

# Caulmert Limited

Engineering, Environmental & Planning  
Consultancy Services

## Rhuddlan Bach Quarry Landfill Site

Clive Hurt Anglesey Limited

## Permit Transfer Application

## Supporting Document

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## 1.0 INTRODUCTION

### 1.1 Background

1.1.1 Caulmert Limited were appointed to prepare an application to transfer the environmental permit from Hurt Plant Hire (UK) Limited to Clive Hurt Anglesey (UK) Limited. The transfer is for Environmental Permit No EPR/FP3590LV located at Rhuddlan Bach Quarry Landfill Site (hereinafter called 'the site').

1.1.2 The permit reference number for the permit being transferred is:

- Rhuddlan Bach Quarry Landfill Site – Permit Number EPR/FP3590LV

### 1.2 Document structure

1.2.1 This Supporting Document has been prepared to provide additional information to support the information provided in the environmental permit application survey. To aid cross-referencing between this Supporting Document and the application form, the various issues are presented in the same order as in the application and the headings in this document include the relevant part of the application form as well as the specific question number to which the information relates.

## 2.0 COMPANY DETAILS

### 2.1 Company Directors

The names of the Company Directors are listed below in Table 1.

Table 1 – List of Directors

Name of Directors	DoB
Richard Hurt	November 1978
Clive Hurt	September 1951

### 2.2 Site details

2.2.1 Following transfer of the permit the site address will be:

Clive Hurt Anglesey (UK) Limited.

Rhuddlan Bach Quarry Landfill Site,

Brynteg,

Anglesey,

North Wales,

UK.

LL78 7JJ.

### 2.3 Permit Details

2.3.1 The Environmental Permit which is to be transferred is EPR/FP3590LV for Rhuddlan Bach Quarry Landfill.

2.3.2 This transfer application is for the transfer of the entire permit.

2.3.3 The signed agreement to transfer the permit is included in Appendix 1.

### **3.0 OPERATOR ABILITY**

#### **3.1 Relevant offences**

- 3.1.1 The new operator has confirmed there are no reportable relevant convictions relating to the Company or its Directors.

#### **3.2 Technical ability**

- 3.2.1 Clive Hurt Anglesey Limited have chosen to implement the Operator Competence System developed by the Chartered Institute of Wastes Management. The CIWM is approved by NRW to satisfy the Environmental Permit competency requirement.
- 3.2.2 A copy of the relevant certification is included in Appendix 1.

## **4.0 FINANCES**

### **4.1 Bankruptcy and Insolvency.**

- 4.1.1 The new operator has confirmed that there are no current or past bankruptcy or insolvency proceedings against the Company or the Directors.

## **5.0 MANAGEMENT SYSTEMS**

### **5.1 Environmental Management Systems.**

- 5.1.1 The operator has implemented an environmental management system across the company to control the operations at their sites. This will remain unchanged.
- 5.1.2 A copy of the Environmental Management System is detailed in Appendix 3.



## APPENDIX 1

### Signed Permit Transfer Agreement

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Hurt Plant Hire Ltd,  
11 Neptune Court, Hallam Way, Whitehills Business Park, Blackpool, Lancashire FY4 5LZ.

Subject: Authorisation for Transfer of Permit No. EPR/FP3590LV

Hurt Plant Hire Ltd,

I am writing to formally authorise the transfer of the existing Rhuddlan Bach Quarry Landfill Site permit reference number EPR/FP3590LV, to Clive Hurt Anglesey Ltd.

If you knowingly or recklessly make a statement which is false or misleading to help you get an environmental permit (for yourself or another person), you are committing an offence under the Environmental Permitting (England and Wales) Regulations 2016. I declare that the information in this application is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

I understand that if I knowingly or recklessly make a false or misleading statement:

- I may be prosecuted;
- and, if convicted, I may have to pay a fine and/or go to prison

By signing, I am confirming that I understand and agree with the declaration above



Title **DIRECTOR**

First name **JOHN**

Last name **FLOOD**

Date" **10TH FEBRUARY 2024**

## APPENDIX 2

### Technical Ability

# Continuing Competence Certificate

This certificate confirms that

**Anthony Barry**


Has met the relevant requirements of the Continuing Competence scheme for the following award(s) which will remain current for two years from 20/12/2023

LH	Landfill - Hazardous Waste
TSNH	Transfer - Non Hazardous Waste
TMNH	Treatment - Non Hazardous Waste

**Expiry Date:**  
**20/12/2025**

Verification date: 09/12/2023

Authorised:



Professional Services Director

Learner ID: 8484

Certificate No.: 5241472

Date of Issue: 20/12/2023



CIWM Chief Executive Officer



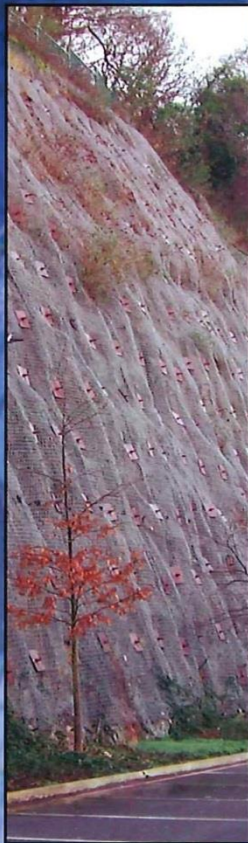
The Chartered Institution  
of Wastes Management



## **APPENDIX 3**

### **Summary of Current Environmental Management System**





**CLIVE HURT (PLANT HIRE) LIMITED**

**ENVIRONMENTAL MANAGEMENT SYSTEM**

**August 2017**

**Report 3276/R/002/01 EMS**



**CLIVE HURT (PLANT HIRE) LIMITED**

**INERT WASTE TREATMENT & TRANSFER FACILITY  
AND  
INERT WASTE LANDFILL**

**ENVIRONMENTAL MANAGEMENT SYSTEM**

**August 2017  
Report 3276/R/002/01 EMS**

**CARRIED OUT FOR:**

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## DOCUMENT INFORMATION AND CONTROL SHEET

### Document Status and Approval Schedule

Report No.	Title
3276/R/002	Clive Hurt (Plant Hire) Limited Inert Waste Treatment & Transfer Facility and Inert Waste Landfill Environmental Management System

### Issue History

Issue	Status	Date		Signature	Date
1	Draft to Client	August 2017	<b>Prepared By:</b> J. Baxter	<i>John Baxter</i>	17/08/2017
			<b>Checked By:</b> R.Barlow	<i>Rob Barlow</i>	17/08/2017
			<b>Authorised By:</b> J. Baxter	<i>John Baxter</i>	17/08/2017
1	Issued	August 2017	<b>Prepared By:</b> J. Baxter	<i>John Baxter</i>	21/08/2017
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			<b>Authorised By:</b> J. Baxter	<i>John Baxter</i>	21/08/2017

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This consultancy contract was completed by TerraConsult Ltd on the basis of a defined programme and scope of works and terms and conditions agreed with the client. This report was compiled with all reasonable skill, and care, bearing in mind the project objectives, the agreed scope of works, the prevailing site conditions, the budget, the degree of manpower and resources allocated to the project as agreed.

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This Environmental Management System is a live document and, consequently, is intended to be periodically revised. The Schedule of Revisions below will be updated and reissued with each revision, to ensure that the reader has a reference advising him/her that the section they are referring to is the most up to date.

[illegible]

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APPENDIX I	LEGAL AND OTHER REQUIREMENTS REGISTER
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## 1.0 INTRODUCTION

### 1.1 Introduction

Clive Hurt (Plant Hire) Limited (the Company) operate under one management system at their waste operations located at two adjacent sites on Anglesey. The two sites are:

- Rhuddlan Bach Quarry Landfill located close to Brynteg, Anglesey, L78 7JJ and operated in accordance with permit EPR/FP3590LV; and
- Nant Newydd Quarry Landfill and associated inert waste treatment facility, again located close to Brynteg, Anglesey, L78 7JJ and operated in accordance with permits RP3337SE and EPR/AB3095CJ.

The Company recognises the overall effect that the waste management industry has on the environment and therefore the Company has decided to conduct its business using an **Environmental Management System (EMS)** in order to minimise the risk of pollution and to reduce the other environmental aspects identified within it.

The EMS is designed to serve three purposes:

1. It is a controlled document stating the Environmental Policy (Appendix A) and defining the procedures to be established and operated at the two sites as a whole;
2. It is a training document for use in instructing employees on the environmental issues and procedures which they must employ to meet or surpass relevant environmental legislation and regulations; and
3. It is an information document for clients and their representatives defining the procedures the companies have in place.

### 1.2 Site Activities

The activities undertaken on both the sites are as follows:

1. Treatment consisting of manual sorting, separation, screening and crushing of inert and excavation wastes into different components for recovery;
2. Storage of wastes;
3. Recycling/reclamation of other inorganic materials; and
4. Landfilling of inert wastes including excavation soils and demolition materials.

---

## 2 REGULATORY COMPLIANCE

### 2.1 Introduction

The operations at the two sites are governed by a number of regulatory requirements. To assist personnel in their day-to-day operational roles, a Legal and Other Requirements Register (Appendix I) is maintained.

