the results of any groundwater monitoring exceed any of the trigger levels set out in Table S4.3 of Schedule 4 then the following actions shall be taken:
- (a) The Chief Inspector shall be informed forthwith;
 - (b) A repeat sample shall be taken, and submitted for analysis, within 7 days;
 - (c) Within 14 days of the repeat sample the Operator shall submit a report to the Chief Inspector, in writing, detailing the breach of the trigger level and proposed remedial actions.
- 4.2.4 The Operator shall evaluate all groundwater monitoring results against control levels following receipt of results. Where the evaluation of the monitoring data shows any parameter exceeding a control level, the Operator shall report this to the Chief Inspector, in writing, within 28 days.
- 4.2.5 The Operator shall submit to the Chief Inspector a review of the Hydrogeological Risk Assessment:
- (a) between 9 and 6 months prior to the fourth anniversary of the granting of the original Permit, and
 - (b) between 9 and 6 months prior to every subsequent 4 years after the fourth anniversary of the granting of the Permit, unless otherwise agreed in writing with the Chief Inspector.

4.3 Fugitive emissions of substances

- 4.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The Operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 4.3.2 Litter or mud arising from the Activities shall not cause pollution. The Operator shall not be taken to have breached this condition if appropriate measures have been used to prevent or where that is not practicable to minimise, the litter and mud.
- 4.3.3 Litter or mud arising from the Activities shall be cleared from affected areas outside the Site as soon as practicable.
- 4.3.4 The measured values from the monitoring specified in Tables S4.8, S4.9 and S4.10 of Schedule 4 shall not exceed the limits for the parameter(s) at the monitoring point(s) listed in that schedule.

4.4 Odour

- 4.4.1 Emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an Authorised Officer of the Chief Inspector, 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 odour.

4.5 Noise and vibration

- 4.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause annoyance outside the Site, as perceived by an Authorised Officer of the Chief Inspector, unless the Operator has used appropriate measures to prevent or where that is not practicable to minimise the noise and vibration.

4.6 Birds, Vermin and insects

- 4.6.1 All operations on the Site shall be carried out so as to prevent or minimise the nuisance and hazards arising from the Site in respect of the presence of birds, vermin and insects. In addition to the daily inspection required by Condition 1.1.6, the Site shall be inspected for the presence of birds, vermin and insects at least once every three months by a person suitably qualified and experienced in pest control and a treatment programme shall be immediately undertaken to deal with any identified infestation.

4.7 Monitoring

- 4.7.1 The Operator shall, unless otherwise agreed in writing by the Chief Inspector, undertake monitoring for the parameters, at the locations and at not less than the frequencies specified in the following tables in Schedule 4 to this Permit:
- (a) Leachate specified in Tables S4.1 and S4.2;
 - (b) Point source emissions specified in Table S4.6, S4.8 and S4.9;
 - (c) Groundwater specified in Tables S4.3 and S4.4;
 - (d) Landfill gas specified in Tables S4.7;
 - (e) Surface water specified in Table S4.5.
 - (f) Particulate matter specified in Table S4.10.
- 4.7.2 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.
- 4.7.3 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.

5. Information

5.1 Records

- 5.1.1 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 Chief Inspector, 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) the results of groundwater monitoring;
 - (ii) the results of soil and groundwater monitoring referred to in condition 2.11.1;
 - (iii) ambient air monitoring for landfill gas and particulate matter;
 - (iv) sub-surface landfill gas monitoring;
 - (v) leachate levels, quality and quantities;
 - (vi) landfill gas generation and collection;
 - (vii) waste types and quantities;
 - (viii) topographical surveys; and
 - (ix) the specification and as built drawings of the basal, sidewall and capping engineering systems.
- 5.1.2. Any records required to be made by this permit shall be supplied to the Chief Inspector within 14 days where the records have been requested in writing by the Agency.
- 5.1.3 All records required to be held by this permit shall be held on site and shall be available for inspection by the Chief Inspector at any reasonable time.

5.2 Reporting

- 5.2.1 A report or reports on the performance of the Activities over the previous year shall be submitted to the Chief Inspector by 31 January (or other date agreed in writing by the Chief Inspector) 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 with the Application;
 - (b) where the Operator's Management Plan encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
 - (c) the energy consumed at the Site, reported in the format set out in Schedule 5 Table S5.3;
 - (d) the water consumed at the Site, reported in the format set out in Schedule 5 Table S5.3;
 - (e) the annual production/treatment set out in Schedule 5 Table S5.2;
 - (f) details of any contamination or decontamination of the Site which has occurred;
 - (g) the topographical surveys required by condition 4.7.3 other than those submitted as part of a CQA validation report;

- (h) an assessment of the settlement behaviour 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;
 - (i) the compliance testing undertaken in the period.
- 5.2.2 Within 28 days of the end of the reporting period the Operator shall, unless otherwise agreed in writing by the Chief Inspector, 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 Table S5.1 of Schedule 5;
 - (b) for the reporting periods specified in Table S5.1 of Schedule 5.
- 5.2.3 A summary report of the waste types and quantities accepted and removed from the site shall be made for each quarter. It shall be submitted to the Chief Inspector within one month of the end of the quarter and shall be in the format required by the Chief Inspector.
- 5.2.4 The Operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Chief Inspector, within 6 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.
- 5.2.5 The results of reviews and any changes made to soil and groundwater monitoring referred to in condition 2.11.2 shall be reported to the Chief Inspector, within 1 month of the review or change.
- 5.2.6 The Operator shall complete a Pollution Inventory Reporting Form in respect of the Permitted Installation during the previous year in accordance with the instructions and definitions included in the Form and submit the completed Form to the Chief Inspector by 31 January each year.

5.3 Notifications

- 5.3.1 The Chief Inspector shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the Permit;
 - (c) the breach of a permit condition; and
 - (d) any significant adverse environmental effects.
- 5.3.2 Any information provided under condition 5.3.1 shall be confirmed by sending the information listed in Schedule 6 to this Permit within the time period specified in that schedule.
- 5.3.3 Prior written notification shall be given to the Chief Inspector of the following events and in the specified timescales:
- (a) as soon as practicable prior to the permanent cessation of any of the permitted activities;
- 5.3.4 Where the Chief Inspector has requested in writing that he shall be notified when the Operator is to undertake monitoring and/or spot sampling, the Operator shall inform the Chief Inspector when the relevant monitoring is to take place. The

Operator shall provide this information to the Chief Inspector at least 14 days before the date the monitoring is to be undertaken.

- 5.3.5 The Chief Inspector shall be notified within 7 days of any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence.
- 5.3.6 The Chief Inspector shall be provided, within 14 days of the Operator or any relevant person being convicted of a relevant offence, (unless such information has already been notified to the Chief Inspector), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.
- 5.3.7 The Chief Inspector shall be notified within 14 days of the Operator and/or any relevant person lodging an appeal against a conviction for any relevant offence and of the outcome when the appeal is decided.
- 5.3.8 The Chief Inspector shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
 - (a) any change in the Operator's trading name, registered name or registered office address;
 - (b) any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary); and
 - (c) any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up.

5.4 Interpretation

- 5.4.1 In this Permit the expressions listed in Schedule 7 shall have the meaning given in that schedule.

Schedule 1 - Operations

Table S1.1 Activities

Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
Section 5.2 Part A (a) The disposal of waste in a landfill	Landfill for inert waste only (landfill classification under the Landfill Regulations 2003)	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in condition 2.7, as an integral part of landfilling.
Section 5.4 Part A (a) (i) The disposal of non-hazardous waste in a facility with a capacity of	Leachate treatment system	Receipt and treatment of leachate from the Permitted Mullaghglass Landfill

more than 50 tonnes per day by
biological treatment

Directly Associated Activity

Landfill gas flaring	Flaring of landfill gas for disposal in an appliance with a rated thermal input of less than 3MW.	Landfill gas arising from the Permitted <i>Mullaghglass Landfill</i>
Surface water discharges to controlled waters	Collection, storage and discharges of site drainage from the landfill.	From surface water management system to point of entry to controlled waters.

Table S1.2 Pre operational Measures

Reference Measures	Pre-operational
1	N/A

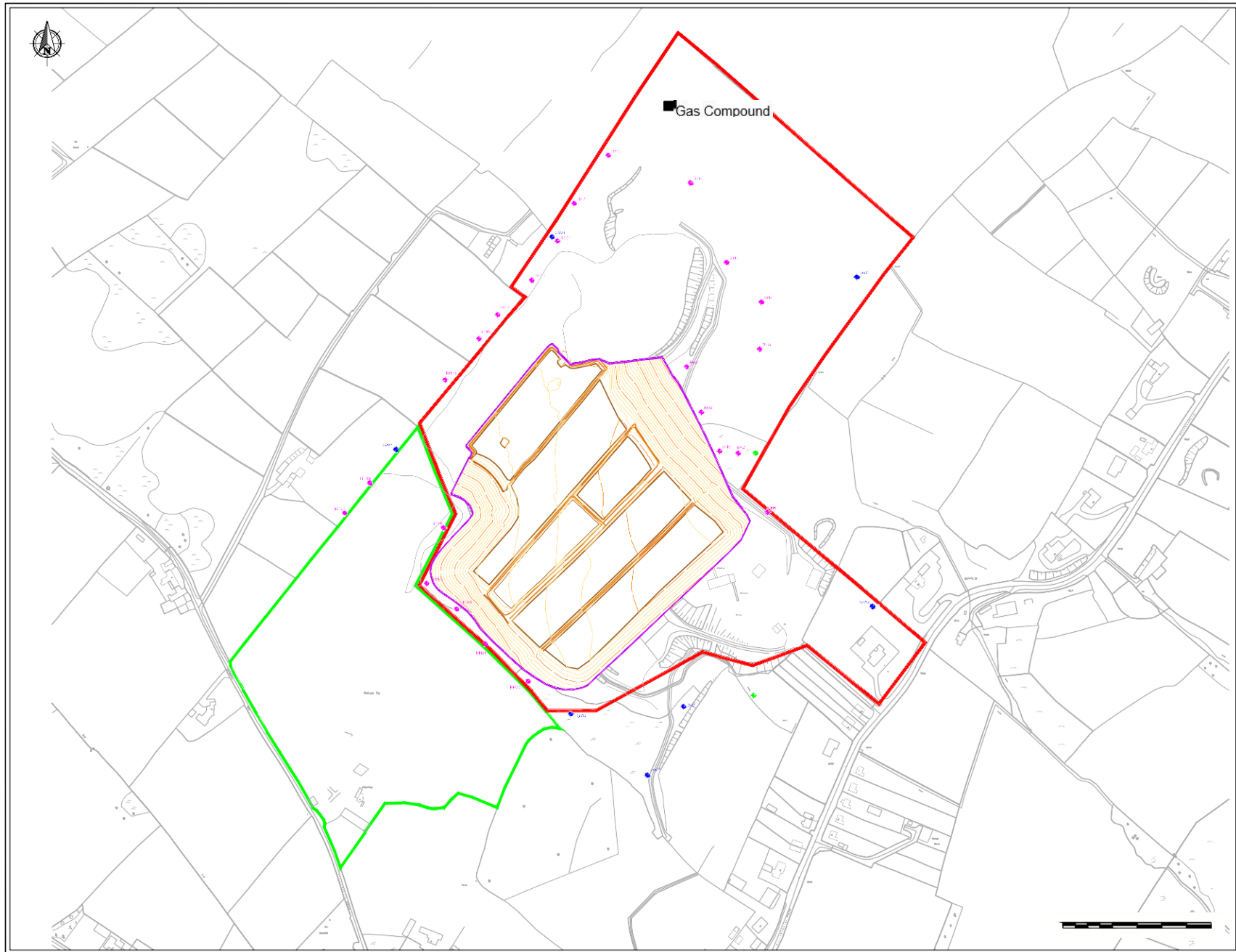
Table S1.3 Improvement Programme Requirements

Reference	Requirement	Date
1	N/A	

Table S1.4 Annual Waste Input Limits (excluding wastes placed above any final cap or for restoration purposes- See Schedule 2)

Category	Limit Tonnes/ Year
Inert	<25,000

Schedule 2 – Site Plan (overleaf)



- Legend**
- Site boundary
 - Castlerobin landfill boundary (approximate)
 - Gas compound
 - Landfill cells boundary
 - Perimeter gas monitoring borehole
 - Groundwater monitoring borehole
 - Surface water monitoring location

Alpha Resource Management			
Mullaghglass Monitoring Review			
Mullaghglass Monitoring Points			
5235492		14514390426	
A2	1:2,500	Report Issue	
502/5		-	

Golder Associates

Inert Restoration Area



*Volume required for restoration works is 150,000m³. Final levels must not exceed permitted levels under planning.

Permit No: P0107/05A/V5 Effective
date:

Schedule 3 - List of permitted wastes

EWC Code	Description	Restrictions
17 05 04	Soil and stones	Excluding topsoil, peat; excluding soil and stones from contaminated sites
20 02 02	Soil and Stones	Excluding topsoil, peat; excluding soil and stones from contaminated sites

Schedule 4 – Emissions and monitoring

Table S4.1 Leachate level limits and monitoring requirements

Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
All Leachate monitoring points within each cell, in accordance with Leachate Monitoring procedures, in the site specific management plan.	1.0m above cell base.	Monthly	Physical measurement of depth using appropriately scaled dip meter or other agreed method.

Table S4.2 Leachate– other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
All Leachate monitoring points within each cell, in accordance with Leachate Monitoring procedures, in the site Specific Management Plan Unless subsequently agreed in writing, the analysis of leachate samples shall be carried out for each separate cell for both List I and List II substances	pH Temperature Electrical conductivity Chloride Ammoniacal Nitrogen Total alkalinity BOD COD Suspended Solids Manganese Iron Chromium Lead Nickel Cadmium Mecoprop	Quarterly	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'	Units oC µS/cms mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l ug/l ug/l mg/l
	Hazardous substances screen	Annually		In accordance with Appendix 6 of Environment Agency Guidance Document LFTGN01 Hydrogeological Risk Assessments for Landfills

Table S4.3 Trigger levels for emissions into groundwater and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
<i>GW1, GW2 & GW8 inclusive as shown on site plan in schedule 2</i>	Cadmium	0.1µg/l	Spot Sample	Annually	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'
	Mecoprop	0.04µg/l	Spot Sample	Annually	
<i>GW1 as shown on site plan in schedule 2</i>	Mercury	0.01µg/l	Spot Sample	Annually	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'
<i>GW1 as shown on site plan in schedule 2</i>	Ammoniacal Nitrogen	0.51mg/l	Spot Sample	Quarterly	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'
	Chloride	250mg/l	Spot Sample		
<i>GW8 as shown on site plan in schedule 2</i>	Ammoniacal Nitrogen	0.69mg/l	Spot Sample	Quarterly	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of
	Chloride	250mg/l	Spot Sample		

					Landfill Leachate, Groundwater and Surface Water'
--	--	--	--	--	---

Table S4.4 Groundwater – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
GW1, GW2, GW3 & GW8 inclusive as shown on site plan in schedule 2.	Water level pH Temperature Electrical conductivity Chloride Ammoniacal Nitrogen Dissolved oxygen Manganese Iron Chromium Lead Nickel	Quarterly	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'	m AOD Units °C µS/cms mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l LFTGN01 - Hydrogeological Risk Assessments for Landfills

	Cadmium Mercury Mecoprop Monitoring point base Hazardous substances screen	Annually	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'	mg/l mg/l mg/l m AOD In accordance with Appendix 6 of Environment Agency Guidance Document LFTGN01 - Hydrogeological Risk Assessments for Landfills
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Table S4.5 Point Source Emissions to Water (Other than Sewer) – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
<i>Upstream SW1</i>	Suspended Solids BOD Ammoniacal Nitrogen Chloride Visible Oil and grease	No Limits	Spot Sample	Quarterly	In accordance with Environment Agency Document TGN02 'Guidance on
<i>Downstream SW2</i>	Suspended Solids BOD Ammoniacal Nitrogen Chloride Visible Oil and grease	50mg/l 10mg/l 1.0mg/l 250mg/l None	Spot Sample	Quarterly	Monitoring of Landfill Leachate, Groundwater and Surface Water'

Table S4.6 Point Source Emissions to Air – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Landfill gas flare emission monitoring points	Oxides of Nitrogen	Landfill Gas Flare	150mg/m ³	Hourly mean	Annually*	In accordance with the relevant Environment Agency's Technical Guidance Note
	CO	Landfill Gas Flare	50mg/m ³	Hourly mean	Annually*	
	Total VOCs	Landfill Gas Flare	10mg/m ³	Hourly mean	Annually*	

	NMVOCs	Landfill Gas Flare	5mg/m ³	Hourly mean	Annually*	
--	--------	--------------------	--------------------	-------------	-----------	--

* If the flare has operated as a standby flare to the gas engines for less than 10% of the time of the operation of the gas engines within the 12 months prior to the required monitoring date then the flare need not be monitored

Table S4.7 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
<i>BH2 BH3 BH4 BH6 BH7 BH8 BH9 BH10 BH11 BH14 BH16 inclusive as shown on site plan in schedule 2</i>	Methane Carbon Dioxide Oxygen Atmospheric pressure Differential Pressure Temperature Meteorological data	1.5 %v/v No limit No limit No limit No limit No limit No limit	Quarterly	In accordance with Environment Agency Guidance Document LFTGN03 'Guidance on the Management of Landfill Gas'.
<i>BH18 BH19 BH23 BH24 BH25 BH26 inclusive as shown on site plan in schedule 2</i>	Methane Carbon Dioxide Oxygen Atmospheric pressure Differential Pressure Temperature Meteorological data	No limit		

Table S4.8 Landfill gas – other monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
All landfill gas extraction wells	Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Differential pressure Temperature Gas flow rate Meteorological data	Fortnightly *	In accordance with Environment Agency Guidance Document LFTGN03'Guidance on the Management of Landfill Gas'	Control level of 5% for oxygen and 100ppm CO
Gas collection system manifolds	Landfill gas composition Trace gas analysis	Annually	In accordance with Environment Agency Guidance Document LFTGN03'Guidance on the Management of Landfill Gas'	

*This can be reviewed as gas production declines and upon submission of a landfill gas risk assessment

Table S4.9 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	0.001 mg/m ² /second	Annually *	In accordance with Environment Agency Document TGN07 'Guidance on Monitoring Landfill Gas Surface Emissions'
Temporarily capped zone	Average Methane flux	0.1 mg/m ² /second	Annually *	In accordance with Environment Agency Document TGN07 'Guidance on Monitoring Landfill Gas Surface Emissions'

* If a cap has previously been shown compliant and there have been no significant physical changes in the gas management during the year, a detailed walkover survey can be used to demonstrate that the surface emissions are under control. If this survey shows no change in the pattern of methane emissions, it may be used as the annual survey. If the zone remains stable, the results of a full walkover

survey may be accepted as the site report for a period of four years before a further quantitative flux box survey is required.

Table S4.10 Particulate emission limits into air

Parameters	Frequency	Monitoring point(s)	Emission Limit at site boundary
* Suspended particulate PM10	Bi-annually	PM10A, PM10B	50 µg/m ³ measured as a 24 hour mean concentration or 40 µg/m ³ when measured as an annual mean
*Deposited dust	Bi-annually	D1, D2	200 /m ² day ⁻¹

*This will be reviewed after two rounds of bi-annual monitoring- Refer to decision document.

Schedule 5 - Reporting

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

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Leachate levels As required by condition 4.7.1	All leachate monitoring points	Every 6 months	From date of issue of Permit.
Emissions to air Parameters as required by condition 4.7.1	Landfill gas flare emission monitoring point	Every 12 months	From date of issue of Permit.
Emissions to water Parameters as required by condition 4.7.1	SW1 & SW2	Every 6 months	From date of issue of Permit
Groundwater Parameters as required by condition 4.7.1	GW1, GW2, GW3 & GW8 inclusive	Every 6 months Every 12 months	From date of issue of Permit.
Landfill gas surface emissions Parameters as required by condition 4.7.1	All permanently or temporarily capped areas	Every 12 months	From date of issue of Permit
Particulate matter Parameters as required by condition 4.7.1	PM10A & PM10B D1 & D2	Every 6 months Every 6 months	From date of issue of Permit
Landfill gas lateral migration Parameters as required by condition 4.7.1	BH2 BH3 BH4 BH6 BH7 BH8 BH9 BH10 BH11 BH14 BH16 BH18 BH19 BH23 BH24 BH25 BH26	Every 6 months Every 6 months	From date of issue of Permit.
Other Landfill gas monitoring Parameters as required by condition 4.7.1	All landfill gas extraction wells. Gas collection system manifolds	Every 6 months Every 12 months	From date of issue of Permit.
Other leachate monitoring Parameters as required by condition 4.7.1	All Leachate monitoring points within each cell. Volatiles, semi-volatiles, semi-volatiles derivatised, Hazardous Substance Screen	Every 6 months Every 12 months	From date of issue of Permit

Table S5.2: Annual Production/Treatment

Leachate: Disposed of off site; Disposed of to any onsite effluent treatment plant; Recirculated into the waste mass	Cubic metres/year
Surface water and/ or groundwater: Disposed of off site; Disposed of to any onsite effluent treatment plant	Cubic metres/year
Landfill gas: combustion in flares; combustion in gas engines; Other methods of gas utilisation.	Normalised cubic metres/year

Table S5.3 Performance Parameters

Parameter	Frequency of assessment	Annual total	Unit
Potable water use	Annually		Cubic metres
Energy used	Annually		MW of electricity
Non potable water use	Annually		Cubic metres

Schedule 6 - 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 Pollution Prevention and Control (Industrial Emissions) Regulations.

Part

Permit Number	P0107/05A/V6
Name of Operator	Alpha Resource Management
Location of Installation	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution	
To be notified immediately following 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 limit the environmental consequences and prevent further possible incidents or accidents.	
Description of the failure or accident.	
(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection	
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	

(c) Notification requirements for the breach of a permit condition	
To be notified within 24 hours of detection	
Condition reference	
Description of breach and effect on the environment	
Date and time of detection	
Measures taken, or intended to be taken, to restore compliance	

(d) 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 installation in the preceding 24 months.	

Name*	
Post	

Signature	
Date	

* authorised to sign on behalf of Operator.

Schedule 7 - Interpretation

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

“Application” means the application for this permit or to vary any condition of this permit together with any response to any notice served under the Regulations and any operational change agreed under the conditions of this permit.

“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 4 to the PPC Regulations

“Authorised Officer” means any person authorised by the Chief Inspector under Regulation 8 of the Pollution Prevention and Control (Industrial Emissions) Regulations 2013

“BAT” means Best Available Techniques, as defined in Regulation 3 of the Regulations.