The main regulatory tools are the Planning Permission and Environmental Permits (Appendix I). The Environmental Permits are summarised below:

- **EPR/WP3132SX** – inert waste landfill site (Rhuddlan Bach Quarry);
- **EPR/AB3095CJ** – waste transfer station with treatment to produce soil, soil substitutes and aggregate (Nant Newydd Quarry); and
- **RP3337SE** – inert waste landfill (Nant Newydd Quarry).

The Environmental Permits detail the requisite environmental control measures to a far greater degree. In particular, the Permits consider all potential or actual emissions to a range of environmental media including ground, air, surface water and groundwater.

Site personnel will be made aware of the importance of complying with the Environmental Permits, and also the requirements of the contingency action plans. A copy of each Environmental Permit is contained in Appendix I, and will be retained in the site office for review purposes throughout its operation.

### **3 COMPANY ORGANISATION**

#### **3.1 Environmental Policy Statement**

A Policy Statement that sets out the Company's position regarding their operations in the context of environmental protection, is contained in Appendix A. This policy includes a commitment to:

- comply with relevant regulatory legislation;
- achieve continual improvement and prevention of pollution; and
- identify, set, monitor and review environmental objectives.

#### **3.2 Management Structure**

This is described in greater detail in the Company organogram contained within Appendix B.

#### **3.3 Organisation and Responsibility**

Staff responsibilities are detailed in Appendix H.

All staff, employees and sub-contractors working at the two sites are to be fully aware of the environment surrounding the work area and of the possible environmental consequences of their operations. They should report any environmental problems to their supervisor and are encouraged to make any suggestions on improving the controls already in place. This awareness is facilitated through the provision of relevant training, and the implementation of the site management system and via regular discussions between staff and their appropriate managers/supervisors.

##### ***Objectives and Targets***

The objectives are directly related to the Environmental Aspects Register (Appendix C).

When establishing and reviewing the long-term objectives, consideration is given to the legal requirements, significant environmental aspects, technological options, financial and operational requirements along with the views of relevant interested parties.

All objectives and targets are consistent with the Environmental Policy Statement and are aimed at the prevention of pollution and the reduction of waste materials.

#### **3.4 Communication**

Procedures for dealing with both the internal and external communication of environmental issues and document control are:

##### **3.4.1 Internally**

The Site Manager will issue key personnel with a controlled copy of the EMS. This document will be retained on site for reference by other employees and sub-contractors. Any

amendments or revisions to the system will be issued to the holders and this information should be brought to the attention of employees where applicable:

- All new employees will receive an 'Induction to the EMS' and then attend subsequent updates, which will further promote environmental awareness and communication to all employees and sub-contractors; and,
- Any questions, views or suggestions from employees that relate to environmental issues may be raised and minuted as part of the regular staff meetings held on site and then reported for appropriate action to be taken.

### **3.4.2 Externally**

- Any external correspondence, questionnaires and requests for information on the EMS will be passed onto the Site Manager. A record of all such requests for information shall be kept along with copies of the completed questionnaires and the relevant correspondence where appropriate.
- Any external complaints should be directed to the Site Manager to ensure a rapid response is achieved. All complaints should be recorded on a Complaints Form (Appendix E). Where deemed necessary, the incident may be recorded on an Incident Form (Appendix F) following the procedures detailed later in this document. Where the incident results in, or is due to, a breach of Environmental Permit Condition, a Non-Conformance Form (Appendix G) will be completed.

The Site Manager will ensure that all documentation relating to environmental issues and the implementation of the EMS are held within an indexed master file at the Head Office to ensure rapid retrieval. However, the aim of the EMS is on effective implementation and environmental performance and not on a complex document control system.

As previously stated, the EMS is a controlled document and as such all amendments should be issued and the obsolete documents withdrawn.

All parts of the EMS carry an issue date and status to ensure that only the latest revisions are being implemented.

## **3.5 Competence and Training**

The Company recognises the importance of training and as such all Directors, Managers and Supervisors are responsible for ensuring that all staff and operatives (including sub-contractors) working on the site are competent to carry out their duties without significant impacts upon the environment.

As a minimum requirement, every person working under the Company's control on the site will be given a brief induction to the EMS and to any specific environmental issues relevant to their work. This induction will be given during the Site Safety Induction.

This induction will highlight the following:

- main environmental aspects relating to the site;
- methods of reducing potential risks of pollution;
- principles of waste management for the contract; and
- emergency procedures to follow if a problem occurs.

Environmental awareness will be promoted and further improvements to the EMS will be discussed by carrying out talks on site. These talks should be attended by all site personnel and sub-contractors and be on a regular basis to ensure that all operations are carried out to minimise environmental impact.

On completion of the separate site safety induction, an employee conversant with the requirements of the permits and EMS (e.g. Site Manager) will explain the document's importance to all employees or contractors who are new to site.

### **3.5.1 Training Strategy**

The training policy has been tailored to allow personnel to improve company performance and development whilst at the same time encouraging their career development. In particular, the company aims to ensure the following:

- each employee understands what is expected, in the context of their current position;
- each employee has the opportunity to learn the skills necessary to perform their current job function to their full potential;
- each employee is prepared for the future challenges created within the business; and
- each employee is encouraged to develop his or her full potential.

Training details are contained in Appendix H.

### **3.5.2 Skills and Competencies**

In general, training needs are identified through a system of managerial reviews which both assess the existing skill levels of the workforce and provide the opportunity to review employee performance on an annual basis. High priority is given to the training and development of individual skills to enable employees to undertake the responsibilities of their particular job. This is covered in greater detail in the Training Plan within Appendix H.

Relevant training will include consideration of the following:

- regulatory implications of the site Permits;
- environmental risks associated with the site activities;
- importance of adopting sensible operational procedures as outlined in Section 4 below; and
- raising awareness of the need to report any incidents or non-compliances.

This is generally covered by the WAMITAB or equivalent competency based training programme.

All staff training needs are determined by way of staff performance assessment and the Training Checklist within Appendix H.

### **3.5.3 Awareness of Regulatory Requirements**

In order to raise awareness of the regulatory requirements (planning consent and environmental permits) and provide a framework for the site activities, a Legal and Other Requirements Register is maintained (Appendix I). This lists the relevant legislation, codes of practice and regulations currently in use throughout the industry which are applicable to the environmental aspects identified.



All new legislation should be reviewed and be incorporated into the EMS. All environmental aspects shall be monitored on an annual basis as a minimum to ensure that they are operating within the requirements of the current regulations and codes of practice.

#### **3.5.4 Awareness of Site Operations on Surrounding Environment**

It is recognised that the environmental aspects of site operations requires identification. Once identified, these aspects are recorded in the Environmental Aspects Register (Appendix C). This register will be maintained and will be reviewed and updated annually in advance of the management review. The most significant environmental aspects are identified and considered in detail. Following on from the assessment, written procedures or work instructions have been developed to ensure that effective controls are being set up and maintained.

#### **3.5.5 Awareness of Accidental Emissions**

The training administered will include guidance upon the prevention of accidental emissions. Site-specific environmental impact and accident risk assessments may be used to emphasise to site staff the potential risks arising from operation of the site in general and their day-to-day activities in particular.

#### **3.5.6 Training Records**

It shall be the responsibility of the Site Manager to maintain a record of employee skills / training achievements.

### **3.6 Instructions to Third Party Contractors**

The activities of third party contractors working on site often carry the same level of environmental risk as that carried out by full-time staff. For this reason all sub-contractors working on the site will (where appropriate) be included in the training programme outlined above.

All third party contractors working on site will be made aware of the content of the EMS and the requirements of, and obligations under, the site's planning consent and Environmental Permits.

### **3.7 Purchasing Policy**

#### **3.7.1 Introduction**

It is recognised that a consideration of environmental issues must be made with regards to the Purchasing Policy. In many cases, there are tangible financial incentives for purchasing equipment with a higher standard of environmental performance.

Purchases made for the site can be divided into the groups detailed below.

#### **3.7.2 Mobile Site Plant**

The following points are considered from the perspective of mobile plant purchases:

- 
- Whether plant suppliers themselves are accredited to ISO 14001 or possess another EMS;
  - The emissions from the item of plant;
  - Fuel efficiency; and
  - Degree of acoustic baffling and therefore its noise emissions.

### **3.7.3 Static Site Plant**

Static site plant will be purchased with due regard for their fuel efficiency and degree of acoustic baffling.

### **3.7.4 Fuels and Lubricants**

Although a necessary consequence of many site operations, consumption of all hydrocarbon-based fuels and lubricants has an environmental impact to a greater or lesser degree. It is difficult, therefore, to apply environmental performance-based criteria to the purchase of such materials. Nevertheless, the efficiency and recycling potential of such raw materials will be considered during their purchase.

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## **4 OPERATIONAL CONTROL PROCEDURES**

### **4.1 Introduction**

The Environmental Aspects Register identifies potential impacts of the sites' activities. The most significant of which have been identified. The assessment also gives brief notes of possible action to be taken to reduce the overall impact of each activity. The following procedures have been developed to address the most significant.

### **4.2 Waste Acceptance Procedures**

#### **4.2.1 Introduction**

The impact of site is influenced by the inert excavation waste to be accepted. Acceptance of waste onto the sites will be carried out with reference to the following documents:

- *The Environmental Permitting (England and Wales) Regulations 2016 (as amended);*
- *The Waste (England and Wales) (Amendment) Regulations 2012 (as amended); and,*
- *Waste Duty of Care Code of Practice; and associated guidance.*

#### **4.2.2 General**

Only waste carriers who are registered waste carriers demonstrating due compliance with their Duty of Care will be permitted to deposit waste at either site.