“Biannual” means twice per year with at least five months between tests.

“Chief Inspector” means the person so appointed under Regulation 8 of the PPC Regulations.

“Construction Proposals” means written information, at a level of detail appropriate to the complexity and pollution risk, on the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the New Cell or Landfill Infrastructure.

“CQA Validation Report” means the final “as built” construction and engineering details of the New Cell or 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-compliances and the solution applied;
- Any other site specific information considered relevant to proving the integrity of the New Cell or Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

“Fugitive emission” means an emission to air, water or land from the Activities which is not controlled by an emission limit.

“Groundwater” means all water which is below the surface of the ground in the saturation zone and in direct contact with the soil and sub-soil.

“Groundwater Regulations” means the Groundwater Regulations (Northern Ireland) 2009, and words and expressions used in this Permit which are also used in the Regulations shall have the same meanings as in those Regulations.

“Gypsum based or other high sulphate material” means any wastes containing more than 10% sulphate in any one load.

“Inspector” means a person appointed under Regulation 8 of the Regulations.

“*Landfill Infrastructure*” means any specified element of the:

- permanent capping;
- temporary capping (i.e. engineered temporary caps not cover materials);
- leachate abstraction systems;
- leachate transfer, treatment and storage systems;
- surface water drainage systems;
- leachate monitoring wells;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;
- landfill gas management systems; within the Site.

“*Landfill Regulations*” means the Landfill Regulations (Northern Ireland) 2003 and words and expressions used in this Permit which are also used in the Regulations shall have the same meanings as in those Regulations.

“*Liquids*” means any liquid other than leachate within the engineered landfill containment system. “*LFTGN*

05” means Environment Agency Guidance for monitoring enclosed landfill gas flares, September 2004.

“*LFTGN 08*” means Environment Agency Guidance for monitoring landfill gas engines, September 2004.

“*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.

“*The Regulations*” means The Pollution, Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 and words and expressions used in this Permit which are also used in the Regulations have the same meanings as in those Regulations.

“*Quarter*” means a calendar year quarter commencing on 1 January.

“*Relevant person*” and “*relevant offence*” shall have the meanings given to them in the Waste and Contaminated Land (Northern Ireland) Order 1997

“*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 Groundwater 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 Groundwater Regulations

“*Technically competent management*” and “*technical competence*” shall have the meanings given to them in the Waste and Contaminated Land (Northern Ireland) Order 1997.

“*Year*” means calendar year ending 31 December.

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 Environment Agency Guidance for Monitoring Enclosed Landfill Gas Flares LFTGN 05 or Guidance for Monitoring Landfill Gas Engine Emissions LFTGN 08.

END OF PERMIT

Variation Notice with introductory note

The Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013

Aughrim Landfill Site Ltd
Aughrim Phase II Landfill
Aughrim Quarry
Ballycollin Road
Lisburn
BT17 0NN

Permit number

P0110/06A/V2

Variation Notice Number

P0110/06A/V3

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Aughrim Landfill Site

Variation Notice Number P0110/06A/V3

Introductory note

This introductory note does not form a part of the Permit

The following Notice is issued under 19 (Variation of Conditions) of the Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 ("the Regulations") to vary the conditions of a Permit issued under those Regulations to operate an installation carrying out one or more of the activities listed in Part 1 to Schedule 1 of those Regulations. The Notice comprises a Schedule containing conditions to be deleted, amended and/or added.

The Notice includes conditions that have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by those conditions are subject to the condition implied by Regulation 12(9) of the Regulations, that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

The enforcing authority for part A installations in Northern Ireland is the Chief Inspector. Under Regulation 8(4) any function of the Chief Inspector may be delegated to any other Inspector appointed by the Department of Agriculture, Environment and Rural Affairs and references to the Chief Inspector should be interpreted accordingly.

The Chief Inspector has assigned responsibility for specified waste management activities to the Regulation Unit.

Brief description of the changes introduced by this notice.

A permit variation application has been submitted to vary condition 3.4 and schedule 3 of the permit so that the waste allowed to be deposited on site is limited to the new waste types found on the newly proposed waste list, which will not necessitate netting. The new waste list does not allow for any form of putrescible landfill waste to be disposed of on site. Without the presence of this waste, any new cells should no longer attract nuisance wildlife and therefore should not require a netting system for the operation of landfilling. This permit modification application seeks to remove the requirement for netting as described in 3.4.1 of condition 3.4.

Other modifications required to update the current permit include; a minor change of the permit red line boundary so that it includes the "as built" Leachate Treatment Plant, and a change to the trigger limits to be set in terms of carbon dioxide gas produced on site to account for naturally occurring gas in the area.

Log of the Permit		
Detail	Date	Response Date
PPC Application Received	13/03/2006	
Draft permit issued for consultation	19/12/2006	15/01/2007
Permit Determined	05/03/2007	
PPC Variation Application Received	08/01/2010	
Notice requesting additional information (Schedule 7)	20/04/2010	07/06/2010
Permit Variation Determined (P0110/06A/V1)	08/09/2010	
Permit Variation Determined (P0110/06A/V2)	25/04/2016	
PPC Variation Application Received	06/12/2016	
Notice requesting additional information (Schedule 7)	15/02/2017	28/04/2017
Further notice requesting additional information	30/06/2017	17/07/2017
Permit Variation Determined (P0110/06A/V3)	xxxxx	

Other		
Operator	Permit Number	Date of Issue
Not applicable		

Superseded			
Holder	Reference Number	Date of Issue	Fully or Partially Superseded
George McCourt	584/92	17/04/1992	Fully Superseded
RMC Quarries (Ulster) Limited	910/95	08/06/1995	Fully Superseded
RMC (Ulster) Ltd	471/96	17/05/1996	Fully Superseded

Other		
Holder	Reference Number	Date of issue
Not applicable		

Talking to us

This Notice is issued by the Regulation Unit of the Northern Ireland Environment Agency. We can be contacted on the telephone using the telephone number 028 9056 9747.

The Operator should use the Emergency Hotline telephone number (0800 80 70 60) to notify of any accident which has caused or has the potential to cause water pollution.

Confidentiality

This Notice requires the Operator to provide information to the Chief Inspector. We will place the information onto the public registers in accordance with the requirements of the Regulations. If the Operator considers that any information provided is commercially confidential, they may apply to the Chief Inspector to have such information withheld from the register as provided in the Regulations. To enable us to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

End of Introductory Note

Variation Notice

Landfill Classification: Non-hazardous

Variation Notice Number

P0110/06A/V3

The Chief Inspector in exercise of his powers under Regulation 19 of the Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 and Regulation 6 of the Landfill Regulations (Northern Ireland) 2003 hereby varies Permit Number P0110/06A/V2, as held by;

Aughrim Landfill Ltd ("the Operator"),

Whose Registered Office is

41 Dobbin Road

Portadown

Armagh

BT62 4EY

Company Registration Number: NI055162

to operate an installation at

Aughrim Phase II Landfill

Aughrim Quarry

Ballycollin Road

Lisburn

BT17 0NN

to the extent authorised by and subject to the conditions in the Schedule to this Notice

This Notice shall take effect from Day Month Year

Signed

Date

	17 NOVEMBER 2017
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Authorised to sign on behalf of the Chief Inspector

SCHEDULE TO NOTICE

1. CONDITIONS TO BE DELETED

All existing conditions for permit P0110/06A/V2 to be deleted.

2. CONDITIONS TO BE ADDED

The following conditions and schedules to be added.

CONDITIONS

1. Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities in accordance with a Site Specific Management Plan (The Management Plan), agreed by the Chief Inspector, that shall detail the operational procedures to be used to manage the Activities at the Site.

The Management Plan shall detail measures to prevent emissions to soil and groundwater from non-landfill activities in addition to landfill activities.

The Management Plan shall include (but not limited to) the following:

- Site infrastructure
- Site management and control procedures
- Waste acceptance procedures
- Waste rejection and quarantine procedures
- Waste deposit procedures
- Emergency/incident procedures
- Environmental monitoring techniques and procedures
- Odour and odorous waste monitoring and management procedures
- Noise and vibration monitoring and management procedures
- Leachate monitoring and management procedures
- Surface water monitoring and management procedures
- Landfill gas monitoring , flaring/utilisation and management procedures
- Dusts and particulates monitoring and management procedures
- Birds, vermin and insects monitoring and management procedures
- Site closure management procedures

- 1.1.2 The Activities shall, subject to the conditions of this permit, be managed and operated:

- (a) using the techniques and in the manner described in the Management Plan provided and agreed in accordance with condition 1.1.1, unless otherwise agreed in writing by the Chief Inspector; and
- (b) by sufficient persons who are technically competent in respect of the responsibilities to be undertaken by them in connection with the operation of the Activities.

- 1.1.3 Any proposed changes by the Operator to the Management Plan shall be submitted in writing by Recorded Delivery to the Chief Inspector. The Management Plan shall only be amended in accordance with the proposed change(s) if, and to the extent that, either;

- (a) the Chief Inspector gives written consent to the proposed change(s), or
- (b) the Chief Inspector has not indicated in writing within 28 days of the proposed change(s) that the proposed change(s) are rejected.

- 1.1.4 Records demonstrating compliance with condition 1.1.2 shall be maintained.

- 1.1.5 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.

- 1.1.6 The Operator shall undertake a daily inspection of the site for compliance with the conditions of this Permit. The inspection shall include, but not be limited to:
- (a) Site boundary and security measures;
 - (b) Site infrastructure;
 - (c) Fugitive emissions;
 - (d) Gas,
 - (e) Odour;
 - (f) Noise and vibration;
 - (g) Birds, vermin and insects;
 - (h) Litter.
- 1.1.7 A record shall be kept of each inspection undertaken in accordance with condition 1.1.6, including the following details:
- (a) Date and start and finish times of inspection;
 - (b) Person(s) carrying out the inspection;
 - (c) Areas of non-compliance identified;
 - (d) Actions taken or to be taken to rectify any non-compliance, including timescales.

1.2 Breach of permit conditions

- 1.2.1 In the event that a breach of any permit condition poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the Operator shall immediately suspend the operation of the installation or the relevant part of it until compliance with permit conditions has been restored.
- 1.2.2 In the event of a breach of any permit condition, the Operator shall inform the Chief Inspector immediately using the means referred to in condition 5.3.2 and take the measures necessary to ensure that compliance is restored within the shortest possible time.

1.3 Accidents that may cause pollution

- 1.3.1 The Operator shall:
- (a) maintain and implement an accident management plan;
 - (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
 - (c) make any appropriate changes to the plan identified by a review.
- 1.3.2 The Operator shall inform the Chief Inspector, immediately, of any accident which has caused, is causing or has the potential to cause significant pollution and to immediately take all appropriate measures to limit the environmental consequences and to prevent further possible accidents.

1.4 Finance

- 1.4.1 The Operator shall make adequate financial provision which has been agreed with the Chief Inspector. This financial provision shall be maintained by the Operator throughout the subsistence of this Permit and the Operator shall produce evidence of such provision whenever required by the Chief Inspector.
- 1.4.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:
- (a) the costs of setting up and operating the landfill;
 - (b) the costs of the financial provision required by condition 1.4.1; and
 - (c) the estimated costs for the closure and aftercare of the landfill.

1.5 Energy efficiency

- 1.5.1 The Operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the Activities;
 - (b) review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the Activities; and
 - (c) implement any appropriate measures identified by a review.

1.6 Avoidance, recovery and disposal of wastes produced by the activities

- 1.6.1 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.
- 1.6.2 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.

1.7 Site security

- 1.7.1 Site security measures shall prevent unauthorised access to the Site, as far as practicable.

1.8 Multiple operator installations

- 1.8.1 This is not a multi operator installation.

2. Operations

2.1 Permitted activities

- 2.1.1 The Operator is authorised to carry out the activities specified in Schedule 1 Table S1.1 (the "Activities") at the Permitted Installation to which this permit applies.

2.2 The site

- 2.2.1 The Activities shall not extend beyond the site of the Permitted Installation ("the Site"), being the land shown edged in *red* on the Site Plan in Schedule 2 to this Permit.

2.3 Off-site conditions

- 2.3.1 There are no off-site conditions.

2.4 Commencement

- 2.4.1 The Operator shall not commence disposal operations in any new phase at the Permitted Installation until the Operator has received written confirmation from the Chief Inspector in terms of Regulation 13 of the Landfill Regulations (NI) 2003.
- 2.4.2 Nothing in condition 2.4.1 shall in any way reduce the obligations of the Operator to comply with the Conditions of this Permit.

2.5 Pre-operation Conditions

- 2.5.1 There are no pre-operating conditions.

2.6 Improvement programme

- 2.6.1 The Operator shall complete any improvements specified in Schedule 1 Table S1.3 by the date specified in that table unless otherwise agreed in writing by the Chief Inspector.

2.7 Engineering

- 2.7.1 The Operator shall ensure that the geological barrier and leachate collection and sealing system for the landfill part of the Installation shall be constructed to the specification and standards detailed within the Application for the Installation.
- 2.7.2 No construction of any New Phase/Cell shall commence until the Operator has submitted Construction Proposals and the Chief Inspector has confirmed that he is satisfied with the Construction Proposals.
- 2.7.3 The construction of a New Phase/Cell 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 Chief Inspector.

- 2.7.4 No disposal of waste shall take place in a New Phase/Cell until the Operator has submitted a CQA Validation Report and the Chief Inspector has confirmed that he is satisfied with the CQA Validation Report.
- 2.7.5 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 Chief Inspector has confirmed that he is satisfied with the Construction Proposals.
- 2.7.6 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 Chief Inspector.
- 2.7.7 The Operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant Landfill Infrastructure.
- 2.7.8 A resistivity leak location survey of the basal and sidewall flexible membrane artificial sealing liner shall be undertaken following completion of any containment works. Any defects identified in the liner shall be repaired and re-surveyed. The results of the surveys and details of the rectification of any defects shall form part of the CQA Validation Report.
- 2.7.9 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.7.5 and 2.7.6 do not apply and the relevant Landfill Infrastructure may be constructed, provided that the Construction Proposals are submitted to the Chief Inspector as soon as practicable.
- 2.7.10 For the purposes of conditions 2.7.2, 2.7.4 and 2.7.5, the Chief Inspector shall be deemed to be satisfied where he has not, within the period of 4 weeks from the date of receipt of the relevant Construction Proposals or CQA Validation Report, either:
- (a) confirmed whether or not he is satisfied; or
 - (b) informed the Operator that he requires further information.

2.8 Waste acceptance

- 2.8.1 Wastes shall only be accepted for disposal if:
- (a) they are listed in Schedule 3, and
 - (b) they are not hazardous waste, and
 - (c) they are not whole used tyres (other than tyres used as engineering material, bicycle tyres and tyres with an outside diameter of more than 1400mm), and
 - (d) they are not shredded used tyres, and
 - (e) they are not liquid waste (including waste waters but excluding sludge), and
 - (f) they are not chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown, and
 - (g) they are not hospital and other clinical waste arising from medical or veterinary establishments, which are infectious, and

- (h) there are not wastes which in the conditions of a landfill are explosive, corrosive, oxidising, highly flammable or flammable (55 °C flash point), and
- (i) they are not separately collected food wastes, and
- (j) all the relevant waste acceptance procedures set out in Schedule 1 of the Landfill Regulations (NI) 2003 and the Landfill (Amendment) Regulations (NI) 2004 have been completed, and
- (k) they fulfil the relevant waste acceptance criteria, and
- (l) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
- (m) they are wastes which have been subject to prior treatment, except for: inert wastes for which treatment is not technically feasible; or it is waste other than inert waste and treatment would not reduce its quantity or the hazards which it poses to human health or the environment.

2.8.2 The deposit of gypsum and other high sulphate bearing waste shall be prevented.

2.8.3 The deposit of waste sludges, screenings and any other similar inherently odorous wastes shall only be undertaken upon prior notification and approval by the Chief Inspector and in accordance with the approved Acceptance Procedure.

2.8.4 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.

2.8.5 Where the Operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.

2.8.6 The Operator on accepting each delivery of waste shall provide a receipt to the person delivering it.

2.8.7 The total quantity of waste that shall be deposited in the landfill shall be limited to 3.5 million m³

2.8.8 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in Schedule 1 Table S1.4.

2.8.9 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 disposal or recovery and of the identity of the producer, or in the case of municipal waste and multiple collection vehicles, of the collector of such waste. Any information regarded by the Operator as commercially confidential shall be clearly identified in the record.

2.8.10 Where acceptance of waste is refused, the Operator shall notify the Chief Inspector by telephone immediately and shall notify the Chief Inspector in writing within seven days of refusing acceptance.

2.9 Leachate levels and control

- 2.9.1 The limits for the level of leachate listed in Table S4.1 of Schedule 4 shall not be exceeded.
- 2.9.2 The Operator shall not commence recirculation of extracted leachate back into any new Phase or Cell of the landfill without the written approval of the Chief Inspector.

2.10 Closure, aftercare and decommissioning

- 2.10.1 The Operator shall maintain and operate the Activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.
- 2.10.2 The Operator shall maintain a Site Closure Plan which demonstrates how the Activities can be decommissioned to avoid any pollution risk and return the site of operation to a satisfactory state.
- 2.10.3 The Operator shall carry out and record a review of the Site Closure Plan at least every 4 years.
- 2.10.4 The Site Closure Plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the Activities or part thereof.

2.11 System for the protection of soil and groundwater

- 2.11.1 The Operator shall carry out monitoring of the condition of groundwater and soil and compare with the measurements in the baseline report (or previous application site report), at least every 5 years for groundwater and every 10 years for soil unless such monitoring is based on a systematic appraisal of the risk of contamination.
- 2.11.2 Where the Operator has made an acceptable case that a baseline report is not required at the application stage, a review of this conclusion is required at least every 5 years.

3. Site Infrastructure

3.1 Site access

- 3.1.1 All roads within the Permitted Installation shall be adequate in both width and bearing capacity for all vehicles that may be required to use that particular road. All such roads shall be free of obstacles at all times that the site is open for the reception of waste. All such roads shall be maintained to ensure the safe passage of vehicles and in particular shall be free from mud and other debris, ruts, potholes and ponded surface water. Wheel cleaning facilities shall be installed and maintained at the site.

3.2 Noticeboards

- 3.2.1 A notice board of durable material and finish shall be displayed at the entrance to the Site. The notice board shall contain the following information, which shall be legible from outwith the boundary of the Site:-
- the Site name, address and PPC number;
 - the Site Operator's name;
 - the Site opening times;
 - emergency contact telephone number for the Operator; and
 - telephone number of the NIEA Regulation Unit.

3.3 Liquid storage

- 3.3.1 All containers used to store any liquids whose emission to water or land could cause pollution within the Permitted Installation shall be located in a bund. The minimum capacity of any bund shall be either 110% of the capacity of the largest container, or 25% of the total capacity of all the containers within the bund, which-ever is the greater. In the event of any containers being connected to one another, they shall be treated as one container.
- 3.3.2 The bunded area(s) and containers shall conform to the following standards:
- (a) the walls and base of the bund shall be impermeable;
 - (b) the base shall drain to a sump;
 - (c) when not in use all taps, valves, pipes and every part of each container shall be located within the area served by the bund;
 - (d) vent pipes shall be directed downwards into the bund;
 - (e) no part of the bund shall be within 10 metres of a watercourse; and
 - (f) all containers with a design capacity above 1000 litres shall be fitted with a device for continuously monitoring the level of the contents.
- 3.3.3 The accumulation of rainwater, spillages or leaks shall be managed to ensure that at least 95% of the capacity of the bund is free of liquid.

3.4 Netting

- 3.4.1 No netting is required.

4. Emissions and monitoring

4.1 Emissions to water, air or land

- 4.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in Tables S4.6 and S4.8 of Schedule 4.
- 4.1.2 The limits given in that Schedule shall not be exceeded, save that compliance with an emission limit shall include incorporation of the uncertainty allowance stated in Environment Agency guidance documents LFTGN 05 and LFTGN 08.

4.2 Emissions to groundwater

- 4.2.1 There shall be no emission from the Activities into groundwater of any Hazardous Substance (as defined by the Groundwater Regulations) contrary to those Regulations.
- 4.2.2 There shall be no emission from the Activities into groundwater of any Non Hazardous Pollutants (as defined in the Groundwater Regulations) so as to cause pollution (as defined in those Regulations).
- 4.2.3 Where the results of any groundwater monitoring exceed any of the trigger levels set out in Table S4.4 of Schedule 4 then the following actions shall be taken:
- (a) The Chief Inspector shall be informed forthwith;
 - (b) A repeat sample shall be taken, and submitted for analysis, within 7 days;
 - (c) Within 14 days of the repeat sample the Operator shall submit a report to the Chief Inspector, in writing, detailing the breach of the trigger level and proposed remedial actions.
- 4.2.4 The Operator shall evaluate all groundwater monitoring results against control levels following receipt of results. Where the evaluation of the monitoring data shows any parameter exceeding a control level, the Operator shall report this to the Chief Inspector, in writing, within 28 days.
- 4.2.5 The Operator shall submit to the Chief Inspector a review of the Hydrogeological Risk Assessment:
- (a) between 9 and 6 months prior to the fourth anniversary of the granting of the original Permit, and
 - (b) between 9 and 6 months prior to every subsequent 4 years after the fourth anniversary of the granting of the Permit, unless otherwise agreed in writing with the Chief Inspector.

4.3 Fugitive emissions of substances

- 4.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The Operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 4.3.2 Litter or mud arising from the Activities shall not cause pollution. The Operator shall not be taken to have breached this condition if appropriate measures have been used to prevent or where that is not practicable to minimise, the litter and mud.
- 4.3.3 Litter or mud arising from the Activities shall be cleared from affected areas outside the Site as soon as practicable.
- 4.3.4 The measured values from the monitoring specified in Tables S4.9, S4.11 and S4.12 of Schedule 4 shall not exceed the limits for the parameter(s) at the monitoring point(s) listed in that schedule.

4.4 Odour

- 4.4.1 Emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an Authorised Officer of the Chief Inspector, 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 odour.

4.5 Noise and vibration

- 4.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause annoyance outside the Site, as perceived by an Authorised Officer of the Chief Inspector, unless the Operator has used appropriate measures to prevent or where that is not practicable to minimise the noise and vibration.

4.6 Birds, Vermin and insects

- 4.6.1 All operations on the Site shall be carried out so as to prevent or minimise the nuisance and hazards arising from the Site in respect of the presence of birds, vermin and insects. In addition to the daily inspection required by Condition 1.1.6, the Site shall be inspected for the presence of birds, vermin and insects at least once every three months by a person suitably qualified and experienced in pest control and a treatment programme shall be immediately undertaken to deal with any identified infestation.

4.7 Monitoring

- 4.7.1 The Operator shall, unless otherwise agreed in writing by the Chief Inspector, undertake monitoring for the parameters, at the locations and at not less than the frequencies specified in the following tables in Schedule 4 to this Permit:
 - (a) Leachate specified in Tables S4.1 and S4.2;
 - (b) Point source emissions specified in Table S4.6 and S4.8;
 - (c) Groundwater specified in Tables S4.3, S4.4 and S4.5;

- (d) Landfill gas specified in Tables S4.9, S4.10 and S4.11;
 - (e) Surface water specified in Table S4.6 and S4.7.
 - (f) Particulate matter specified in Table S4.12.
- 4.7.2 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.
- 4.7.3 A topographical survey of the site referenced to Ordnance Datum shall be carried out:
- (a) annually, and
 - (b) prior to the disposal of waste in any new Phase or Cell or new development area of the landfill, and
 - (c) 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. A calculation of void space shall be carried out upon completion of each annual survey and the results of the survey and the calculation shall be provided to the Chief Inspector within one month of the survey being carried out.

5. Information

5.1 Records

- 5.1.1 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 Chief Inspector, 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) the results of groundwater monitoring;
 - (ii) the results of soil and groundwater monitoring referred to in condition 2.11.1;
 - (iii) ambient air monitoring for landfill gas and particulate matter;
 - (iv) sub-surface landfill gas monitoring;
 - (v) leachate levels, quality and quantities;
 - (vi) landfill gas generation and collection;
 - (vii) waste types and quantities;
 - (viii) topographical surveys; and
 - (ix) the specification and as built drawings of the basal, sidewall and capping engineering systems.

- 5.1.2. Any records required to be made by this permit shall be supplied to the Chief Inspector within 14 days where the records have been requested in writing by the Agency.
- 5.1.3 All records required to be held by this permit shall be held on site and shall be available for inspection by the Chief Inspector at any reasonable time.

5.2 Reporting

- 5.2.1 A report or reports on the performance of the Activities over the previous year shall be submitted to the Chief Inspector by 31 January (or other date agreed in writing by the Chief Inspector) 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 with the Application;
 - (b) where the Operator's Management Plan encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
 - (c) the energy consumed at the Site, reported in the format set out in Schedule 5 Table S5.3;
 - (d) the water consumed at the Site, reported in the format set out in Schedule 5 Table S5.3;
 - (e) the annual production/treatment set out in Schedule 5 Table S5.2;
 - (f) details of any contamination or decontamination of the Site which has occurred;
 - (g) the topographical surveys required by condition 4.7.3 other than those submitted as part of a CQA validation report;
 - (h) 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;
 - (i) an assessment of the settlement behaviour 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;
 - (j) a calculation of the remaining capacity (reported in cubic meters) derived from the pre-settlement contours and the most recent topographical survey; and
 - (k) the compliance testing undertaken in the period.
 - (l) a summary of the WAC compliance testing undertaken in the period.
- 5.2.2 Within 28 days of the end of the reporting period the Operator shall, unless otherwise agreed in writing by the Chief Inspector, 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 Table S5.1 of Schedule 5;
 - (b) for the reporting periods specified in Table S5.1 of Schedule 5.

- 5.2.3 A summary report of the waste types and quantities accepted and removed from the site shall be made for each quarter. It shall be submitted to the Chief Inspector within one month of the end of the quarter and shall be in the format required by the Chief Inspector.
- 5.2.4 The Operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Chief Inspector, within 6 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.
- 5.2.5 The results of reviews and any changes made to soil and groundwater monitoring referred to in condition 2.11.2 shall be reported to the Chief Inspector, within 1 month of the review or change.
- 5.2.6 The Operator shall complete a Pollution Inventory Reporting Form in respect of the Permitted Installation during the previous year in accordance with the instructions and definitions included in the Form and submit the completed Form to the Chief Inspector by 31 January each year.

5.3 Notifications

- 5.3.1 The Chief Inspector shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the Permit;
 - (c) the breach of a permit condition; and
 - (d) any significant adverse environmental effects.
- 5.3.2 Any information provided under condition 5.3.1 shall be confirmed by sending the information listed in Schedule 6 to this Permit within the time period specified in that schedule.
- 5.3.3. Prior written notification shall be given to the Chief Inspector of the following events and in the specified timescales:
- (a) as soon as practicable prior to the permanent cessation of any of the permitted activities;
 - (b) as soon as practicable prior to the cessation of the landfill disposal activities, for a period likely to exceed 1 month; and
 - (c) at least 7 days prior to the resumption of the landfill disposal activities after a cessation notified under (b) above.
- 5.3.4 The Chief Inspector shall be given at least 14 days notice before implementing any part of the Site Closure Plan in respect of any activities other than the disposal of waste in the landfill.
- 5.3.5 Where the Chief Inspector has requested in writing that he shall be notified when the Operator is to undertake monitoring and/or spot sampling, the Operator shall inform the Chief Inspector when the relevant monitoring is to take place. The Operator shall provide this information to the Chief Inspector at least 14 days before the date the monitoring is to be undertaken.

- 5.3.6 The Chief Inspector shall be notified within 7 days of any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence.
- 5.3.7 The Chief Inspector shall be provided, within 14 days of the Operator or any relevant person being convicted of a relevant offence, (unless such information has already been notified to the Chief Inspector), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.
- 5.3.8 The Chief Inspector shall be notified within 14 days of the Operator and/or any relevant person lodging an appeal against a conviction for any relevant offence and of the outcome when the appeal is decided.
- 5.3.9 The Chief Inspector shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- (a) any change in the Operator's trading name, registered name or registered office address;
 - (b) any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary); and
 - (c) any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up.

5.4 Interpretation

- 5.4.1 In this Permit the expressions listed in Schedule 7 shall have the meaning given in that schedule.

Schedule 1 - Operations

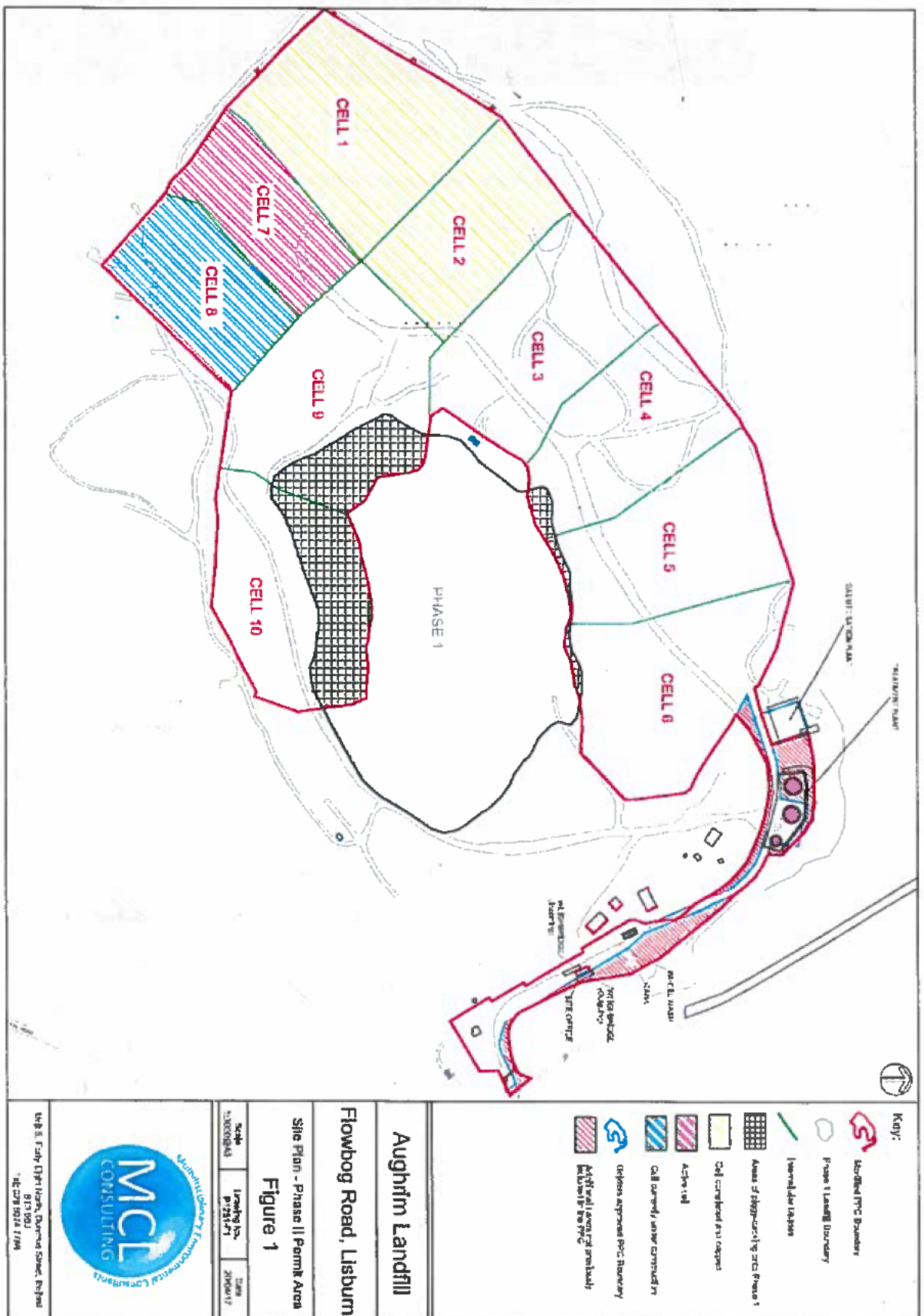
Table		
Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
Section 5.2 Part A (a) The disposal of waste in a landfill	Landfill for non-hazardous waste (landfill classification under the Landfill Regulations 2003)	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in condition 2.8, as an integral part of landfilling.
Section 5.4 Part A (a) (i) The disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by biological treatment	Leachate treatment system	Receipt and treatment of leachate from the Permitted Aughrim Landfill Ltd.
Directly Associated Activity		
Surface water discharges to controlled waters	Collection, storage and discharges of site drainage from the landfill.	From surface water management system to point of entry to controlled waters.
Fuel storage	Storage of fuel for operation of plant, equipment and for heating welfare facilities.	Fuel storage tanks.

Table		
Reference	Pre-operational Measures	
1	Construction of Cells 7-10	No construction of Cells 7-10 shall take place until a Stability risk Assessment for those phases has been submitted to the Chief Inspector and the Chief Inspector has confirmed that he is satisfied with the Stability Risk Assessment
2	Construction of Cells 2 & 3	Cells 2 & 3 shall be designed and constructed to ensure that the bases of the cells are a minimum of 1 metre above the top of the groundwater table. Evidence to confirm this shall be incorporated in the CQA validation report.

Table		
Reference	Requirement	Date
IC1	Provide an updated Gas Management Plan	12/01/2018

Table	
Category	Limit Tonnes/ Year
Non-hazardous	250,000

Schedule 2 - Site Plan



Schedule 3 - List of permitted wastes

Waste	
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 01	wastes from mineral excavation
01 01 01	wastes from mineral metalliferous excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 03	wastes from physical and chemical processing of metalliferous minerals
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 08	dusty and powdery wastes other than those mentioned in 01 03 07
01 03 09	red mud from alumina production other than the wastes mentioned in 01 03 07
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 10	dusty and powdery wastes other than those mentioned in 01 04 07
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07
01 05	drilling mud's and other drilling wastes
01 05 04	freshwater drilling mud's and wastes
01 05 07	barite-containing drilling mud and wastes other than those mentioned in 01 05 05 and 01 05 06
01 05 08	chloride-containing drilling mud's and wastes other than those mentioned in 01 05 05 and 01 05 06
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting

	and fishing
02 01 01	sludges from washing and cleaning
02 01 04	waste plastics (except packaging)
02 01 09	agrochemical waste other than those mentioned in 02 01 08
02 01 10	waste metal
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 01	sludges from washing and cleaning
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
03 03 02	green liquor sludge (from recovery of cooking liquor)
03 03 05	de-inking sludges from paper recycling
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 09	lime mud waste
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 02	wastes from the textile industry
04 02 09	wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 15	wastes from finishing other than those mentioned in 04 02 14
04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16
04 02 20	sludges from on-site effluent treatment other than those mentioned in 04 02 19
04 02 21	wastes from unprocessed textile fibres

04 02 22	wastes from processed textile fibres
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
05 01	wastes from petroleum refining
05 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13	boiler feed water sludges
05 01 14	wastes from cooling columns
05 01 16	sulphur-containing wastes from petroleum desulphurisation
05 01 17	bitumen
05 06	wastes from the pyrolytic treatment of coal
05 06 04	waste from cooling columns
05 07	wastes from natural gas purification and transportation
05 07 02	wastes containing sulphur
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 16	metallic oxides other than those mentioned in 06 03 15
06 05	sludges from on-site effluent treatment
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06	wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02
06 09	wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes
06 09 02	phosphorous slag
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	wastes from the manufacture of inorganic pigments and opacifiers
06 11 01	calcium-based reaction wastes from titanium dioxide production
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 03	carbon black
07	WASTES FROM ORGANIC CHEMICAL PROCESSES

07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 13	waste plastic
07 02 15	wastes from additives other than those mentioned in 07 02 14
07 02 17	waste containing silicones other than those mentioned in 07 02 16
07 03	wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11
08	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01	wastes from MFSU and removal of paint and varnish
08 01 12	waste paint and varnish other than those mentioned in 08 01 11
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13
08 01 18	Waste from paint or varnish remover other than those mentioned in 08 01 17
08 04	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
08 04 12	adhesive and sealant sludges other than those mentioned in 08 04 11
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01	wastes from the photographic industry
09 01 07	photographic film and paper containing silver or silver compounds
09 01 08	photographic film and paper free of silver or silver compounds
09 01 10	single-use cameras without batteries
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 11
10	WASTES FROM THERMAL PROCESSES
10 01	wastes from power stations and other combustion plants (except 19)
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01

	04)
10 01 02	coal fly ash
10 01 03	fly ash from peat and untreated wood
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 24	sands from fluidised beds
10 01 25	wastes from fuel storage and preparation of coal-fired power plants
10 01 26	wastes from cooling-water treatment
10 02	wastes from the iron and steel industry
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales
10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 03	wastes from aluminium thermal metallurgy
10 03 02	anode scraps
10 03 05	waste alumina
10 03 16	skimmings other than those mentioned in 10 03 15
10 03 18	carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 20	flue-gas dust other than those mentioned in 10 03 19
10 03 22	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21

10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 30	wastes from treatment of salt slag's and black drosses other than those mentioned in 10 03 29
10 04	wastes from lead thermal metallurgy
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05	wastes from zinc thermal metallurgy
10 05 01	slag's from primary and secondary production
10 05 04	other particulates and dust
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 05 11	dross and skimmings other than those mentioned in 10 05 10
10 06	wastes from copper thermal metallurgy
10 06 01	slags from primary and secondary production
10 06 02	dross and skimmings from primary and secondary production
10 06 04	other particulates and dust
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07	wastes from silver, gold and platinum thermal metallurgy
10 07 01	slag's from primary and secondary production
10 07 02	dross and skimmings from primary and secondary production
10 07 03	solid wastes from gas treatment
10 07 04	other particulates and dust
10 07 05	sludges and filter cakes from gas treatment
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08	wastes from other non-ferrous thermal metallurgy
10 08 04	particulates and dust
10 08 09	other slags
10 08 11	dross and skimmings other than those mentioned in 10 08 10

10 08 13	carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14	anode scrap
10 08 16	flue-gas dust other than those mentioned in 10 08 15
10 08 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09	wastes from casting of ferrous pieces
10 09 03	furnace slag
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 08	casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 10	flue-gas dust other than those mentioned in 10 09 09
10 09 12	other particulates other than those mentioned in 10 09 11
10 09 14	waste binders other than those mentioned in 10 09 13
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15
10 10	wastes from casting of non-ferrous pieces
10 10 03	furnace slag
10 10 06	casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05
10 10 08	casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 10	flue-gas dust other than those mentioned in 10 10 09
10 10 12	other particulates other than those mentioned in 10 10 11
10 10 14	waste binders other than those mentioned in 10 10 13
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15
10 11	wastes from manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials
10 11 05	particulates and dust
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 12	waste glass other than those mentioned in 10 11 11
10 11 14	Glass polishing and grinding sludge other than those mentioned in 10 11

	13
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 11 20	solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	waste preparation mixture before thermal processing
10 12 03	particulates and dust
10 12 05	sludges and filter cakes from gas treatment
10 12 06	discarded moulds
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12	wastes from glazing other than those mentioned in 10 12 11
10 12 13	sludge from on-site effluent treatment
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 01	waste preparation mixture before thermal processing
10 13 04	wastes from calcination and hydration of lime
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)
10 13 07	Sludges and filter cakes from gas treatment
10 13 10	wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14	waste concrete and concrete sludge
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDROMETALLURGY
11 01	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)

11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 02	wastes from non-ferrous hydrometallurgical processes
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 05	wastes from hot galvanising processes
11 05 01	hard zinc
11 05 02	zinc ash
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 01	ferrous metal filings and turnings
12 01 02	ferrous metal dust and particles
12 01 03	non-ferrous metal filings and turnings
12 01 04	non-ferrous metal dust and particles
12 01 05	plastics shavings and turnings
12 01 13	welding wastes
12 01 15	machining sludges other than those mentioned in 12 01 14
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging

15 01 07	glass packaging
15 01 09	textile packaging
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
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, 6 06 and 16 08)
16 01 12	brake pads other than those mentioned in 16 01 11
16 01 16	tanks for liquefied gas
16 01 17	ferrous metal
16 01 18	non-ferrous metal
16 01 19	plastic
16 01 20	glass
16 01 22	components not otherwise specified
16 02	wastes from electrical and electronic equipment
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 03	off-specification batches and unused products
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 05	gases in pressure containers and discarded chemicals
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 06	batteries and accumulators
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
16 08	spent catalysts
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 11	waste linings and refractories

16 11 02	carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06	linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	concrete, bricks, tiles and ceramics
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	wood, glass and plastic
17 02 01	wood
17 02 02	glass
17 02 03	plastic
17 03	bituminous mixtures, coal tar and tarred products
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 04	metals (including their alloys)
17 04 01	copper, bronze, brass
17 04 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
17 04 11	cables other than those mentioned in 17 04 10
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07

17 06	insulation materials and asbestos-containing construction materials
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 09	other construction and demolition wastes
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
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 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)
18 01 07	chemicals other than those mentioned in 18 01 06
18 01 09	medicines other than those mentioned in 18 01 08
18 02	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 03	wastes whose collection and disposal is not subject to special requirements in order to prevent infection
18 02 06	chemicals other than those mentioned in 18 02 05
18 02 08	medicines other than those mentioned in 18 02 07
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 01	wastes from incineration or pyrolysis of waste
19 01 02	ferrous materials removed from bottom ash
19 01 12	bottom ash and slag other than those mentioned in 19 01 11
19 01 14	fly ash other than those mentioned in 19 01 13
19 01 16	boiler dust other than those mentioned in 19 01 15
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	sands from fluidised beds
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05

19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 03	stabilised/solidified wastes (4)
19 03 05	stabilised wastes other than those mentioned in 19 03 04
19 03 07	solidified wastes other than those mentioned in 19 03 06
19 04	vitrified waste and wastes from vitrification
19 04 01	vitrified waste
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 04	spent activated carbon
19 09 05	saturated or spent ion exchange resins
19 10	wastes from shredding of metal-containing wastes
19 10 01	iron and steel waste
19 10 02	non-ferrous waste
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 06	other fractions other than those mentioned in 19 10 05
19 11	wastes from oil regeneration
19 11 06	sludges from on-site effluent treatment other than those mentioned in 19 11 05
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	Wastes from Soil and Groundwater Remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01

19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
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 10	clothes
20 01 11	textiles
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 30	detergents other than those mentioned in 20 01 29
20 01 32	medicines other than those mentioned in 20 01 31
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
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 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 02	soil and stones
20 02 03	other non-biodegradable wastes
20 03	other municipal wastes
20 03 07	bulky waste

Schedule 4 – Emissions and monitoring

Table S4.1 Leachate level limits and monitoring requirements

Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
All leachate monitoring points within each cell, locations as shown on Drawings 5 and HR3 (Report No. 09514390018.501/A.0)	1.0m	Monthly	Physical measurement of depth using appropriately scaled dip meter or other method to be proposed by the Operator and agreed in writing by the Chief Inspector.