Wastes will only be received at the sites following assessment at the respective site office. All wastes received will be subject to, where possible, a visual inspection at the point of arrival on the site to ensure the waste complies with its Duty of Care documentation. This forms an integral part of the waste acceptance procedures detailed below.

#### **4.2.3 Waste Acceptance Records**

All waste received will be subject to detailed inspection. Only if the description of the waste on the Waste Transfer Note accords with the appearance of the waste and that the deposit of such waste is permitted under the site permits, will the load be accepted at the site.

If receipt of the load is acceptable, the waste carrier will be issued with an appropriate receipt signed by the site office operative, who will keep a copy for invoicing purposes and in accordance with the requirements of the site Permits.

Records of the quantity and type of all incoming wastes accepted at the site, and their time and date of deposit, will be maintained throughout its life and as long thereafter as is required by the National Resources Wales (NRW). The records will be available for inspection, and returns will be made to the NRW as required throughout the year.

#### **4.2.4 Waste Inspection**

All incoming waste will be subject to a system of procedures to ensure compliance with the permitted waste types. These procedures involve three levels of verification:

*Level 1: Basic Waste Characterisation*

This is carried out by the waste producer or holder prior to delivery to the site to gather information necessary for confirmation that the waste is acceptable to be received under the appropriate conditions of the site Permits. The following information will be required:

- source and origin of the waste, including the process that gave rise to the waste;
- appearance of the waste (smell, colour and physical form);
- description of the waste treatment process, if appropriate;
- composition of the waste;
- appearance of the waste (smell, colour and physical form);
- European Waste Catalogue coding; and
- any additional precautions to be taken at the treatment facility.

The characterisation process will focus on those properties that determine the waste classification as either: hazardous; non-hazardous; or inert. Basic characterisation of the waste stream will also indicate whether initial testing is required to establish the waste's composition and leaching behaviour. It may not be necessary once a basic characterisation has already been carried out.

Wastes will only be accepted at the site if they fall within the limited types of wastes permitted in the EWC code list set out in each of the site Permits and then only to that particular permitted activity.

*Level 2: Compliance Testing*

This level of verification may be carried out with due regard for those waste characteristics identified at the Level 1 Basic Characterisation. It may be carried out on regularly occurring waste streams to ensure that they are unchanged and continue to comply with the results of the basic characterisation, the acceptance criteria for the sites, and respective permit requirements.

*Level 3: On-Site Verification*

Each load arriving will be subject to a Level 3 Verification. This constitutes a visual inspection, by site personnel prior to the waste entering the treatment process or being finally placed for disposal. The accompanying Duty of Care documentation will also be verified at this stage.

**4.2.5 Quarantine Storage and Waste Rejection Procedures**

In the event that any load or part load is found, prior to being deposited, to be outside those permitted at the site it will be rejected.

Loads which are found to be potentially unsuitable after deposit will be referred to the respective site manager for action. This could include rejection of further loads from the source, isolation and removal of the waste materials and restrictions on future waste inputs from the producer.

In each instance, the site manager or nominated deputy will issue a Load Rejection Form to the waste producer or carrier.

In such circumstances where a waste load is rejected, NRW will be notified and a record kept in the site diary of:

- nature and quantity of waste load;
- name and address of waste producer / waste carrier;
- waste carrier registration number;
- vehicle registration number; and
- date and time of load rejection.

All rejected loads will be accompanied by the correct documentation.

#### 4.2.6 Sampling and Testing of Waste Stream

The majority of wastes to be accepted at the site will be excavated materials which may have been characterised by a prior site investigation. If available the results of any laboratory testing will be checked to ensure that the wastes accepted are permitted.

### 4.3 Nuisances

#### 4.3.1 Introduction

Operation of the site has the potential to detrimentally impact upon the amenity of its surroundings via a range of environmental hazards including noise, odour and dust. Table 1 identifies the most sensitive individual receptors within a 500m radius of the sites boundaries and the potential environmental hazards posed by the sites, as follows:

**Table 1: Identification of Environmental Receptors**

Receptor	Approx. distance from boundary (m)	Direction	Environmental Hazards			
			Dust	Odour	Noise and Vibration	Mud and Debris
Nant Newydd Quarry						
Bodgynda Farm	200	W	✓	✓	✓	✓
Nant Newydd Caravan Park	280	E	✓	✓	✓	✓
Nant-uchaf Farm	480	N	✓	✓	✓	✓
Cors Erddreiniog SSSI (SAC and Ramsar Site)	460 & 300(respectively)	E & S	✓	-	✓	✓
B5110 Road	0	S	✓	-	-	✓
Ty' n-y-lon Farm House	160	SW	✓	✓	✓	✓
Rhuddlan-bach Quarry						
Cors Goch Nature Reserve SSSI (SAC and Ramsar)	274	E	✓	-	✓	✓
B5110 Road	0	N	✓	-	-	✓
Ty' n-y-lon Farm House	400	NW	✓	✓	✓	✓
Rhuddlan Fawr Farm	100	SE	✓	✓	✓	✓
Water Course / Drain	30	S	✓	-	-	✓

A range of management plans will be implemented throughout the site's lifecycle to ensure that all potential environmental impacts are reduced to very low or negligible levels. These are described in the following sections.