Table S4.2 Leachate– other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
All leachate monitoring points within each cell, locations as shown on Drawings 5 and HR3 (Report No. 09514390018.501/A.0)	pH	Quarterly	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'	Units
	Temperature	Quarterly		°C
	Electrical conductivity	Quarterly		µS/cm
	Chloride	Quarterly		s mg/l
	Ammoniacal Nitrogen	Quarterly		mg/l
	Total alkalinity	Quarterly		mg/l
	Magnesium	Quarterly		mg/l
	Potassium	Quarterly		mg/l
	Total sulphates	Quarterly		mg/l
	Calcium	Quarterly		mg/l
	Sodium	Quarterly		mg/l
	BOD	Quarterly		mg/l
	COD	Quarterly		mg/l
	TOC	Quarterly		mg/l
	TON	Quarterly		mg/l
	Manganese	Quarterly		mg/l
	Iron	Quarterly		mg/l
	Chromium	Quarterly		mg/l
	Copper	Quarterly		mg/l
	Lead	Quarterly		mg/l
	Zinc	Quarterly		mg/l
	Nickel	Quarterly		mg/l
	Cadmium	Quarterly		mg/l
	Mercury	Quarterly		mg/l
	Arsenic	Quarterly		mg/l
	Barium	Quarterly		mg/l
	Boron	Quarterly		mg/l
	Orthophosphate	Quarterly		mg/l
	Mecoprop	Quarterly		mg/l
	Hazardous substances screen	Annually		In accordance with Appendix 6 of Environment Agency Guidance Document LFTGN01 Hydrogeological Risk Assessments for Landfills

Table S4.3 Control levels for emissions into groundwater and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Downgradient groundwater monitoring boreholes GW7 and GW11 to GW14 (as shown on Drawing HRA3 of application (report No. 09514390018.501/A.0))	Chloride Ammoniacal Nitrogen Nickel	200mg/l 0.95mg/l 0.015mg/l		Monthly Monthly Monthly	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'

S4.4 Trigger levels for emissions into groundwater and monitoring

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Downgradient groundwater monitoring boreholes GW7 and GW11 to GW14 (as shown on Drawing HRA3 of application (report No. 09514390018.501/A.0))	Chloride Ammoniacal Nitrogen Nickel Cadmium Mercury	250mg/l 1mg/l 0.02mg/l 0.4µg/l 0.1µg/l		Monthly Monthly Monthly Quarterly Quarterly	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'

Table S4.5 Groundwater – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
GW1, GW17, GW4, GW7, GW11, GW12, GW13, GW14, GW15, GW16, and GW17 (As shown on drawing HRA3 Report no. 09514390018.501/A.0)	Water Level	Monthly	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'	m AOD
	pH	Monthly		Units
	Temperature	Monthly		°C
	Electrical Conductivity	Monthly		µS.cms
	Chloride	Monthly		mg/l
	Ammoniacal Nitrogen	Monthly		mg/l
	COD	Monthly		mg/l
	Nickel	Monthly		mg/l
	Total Alkalinity	Quarterly		mg/l
	Magnesium	Quarterly		mg/l
	Potassium	Quarterly		mg/l
	Calcium	Quarterly		mg/l
	Sodium	Quarterly		mg/l
	Nitrate	Quarterly		mg/l
	Sulphate	Quarterly		mg/l
	Phosphate	Quarterly		mg/l
	TON	Quarterly		mg/l
	TOC	Quarterly		mg/l
	Nitrite	Quarterly		mg/l
	Manganese	Quarterly		mg/l
	Iron	Quarterly		mg/l
	Chromium	Quarterly		mg/l
	Copper	Quarterly		mg/l
	Lead	Quarterly		mg/l
	Zinc	Quarterly		mg/l
	Cadmium	Quarterly		mg/l
	Mercury	Quarterly		mg/l
	Arsenic	Quarterly		mg/l
	Hazardous substances screen (for substances identified within Leachate)	Annually		In accordance with Appendix 6 of Environment Agency Guidance Document LFTGN 01 – Hydrogeological Risk Assessment for Landfills

Table S4.6 Point Source Emissions to Water (Other than Sewer) – emission limits and monitoring					
Emission point Ref. & Location	Parameter	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Installation surface water management system discharge point into surface waters SW1 and SW3 as shown on Drawing HRA3 (Report No. 09514390018.501/A.0)	Suspended Solids BOD Ammoniacal Nitrogen pH Visible Oil and Grease	50 mg/l 5 mg/l 1 mg/l >6 and <9 None	Spot Samples	Monthly	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'

Table S4.7 Surface water – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Installation surface water management system discharge point into surface waters SW1 and SW3 as shown on Drawing HRA3 (Report No. 09514390018.501/A.0)	pH	Monthly	In accordance with Environment Agency Document TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'	Units
	Temperature	Monthly		°C
	Electrical conductivity	Monthly		µS/cms
	Chloride	Monthly		mg/l
	COD	Monthly		mg/l
	Nickel	Monthly		mg/l
	Suspended solids	Monthly		mg/l
	Dissolved Oxygen	Monthly		mg/l
	BOD	Quarterly		mg/l
	Total alkalinity	Quarterly		mg/l
	Magnesium	Quarterly		mg/l
	Potassium	Quarterly		mg/l
	Calcium	Quarterly		mg/l
	Sodium	Quarterly		mg/l
	Nitrate	Quarterly		mg/l
	Sulphate	Quarterly		mg/l
	Phosphate	Quarterly		mg/l
	TON	Quarterly		mg/l
	TOC	Quarterly		mg/l
	Nitrite	Quarterly		mg/l
	Manganese	Bi-annually		mg/l
	Iron	Bi-annually		mg/l
	Chromium	Bi-annually		mg/l
	Copper	Bi-annually		mg/l
	Lead	Bi-annually		mg/l
	Zinc	Bi-annually		mg/l
	Cadmium	Bi-annually		mg/l
	Mercury	Bi-annually		mg/l
	Arsenic	Bi-annually		mg/l
	Hazardous substances screen (for substances identified within leachate)	Annually		In accordance with Appendix 6 of Environment Agency Guidance Document LFTGN01 – Hydrogeological Risk Assessments for Landfills

Table S4.8 Point Source Emissions to Air – emission limits and monitoring require

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
N/A						

Table S4.9 Landfill gas in external monitoring boreholes – limits and monitoring requirements				
Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
All landfill gas monitoring boreholes, locations as shown on Drawing 6 (Report No. 09514390018.501/A.0)	Methane Carbon Dioxide Oxygen Atmospheric pressure Differential Pressure Temperature Meteorological data	1 %v/v No limit no limit no limit no limit no limit no limit	Monthly	In accordance with Environment Agency Guidance Document LFTGN03 'Guidance on the Management of Landfill Gas'.

Table S4.10 Landfill gas – other monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
All in-waste landfill gas monitoring boreholes	Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Differential pressure Temperature Meteorological data	Monthly	In accordance with Environment Agency Guidance Document LFTGN03 'Guidance on the Management of Landfill Gas'	Limit of 100ppm for Carbon Monoxide
All landfill gas extraction wells	Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Differential pressure Temperature Gas flow rate Meteorological data	Fortnightly	In accordance with Environment Agency Guidance Document LFTGN03 'Guidance on the Management of Landfill Gas'	Limit of 5% for oxygen
Gas collection system manifolds	Landfill gas composition Trace gas analysis	Annually	In accordance with Environment Agency Guidance Document LFTGN03 'Guidance on the Management of Landfill Gas'	

Table S4.11 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	0.001 mg/m ² /second	Annually *	In accordance with Environment Agency Document TGN07 'Guidance on Monitoring Landfill Gas Surface Emissions'
Temporarily capped zone	Average Methane flux	0.1 mg/m ² /second	Annually *	In accordance with Environment Agency Document TGN07 'Guidance on Monitoring Landfill Gas Surface Emissions'

Footnote * If a cap has previously been shown compliant and there have been no significant physical changes in the gas management during the year, a detailed walkover survey can be used to demonstrate that the surface emissions are under control. If this survey shows no change in the pattern of methane emissions, it may be used as the annual survey. If the zone remains stable, the results of a full walkover survey may be accepted as the site report for a period of four years before a further quantitative flux box survey is required.

Table S4.12: Particulate emission limits into air			
Parameters	Frequency	Monitoring point(s)	Emission Limit at site boundary
Suspended particulate PM10	Quarterly	PM10	50 µg/m ³ measured as a 24 hour mean concentration or 40 µg/m ³ when measured as an annual mean
Deposited dust	Quarterly	EMP1,2,3 and 4	200 mg/m ² day ⁻¹

Schedule 5 - Reporting

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

Table S5.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Leachate levels As required by condition 4.7.1	All leachate monitoring points	Every 3 months	From date of installation of monitoring boreholes
Emissions to air Parameters as required by condition 4.7.1	Landfill gas flare emission monitoring point	Every 12 months	From date of commencement of flaring
	Landfill gas engine emission monitoring point	Every 12 months	From date of commissioning of gas engines
Emissions to water Parameters as required by condition 4.7.1	SW1 and SW3	Every 3 months	From date of issue of Permit
Groundwater Parameters as required by condition 4.7.1	GW7, GW11, GW12, GW13, GW14	Every 3 months	From date of issue of Permit and date of installation of boreholes
Landfill gas surface emissions Parameters as required by condition 4.7.1	All permanently or temporarily capped areas	Every 12 months	From date of issue of Permit
Particulate matter Parameters as required by condition 4.7.1	PM10 and EMP 1,2,3, and 4	Every 3 months	From date of issue of Permit
Landfill gas lateral migration Parameters as required by condition 4.7.1	All peripheral landfill gas boreholes	Every 3 months	From date of issue of Permit and date of installation of boreholes
Other Landfill gas monitoring Parameters as required by condition 4.7.1	All landfill gas in-waste monitoring points.	Every 3 months	From date of installation of boreholes, wells and manifolds.
	All landfill gas extraction wells.	Every 3 months	
	Gas collection system manifolds	Every 12 months	
Other leachate monitoring Parameters as required by condition 4.7.1	All Leachate monitoring points.	Every 3 months	From date of issue of Permit
	Volatiles, semi-volatiles, semi-volatiles derivatised, Hazardous Substance Screen	Every 12 months	

Table S5.2: Annual Production/Treatment	
Leachate: Disposed of off site; Disposed of to any onsite effluent treatment plant; Recirculated into the waste mass	Cubic metres/year
Surface water and/ or groundwater: Disposed of off site; Disposed of to any onsite effluent treatment plant	Cubic metres/year
Landfill gas: combustion in flares; combustion in gas engines; Other methods of gas utilisation.	Normalised cubic metres/year

Table S5.3 Performance Parameters			
Parameter	Frequency of assessment	Annual total	Unit
Potable water use	Annually		Cubic metres
Energy used	Annually		MW of electricity
Non potable water use	Annually		Cubic metres

Schedule 6 - 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 Pollution Prevention and Control (Industrial Emissions) Regulations.

Part A

Permit Number	
Variation Notice Number	
Name of Operator	
Location of Installation	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution	
To be notified immediately following 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 limit the environmental consequences and prevent further possible incidents or accidents.	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection	
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	

(c) Notification requirements for the breach of a permit condition	
To be notified within 24 hours of detection	
Condition reference	
Description of breach and effect on the environment	
Date and time of detection	
Measures taken, or intended to be taken, to restore compliance	

(d) 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 installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Operator.

Schedule 7 - Interpretation

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

"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 4 to the PPC Regulations

"Authorised Officer" means any person authorised by the Chief Inspector under Regulation 8 of the Pollution Prevention and Control (Industrial Emissions) Regulations 2013

"BAT" means Best Available Techniques, as defined in Regulation 3 of the Regulations.

"Biannual" means twice per year with at least five months between tests.

"Chief Inspector" means the person so appointed under Regulation 8 of the PPC Regulations.

"Construction Proposals" means written information, at a level of detail appropriate to the complexity and pollution risk, on the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the New Cell or Landfill Infrastructure.

"CQA Validation Report" means the final "as built" construction and engineering details of the New Cell or 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-compliances and the solution applied;
- Any other site specific information considered relevant to proving the integrity of the New Cell or Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

"Fugitive emission" means an emission to air, water or land from the Activities which is not controlled by an emission limit.

"Groundwater" means all water which is below the surface of the ground in the saturation zone and in direct contact with the soil and sub-soil.

"Groundwater Regulations" means the Groundwater Regulations (Northern Ireland) 2009, and words and expressions used in this Permit which are also used in the Regulations shall have the same meanings as in those Regulations.

"Gypsum based or other high sulphate material" means any wastes containing more than 10% sulphate in any one load.

"Inspector" means a person appointed under Regulation 8 of the Regulations.

"Landfill Infrastructure" means any specified element of the:

- permanent capping;
- temporary capping (i.e. engineered temporary caps not cover materials);
- leachate abstraction systems;
- leachate transfer, treatment and storage systems;
- surface water drainage systems;
- leachate monitoring wells;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;
- landfill gas management systems;

within the Site.

"*Landfill Regulations*" means the Landfill Regulations (Northern Ireland) 2003 and words and expressions used in this Permit which are also used in the Regulations shall have the same meanings as in those Regulations.

"*Liquids*" means any liquid other than leachate within the engineered landfill containment system.

"*LFTGN 05*" means Environment Agency Guidance for monitoring enclosed landfill gas flares, September 2004.

"*LFTGN 08*" means Environment Agency Guidance for monitoring landfill gas engines, September 2004.

"*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.

"*The Regulations*" means The Pollution, Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 and words and expressions used in this Permit which are also used in the Regulations have the same meanings as in those Regulations.

"*Quarter*" means a calendar year quarter commencing on 1 January.

"*Relevant person*" and "*relevant offence*" shall have the meanings given to them in the Waste and Contaminated Land (Northern Ireland) Order 1997

"*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 Groundwater 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 Groundwater Regulations

"*Technically competent management*" and "*technical competence*" shall have the meanings given to them in the Waste and Contaminated Land (Northern Ireland) Order 1997.

"*Year*" means calendar year ending 31 December.

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 Environment Agency Guidance for Monitoring Enclosed Landfill Gas Flares LFTGN 05 or Guidance for Monitoring Landfill Gas Engine Emissions LFTGN 08.

END OF PERMIT

Variation Notice with introductory note

The Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013

Dargan Road Gas Utilisation Plant

North Foreshore Landfill
Dargan Road
Belfast
BT3 9JP

Permit number

P0307/09A

Variation Notice Number

P0307/09A/V1

Dargan Road Gas Utilisation Plant

Variation Notice Number P0307/09A/V1

Introductory note

This introductory note does not form a part of the Permit

The following Notice is issued under Regulation 19 of the Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 ("the Regulations") to vary the conditions of a Permit issued under those Regulations to operate an installation carrying out one or more of the activities listed in Part 1 to Schedule 1 of those Regulations. The Notice comprises a Schedule containing conditions to be deleted, amended and/or added.

The Notice includes conditions that have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by those conditions are subject to the condition implied by Regulation 12(9) of the Regulations, that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

The enforcing authority for part A installations in Northern Ireland is the Chief Inspector. Under Regulation 8(4) any function of the Chief Inspector may be delegated to any other Inspector appointed by the Department of the Environment and references to the Chief Inspector should be interpreted accordingly.

The Chief Inspector has assigned responsibility for specified waste management activities to Waste Management.

The installation name is Dargan Road Gas Utilisation Plant. The installation operates 7 days a week, 24 hours a day and will normally be unmanned as the plant is designed to operate in such a manner; however it will be visited at least weekly by a landfill gas technician. The facility will be monitored remotely via a telemetry link and an engineer will attend the site as soon as possible in the event of a breakdown. The area for the installation covers approximately 0.2 hectares. It is located at Northern Ireland grid reference 334965, 377891. The installation is owned and operated by Renewable Power Systems (Dargan Road) Limited.

The installation accepts landfill gas from Dargan Road Landfill which is operated by Belfast City Council. Initially the installation consisted of five Caterpillar 3516 landfill gas spark ignition engines but as the lifetime of the site progresses the number of engines will decrease in line with gas production. Each engine has a designed electrical output of 1136KW which will burn landfill gas (approximately 56% methane and 43% carbon dioxide) transported to the installation via a below ground medium density polyethylene (MDPE) pipe running from the gas collection system on the adjacent landfill and is distributed to the engine(s) using an underground MOPE pipe. During periods when one or more engine(s) are non-operational the excess gas will be directed to one or both of the flares on the adjacent landfill. The process will also include associated

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items of plant such as generators and air blast chillers. The landfill gas blowers, flares, extraction system and knockout pots are not part of the proposed installation as this infrastructure is currently operated by Belfast City Council on the adjacent landfill site that is regulated under an existing Waste Management Licence.

The combustion gases are vented to atmosphere via a single 7 metre high stack on each engine. Power generated from the engines is converted to the correct voltage by transformer units and electricity is then transferred to the Northern Ireland Electricity substation south of the site for distribution.

Clean and waste lubricating oils will be stored within 5000 litre 110% self contained bunded (double skinned) tanks. Antifreeze will be stored in two 55 gallon drums within a fully enclosed chemical container with an integral drip tray.

Emission to air consist of combustion products from the landfill gas and are oxides of nitrogen, sulphur dioxide, carbon dioxide, carbon monoxide, methane, unburnt hydrocarbons and particulate matter. There are no point source emissions to sewer or surface water and there are no discharges to groundwater or land at the installation.

The installation has an Environmental Management System, which is not certified to ISO 14001.

There is one European site designated as an ASSI, SPA and Ramsar site within 10km of the Installation, the Belfast Lough.

In some sections of the Permit conditions require the Operator to use Best Available Techniques (BAT), in each of the aspects of the management of the Installation, to prevent and where that is not practicable to reduce emissions. In determining BAT, the Operator should pay particular attention to relevant sections of the IPPC Sector guidance, appropriate Horizontal guidance and other relevant guidance.

Status Log of the permit		
Detail	Date	Response Date
Application	Duly made 02/04/2009	
Additional Information Received	08/07/2009	
Permit Determined	20/08/2009	
Permit Varied	28/04/2016	

Talking to us

This Notice is issued by the Waste Management Unit of the Northern Ireland Environment Agency. We can be contacted on the telephone using the telephone number 028 9056 9747.

The Operator should use the Emergency Hotline telephone number (0800 80 70 60) to notify of any accident which has caused or has the potential to cause water pollution.

Confidentiality

This Notice requires the Operator to provide information to the Chief Inspector. We will place the information onto the public registers in accordance with the requirements of the Regulations. If the Operator considers that any information provided is commercially confidential, they may apply to the Chief Inspector to have such information withheld from the register as provided in the Regulations. To enable us to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Variations to the permit

This Permit may be varied in the future. The Status Log within the Introductory Note to any such variation will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the permit

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made. For the applicant to be successful, they would have to be able to demonstrate to the Chief Inspector, in accordance with Regulation 22, where applicable, of the Regulations, that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the permit or part of the permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 20 of the Regulations. A transfer will be allowed unless the Chief Inspector considers that the proposed holder will not be the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit. If the Permit authorises the carrying out of a specified waste management activity, then there is a further requirement that the transferee is considered to be a "fit and proper person" to carry out that activity.

End of Introductory Note

Permit

Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013

Variation Notice

Classification: Hazardous

Variation Notice Number

P0307/09A/V1

The Chief Inspector in exercise of his powers under Regulation 19 of the Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 hereby varies Permit Number P0307/09A, as held by;

Renewable Power Systems (Dargan Road) Limited ("the Operator"),

Whose Registered Office is

Northwood House

138 Bromham Road

Bedford

MK40 2QW

Company Registration Number: 6649709

to operate an installation at

North Foreshore Landfill

Dargan Road

Belfast

BT3 9JP

to the extent authorised by and subject to the conditions in the Schedule to this Notice

This Notice shall take effect from **28th April 2016**

Signed

Date

	28 / 4 / 2016
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Authorised to sign on behalf of the Chief Inspector

SCHEDULE TO NOTICE

1. CONDITIONS TO BE DELETED

All existing conditions for permit P0307/09A

2. CONDITIONS TO BE ADDED

The following conditions and schedules are added to the permit.

CONDITIONS

1. Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities in accordance with a Site Specific Management Plan (The Management Plan), agreed by the Chief Inspector, that shall detail the operational procedures to be used to manage the Activities at the Site.

The Management Plan shall include (but not limited to) the following:

- Site infrastructure
- Site management and control procedures
- Emergency/incident procedures
- Environmental monitoring techniques and procedures
- Odour and odorous waste monitoring and management procedures
- Noise and vibration monitoring and management procedures
- Site closure management procedures

- 1.1.2 The Activities shall, subject to the conditions of this permit, be managed and operated:

- (a) using the techniques and in the manner described in the Management Plan provided and agreed in accordance with condition 1.1.1, unless otherwise agreed in writing by the Chief Inspector; and
- (b) by sufficient persons who are technically competent in respect of the responsibilities to be undertaken by them in connection with the operation of the Activities.

- 1.1.3 Any proposed changes by the Operator to the Management Plan shall be submitted in writing by Recorded Delivery to the Chief Inspector. The Management Plan shall only be amended in accordance with the proposed change(s) if, and to the extent that, either;

- (a) the Chief Inspector gives written consent to the proposed change(s), or
- (b) the Chief Inspector has not indicated in writing within 28 days of the proposed change(s) that the proposed change(s) are rejected.

- 1.1.4 Records demonstrating compliance with condition 1.1.2 shall be maintained.

- 1.1.5 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.

1.1.6 The Operator shall undertake a weekly inspection of the site for compliance with the conditions of this Permit. The inspection shall include, but not be limited to:

- (a) Site boundary and security measures;
- (b) Site infrastructure;
- (c) Fugitive emissions;
- (d) Odour;
- (e) Noise and vibration;

1.1.7 A record shall be kept of each inspection undertaken in accordance with condition 1.1.6, including the following details:

- (a) Date and start and finish times of inspection;
- (b) Person(s) carrying out the inspection;
- (c) Areas of non-compliance identified;
- (d) Actions taken or to be taken to rectify any non-compliance, including timescales.

1.2 Breach of permit conditions

1.2.1 In the event that a breach of any permit condition poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the Operator shall immediately suspend the operation of the installation or the relevant part of it until compliance with permit conditions has been restored.

1.2.2 In the event of a breach of any permit condition, the Operator shall inform the Chief Inspector immediately using the means referred to in condition 5.3.2 and take the measures necessary to ensure that compliance is restored within the shortest possible time.

1.3 Accidents that may cause pollution

1.3.1 The Operator shall:

- (a) maintain and implement an accident management plan;
- (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
- (c) make any appropriate changes to the plan identified by a review.

1.3.2 The Operator shall inform the Chief Inspector, immediately, of any accident which has caused, is causing or has the potential to cause significant pollution and to immediately take all appropriate measures to limit the environmental consequences and to prevent further possible accidents.

1.4 Finance

1.4.1 Financial provision does not apply as this is not operating a waste activity.

1.5 Energy efficiency

1.5.1 The Operator shall:

- (a) review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the Activities; and
- (b) implement any appropriate measures identified by a review.

1.6 Avoidance, recovery and disposal of wastes produced by the activities

1.6.1 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.

1.6.2 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.

1.7 Site security

1.7.1 Site security measures shall prevent unauthorised access to the Site, as far as practicable.

1.8 Multiple operator installations

1.8.1 This is not a multi operator installation.

2. Operations

2.1 Permitted activities

- 2.1.1 The Operator is authorised to carry out the activities specified in Schedule 1 Table S1.1 (the "Activities") at the Permitted Installation to which this permit applies.

2.2 The site

- 2.2.1 The Activities shall not extend beyond the site of the Permitted Installation ("the Site"), being the land shown edged in red on the Site Plan in Schedule 2 to this Permit.

2.3 Off-site conditions

- 2.3.1 There are no off-site conditions.

2.4 Commencement

- 2.4.1 No condition applies.

2.5 Pre-operation Conditions

- 2.5.1 There are no pre-operating conditions.

2.6 Improvement programme

- 2.6.1 There are no improvement conditions.

2.7 Closure, aftercare and decommissioning

- 2.7.1 The Operator shall maintain and operate the Activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.
- 2.7.2 The Operator shall maintain a Site Closure Plan which demonstrates how the Activities can be decommissioned to avoid any pollution risk and return the site of operation to a satisfactory state.
- 2.7.3 The Operator shall carry out and record a review of the Site Closure Plan at least every 4 years.
- 2.7.4 The Site Closure Plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the Activities or part thereof.

2.8 System for the protection of soil and groundwater

- 2.8.1 The Operator shall carry out monitoring of the condition of groundwater and soil and compare with the measurements in the baseline report (or previous application site report), at least every 5 years for groundwater and every 10 years for soil unless such monitoring is based on a systematic appraisal of the risk of contamination.

- 2.8.2 Where the Operator has made an acceptable case that a baseline report is not required at the application stage, a review of this conclusion is required at least every 5 years.

2.9 Engineering

- 2.7.1. No construction of any site infrastructure shall commence until the Operator has submitted Construction proposals, including a CQA Plan or equivalent standard and the Chief Inspector has acknowledged and confirmed that he is satisfied.
- 2.7.2 The construction of any site 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 Chief Inspector.
- 2.7.3 New Site infrastructure shall not come into operation until the Operator has submitted a CQA validation report or a validation report to an equivalent standard and the Chief Inspector has confirmed that he is satisfied.
- 2.7.4 The construction of new Site 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 Chief Inspector.
- 2.7.5 The Operator shall submit either a CQA validation report or a validation report to an equivalent standard that meets the satisfaction of the Chief Inspector following construction of the relevant site infrastructure.
- 2.7.6 For the purposes of conditions 2.7.3, 2.7.4 and 2.7.5, the Chief Inspector shall be deemed to be satisfied where he has not, within the period of 4 weeks from the date of receipt of the relevant Construction Proposals or CQA Validation report or a validation report to an equivalent standard, either:
- (a) Confirmed whether or not is satisfied; or
 - (b) Informed the Operator that he requires further information

3. Site Infrastructure

3.1 Noticeboards

3.1.1 A notice board of durable material and finish shall be displayed at the entrance to the Site. The notice board shall contain the following information, which shall be legible from outwith the boundary of the Site:-

- the Site name, address and PPC number;
- the Site Operator's name;
- the Site opening times;
- emergency contact telephone number for the Operator; and
- telephone number of the NIEA Waste Management Unit.

3.2 Liquid storage

3.2.1 All containers used to store any liquids whose emission to water or land could cause pollution within the Permitted Installation shall be located in a bund. The minimum capacity of any bund shall be either 110% of the capacity of the largest container, or 25% of the total capacity of all the containers within the bund, which-ever is the greater. In the event of any containers being connected to one another, they shall be treated as one container.

3.2.2 The accumulation of rainwater, spillages or leaks shall be managed to ensure that at least 95% of the capacity of the bund is free of liquid.

4. Emissions and monitoring

4.1 Emissions to water, air or land

- 4.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in Table S4.1 of Schedule 4.
- 4.1.2 The limits given in that Schedule shall not be exceeded, save that compliance with an emission limit shall include incorporation of the uncertainty allowance stated in Environment Agency guidance documents LFTGN 05 and LFTGN 08.

4.2 Fugitive emissions of substances

- 4.2.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The Operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable, to minimise, those emissions.

4.3 Odour

- 4.3.1 Emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an Authorised Officer of the Chief Inspector, 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 odour.

4.4 Noise and vibration

- 4.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause annoyance outside the Site, as perceived by an Authorised Officer of the Chief Inspector, unless the Operator has used appropriate measures to prevent or where that is not practicable to minimise the noise and vibration.

4.5 Monitoring

- 4.5.1 The Operator shall, unless otherwise agreed in writing by the Chief Inspector, undertake monitoring for the parameters, at the locations and at not less than the frequencies specified in the following tables in Schedule 4 to this Permit:
 - (a) Point source emissions specified in Table S4.1;
- 4.5.2 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.

5. Information

5.1 Records

- 5.1.1 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 Chief Inspector, 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) the results of soil and groundwater monitoring referred to in condition 2.8.1;
 - (ii) landfill gas generation and collection;
- 5.1.2. Any records required to be made by this permit shall be supplied to the Chief Inspector within 14 days where the records have been requested in writing by the Agency.
- 5.1.3 All records required to be held by this permit shall be held on site and shall be available for inspection by the Chief Inspector at any reasonable time.

5.2 Reporting

- 5.2.1 A report or reports on the performance of the Activities over the previous year shall be submitted to the Chief Inspector by 31 January (or other date agreed in writing by the Chief Inspector) 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 with the Application;
 - (b) where the Operator's Management Plan encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
 - (c) the energy consumed at the Site, reported in the format set out in Schedule 5 Table S5.3;
 - (d) the water consumed at the Site, reported in the format set out in Schedule 5 Table S5.3;
 - (e) the annual production/treatment set out in Schedule 5 Table S5.2;
 - (f) details of any contamination or decontamination of the Site which has occurred;
 - (g) the compliance testing undertaken in the period.
- 5.2.2 Within 28 days of the end of the reporting period the Operator shall, unless otherwise agreed in writing by the Chief Inspector, 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 Table S5.1 of Schedule 5;
 - (b) for the reporting periods specified in Table S5.1 of Schedule 5.

- 5.2.3 The Operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Chief Inspector, within 6 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.
- 5.2.4 The results of reviews and any changes made to soil and groundwater monitoring referred to in condition 2.8.2 shall be reported to the Chief Inspector, within 1 month of the review or change.
- 5.2.5 The Operator shall complete a Pollution Inventory Reporting Form in respect of the Permitted Installation during the previous year in accordance with the instructions and definitions included in the Form and submit the completed Form to the Chief Inspector by 31 January each year.

5.3 Notifications

- 5.3.1 The Chief Inspector shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the Permit;
 - (c) the breach of a permit condition; and
 - (d) any significant adverse environmental effects.
- 5.3.2 Any information provided under condition 5.3.1 shall be confirmed by sending the information listed in Schedule 6 to this Permit within the time period specified in that schedule.
- 5.3.3 Prior written notification shall be given to the Chief Inspector of the following events and in the specified timescales:
- (a) as soon as practicable prior to the permanent cessation of any of the permitted activities;
- 5.3.4 The Chief Inspector shall be given at least 14 days notice before implementing any part of the Site Closure Plan in respect of any activities other than the disposal of waste in the landfill.
- 5.3.5 Where the Chief Inspector has requested in writing that he shall be notified when the Operator is to undertake monitoring and/or spot sampling, the Operator shall inform the Chief Inspector when the relevant monitoring is to take place. The Operator shall provide this information to the Chief Inspector at least 14 days before the date the monitoring is to be undertaken.
- 5.3.6 The Chief Inspector shall be notified within 7 days of any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence.
- 5.3.7 The Chief Inspector shall be provided, within 14 days of the Operator or any relevant person being convicted of a relevant offence, (unless such information has already been notified to the Chief Inspector), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.

- 5.3.8 The Chief Inspector shall be notified within 14 days of the Operator and/or any relevant person lodging an appeal against a conviction for any relevant offence and of the outcome when the appeal is decided.
- 5.3.9 The Chief Inspector shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- (a) any change in the Operator's trading name, registered name or registered office address;
 - (b) any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary); and
 - (c) any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up.

5.4 Interpretation

- 5.4.1 In this Permit the expressions listed in Schedule 7 shall have the meaning given in that schedule.

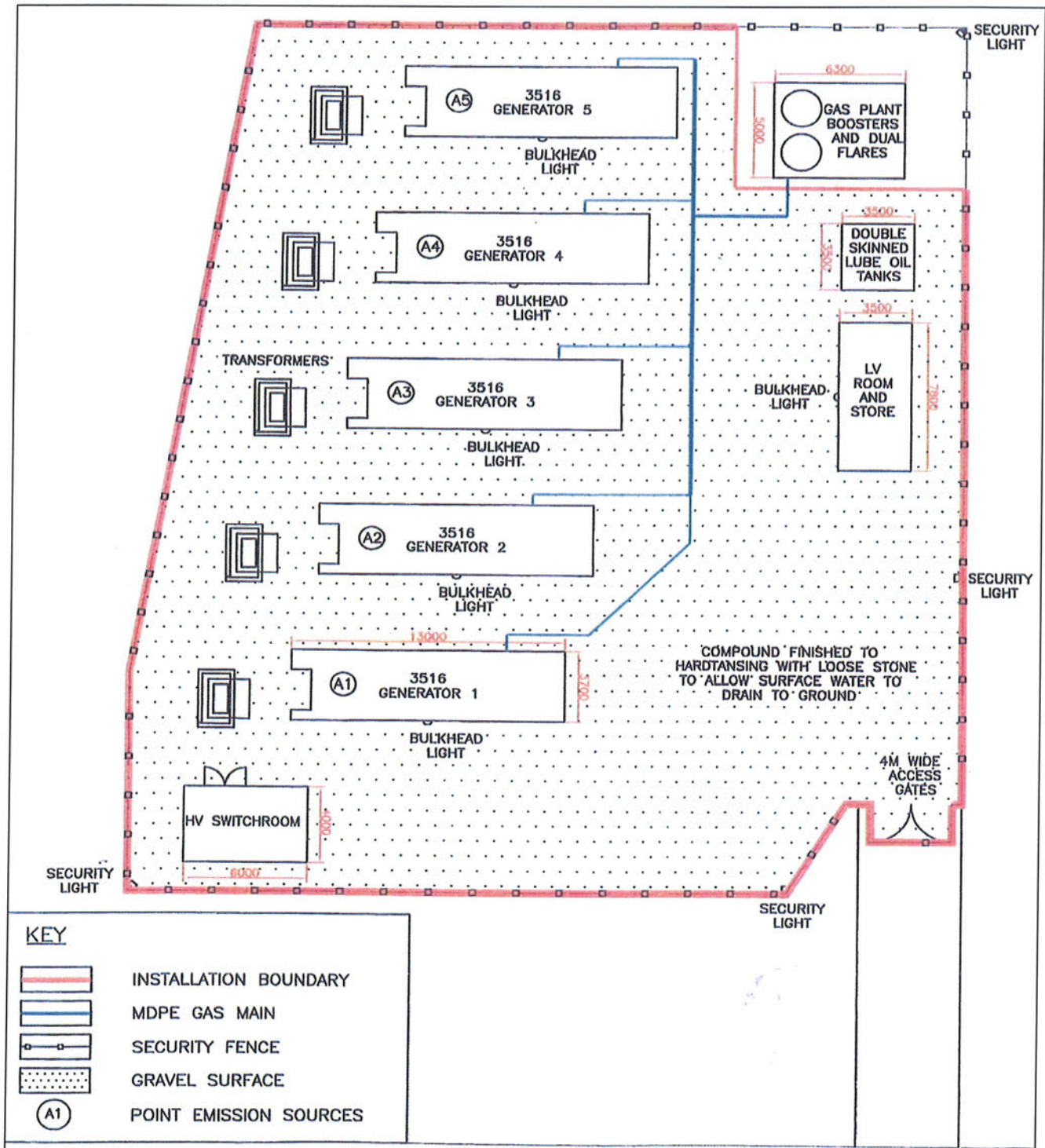
Schedule 1 - Operations

Table S1.1 Activities		
Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
Section 5.1 Part A (h) Unless carried out as part of any other activity in this part, the incineration of a fuel manufactured from a waste in an appliance with a rated thermal input over 3 megawatts	Combustion of landfill gas and production of electricity.	From receipt of raw materials to despatch of products and waste.
Directly Associated Activity		
Directly Associated activity	Oil and Chemical storage.	Storage, receipt and use of oil and chemicals.
Directly Associated Activity	Operation of systems for supply of utilities and services.	Utilities and services systems within the installation boundary.
Directly Associated Activity	Handling and storage of waste oil.	Storage and despatch of waste oil.

Table S1.2 Pre operational Measures	
Reference	Pre-operational Measures
	None

Table S1.3 Improvement Programme Requirements		
Reference	Requirement	Date
	None	

Schedule 2 - Site Plan



NOTE: This site map relates to when the installation was first permitted on 20th August 2009. As the site has developed the number of gas engines required has reduced and those surplus to requirements have been removed from the compound. As of the date of this Permit there were only 2 engines left on site; Generator 1 and Generator 2.

Schedule 3 – Waste Types, raw materials and fuels

Table 3.1 Raw Materials and Fuels	
Raw Materials and Fuel description	Specification
Lubricating Oils	Mobil Pegasus SR or equivalent
Anti-Freeze	DEAC 8C3686 or equivalent

Schedule 4 – Emissions and monitoring

Table S4.1 Point Source Emissions to Air – emission limits and monitoring requirements – Gas Utilisation Plant

Emission point Ref. & Location	Parameter	Limit (including unit)	Reference Period	Monitoring Frequency	Standard	Monitoring Standard or Method
• A1 • A2 (As shown in Schedule 2 - site plan)	Oxides of Nitrogen	500 mg/m ³	Hourly Mean	Annually ¹	ISO 10849:1996	In accordance with the relevant Environment Agency's Technical Guidance Note: Guidance for monitoring Landfill Gas Engine Emissions LFTGN08.
	CO	1400mg/m ³	Hourly Mean	Annually ¹	ISO 12039:2001	
	Total VOCs	1000mg/m ³	Hourly Mean	Annually ¹	BS EN 12619:2013	
	Flow			Continuous		
	Temperature			Continuous		

¹ Quarterly monitoring shall be undertaken of the identified parameters using a portable combustion analyser, unless agreed otherwise in writing with the Agency.

Schedule 5 - Reporting

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

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 4.5.1	Landfill Gas Engine emission monitoring point	Every 12 Months	From date of Permit

Table S5.2: Annual Production/Treatment

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

Table S5.3 Performance Parameters

Parameter	Frequency of assessment	Annual total	Unit
Water usage	Annually		Cubic metres
Energy usage	Annually		MW of electricity
Energy generated	Annually		MW of electricity
Landfill gas usage	Annually		Cubic metres

Schedule 6 - 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 Pollution Prevention and Control (Industrial Emissions) Regulations.

Part A

Permit Number	P0307/09A
Variation Notice Number	P0307/09A/V1
Name of Operator	Renewable Power Systems (Northern Ireland) Ltd
Location of Installation	North Foreshore Landfill, Dargan Road, Belfast, BT3 9JP
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution To be notified immediately following 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 limit the environmental consequences and prevent further possible incidents or accidents.	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit To be notified within 24 hours of detection	
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	

(c) Notification requirements for the breach of a permit condition	
To be notified within 24 hours of detection	
Condition reference	
Description of breach and effect on the environment	
Date and time of detection	
Measures taken, or intended to be taken, to restore compliance	

(d) 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 installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Operator.

Schedule 7 - Interpretation

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

"Application" means the application for this permit or to vary any condition of this permit together with any response to any notice served under the Regulations and any operational change agreed under the conditions of this permit.

"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 4 to the PPC Regulations

"Authorised Officer" means any person authorised by the Chief Inspector under Regulation 8 of the Pollution Prevention and Control (Industrial Emissions) Regulations 2013

"BAT" means Best Available Techniques, as defined in Regulation 3 of the Regulations.

"Biannual" means twice per year with at least five months between tests.

"Chief Inspector" means the person so appointed under Regulation 8 of the PPC Regulations.

"Construction Proposals" means written information, at a level of detail appropriate to the complexity and pollution risk, on the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the New Cell or Landfill Infrastructure.

"Fugitive emission" means an emission to air, water or land from the Activities which is not controlled by an emission limit.

"Inspector" means a person appointed under Regulation 8 of the Regulations.

"LFTGN 05" means Environment Agency Guidance for monitoring enclosed landfill gas flares, September 2004.

"LFTGN 08" means Environment Agency Guidance for monitoring landfill gas engines, September 2004.

"No impact" means that the change made to the construction process will not alter the agreed design criteria, specification or performance.

"The Regulations" means The Pollution, Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 and words and expressions used in this Permit which are also used in the Regulations have the same meanings as in those Regulations.

"Quarter" means a calendar year quarter commencing on 1 January.

"Relevant person" and *"relevant offence"* shall have the meanings given to them in the Waste and Contaminated Land (Northern Ireland) Order 1997

"Technically competent management" and *"technical competence"* shall have the meanings given to them in the Waste and Contaminated Land (Northern Ireland) Order 1997.

"Year" means calendar year ending 31 December.

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 Environment Agency Guidance for Monitoring Enclosed Landfill Gas Flares LFTGN 05 or Guidance for Monitoring Landfill Gas Engine Emissions LFTGN 08.

END OF PERMIT

Waste and Contaminated Land (NI) Order 1997

WASTE MANAGEMENT LICENCE

LICENCE REF No: - LN/08/46/C/V3

FACILITY TYPE: - Closed Landfill Site

The Department Agriculture, Environment and Rural Affairs, in pursuance of the Waste and Contaminated Land (NI) Order 1997, hereby modifies the Waste Management Licence authorising the aftercare of the Landfill Site located on land specified in Schedule 1 of this Licence to:

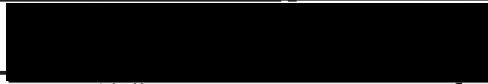
Belfast City Council
North Foreshore Landfill
Dargan Road
BELFAST
County Antrim
BT3 9JU

that person being in occupation of the said land, the said Licence being subject to the conditions specified in schedule 2 to this Licence.

SCHEDULE 1.- SPECIFIED LAND.

The Licence relates to the land at **Dargan Road Landfill Site, Dargan Road, Belfast County Antrim, BT3 9JU** (hereinafter called "the site") shown edged red on the attached map stamped by the Department on 3rd January 2017 and attached to this Licence.

On modification of the Waste Management Licence LN/08/46/C/V2, issued by the Department on the 12th September 2016 all conditions therein shall be deemed to be no longer valid and shall be replaced by those contained in Schedule 2 of this Licence which shall take effect forthwith.

Signed	
Name :- Eugene Kelly	
Authorised Officer of NIEA	
Dated	3 JANUARY 2017

**YOUR ATTENTION IS DRAWN TO THE RIGHTS OF APPEAL DETAILED AT THE
END OF THIS LICENCE**



SCHEDULE 2 - CONDITIONS RELATING TO THIS LICENCE

- 1 **General considerations**
- 1.1 **Specified waste management operations**
- 1.1.1 Only aftercare activities shall be authorised by this Licence.
- 1.1.2 No waste disposal activities shall be authorised by this Licence.
- 1.2 **Staffing and understanding of requirements of Licence conditions and Closure Plan**
- 1.2.1 *Minimum staffing and supervision*
Whenever the site is open for the aftercare activities, it shall be supervised by at least one member of staff who is suitably trained and fully conversant with the requirements of the Licence and the Closure Plan
- 1.2.2 *Availability of Licence and Closure Plan*
A copy of this Licence and the Closure Plan shall be made available to staff for reference when carrying out work under the requirements of the Licence.
- 1.2.3 *Understanding of Licence and Closure Plan*
All site staff shall be, or shall work under the direct supervision of a member of staff who is, fully conversant with those aspects of the Licence conditions and Closure Plan which are relevant to their specific duties.
- 1.3 **Technically Competent Persons**
- 1.3.1 The management of the aftercare activities permitted by this Licence shall be in the hands of a technically competent person. Any changes in the technically competent management of the site and the name of any incoming person together with evidence that such person has the required technical competence shall be submitted to the Department in writing within 5 working days of the change in management. Technically competent management and technical competence shall be as defined under The Waste Management (Amendment) Regulations (NI) 2015 SR No. 301.

1.4 Relevant convictions

Notification of relevant convictions

- 1.4.1 In the event of the Licence Holder and/or any relevant person being convicted of any prescribed offence (as defined by Regulation 2 of the 2003 Regulations) and which is in addition to any already notified to the Department, then full details shall be provided to the Department within 14 days following sentencing, whether or not the conviction or sentence is subsequently appealed. Such details shall include, in respect of each relevant person (as defined in Article 3 of the Waste and Contaminated Land (NI) Order 1997 or any subsequent amendments to those regulations), the nature of the offence, the place and date of conviction, and any fine or other penalty imposed.

Notifications of appeals against convictions

- 1.4.2 In the event that the Licence Holder and/or any relevant person lodges an appeal against any such conviction or sentence, the Licence Holder shall notify the Department of this within 14 days of the lodging. The Licence Holder shall notify the Department of the results of that appeal, within 14 days of the appeal being decided.

1.5 Maintenance of financial provision

- 1.5.1 The Licence Holder shall put in place financial provision to ensure the obligations outlined in this Licence.

The financial provision put in place by the Licence Holders shall be maintained by the Licence Holder throughout the subsistence of this Licence and the Licence Holder shall produce evidence of such provision whenever required by the Department

1.6 Notification of change of operator's or holder's details

This condition refers to changes in details concerning the existing Licence Holder / Operator. Any change in Licence Holder / Operator identity requires formal application to the Department. Change of Licence Holder / Operator outside these requirements constitutes a breach of a Licence condition.

- 1.6.1 The following information shall be submitted in writing within 5 working days to the Department:
- a where the Licence Holder is an individual or named individuals:
 - i where the Licence Holder consists of more than one named individual, the death of any of those individuals;
 - ii any change in the Licence Holder's name(s) or address(es);
 - iii any steps taken with a view to the Licence Holder, 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;
 - iv any change in the operator or in the operator's trading name, address, registered name or registered office address (if different from the Licence Holder);

- b** where the Licence Holder is a registered company:
 - i** i) any change in the Licence Holder's trading name, registered name or registered office address;
 - ii** ii) any steps taken with a view to the Licence Holder going into administration, entering into a company voluntary arrangement or being wound up;
 - iii** any change in the operator or in the operator's trading name, address, registered name or registered office address (if different from the Licence Holder);
- c** where the Licence Holder is a corporate body other than a registered company:
 - i** any change in the Licence Holder's name or address;
 - ii** any steps taken with a view to the dissolution of the Licence Holder;
 - iii** any change in the operator or in the operator's trading name, address, registered name or registered office address (if different from the Licence Holder)

1.7 Notification of Works

- 1.7.1** No preparatory works shall be undertaken until at least 7 days prior notice in writing has been given to the Department of the intention to do so. The notification shall include details of what work is being done and when.

1.8 Notifications and Submissions to the Department

- 1.8.1** Except where otherwise specified, all notifications and submissions to the Department under the requirements of these Licence conditions:
 - a.** Shall be made in writing to the address specified by the Department in writing at the time of issue of this Licence, or as subsequently specified by written notification to the Licence Holder.
 - b.** Shall quote the Licence reference number and the name of the Licence Holder.

Site engineering for pollution prevention and control

2.1 Aftercare Plan

2.1.1 The Licence Holder shall review, record and where necessary update the aftercare plan as follows:

- a. At least once per annum from the date of this modified Licence was issued. Following the completion of the restoration works must be reviewed every 4 years;
- b. Where the Licence Holder plans to make a substantial change to the aftercare plan, the proposed change shall be submitted to the Department in writing at least 28 days before the implementation of the change.