#### **4.4 Control of Dust and Aerosols**

##### **4.4.1 Introduction**

The potential impact of dust upon neighbouring sensitive receptors has been considered with reference to: Environment Agency M17 document '*Monitoring of Particulate Matter in Ambient Air Around Waste Facilities*'; Best Practice Guide produced by the Greater London Authority (2014) '*The control of dust and emissions from construction and demolition*'; and IAQM *Guidance on the Assessment of Mineral Dust Impact for Planning* (2016).

Dust, aerosols and other particulates may be generated from a number of sources, including:

- Deposition of the waste soils and excavation materials on the transfer/treatment area or landfill;
- Inert waste stockpiles;
- Soil screening processes;
- Transfer of treated soils on and off site for re-use; and
- Site plant and other vehicles (both from exhaust emissions and traffic movement along unpaved site haul roads).

Control of particulates will be required both to prevent its escape from the site in significant quantities and to ensure that site personnel are not exposed to harmful levels of particulates via inhalation.

##### **4.4.2 Deposition of Waste**

Where it is known that loads will be prone to entrainment by the wind, they will be dampened down with a water bowser or similar item of plant prior to it entering the treatment process to prevent the entrainment of fine particles of the waste.

During particularly windy conditions, deposit of dry loads may be restricted or suspended altogether if the risk of fugitive emissions of dust off site is too great. In such circumstances, the load may be stored on site until weather conditions permit its deposit, or the load may be rejected. In such circumstances, the final decision as to whether the load is deposited will be made using the professional judgement of the Site Manager. The permit for the inert waste treatment and transfer operations at Nant Newydd Quarry also specifies that wastes consisting solely or mainly of dusts, powders or loose fibres shall not be allowed to be deposited.

##### **4.4.3 Material Stockpiles**

Stockpiles of treated and untreated inert waste have the potential to generate aerial dust emissions during periods of drier weather. Such emissions will be minimised by the following measures:

- minimisation of material stockpile height;
- location of all stockpiles with due regard for sensitive receptors;

- compaction of outer faces of stockpile, to prevent both ingress of rain and fugitive emissions of dust via wind whip; and
- appropriate use of water bowsers to dampen stockpile faces.

#### **4.4.4 Waste Screening Processes**

Where it is known that the waste may be prone to entrainment by the wind (i.e. during prolonged dry weather or high winds), screening will either be suspended or the waste will be dampened down with a water bowser or similar item of plant prior to the treatment process to prevent the entrainment of fine particles of the waste.

#### **4.4.5 Off-Site Transfer of Treated Wastes**

Where it is known that loads will be prone to entrainment by the wind, they will be dampened down with a water bowser or similar item of plant prior to being despatched from site to prevent the entrainment of fine particles of the soils.

During particularly windy conditions, transfer of dry loads off site may be restricted or suspended altogether if the risk of fugitive emissions of dust off site is too great. In such circumstances, the load may be stored on site until weather conditions permit its removal from site. In such circumstances, the final decision will be made using the professional judgement of the Site Manager.

#### **4.4.6 Movement of Vehicles**

Traffic movements on unpaved haul roads have the potential to cause dust entrainment and movement off site. Internal roads are regularly maintained and may readily be cleaned with the site bowser or road sweeper (where applicable).

#### **4.4.7 Dust Suppression**

Suppression of dust on the sites will be carried out via the use of a bowser rather than rain guns, thus reducing the likelihood of generating aerosols in the first instance.

The health risk from aerosols generated by dust suppression activities will be minimised by the use of clean water.

#### **4.4.8 Dust and Aerosol Monitoring Plan**

During meteorological conditions that are likely to lead to fugitive dust emissions, suitably trained site staff will monitor the site at least once per day to ensure that dusty conditions do not prevail. The monitoring locations will be the current operational areas and the site boundary downwind of the operational areas and, if appropriate, areas of un-vegetated soils.