2.1.2 Aftercare Monitoring

- a. Unless otherwise agreed in writing by the Department, monitoring shall be undertaken for the specified elements in Table 2.1
- b. The results of any monitoring shall be forwarded to the Department with 28 days of the end of the monitoring frequency.

Table 2.1 Sampling and Monitoring Requirements

Settling behaviour	Landfill Site	Percentage Settlement	Annually
Topography of the Landfill Site	Landfill Site	Surface area occupied by waste, Volume of waste deposited.	Annually

2.2 Leachate Management

Monitoring of leachate

- 2.2.1 a. Unless otherwise agreed in writing by the Department, monitoring and sampling shall be undertaken for the parameters, at the specified locations identified in Table 2.2.
- a. The results and summary of any monitoring shall be forwarded to the Department within 42 days of the end of the monitoring frequency.

Table 2.2 Landfill leachate in waste and at discharge point			
Location	Parameter	Monitoring Frequency	Trigger Level
All leachate monitoring boreholes	Depth of leachate from the base of the landfill	Monthly (Manual dip readings)	
All leachate extraction boreholes: La Ld Le Lf Lg Lhr Li Ln Lm T2	Depth of leachate from the base of the landfill	Quarterly (Downloaded data from electronic data loggers)	
L5 L11 L18 La Lb Lc Ld Le Lf Lgr Lhr Li Lj Lk Ll Lm Lm Ln Lo Lp Lq Lr Ls Lt And any additional points as agreed in the accordance with the Leachate Management Plan	pH, Temperature, Electrical Conductivity, DO, NH ₄ -N, Cl, COD, BOD, TON, Sulphate, Visible Oil and Grease. Dissolved Oil and Grease, Phenols, Fluoride, Phosphate, Suspended Solids. As, Cr, Pb, Cd, Se, Hg, Cu, Ni, Zn, Fe, Mn, Na, K, Ca, Mg.	Quarterly	
R1 R2 R3 R4 And any additional points as agreed in the accordance with the Leachate Management Plan	Salinity, Total Petroleum Hydrocarbons, Ag, Aldrin, Dieldrin, Endrin, Isodrin, Carbon Tetrachloride, Chloroform, DDT	Annually	

Maintenance of leachate control and monitoring infrastructure

- 2.2.2
- a. All monitoring boreholes and other sampling points and access to them, shall be maintained to enable samples to be taken. Any borehole that is damaged or destroyed to the extent that sampling or monitoring in accordance with the requirements of this Waste Management Licence is not possible shall be replaced where as soon as possible. Damage to boreholes shall be recorded.
 - b. All leachate control infrastructure shall be maintained to ensure effective working of equipment .

2.3

Groundwater Management

Monitoring of groundwater

2.3.1

- a. Unless otherwise agreed in writing by the Department, monitoring and sampling shall be undertaken for the parameters, at the specified locations identified in Table 2.3.
- b. The results and summary of any monitoring shall be forwarded to the Department within 42 days of the end of the monitoring frequency.

Table 2.3 Groundwater Control and Trigger Levels

Location	Parameter	Monitoring Frequency	Control Level	Trigger Level
All groundwater monitoring points	Depth to groundwater	Monthly (Manual dip readings)		
BH30 BH31 BH33 BH34 A4R	Depth to groundwater	Quarterly (Downloaded data from electronic data loggers)		
A4R A1 A2 A3 A5 A6 A7 BH26 BH27 BH28R BH29R BH31 BH32 BH33 BH34 BH35	pH, Temperature, Electrical Conductivity, DO, NH ₄ -N, Cl, COD, BOD, TON, Sulphate, Visible Oil and Grease. Dissolved Oil and Grease, Phenols, Fluoride, Phosphate, Suspended Solids. As, Cr, Pb, Cd, Se, Hg, Cu, Ni, Zn, Fe, Mn, Na, K, Ca, Mg.	Quarterly		
A6 A7 BH31 BH32 And any additional boreholes as agreed by the Chief Inspector on submission of condition 1.7	Organohalogen compounds. Organophosphorous compounds. Organotin Compounds. Cyanide, VOCs, PCBs, Fluoride. Sb, Ti, Be, B, Ba, U, V, Co, Th, Te, Ag.	Annually		

Maintenance of groundwater control and monitoring infrastructure

- 2.3.2
- a. All monitoring boreholes and other sampling points and access to them, shall be maintained to enable samples to be taken. Any borehole that is damaged or destroyed to the extent that sampling or monitoring in accordance with the requirements of this Waste Management Licence is not possible shall be replaced where as soon as possible. Damage to boreholes shall be recorded.
 - c. All groundwater control infrastructure shall be maintained to ensure effective working of equipment and to ensure contamination of groundwater is prevented.

2.4 Surface Water, Marine Water and Sediments Management

Monitoring of surface water, Marine Water and Sediments

- 2.4.1
- a. Unless otherwise agreed in writing by the Department, monitoring and sampling shall be undertaken for the parameters, at the specified locations identified in Tables 2.4, 2.4a and 2.4b
 - c. The results and summary of any monitoring shall be forwarded to the Department within 42 days of the end of the monitoring frequency.

Table 2.4 Surface Water Monitoring		
Location	Parameter	Monitoring Frequency
SW1 SW2 SW3 SW4 SW5 SW6 And any additional points as agreed by the Chief Inspector	pH, Temperature, Electrical Conductivity, DO, NH ₄ -N, Cl, COD, BOD,	Monthly (at low tide)
SW1 SW2 SW3 SW4 SW5 SW6 And any additional points as agreed by the Chief Inspector	TON, Sulphate, Visible Oil and Grease. Dissolved Oil and Grease, Phenols, Fluoride, Phosphate, Suspended Solids. As, Cr, Pb, Cd, Se, Hg, Cu, Ni, Zn, Fe, Mn, Na, K, Ca, Mg.	Quarterly (at low tide)
SW3	Salinity, Total Petroleum Hydrocarbons, Ag, Aldrin, Dieldrin, Endrin, Isodrin, Carbon Tetrachloride, Chloroform, DDT, PCBs. Hexachlorbenzene. Hexachlorocyclohexane. Pentachlorophenol. Organohalogenated substances.	Annually (at low tide)

Maintenance of surface water control and monitoring infrastructure

- 2.4.2
- All sampling points and access to them shall be maintained to enable samples to be taken. Any sampling point that is damaged or destroyed to the extent that sampling or monitoring in accordance with the requirements of this Waste Management Licence is not possible shall be replaced where as soon as possible. Damage to sampling points shall be recorded.

Table 2.4a Marine Water Monitoring

Location	Parameter	Monitoring Frequency
T2 T3 S1 S2 S3 S4 S5 S6 And any additional points as agreed by the Chief Inspector	pH, Temperature, Electrical Conductivity, DO, NH ₄ -N, Cl, COD, BOD	Monthly (2 hours following high tide)
T2 T3 S1 S2 S3 S4 S5 S6 And any additional points as agreed by the Chief Inspector	TON, Sulphate, Visible Oil and Grease. Dissolved Oil and Grease, Phenols, Fluoride, Phosphate, Suspended Solids. As, Cr, Pb, Cd, Se, Hg, Cu, Ni, Zn, Fe, Mn, Na, K, Ca, Mg.	Quarterly (2 hours following high tide)
Two points from those listed above to be sampled on a rolling programme to be agreed by NIEA	Salinity, Total Petroleum Hydrocarbons, Ag, Aldrin, Dieldrin, Endrin, Isodrin, Carbon Tetrachloride, Chloroform, DDT, PCBs. Hexachlorobenzene. Hexachlorocyclohexane. Pentachlorophenol. Organohalogenated substances.	Annually (at low tide)

Table 2.4b Marine Muds and Sediments Monitoring

Location	Parameter	Monitoring Frequency
M4 M5 M6 And any additional points as agreed by the Chief Inspector	Phenols, Oils, DDT, VOCs, PCBs Hexachlorocyclohexane Cr, As, Cd, Pb, Se, Hg, Cu, Zn, Ni, Fe, Mn	Quarterly

2.5 Landfill Gas Management

2.5.1 Landfill Gas Management Plan

A review of the Landfill Gas Management Plan shall be carried out annually. Details of this review shall be recorded by the Licence Holder and submitted to the Department within 1 month of undertaking the review.

Monitoring of Landfill gas

- 2.5.2
- a. Unless otherwise agreed in writing by the Department, monitoring and sampling shall be undertaken for the parameters, at the specified locations identified in Tables 2.5a and 2.5b.
 - b. The results and summary of any monitoring shall be forwarded to the Department within 42 days of the end of the monitoring frequency.

Table 2.5a Landfill Gas Monitoring – External Monitoring Boreholes

Location	Parameter	Trigger Level	Monitoring Frequency
All current gas monitoring boreholes and any additional points as agreed by the Chief Inspector	Methane	To be proposed by the licence holder and agreed in accordance with Condition 2.5 by August 2017	Monthly
	Carbon Dioxide		
	Oxygen		
	Hydrogen Sulphide		
	Atmospheric Pressure and Trend		
	Differential Pressure		
	Temperature		
	Meteorological Data		

Table 2.5b Landfill Gas Monitoring – Internal Monitoring Boreholes

Location	Parameter	Trigger Level	Monitoring Frequency
All current gas monitoring boreholes and any additional points as agreed by the Chief Inspector	Methane	N/A	Quarterly
	Carbon Dioxide		
	Oxygen		
	Hydrogen Sulphide		
	Atmospheric Pressure and Trend		
	Differential Pressure		
	Temperature		
	Meteorological Data		

Landfill Gas – Trigger Levels

- 2.5.3
- a. All landfill gas monitoring shall be evaluated against the trigger levels detailed in Tables 2.5a and 2.5b.
 - b. Where the results of any external landfill gas monitoring exceed any of the trigger levels stated in Table 2.5a then the following actions shall be taken:

The Department shall be informed immediately;

A repeat sample shall be taken, and submitted for analysis, within 7 days; and

Within 14 days of the receipt of the results of the repeat analysis a written report shall be submitted to the Department detailing the breach of the trigger level and proposed remedial actions.

Maintenance of Landfill Gas control system and monitoring infrastructure

- 2.5.4
- a. All monitoring boreholes and other sampling points and access to them, shall be maintained to enable sampled to be taken. Any borehole that is damaged or destroyed to the extent that sampling or monitoring in accordance with the requirements to the extent that sampling or monitoring in accordance with the requirements of this Waste Management Licence is not possible shall be replaced as soon as possible. Damage to boreholes shall be recorded.
 - b. All Landfill Gas Control infrastructure shall be maintained to ensure effective working of equipment.
 - c. Monitoring of Landfill Gas Flares and/or Engines. Unless otherwise agreed in writing by The Department, monitoring and sampling of Landfill Gas Flares and/or Engines shall be undertaken for the parameters, at the specified locations identified in Table 2.5c and Table 2.5d.
 - d. The results and summary of any monitoring shall be forwarded to the Department within 42 days of the end of the monitoring frequency.

Table S2.5c Point Source Emissions to Air – emission limits and monitoring requirements – Landfill Gas Flare

Emission point Ref. & Location	Parameter	Limit (including unit)	Reference Period	Monitoring Frequency	Standard	Monitoring Standard or Method
Landfill gas Flares	Oxides of Nitrogen	150 mg/m ³	Hourly Mean	Annually ¹	ISO 10849:1996	In accordance with the relevant Environment Agency's Technical Guidance Note: Guidance for monitoring Landfill Gas Engine Emissions LFTGN08.
	CO	50 mg/m ³	Hourly Mean	Annually ¹	ISO 12039:2001	
	Total VOCs	10 mg/m ³	Hourly Mean	Annually ¹	BS EN 12619:2013	
	Flow			Continuous		
	Temperature			Continuous		

¹ If the flare has operated as a standby flare to the gas engines for less than 10% of the time of the operation of the gas engines within the 12 months prior to the required monitoring date then the flare need not be monitored.

Table S2.5d Point Source Emissions to Air – emission limits and monitoring requirements – Gas Utilisation Plant

Emission point Ref. & Location	Parameter	Limit (including unit)	Reference Period	Monitoring Frequency	Standard	Monitoring Standard or Method
Landfill Gas Engine Exhausts	Oxides of Nitrogen	500 mg/m ³	Hourly Mean	Annually ²	ISO 10849:1996	In accordance with the relevant Environment Agency's Technical Guidance Note: Guidance for monitoring Landfill Gas Engine Emissions LFTGN08.
	CO	1400 mg/m ³	Hourly Mean	Annually ²	ISO 12039:2001	
	Total VOCs	1000 mg/m ³	Hourly Mean	Annually ²	BS EN 12619:2013	
	Flow			Continuous		
	Temperature			Continuous		

² Quarterly monitoring shall be undertaken the identified parameters using a portable combustion analyser, unless agreed otherwise in writing with the Agency.

3 Site infrastructure

3.1 Site security

- 3.1.1 Site security systems shall be provided at all times during the subsistence of this Licence, to prevent access by humans and livestock which is not authorised either by the Licence Holder or under legal powers of entry. These shall be installed, operated and maintained, and shall be fully documented and recorded, in accordance with the Closure Plan.

4 Site operations

4.1 Potentially polluting leaks and spillages of waste

- 4.1.1 *Potentially polluting leaks and spillages from vehicles, plant and equipment*
All vehicles used on the site by the operator, and all plant and all equipment used on the site in connection with the aftercare activities, shall be operated and maintained with the objective of preventing potentially polluting leaks and spillages.

- 4.1.2 *Control and remediation of leaks and spillages*
In the event of any potentially polluting leak or spillage occurring on site, documented control and remediation procedures shall be implemented immediately and recorded.

4.2 Fires on the site

- 4.2.1 *Prohibition of unauthorised fires on site*
No waste shall be permitted within the area covered by this Licence. Any fire arising on the site shall be treated as an emergency situation and appropriate action taken to immediately extinguish the fire.

5 Amenity management and reporting

5.1 Control of odours

- 5.1.1 Measures shall be implemented and maintained to control emissions of odours from the site

5.2 Control of noise

- 5.2.1 Measures shall be implemented and maintained to control and minimise the levels of noise from operations on the site beyond the site boundary.

5.3 Control of pest infestations

- 5.3.1 Measures shall be implemented and maintained to control and monitor the presence of pests on the site.

5.4 Control of litter

- 5.4.1 Measures shall be implemented and maintained to control and monitor the escape of litter from the confines of the site.
- 5.4.2 In the event that litter does escape from the site, it shall be retrieved as soon as practicable and no later than 1 hour after its escape

5.5 Annual Report

An annual report reviewing the results of the monitoring and assessing the risk associated with the landfill, and if necessary proposals for mitigation measures, shall be submitted to the NIEA on or before the 31st March each year.

6 Site records

6.1 Security and availability of records

Security of records

- 6.1.1** All records which are required to be made under the other conditions of this Licence shall be maintained and kept secure from loss, damage or deterioration.

Availability of records

- 6.1.2** All records which are required to be made under the other conditions of this Licence and the Closure Plan shall be available for inspection at the place where they are kept immediately when required by an authorised officer of the Department.

7

Interpretation

In these conditions and their interpretation, unless the context otherwise requires, the following terms have the specified meanings:

“accepted”

for waste being delivered to the site, shall mean accepted as waste input to the site for storage and/or processing and/or disposal under the specified waste management operations. This also includes waste that does not conform to the Licence conditions being stored in quarantine areas for removal from the site;

“authorised officer of the Department”

means any person(s) authorised in writing by the Department pursuant to Part IV of the Waste and Contaminated Land (NI) Order 1997;

“consequences”

for **risk assessments** carried out within these conditions, means the adverse effects of harm as a result of realising a **hazard** which cause the quality of human health (other than health and safety of site staff or visitors to the site covered under the Health and Safety at Work Act 1974) or the environment to be impaired in the short or longer term;

“engineer”

for engineering works specified in these conditions, means a person who works in the relevant branch of engineering, as a qualified professional;

“engineered”

for works specified in these conditions, means carried out and completed using the relevant engineering process specified in these conditions;

“engineered site containment and drainage system”

means all elements relating to engineered containment of activities on the site, other than final disposal to land, and incorporating site surfacing, bunding and drainage systems, buildings and fixed tanks;

“engineering”

for engineering works specified in these conditions, means the relevant process of design, construction or installation, quality assurance or validation or commissioning specified in these conditions;

“engineering survey”

means a survey carried out in accordance with recognised or approved standards by a suitably qualified competent person;

“environmental targets or receptors”

for **risk assessments** carried out within these conditions, shall mean identified human and environmental populations or components, as specified in these conditions or otherwise agreed by the Department within these conditions;

“groundwater”

means any water contained in underground strata;

“hazard”

means a property or situation that in particular circumstances could lead to harm;

“immediately”

for carrying out of actions under the conditions, shall mean without delay and within a reasonable time, taking into account any more immediate direct action necessary to prevent or minimise risk to human health and the environment. For carrying out notifications to the Department, shall also mean by the fastest effective means available (for example, telephone) and confirmed in writing within 1 working day (or such other time as may be agreed by the Department within the conditions);

“inert waste “

means waste which when disposed of in or on land does not undergo any significant physical, chemical or biological transformation;

“maintenance”

for engineering maintenance specified in these conditions, means the process of inspection, testing, repair of the relevant engineering works specified in these conditions;

“preparatory works”

means engineering works required prior to the carrying out of the activities authorised by this Licence;

“probability”

means the quantified expression of chance, denoted either as:

- the ratio or percentage of the occurrence of a particular event as one among a number of possible events;
- or as the frequency of occurrence of a particular event in a given period of time;

“received”

for waste being delivered to the site, shall mean delivered to the site and undergoing the waste acceptance procedures specified in the Closure Plan, including storage of those wastes during those procedures prior to acceptance of the waste and including wastes that do not conform to Licence conditions being kept on the site in quarantine areas pending collection;

“release pathways”

for **risk assessments** carried out within these conditions, shall mean the routes by which defined **hazards** may potentially realise their **consequences**, defined in terms of releases or emissions from the site that go beyond the site containment or boundary via one or more of the following routes, either directly or indirectly: **Land; Groundwater; Surface water; Atmosphere;**

“relevant/prescribed offences”

are offences within the meaning of Regulation 2 of the Waste Management Licensing Regulations (NI) 2003, or any statutory provisions or regulations amending or replacing them;

“risk”

means a combination of the **probability** and **consequences** of occurrence of a defined **hazard**;

“risk assessment”

means the systematic identification, analysis, estimation and evaluation within a defined **scope** of the defined **risks** of a particular activity, operation, process or design, carried out and reported by suitably qualified or competent persons, using recognised quantified or semi-quantified methods and techniques.

Unless otherwise agreed by the Department within these conditions, a risk assessment shall include and record the following:

- definition of the **hazards** associated with an activity, operation, process or design;
- assessment of the **probability** of those **hazards** occurring;
- determination of the potential **consequences** of those hazards for defined **environmental targets or receptors**, taking into account defined **release pathways** and defined protective measures;
- evaluation of the potential **magnitude** of those consequences and the **probability** of their occurrence;

“scope of risk assessment”

means the boundaries of the **risk assessment** and the **risks** to be assessed within those boundaries, as defined in the conditions or otherwise agreed by the Department within the conditions;

“specified waste management operations”

means the waste management operations authorised by condition 1 of this Licence;

“surface water”

means any lake, pond, river or watercourse whether natural or artificial;

“the 1997 Order”

means the Waste and Contaminated Land (Northern Ireland) Order 1997 any statutory provisions or regulations amending or replacing them.

“the 2003 Regulations”

means the Waste Management Licensing Regulations (Northern Ireland) 2003

“the Department”

means the Department of Environment;

“the Licence Holder”

means the Licence Holder specified in this Licence or other person to whom the Licence has been transferred in accordance with Article 14 of the 1997 Order.

“the operator”

means a person who is in occupation of the site and has responsibility for carrying out day to day activities at the site;

“the site”

means the land, structures, plant and equipment to which this Licence relates;

“time periods, e.g. annually, quarterly, monthly, per year, etc. ”

Where periods are referred to in conditions, they shall be calculated in the following way:

- annually or per year: 1 April to 31 March;
- quarterly: 1 April to 30 June, 1 July to 30 September, 1 October to 31 December, 1 January to 31 March;
- monthly: calendar month;
- weekly: Monday to Sunday.

Where the issue of the Licence does not coincide with the start of any of these periods, then any relevant limits for the first period shall apply pro rata;

“waste”

means waste as defined in Article 2(2) of the 1997 Order or any statutory provisions or regulations amending or replacing it;

“closure plan”

means the closure plan identified in writing by the Department at the time of issue of this Licence and any subsequent amendments to it made in accordance with the conditions of this Licence.

EXPLANATORY NOTES - including rights of appeal.

RIGHTS OF APPEAL

Article 17 of the Waste and Contaminated Land (NI) Order makes provision for the applicant to appeal the Decision of the Department to the Planning Appeals Commission where:

1. An application for a Licence, or a modification of the conditions of a Licence is refused;
2. a Licence is granted subject to conditions;
3. the conditions of a Licence are modified;
4. a Licence is suspended;
5. a Licence is revoked under Article 12 or 16;
6. an application to surrender a Licence is refused; or
7. an application for the transfer of a Licence is refused.

Appeals should be made by notice in writing. Such a notice shall be accompanied by:

1. a statement of the grounds of the appeal;
2. where the appeal relates to an application for a waste management Licence or for the modification, surrender or transfer of a waste management Licence, a copy of the appellants application and any supporting documents;
3. where the appeal relates to an existing waste management Licence (including a waste management Licence which has been suspended or revoked) a copy of that Licence;
4. a copy of any correspondence relevant to the appeal;
5. a copy of any other document relevant to the appeal including, in particular, any relevant consent, determination, notice, planning permission under the Planning (NI) Order 1991(a) or consent under the Water (NI) Order 1999; and
6. a statement indicating whether the appellant wishes to appear before and be heard by the Planning Appeals Commission.

Notice of appeal must be given within 2 months of the date of the decision which is the subject of the appeal. Notices of appeal should be sent to:

The Planning Appeals Commission
Park House
87-91 Great Victoria Street
Belfast
BT2 7AG

Belfast Lough

Lagoon

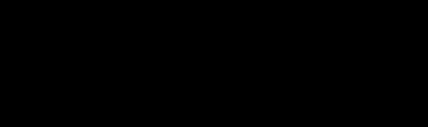
Lagoon

Lowwood Stream

M2 Motorway

arc21

I certify that FIGURE N°2
forms part of licence no: LN/08/46/C/N2
Issued by the Department of Agriculture,
Environment and Rural Affairs
on 3 day of JANUARY 2017

Signed: 
Authorised Officer of the Department

REFERENCE

Site Layout data taken from 'Landfill and
Capping Status' Drawing Ref.07/018C/P.02,
Dated 31.08.07 Supplied by Belfast City
Council

LEGEND

-  Capped Area
-  Proposed arc21 Area
-  Waste Management License Area
- Currently Being Capped
- Capping and Restoration
Scheduled for 2008
- Capping and Restoration
Scheduled for 2009
- Capping and Restoration
Scheduled for 2010

Existing Weighbridge

Waste
Transfer
Station

Dargan Road

Existing Access from:
Dargan Road

Fortwilliam
Interchange

0 50 100 150 200
Scale (m)



Date 26th February 2008
Project No. 07514290228
Created by A.P.
File No. 5228819r2

Site Layout
Dargan Road Landfill

Figure

2

Waste and Contaminated Land (NI) Order 1997
MODIFIED WASTE MANAGEMENT LICENCE

LICENCE REF No :- LN/10/13/CM FACILITY TYPE :- Closed Landfill Site

The Department of the Environment, in pursuance of the Waste and Contaminated Land (NI) Order 1997, hereby grants a waste management licence permitting the aftercare and restoration of the Landfill Site located on land specified in Schedule 1 of this licence:

UK Waste Management Ltd
Coronation Road
Cressex
High Wycombe
Buckinghamshire
HP12 3TZ

this persons being in occupation of the said land, the said licence being subject to the conditions specified in schedule 2 to this licence.

SCHEDULE 1.- SPECIFIED LAND.

The licence relates to the land at Green Road Quarry, 64 Green Road, Ballyclare, BT39 9PH (hereinafter called "the site") described by Planning Permission U/92/0505 granted by Planning Service on 3rd November 1992.

On modification of the Waste Management Licence issued by Northern Ireland Environment Agency dated 07 June 2010 all conditions therein shall be deemed to be no longer valid and shall be replaced by those contained in Schedule 2 of this Licence which shall take effect forthwith.

Signed

Name :- Sandy Truesdale
Authorised officer of NIEA

Dated

14/3/12

YOUR ATTENTION IS DRAWN TO THE RIGHTS OF APPEAL DETAILED AT THE END OF THIS LICENCE.



SCHEDULE 2 - CONDITIONS RELATING TO THIS LICENCE

1 General considerations

1.1 Specified waste management operations

1.1.1 Only restoration and aftercare activities shall be authorised by this Licence.

1.1.2 No waste disposal operations shall be authorised by this licence.

1.2 Hours of operation

Monday – Thursday: 0730 hrs to 1800 hrs

Friday: 0730 hrs to 1530 hrs

Or otherwise agreed with The Department of Environment Planning Service

1.3 Staffing and understanding of requirements of licence conditions and Closure Plan

Minimum staffing and supervision

1.3.1 Whenever the site is open for the restoration and aftercare operations, it shall be supervised by at least one member of staff who is suitably trained and fully conversant with the requirements of the licence and the Operational Plan as detailed in condition 1.7.1.

Availability of licence and Closure Plan

1.3.2 A copy of this licence and the Closure Plan shall be kept available on site for reference when required by all site staff carrying out work under the requirements of the licence.

Understanding of licence and Closure Plan

1.3.3 All site staff shall be, or shall work under the direct supervision of a member of staff who is, fully conversant with those aspects of the licence conditions and Closure Plan which are relevant to their specific duties.

1.4 Technically competent persons

1.4.1 The management of all the restoration and aftercare activities permitted by this licence shall be in the hands of a technically competent person. Any changes in the technically competent management of the site and the name of any incoming person together with evidence that such person has the required technical competence shall be submitted to the Department in writing within 5 working days of the change in management. Technically competent management and technical competence shall be as defined under Regulations 3 to 5 of the 2003 Regulations.

Attendance of technically competent persons

- 1.4.2 Attendance requirements for the technically competent person shall be as required in the NIEA Guidance, 'Technical Competence for Operators of Authorised Waste Facilities', December 2003. Attendance of the technically competent person at the site shall be recorded in the site diary on arrival and departure.

1.5 **Relevant convictions**

Notification of relevant convictions

- 1.5.1 In the event of the Licence Holder and/or any relevant person being convicted of any prescribed offence (as defined by Regulation 2 of the 2003 Regulations) and which is in addition to any already notified to the Department, then full details shall be provided to the Department within 14 days following sentencing, whether or not the conviction or sentence is subsequently appealed. Such details shall include, in respect of each relevant person (as defined in Article 3 of the Waste and Contaminated Land (NI) Order 1997 or any subsequent amendments to those regulations), the nature of the offence, the place and date of conviction, and any fine or other penalty imposed.

Notifications of appeals against convictions

- 1.5.2 In the event that the Licence Holder and/or any relevant person lodges an appeal against any such conviction or sentence, the Licence Holder shall notify the Department of this within 14 days of the lodging. The Licence Holder shall notify the Department of the results of that appeal, within 14 days of the appeal being decided.

1.6 **Maintenance of financial provision**

- 1.6.1 The Licence Holder shall implement the financial provisions as agreed between the NIEA and the licence holder on 7th March 2012 to ensure that the obligations (including aftercare obligations) contained in this licence are complied with.
- 1.6.2 The Licence Holder shall maintain financial provision in accordance with the Financial Scheme (1) throughout the subsistence of this licence; or (2) until the NIEA requires different financial provision to be made.
- 1.6.3 Within 1 month of being requested to do so, the licence holder shall produce evidence of compliance with the requirements of the Financial Scheme in such form and in such manner as the NIEA may reasonably require.

1.7 **Amendments to Closure Plan and supporting information**

- 1.7.1 Within 6 months of the issue of this modified Licence the Licence holder shall submit to the Department a Closure Plan in order to reflect the conditions of this Licence for approval. The Closure Plan must include but not be limited to the following:
- a. Acceptance and control of restoration materials;

- b. Installation of the landfill cap;
- c. Landfill Gas Management Plan;
- d. Leachate Management Plan;
- e. Groundwater Management Plan;
- f. Surface Water Management Plan;
- g. Operational controls and environmental monitoring;
- h. Maintenance;
- i. Record-keeping;
- j. Emergency Action Plans;
- k. Notifications to the Department.

1.7.2 On receipt of approval of the Closure Plan from the Department the Licence Holder must implement the control measures and procedures within the agreed timescales.

1.7.3 The Licence Holder shall give the Department prior notice in writing of any proposed change to the Closure Plan, and to any associated appendices, drawings and figures which are referenced in the Closure Plan. The notice shall be accompanied by a copy of the proposed changes and by a written assessment of the effect that implementing the proposed change to the Closure Plan would have on the risk posed by the site to human health and the environment.

1.7.4 The proposed change to the Closure Plan shall not be implemented unless the Department has given its written consent to the change. Following consent, the Licence Holder shall give the Department prior written notification of the implementation date of the change, and from that date the changed section shall be deemed to be incorporated in the Closure Plan in replacement of the previous version of that section.

1.8 **Notification of change of operator's or holder's details**

This condition refers to changes in details concerning the existing licence holder/operator. Any change in licence holder identity requires formal application to the Department. Change of licence holder or operator outside these requirements constitutes a breach of a licence condition.

1.8.1 The following information shall be notified in writing within 5 working days to the Department:

- a. Where the Licence Holder is an individual or named individuals:
 - i. The death of any of those individuals;
 - ii. Any change in the Licence Holder's name(s) or address(es);
 - iii. Any steps taken with a view to the Licence Holder, 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;

- iv. The operator at the time of issue of the licence and of any change in the operator or in the operator's trading name, address, registered name or registered office address (if different from the Licence Holder);
- b. Where the Licence Holder is a registered company:
 - i. Any change in the Licence Holder's trading name, registered name or registered office address;
 - ii. Any steps taken with a view to the Licence Holder going into administration, entering into a company voluntary arrangement or being wound up;
 - iii. The operator at the time of issue of the licence and of any change in the operator or in the operator's trading name, address, registered name or registered office address (if different from the Licence Holder);
- c. Where the Licence Holder is a corporate body other than a registered company:
 - i. Any change in the Licence Holder's name or address;
 - ii. Any steps taken with a view to the dissolution of the Licence Holder;
 - iii. The operator at the time of issue of the licence and of any change in the operator or in the operator's trading name, address, registered name or registered office address (if different from the Licence Holder).

1.9 **Notification of preparatory works**

- 1.9.1 No preparatory works shall be undertaken until at least 7 days prior notice in writing has been given to the Department of the intention to do so. The notification shall include details of the work and date of commencement of the work.

1.10 **Notifications and submissions to the Department**

- 1.10.1 Except where otherwise specified, all notifications and submissions to the Department under the requirements of these licence conditions:
 - a. Shall be made in writing to the address specified by the Department in writing at the time of issue of this licence, or as subsequently specified by written notification to the Licence Holder.
 - b. Shall quote the licence reference number and the name of the Licence Holder.

- 2 **Site engineering for pollution prevention and control**
- 2.1 **Restoration and Aftercare Plan**
- 2.1.1 Within 6 months of the issue of this modified Waste Management Licence, a Site Restoration and Aftercare Plan shall be provided to the Department for agreement in writing.
-
- 2.1.2 The Site Restoration and Aftercare Plan shall set out the steps to be taken after the final cessation of waste deposition. The restoration and aftercare plan shall detail the procedures to be used to manage the restoration and aftercare of the landfill site, including but not limited to the following:
- a. Site conceptual model to evaluate potential environmental impacts and exposure;
 - b. A detailed Leachate Management Plan as required by condition 2.2 inclusive of installation timescales;
 - c. A detailed Landfill Gas Management Plan as required by condition 2.5 inclusive of installation timescales;
 - d. A stability risk assessment of the cover soils and cap, provide proposals to mitigate any risks identified in the assessments inclusive of timescales for the remediation work;
 - e. Details of site capping, this shall include detail on the depth of the material used, the type of material used, a justification for the cap installed and demonstrate that the cap installed meets the requirements of the Landfill Regulations (NI) 2003 in particular how leachate, gas and surface water are controlled;
 - f. A detailed plan of site capping and restoration which shall include the final land use of the site, construction details, materials used and timescales for the final restoration of the site;
 - g. A full description and drawings of site engineering barriers and pollution and control systems;
 - h. Stability/settlement monitoring plan – demonstrating understanding and control of the site and compliance with Schedule 3 of the Landfill Regulations (NI) 2003 as amended;
 - i. Accident Management Plan;
 - j. Evidence of financial provision and an Expenditure Plan.
- 2.1.3 Upon receipt of agreement from the Department, the licence holder shall implement the restoration and aftercare plan within the agreed timescales.
- 2.1.4 All post-operational, aftercare provisions at the landfill site shall be carried out in accordance with the agreed restoration and aftercare plan.

- 2.1.5 Any recommendations made in the stability risk assessment to increase any slope stability must be implemented within 6 months of the receipt of the Department's written agreement to the restoration and aftercare plan.
- 2.1.6 Where any waste management licence condition conflicts with the restoration and aftercare plan the waste management licence condition shall take precedence over the restoration and aftercare plan.
- 2.1.7 The licence holder shall review, record and where necessary update the restoration and aftercare plan as follows:

- a. At least once per annum from the date this modified Licence was issued on, following the completion of the restoration works the plan must be reviewed every 4 years.
- b. Where the Licence holder plans to make a substantial change to the restoration and aftercare plan, the proposed change shall be submitted in writing to the Department least 28 days before the implementation of the change.
- c. The restoration and aftercare plan shall only be amended in accordance with the proposed change(s) if, and to the extent that, either:
 - i. The Department gives written consent to the proposed change(s); or
 - ii. The Department has not indicated to the licence holder in writing within 28 days of receiving the proposed change(s) that the proposed change(s) are rejected.

Restoration and aftercare monitoring

- 2.1.8
- a. Unless otherwise agreed in writing by the Department, monitoring shall be undertaken for the specified elements in Table 2.1.
 - b. The results of any monitoring shall be forwarded to the Department within 28 days of the end of the monitoring frequency.

Table 2.1 – Monitoring Requirements

Settling behaviour	Landfill Site	A review of settlement	Annually
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2.2 **Leachate management**

Leachate Management Plan

- 2.2.1
- a. Within 6 months of the issue of this Waste Management Licence modification, a Leachate Management Plan shall be submitted to the Department for its agreement in writing. The plan shall include but not be limited to:
 - i. Details of the leachate management system (i.e. means of collection, storage, treatment and disposal);
 - ii. Monitoring and sampling infrastructure (review of current provision and if required, proposals for additional infrastructure);
 - iii. Monitoring and sampling plan inclusive of proposed trigger levels;
 - iv. Procedures for subsurface re-circulation of leachate;
 - v. Inspection and maintenance of the leachate collection, treatment, disposal and monitoring system;
 - vi. Timescales for the implementation of the Leachate Management Plan.
 - b. Upon receipt of the Department's written agreement, the leachate management system shall be operated in accordance with the Leachate Management Plan. Any changes to the Plan must be agreed in writing by the Department, prior to commencement of the change.
 - c. The Leachate Management Plan will be submitted to the Department in compliance with condition 1.7.1 and condition 2.1 of this modified Licence. The Leachate Management Plan will form part of the Site Restoration and Aftercare Plan and the Closure Plan.
 - d. A review of the Leachate Management Plan shall be carried out annually.

Leachate Management Plan

- 2.2.2
- Upon receipt of the Department's approval of the Leachate Management Plan, the Leachate Management Plan shall be implemented for the landfill, in order to collect and store/treat leachate arising from the site, in such a way as to minimise damage to, or deterioration of, the environment, risk to human health or serious detriment to the amenities in the locality.

Leachate recirculation

- 2.2.3
- No surface recirculation of leachate shall take place.

Monitoring of leachate

- 2.2.4
- a. Unless otherwise agreed in writing by the Department, monitoring and sampling of landfill leachate within each cell or phase of the waste body and discharge points shall be undertaken for the parameters, at the specified locations identified in Table 2.2.

Table 2.2 Landfill leachate in waste and at discharge point			
Location	Parameter	Monitoring frequency	Trigger level
Side Riser 2, 4, 5, 6, 8 & 9	Depth of leachate from the base of the cell	Monthly	To be proposed by the licence holder and agreed in accordance with condition 2.2.5
Leachate collection chamber	DO, pH, Volume, NH ₄ -N, Temp, Suspended Solids, Electrical Conductivity, BOD, COD, SO ₄ , Alkalinity, TON, TOC, Na, K, Ca, Mg, Fe, Mn, Cd, Cr, Cu, Ni, Pb, Zn	Quarterly	
	Hazardous Substances screening	Annually	

b. The results and summary of any monitoring shall be forwarded to the Department within 28 days of the end of the monitoring frequency.

Trigger levels

2.2.5

a. In compliance with condition 2.2.1 leachate depth trigger levels shall be proposed to the Department within the Leachate Management Plan for approval.

b. Measured leachate levels shall be evaluated against approved trigger levels, as detailed in Table 2.2.

c. Where the result of any leachate level exceeds the trigger levels stated in Table 2.2 then the following action shall be taken:

- i. The Department shall be informed immediately;
- ii. A repeat measurement shall be taken within 48 hours; and
- iii. Within one week of the repeat measurement, a written report shall be submitted to the Department detailing the breach of the trigger level and proposed remedial actions.

Maintenance of leachate, collection, treatment, disposal and monitoring infrastructure

2.2.6

a. Within 6 months from the date of issue of this Waste Management Licence modification, the Department shall be provided with a report detailing the assessment of current onsite leachate monitoring infrastructure, including a detailed plan of the current monitoring locations and any proposals for modification and/or improvement of that infrastructure.

b. Upon receipt of the Department's written agreement to the proposals, the proposed modifications and improvements to the leachate monitoring

infrastructure shall be undertaken within 4 months.

c. All monitoring boreholes and other sampling points and access to them, shall be maintained to enable samples to be taken. Any borehole that is damaged or destroyed to the extent that sampling or monitoring in accordance with the requirements of this Waste Management Licence is not possible shall be replaced as soon as possible. Damage to boreholes shall be recorded in the site diary.

d. All leachate collection, treatment and disposal infrastructure shall be maintained to ensure the effective working of the systems in place and to ensure any risk of pollution is controlled

2.3 **Groundwater management**

Groundwater Management Plan

- 2.3.1
- a. Within 6 months of the issue of this Waste Management Licence modification, a Groundwater Management Plan shall be submitted to the Department, for its agreement in writing. The Groundwater Management Plan must include the following but not limited to:
- i. A review of the Hydrogeological Risk Assessment shall be undertaken in accordance with the Environment Agency Guidance Document LFTGN01 – “Hydrogeological Risk Assessments for Landfills and the Derivation of Groundwater Control and Trigger Levels”. The risk assessment must consider the potential impacts of the deposited waste and the leachate management system referred in condition 2.2 of this Waste Management Licence modification;
 - ii. Details of the measures for preventing contamination of groundwater following assessment of the findings of the Risk Assessment;
 - iii. A review and assessment of current groundwater monitoring infrastructure, including a detailed plan of the current monitoring locations and any proposals for modification and improvement of that infrastructure;
 - iv. Locations of the groundwater monitoring borehole locations including at least two up gradient and two down gradient of the landfill site.
 - v. Sampling and Monitoring Plan, this must include proposals for trigger levels as in condition 2.3.3;
 - vi. Inspection and maintenance of all monitoring wells and infrastructure.
- b. Upon receipt of the written agreement of the Department the Groundwater Management Plan will be implemented within the agreed timescales;
- c. The Groundwater Management Plan shall be submitted to the Department in compliance with condition 1.7.1 as it will form part of the Closure Plan.
- d. A review of the Groundwater Management Plan shall be carried out annually. Details of the review shall be recorded by the licence holder and submitted to the Department within 1 month of undertaking the review.

Monitoring of groundwater

- 2.3.2 a. Unless otherwise agreed in writing by the Department, groundwater monitoring shall be undertaken for the parameters, at the specified locations identified in Table 2.3.

Table 2.3 – Groundwater Control and Trigger Levels				
Locations	Parameter	Monitoring Frequency	Control Level	Trigger Level
GW1, GW1B, GW4 and any additional monitoring points as agreed in accordance with condition 2.3.2	Level, DO, pH, Volume, NH ₄ –N, Suspended Solids, Electrical Conductivity, BOD, COD, Cl, SO ₄ , Alkalinity, TON, TOC, Na, K, Ca, Mg, Fe, Mn, Cd, Cr, Cu, Ni, Pb, Zn	Quarterly	To be proposed by the licence holder and agreed in accordance with condition 2.3.3	To be proposed by the licence holder and agreed in accordance with condition 2.3.3
	Hazardous Substances screening	Annually		

- b. The results and summary of any monitoring shall be forwarded to the Department within 28 days of the end of the monitoring frequency.

Trigger levels

- 2.3.3 a. In compliance with condition 2.3.1 groundwater control and trigger levels shall be proposed to the Department within the Groundwater Management Plan for approval.
- b. All groundwater monitoring shall be evaluated against approved control and trigger levels, as detailed in Table 2.3.
- c. Where the results of any groundwater monitoring exceed any of the trigger levels stated in Table 2.3 then the following action shall be taken unless otherwise agreed in writing with the Department.
- The Department shall be informed immediately;
 - A repeat sample shall be taken, and submitted to the Department for analysis, within 7 days; and
 - Within 14 days of the receipt of the results of the repeat analysis a written report shall be submitted to the Department, detailing the breach of the trigger level and proposed remedial actions.

Maintenance of groundwater control and monitoring infrastructure

- 2.3.4 a. All monitoring boreholes and other sampling points and access to them, shall be maintained to enable samples to be taken. Any borehole that is damaged or destroyed to the extent that sampling or monitoring in

accordance with the requirements of this Waste Management Licence is not possible shall be replaced where as soon as possible. Damage to boreholes shall be recorded in the site diary.

b. All groundwater control infrastructure shall be maintained to ensure effective working of equipment and to ensure contamination of groundwater is prevented.

2.4 **Surface water management**

Surface Water Management Plan

2.4.1 a. Within 6 months of the issue of this Waste Management Licence modification, a Surface Water Management Plan shall be submitted to the Department, for its agreement in writing. The plan shall include but not be limited to:

- i. Consideration given to the findings of the Hydrogeological Risk Assessment Review carried out in compliance with condition 2.3.1 of this Waste Management Licence;
- ii. Measures for preventing contamination of surface water;
- iii. Review and assessment of the current Monitoring Infrastructure, this must include a detailed plan of the current monitoring point locations and any proposals for modification and improvement to this infrastructure;
- iv. Sampling and Monitoring Plan; and
- v. Inspection and maintenance procedures.

b. The Surface Water Management Plan shall be submitted to the Department in compliance with condition 1.7.1 and will form part of the Closure Plan.

c. Upon receipt of the written agreement of the Department the Surface Water Management Plan will be implemented within the agreed timescales.

d. A review of the Surface Water Management Plan shall be carried out annually. Details of the review shall be recorded by the licence holder and submitted to the Department within 1 month of undertaking the review.

Monitoring of surface water

2.4.2 a. Unless otherwise agreed in writing by the Department, monitoring shall be undertaken for the parameters, at the specified locations, at no less than the frequencies specified in Table 2.4.

Table 2.4 – Surface water monitoring			
Location	Parameter	Monitoring frequency	Trigger level
Surface water, upstream;	DO, pH, Volume, NH ₄ –N, Suspended Solids, Electrical Conductivity, BOD, COD,	Quarterly	To be proposed by the Licence Holder
Surface water, downstream.	NH ₄ –N, Cl, Temp, TON, SO ₄ , Alkalinity, TOC, Na, K, Ca, Mg, Fe, Mn, Cd, Cr, Cu, Ni, Pb, Zn		and agreed in writing by the Department
	Hazardous Substances Screening	Annually	

b. The results and summary of any monitoring shall be forwarded to the Department within 28 days of the end of the monitoring frequency.

Maintenance of Surface Water Control and Monitoring Infrastructure

- 2.4.3 All sampling points and access to them shall be maintained to enable samples to be taken. Any sampling point that is damaged or destroyed to the extent that sampling or monitoring in accordance with the requirements of this Waste Management Licence is not possible shall be replaced as soon as possible. Damage to sampling points shall be recorded in the site diary.