In the event of a dust nuisance identified either by site personnel or by external complaint, an investigation will be undertaken to identify its source. In the event that the dust has arisen due to operational practices on site, extra vigilance will be taken to ensure the procedures identified in the dust and aerosol management plan are being implemented accordingly. Should a particular activity be identified as causing a dust issue:

- operations identified as generating unacceptable emissions of dust will be reduced or suspended until effective remedial actions have been taken or the weather conditions resulting in the emissions have moderated;

- additional dust suppression may be employed by the spraying water onto surfaces and stockpiles;
- vehicle movement routes may be reconsidered with regard to location (i.e. relocating further from the receptor at risk), speed limits may be reduced, or surfaces and gradients altered;
- additional inspection of vehicles may be undertaken to ensure adequate covering of loads arriving and cleanliness of wheels when leaving the site;
- additional wheel cleaning may be employed;
- additional use of a road sweeper may be instigated; and
- waste handling procedures may be altered and waste acceptance procedures reviewed (e.g. stop accepting problematic wastes).

The results of all monitoring exercise will be recorded, together with any incidents of dust problems or complaints and the remedial actions instigated.

## **4.5 Control of Odours**

The risk of odours emanating from any activities on the site is considered negligible due to the nature of the waste types accepted permitted by the site activities. The risk will be further reduced to as low as practicably possible by a variety of operational management techniques detailed below.

### **4.5.1 Waste Acceptance**

All incoming loads will be checked for malodorous waste. Any malodorous wastes will be rejected from site.

### **4.5.2 Odour Monitoring Plan**

Due to the nature of the wastes to be handled at both sites olfactory monitoring is not proposed to be routinely undertaken. However, should odour monitoring be considered necessary e.g. in order to substantiate a complaint the following procedures will be employed. Olfactory monitoring will be carried out at downwind locations of the activities. If monitoring is undertaken as a result of a complaint from neighbouring properties, site staff will monitor at or near that location at least three times thereafter when the wind is in a suitable direction to convey site odours to a similar location.

In the event of an odour nuisance identified either by site personnel or by external complaint, an investigation will be undertaken to identify its source. In the event that this has arisen due to operational practices on site, extra vigilance will be taken to ensure the procedures identified in the odour monitoring plan are being implemented accordingly. Should a particular activity be identified as causing an odour issue:

- operations identified as generating unacceptable emissions will be reduced or suspended until effective remedial actions have been taken or the weather conditions resulting in the emissions have moderated;
- identified odorous wastes will be removed as soon as practical; and
- waste handling procedures may be altered and waste acceptance procedures reviewed.

The results of all monitoring exercise will be recorded.



## 4.6 Control of Noise and Vibration

### 4.6.1 Noise and Vibration Management Plan

The various sources of potential noise and vibration on the site are summarised in the following table below.

**Table 2: Major Sources of Noise and Vibration**

Source	Frequent		Infrequent	
	Continuous	Intermittent	Continuous	Intermittent
Transport of waste	✓			
Handling of waste	✓			
Operation fixed plant – treatment of waste		✓		
Deposit of waste		✓		
Stockpiling of waste		✓		✓
Reversing alarms		✓		
Fuel deliveries				✓
Plant deliveries (low loaders etc)			✓	
Operation of specialist plant (road sweepers, cranes etc)			✓	

A number of standard noise mitigation measures will be implemented to ensure that no significant impact upon the amenity of the area in general and the nearest residential properties in particular. These can be summarised as follows:

- plant will be checked at the recommended service intervals and maintained in accordance with the manufacturer's instructions, particular attention will be given to the condition of the fitted silencers;
- as part of the procurement of additional plant and equipment, consideration will be given to noise emission specifications;
- site roads will be maintained with smooth pot hole-free surfaces, and subject to a 15 mph speed limit;
- site personnel will be instructed to carry out all routine operations in a manner that does not cause unnecessary levels of noise; and
- all operations will be carried out in adherence to the hours stipulated by the site's planning consent.

Should complaints be received concerning noise or noise is identified by site staff above the normal expected levels then:

- operations identified as generating unacceptable noise emissions will be reduced or suspended until effective remedial actions have been taken or the weather conditions exasperating the emissions have moderated;
- plant identified as generating unacceptable noise will be subject to a service inspection to identify the cause; and
- road surfaces will be inspected and repaired as necessary.

All remedial action will be recorded.

## **4.7 Control of Mud and Debris**

The first sections of the site access roads at both sites are surfaced with tarmac, although the access to Rhudlan-bach Quarry is substantially longer. Internal unpaved roads will be regularly graded and surfaced with suitable hard-core so that it does not become a source of mud and debris on the wheels of site traffic. Any holes or soft spots that develop in temporary site roads will be repaired immediately. The edges of all non-surfaced roads will, if appropriate, be identified via the use of high visibility bunting or stones placed to define the running surface.

Traffic on the roads will be directed to and from the entrance to the point of discharge or receipt of material. If necessary, vehicles leaving the site will be required to use the wheel-cleaning equipment provided.