2.5 **Landfill Gas Management**

Landfill Gas Management Plan

- 2.5.1 **a.** Within 6 months of the issue of this Waste Management Licence modification, a landfill Gas Management Plan shall be submitted to the Department for its agreement in writing. The plan shall include, but not be limited to:
- i. An assessment of the risk of migration to adjacent receptors, mitigation and action plan including detailed proposals for onsite gas management that shall take account of the findings of the assessment of risk. This shall include but will not be limited to:
 - Presentation of the risks identified by the assessment and illustrate what control measures will be put in place to minimise the risk;
 - A full review of the cap which has been used for the site and demonstrate this is the most appropriate to prevent Gas emission and migration from the site. This shall include proposals to improve areas where the risk of gas migration/ emissions is evident;
 - Details of the control measures including collection pipe work, extraction wells, manifolds, extraction plant and flare

/utilisation plant. This must include detailed layout/location plans and drawings for the each element of the control measures;

- Details of the management of condensate from the gas control system;
 - Inspection, maintenance and servicing procedures for each element of the collection and control system;
-
- Set out in detail the measures to manage the collected landfill gas such as utilisation and flaring. If utilisation is not proposed a justification must be given and a detailed appraisal of the proposed measures must be provided.
- ii. A Monitoring and Sampling Plan which must include the following detail but not be limited to:
 - A review and assessment of current landfill gas monitoring infrastructure, including a detailed plan of the current monitoring locations and any proposals for modification and/or improvement of that infrastructure;
 - The proposals shall include details of the installation of both in waste and perimeter monitoring boreholes, full justification must be given for the spacing between the boreholes taking into account the depth of the landfill site, local geology, distance and sensitivity of receptors in accordance with the Environment Agency document LFTGN03 "Guidance on the Management of Landfill Gas." The proposal must also detail the design and construction methodology for the boreholes and the delivery timescales;
 - Layout showing the construction and location of current monitoring points and proposed monitoring points;
 - A description of the measurement techniques and sampling strategy.
 - iii. An Action Plan detailing the actions which will be taken if there is an abnormal change observed in the monitoring data or if there is an operational problem or failure of the gas control system;
 - iv. The Landfill Gas Management Plan must also include the emergency procedures should the emergency scenarios identified in the risk assessment occur.

b. Upon receipt of the written agreement of the Department the Landfill Gas Management Plan will be implemented within the agreed timescales.

c. The Landfill Gas Management Plan will be submitted to the Department in compliance with condition 1.7.1 and condition 2.1 of this modified Licence. The Landfill Gas Management Plan will form part of the Site Restoration and Aftercare Plan and the Closure Plan.

d. A review of the Landfill Gas Management Plan shall be carried out annually. Details of the review shall be recorded by the licence holder and submitted to the Department within 1 month of undertaking the review.

Monitoring of Landfill Gas

2.5.2

a. Unless otherwise agreed in writing by the Department, monitoring and sampling of landfill gas shall be undertaken for the parameters, at the specified locations identified in Tables 2.5.2 a, and 2.5.2 b.

Table 2.5.2a Landfill gas in external monitoring boreholes – limits and monitoring requirements			
Location	Parameter	Trigger Level	Monitoring frequency
BH1, BH2, BH3, BH4, BH5, BH6, BH7, BH8, BH9, BH10, BH11, BH12, BH13, BH14, BH15, BH16	Methane	1.5% v/v	Monthly
	Carbon dioxide	1% v/v	Monthly
	Oxygen	No limit	Monthly
	Hydrogen sulphide	No limit	Monthly
	Atmospheric pressure and trend	No limit	Monthly
	Differential pressure	No limit	Monthly
	Temperature	No limit	Monthly
	Meteorological data	No limit	Monthly
Table 2.5.2b Landfill Gas in internal monitoring boreholes			
Location	Parameter	Trigger Level	Monitoring frequency
All in-waste monitoring boreholes (Number 7-22)	Methane	NA	Monthly
	Carbon dioxide		Monthly
	Oxygen		Monthly
	Carbon monoxide		Monthly
	Hydrogen sulphide		Monthly
	Atmospheric pressure		Monthly
	Differential pressure		Monthly
	Temperature		Monthly
	Meteorological data		Monthly

b. The results of any monitoring shall be forwarded to the Department within 28 days of the end of the monitoring frequency.

Trigger Levels

2.5.3

a. All landfill gas monitoring shall be evaluated against the trigger levels detailed in Table 2.5.2a and 2.5.2 b.

b. Where the results of any external landfill gas monitoring exceed any of the Trigger levels stated in Table 2.5.2a then the following actions shall be taken:

- i. The Department shall be informed immediately;
- ii. A repeat sample shall be taken, and submitted for analysis, within 7 days; and
- iii. Within 14 days of the receipt of the results of the repeat analysis a written report shall be submitted to the Department detailing the breach of the trigger level and proposed remedial actions.

Maintenance of the Landfill Gas Control System and Monitoring Infrastructure

2.5.4

- a. All monitoring boreholes and other sampling points and access to them, shall be maintained to enable samples to be taken. Any borehole that is damaged or destroyed to the extent that sampling or monitoring in accordance with the requirements of this Waste Management Licence is not possible shall be replaced as soon as possible. Damage to boreholes shall be recorded in the site diary.
- b. All Landfill Gas Control infrastructure shall be maintained to ensure effective working of equipment.
- c. Monitoring of Landfill Gas Flares and/or Engines. Unless otherwise agreed in writing by the Department, monitoring and sampling of landfill gas flares and/or engines shall be undertaken for the parameters, at the specified locations identified in Table 2.5.4.
- d. The results of any monitoring shall be forwarded to the Department within 28 days of the end of the monitoring frequency.

Table 2.5.4 Landfill Gas Flares and Engines – emission limits and monitoring requirements

Location	Parameter	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Landfill gas flare	Oxides of Nitrogen	150 mg/m ³	Hourly mean	Annually*	To be proposed by the licence holder and agreed in writing by the Department
	CO	50 mg/m ³	Hourly mean	Annually*	
	Total VOCs	10 mg/m ³	Hourly mean	Annually*	
	NMVOCs	5 mg/m ³	Hourly mean	Annually*	
Landfill gas engine exhausts, location to be provided by the licence holder prior to the operation of any such engines	Oxides of Nitrogen	500 mg/m ³	Hourly mean	Annually	To be proposed by the licence holder and agreed in writing by the Department
	CO	1400 mg/m ³	Hourly mean	Annually	
	Total VOCs	1000 mg/m ³	Hourly mean	Annually	
			Hourly mean	Annually	

* If the flare has operated as a standby flare to the gas engines for less than 10% of the time of the operation of the gas engines within the 12 months prior to the required monitoring date the flare need not be monitored.

3 Site infrastructure

3.1 **Provision of site identification board**

- 3.1.1 A site identification board shall be provided at or near the site entrance.
- 3.1.2 The identification board shall be inspected at least once per week. In the event of damage or defect, the board shall be repaired or replaced within 3 working days.
- 3.1.3 The board shall be easily readable from outside the site entrance in daylight hours and shall display the following information;
- a. Site name and address;
 - b. Licence Holder name (company name, not individual name unless justified as necessary);
 - c. Operator name (company name, not individual name unless justified as necessary);
 - d. Licence number;
 - e. Emergency contact name and telephone number of licence holder/operator (for security reasons, personal names and home phone numbers should not be used except where no alternative is practicable);
 - f. Statement that the site is licensed by Northern Ireland Environment Agency, Department of the Environment;
 - g. Northern Ireland Environment Agency Telephone number 028 90 569359 (office hours);
 - h. Days and hours site is open.

The location of the notice board should be such that it is clear that it does not designate areas outside the licensed site and does not encourage illegal tipping.

3.2 **Site security**

- 3.2.1 Site security systems shall be provided at all times during the subsistence of this licence, the objective of which shall be to prevent access by humans and livestock which is not authorised either by the Licence Holder or under legal powers of entry.¹ These shall be installed, operated and maintained, and shall be fully documented and recorded, in accordance with the Closure Plan and the requirements detailed in Table 3.2:

¹ The Department will review site security requirements in the light of ongoing site operations and licences may be modified to specify specific requirements.

Table 3.2 Site security system standards

Site security system	Specified standards
Design standards	Type of security = solid wall, chainlink or palisade fencing or other agreed alternative. Access = lockable gates of at least the same height as the perimeter fence.
Operational standards	The site shall be kept closed and secure at all times when unattended.
Maintenance standards	The site security shall be fully inspected at the commencement of each working day and recorded in the site diary. Any defects or damage shall be made secure by the end of the working day, and shall be repaired within 3 working days of the damage being detected. All repairs shall be recorded in the site diary.

4 Site operations

4.1 Control of mud and debris

Prevention of mud and debris on road

- 4.1.1 Whenever the site is receiving restoration materials measures shall be provided, operated and maintained with the objective of preventing the deposit or tracking of mud or debris arising from the site onto public areas outside the site, which shall include public highways and areas of public access outside the site.

- 4.1.2 All vehicles leaving areas of the site which are operational or upon which engineering works are being carried out shall, before leaving the site, be cleaned as necessary and shall be checked to ensure that they are clear of loose material and that their loads are secure.

Remediation of mud and debris on road

- 4.1.3 In the event that mud or debris arising from the site is deposited onto public areas outside the site, the following remedial measures shall be implemented immediately;

- a. The affected public areas outside the site shall be cleaned
- b. Traffic shall be isolated from sources of mud and debris within the site to prevent further tracking of mud and debris and measures shall be taken to clear any such sources as soon as practicable

All such deposits shall be removed within 1 hour of its deposit.

4.2 Potentially polluting leaks and spillages

Potentially polluting leaks & spillages from vehicles, plant & equipment

- 4.2.1 All vehicles used on the site by the operator, and all plant and all equipment used on the site in connection with restoration and aftercare activities and maintained with the objective of preventing potentially polluting leaks and spillages.

Control & remediation of leaks & spillages

- 4.2.2 In the event of any potentially polluting leak or spillage occurring on site, documented control and remediation procedures shall be implemented immediately and recorded.

4.3 **Fires on the site**

Prohibition of unauthorised fires on site

4.3.1 No fires shall be permitted within the area covered by this licence. Any fire arising on the site shall be treated as an emergency situation and appropriate action taken to immediately extinguish the fire. No smoking shall be permitted within the area covered by this licence.

4.3.2 The Licence holder shall submit for the Department's agreement a Fire Action Plan which shall detail the procedures which will be undertaken if a fire occurs on site. The Fire Action Plan will be submitted in compliance with condition 1.7.1 (j) Emergency Action Plans, and will form part of the revised Closure Plan.

5 **Amenity management and reporting**

5.1 **Control of dusts, fibres and particulates**

5.1.1 Measures shall be implemented and maintained throughout the post-operational life of the site to control emissions of dusts, fibres and particulates from the site.

5.1.2 ~~All emissions to air from the restoration and aftercare operations on the site shall be free from visible concentrations of dusts, fibres or particulates as are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality outside the site boundary, as perceived by an authorised officer of the Department.~~

5.2 **Control of odours**

5.2.1 Measures shall be implemented and maintained throughout the post-operational life of the site to control emissions of odours from the site.

5.2.2 All emissions to air from the restoration and aftercare operations on the site shall be free from odours at levels as are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality outside the site boundary, as perceived by an authorised officer of the Department.

5.3 **Control of noise**

5.3.1 Measures shall be implemented and maintained throughout the post-operational life of the site to control and minimise the levels of noise from operations on the site beyond the site boundary.

5.4 **Control of pest infestations**

5.4.1 Measures shall be implemented and maintained throughout the post-operational life of the site to control and monitor the presence of pests on the site.

5.5 **Control of litter**

5.5.1 Measures shall be implemented and maintained throughout the post-operational life of the site to control and monitor the escape of litter from the confines of the site.

5.5.2 In the event that litter does escape from the site, it shall be retrieved as soon as practicable and no later than 1 hour after its escape.

5.6 **Accident Management Plan**

Within 6 months of the issue of this Waste Management Licence modification, an Accident Management Plan shall be submitted to the Department for its agreement in writing. Upon receipt of the Department's agreement, the licence holder shall implement the plan.

6 Site Records

6.1 Security and availability of records

Security of records

- 6.1.1 All records which are required to be made under the other conditions of this licence and the Closure Plan shall be maintained and kept secure from loss, damage or deterioration, and shall be kept in accordance with the requirements specified in Table 6.1 below.

Availability of records

- 6.1.2 All records which are required to be made under the other conditions of this licence and the Closure Plan shall be made available for inspection at the place where they are kept immediately when required by an authorised officer of the Department.

Table 6.1 Site records	
Site records	Specified standards
Wastes accepted when the site operated	All records shall be stored either: i. On paper in a secure cabinet or cupboard; or ii. On computer disc with back-up copy Records shall be kept for a minimum of 2 years
Wastes dispatched	
Site diaries	

6.2 Site diary

- 6.2.1 A site diary shall be kept secure and shall be available for inspection at the site when required by an authorised officer of the Department. This shall include a record of all information and events required under any condition of this licence. Each record shall be completed by the end of each visit.

Interpretation

In these conditions and their interpretation, unless the context otherwise requires, the following terms have the specified meanings:

“accepted”

for waste being delivered to the site, shall mean accepted as waste input to the site for storage and/or processing and/or disposal under the specified waste management operations. This also includes waste that does not conform to the licence conditions being stored in quarantine areas for removal from the site;

“authorised officer of the Department”

means any person(s) authorised in writing by the Department pursuant to Part IV of the Waste and Contaminated Land (NI) Order 1997;

“consequences”

for **risk assessments** carried out within these conditions, means the adverse effects of harm as a result of realising a **hazard** which cause the quality of human health (other than health and safety of site staff or visitors to the site covered under the Health and Safety at Work Act 1974) or the environment to be impaired in the short or longer term;

“engineer”

for engineering works specified in these conditions, means a person who works in the relevant branch of engineering, as a qualified professional;

“engineered”

for works specified in these conditions, means carried out and completed using the relevant engineering process specified in these conditions;

“engineered site containment and drainage system”

means all elements relating to engineered containment of activities on the site, other than final disposal to land, and incorporating site surfacing, bunding and drainage systems, buildings and fixed tanks;

“engineering”

for engineering works specified in these conditions, means the relevant process of design, construction or installation, quality assurance or validation or commissioning specified in these conditions;

“engineering survey”

means a survey carried out in accordance with recognised or approved standards by a suitably qualified competent person;

“environmental targets or receptors”

for **risk assessments** carried out within these conditions, shall mean identified human and environmental populations or components, as specified in these conditions or otherwise agreed by the Department within these conditions;

“groundwater”

means any water contained in underground strata;

“hazard”

means a property or situation that in particular circumstances could lead to harm;

“immediately”

for carrying out of actions under the conditions, shall mean without delay and within a reasonable time, taking into account any more immediate direct action necessary to prevent or minimise risk to human health and the environment. For carrying out notifications to the Department, shall also mean by the fastest effective means available (for example, telephone) and confirmed in writing within 1 working day (or such other time as may be agreed by the Department within the conditions);

“inert waste “

means waste which when disposed of in or on land does not undergo any significant physical, chemical or biological transformation;

“maintenance”

for engineering maintenance specified in these conditions, means the process of inspection, testing, repair of the relevant engineering works specified in these conditions;

“preparatory works”

means engineering works required prior to the carrying out of the activities authorised by this licence;

“probability”

means the quantified expression of chance, denoted either as:

- the ratio or percentage of the occurrence of a particular event as one among a number of possible events;
- or as the frequency of occurrence of a particular event in a given period of time;

“received”

for waste being delivered to the site, shall mean delivered to the site and undergoing the waste acceptance procedures specified in the Closure Plan, including storage of those wastes during those procedures prior to acceptance of the waste and including wastes that do not conform to licence conditions being kept on the site in quarantine areas pending collection;

“release pathways”

for **risk assessments** carried out within these conditions, shall mean the routes by which defined **hazards** may potentially realise their **consequences**, defined in terms of releases or emissions from the site that go beyond the site containment or boundary via one or more of the following routes, either directly or indirectly: **Land; Groundwater; Surface water; Atmosphere;**

“relevant/prescribed offences”

are offences within the meaning of Regulation 2 of the Waste Management Licensing Regulations (NI) 2003, or any statutory provisions or regulations amending or replacing them;

“risk”

means a combination of the **probability** and **consequences** of occurrence of a defined **hazard**;

“risk assessment”

means the systematic identification, analysis, estimation and evaluation within a defined **scope** of the defined **risks** of a particular activity, operation, process or design, carried out and reported by suitably qualified or competent persons, using recognised quantified or semi-quantified methods and techniques.

Unless otherwise agreed by the Department within these conditions, a risk assessment shall include and record the following:

- definition of the **hazards** associated with an activity, operation, process or design;
- assessment of the **probability** of those **hazards** occurring;
- determination of the potential **consequences** of those hazards for defined **environmental targets or receptors**, taking into account defined **release pathways** and defined protective measures;
- evaluation of the potential **magnitude** of those consequences and the **probability** of their occurrence;

“scope of risk assessment”

means the boundaries of the **risk assessment** and the **risks** to be assessed within those boundaries, as defined in the conditions or otherwise agreed by the Department within the conditions;

“specified waste management operations”

means the waste management operations authorised by condition 1 of this licence;

“surface water”

means any lake, pond, river or watercourse whether natural or artificial;

“the 1997 Order”

means the Waste and Contaminated Land (Northern Ireland) Order 1997 any statutory provisions or regulations amending or replacing them;

“the 2003 Regulations”

means the Waste Management Licensing Regulations (Northern Ireland) 2003;

“the Department”

means the Department of Environment;

“the NIEA”

means the Northern Ireland Environment Agency;

“the Licence Holder”

means the Licence Holder specified in this licence or other person to whom the licence has been transferred in accordance with Article 14 of the 1997 Order;

“the operator”

means a person who is in occupation of the site and has responsibility for carrying out day to day activities at the site;

"the site"

means the land, structures, plant and equipment to which this licence relates;

"time periods, e.g. annually, quarterly, monthly, per year, etc. "

Where periods are referred to in conditions, they shall be calculated in the following way:

- annually or per year: 1 April to 31 March;
- quarterly: 1 April to 30 June, 1 July to 30 September, 1 October to 31 December, 1 January to 31 March;
- monthly: calendar month;
- weekly: Monday to Sunday.

Where the issue of the licence does not coincide with the start of any of these periods, then any relevant limits for the first period shall apply pro rata;

"waste"

means waste as defined in Article 2(2) of the 1997 Order or any statutory provisions or regulations amending or replacing it;

"Closure Plan"

means the Closure Plan identified in writing by the Department at the time of issue of this licence and any subsequent amendments to it made in accordance with the conditions of this licence.

EXPLANATORY NOTES - including rights of appeal.

RIGHTS OF APPEAL

Article 17 of the Waste and Contaminated Land (NI) Order makes provision for the applicant to appeal the Decision of the Department to the Planning Appeals Commission where:

1. ~~An application for a licence, or a modification of the conditions of a licence is refused;~~
2. a licence is granted subject to conditions;
3. the conditions of a licence are modified;
4. a licence is suspended;
5. a licence is revoked under Article 12 or 16;
6. an application to surrender a licence is refused; or
7. an application for the transfer of a licence is refused.

Appeals should be made by notice in writing. Such a notice shall be accompanied by:

1. a statement of the grounds of the appeal;
2. where the appeal relates to an application for a waste management licence or for the modification, surrender or transfer of a waste management licence, a copy of the appellants application and any supporting documents;
3. where the appeal relates to an existing waste management licence (including a waste management licence which has been suspended or revoked) a copy of that licence;
4. a copy of any correspondence relevant to the appeal;
5. a copy of any other document relevant to the appeal including, in particular, any relevant consent, determination, notice, planning permission under the Planning (NI) Order 1991(a) or consent under the Water (NI) Order 1999; and
6. a statement indicating whether the appellant wishes to appear before and be heard by the Planning Appeals Commission.

Notice of appeal must be given within 2 months of the date of the decision which is the subject of the appeal. Notices of appeal should be sent to:

The Planning Appeals Commission
Park House
87-91 Great Victoria Street
Belfast
BT2 7AG

Waste and Contaminated Land (NI) Order 1997
MODIFIED WASTE MANAGEMENT LICENCE

LICENCE REF No :- LN/10/13/V2

FACILITY TYPE :- Closed Landfill

The Department of Agriculture, Environment and Rural Affairs, in pursuance of the Waste and Contaminated Land (NI) Order 1997, hereby modifies the waste management licence through a name change authorising the deposit of controlled waste on the land specified in schedule 1 to this licence to:

Biffa Landfill Solutions Limited
Coronation Road
Cressex
High Wycombe
Buckinghamshire
HP12 3TZ

Company Registration No: 01362615

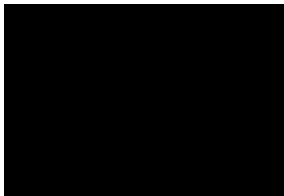
this persons being in occupation of the said land, the said licence being subject to the conditions specified in schedule 2 to this licence.

SCHEDULE 1.- SPECIFIED LAND.

The licence relates to the land at Green Road Quarry, 64 Green Road, Ballyclare, BT39 9PH (hereinafter called "the site") described by Planning Permission **U/92/0505** granted by Planning Service on **3rd November 1992**.

On modification of the Waste Management Licence LN/10/13/CM issued by Northern Ireland Environment Agency dated 14 March 2012 all conditions in Schedule 2 shall continue to be valid.

Sign



Name :- Colin Millar
Authorised officer of NIEA

Dated 5th November 2025

YOUR ATTENTION IS DRAWN TO THE RIGHTS OF APPEAL DETAILED AT THE END OF THIS LICENCE.

EXPLANATORY NOTES - including rights of appeal.

RIGHTS OF APPEAL

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1. An application for a licence, or a modification of the conditions of a licence is refused;
2. a licence is granted subject to conditions;
3. the conditions of a licence are modified;
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5. a licence is revoked under Article 12 or 16;
6. an application to surrender a licence is refused; or
7. an application for the transfer of a licence is refused.

Appeals should be made by notice in writing. Such a notice shall be accompanied by:

1. a statement of the grounds of the appeal;
2. where the appeal relates to an application for a waste management licence or for the modification, surrender or transfer of a waste management licence, a copy of the appellants application and any supporting documents;
3. where the appeal relates to an existing waste management licence (including a waste management licence which has been suspended or revoked) a copy of that licence;
4. a copy of any correspondence relevant to the appeal;
5. a copy of any other document relevant to the appeal including, in particular, any relevant consent, determination, notice, planning permission under the Planning (NI) Order 1991(a) or consent under the Water (NI) Order 1999; and
6. a statement indicating whether the appellant wishes to appear before and be heard by the Planning Appeals Commission.

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