Notwithstanding this, the site accesses will be inspected daily and should there be evidence of mud and debris being carried onto the public highway, it will be removed using a road sweeper as soon as practical.

## **4.8 Surface Water Management**

### **4.8.1 Summary**

The waste types allowed are considered to have a very low leaching potential and therefore, the pollution risk to any sensitive receptors from soluble pollutants is considered negligible. However, for dewatering and surface water management associated with the operation of both quarries necessitate control measures to manage suspended solids being discharged from site. Control measures include appropriate provision for suspended solid settlement and discharges are controlled by emission limits in the respective permits. In addition measures are taken to prevent and contain any spills of fuel and oils used onsite as detailed in the following section of this EMS.

All waste recovery/treatment operations will take place on a suitable hard-standing, which will be subject to regular inspections and maintenance by the operator to reduce the risk of any polluting material entering the ground beneath.

## **4.9 Potentially Polluting Substances**

### **4.9.1 Storage of Hydrocarbon Fuels and Lubricants**

Hydrocarbon fuels and lubricants are kept in a secure storage facility within the permitted areas. All mobile plant is also stored in a secure location overnight for security reasons.

Any lubricants and coolants stored on site will be done so in their manufacturer's containers within suitable contained building so that any spill will be retained on impermeable surfaces.

### **4.9.2 Handling of Potentially Polluting Substances**

To prevent over-filling of diesel storage tanks, the delivery driver is instructed to remain with the vehicle during re-fuelling operations.

Any small local spillages will be soaked up with a suitably absorbent material. Run-off from the surfacing will be contained pending removal of any spill. Following delivery of fuel the recipient tank will be subject to inspection for evidence of spills otherwise tanks and bunds will be inspected weekly.

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## **5 ACCIDENT MANAGEMENT PLAN**

### **5.1 Introduction**

A number of accident risk assessments have been prepared, which highlight the hazards associated with a number of potential accident scenarios and the measures in place to mitigate against their repercussions.

### **5.2 Accident Risk Assessments**

Within the risk assessments detailed in Appendix F, the following aspects have been considered:

- the environmental consequences of any potential occurrence;
- the likelihood of the potential occurrence;
- actions taken to minimise the potential occurrence; and
- reference to various action plans in the event of an occurrence.

For the effective management of accidents, the following needs to be considered:

- an identification of the hazards posed by the facility or activity;
- an assessment of the risks, that is a combination of the probability, or frequency, of occurrence of a defined hazard and the magnitude of the consequences of occurrence; and
- the implementation of measures to reduce the risks of accidents, and contingency plans for any accidents that do occur.

#### **5.2.1 Identifying the Hazards**

The sites will be operated in such a manner that all necessary measures will be taken to prevent accidents and limit their consequences. The hazards posed by the installation to the environment are identified in the risk assessments contained in Appendix F.

#### **5.2.2 Assessment of the Risks**

The potential risk associated with the hazards are estimated by assessing their magnitude, that is the consequences of the impact upon receptors, and their probability, that is the likelihood of an accident occurring. This is considered in greater detail in the risk assessments presented in Appendix F, which assess the following:

- the hazard;
- the pathways and receptors;
- an estimation of the probability of the hazard occurring;
- the consequences or impacts of the hazard (these have been classified into five categories)
- the resultant risk;
- the mitigation measures to prevent or reduce the risk (risk management measures to prevent accidents occurring or reduce their environmental consequences if they do occur); and
- the mitigated risk.

### 5.2.3 Non-Compliance Events

Any events of actual or potential non-compliance with operating procedures or emissions limits identified will be handled, investigated, communicated and reported by way of an initial investigation, followed by mitigation of any environmental impacts caused.

The findings of the investigation, together with the mitigation measures and the actions for initiating and completing any corrective actions, will be recorded on a Non-Conformance Form (Appendix G).

In the case of an exceedence of a limit set in the sites' permits, or any other non-conformance as specified in each permit, NRW will be notified in accordance with the timescales contained therein.

### 5.2.4 Environmental Complaints

In the event of an environmental complaint received the following procedure will be undertaken:

1. All telephone calls and correspondence relating to environmental issues or complaints will be answered promptly and politely and will be logged on the Complaints Form (Appendix E);
2. The person receiving a complaint shall record the following details from the complainant when available:
  - name, address and telephone number of complainant;
  - date and time complaint made;
  - nature of complaint (odour, noise, dust, etc.);
  - details of the occurrence (time, location, description, etc.).
3. The complaint receiver shall convey the details of the complaint to the Site Manager, who will determine whether the complaint merits a full investigation;
4. Any investigation will take place to ascertain the cause/reason for the complaint and any appropriate action required. A formal response will then be forwarded to the complainant.
5. All written complaints received will be replied to within 5 working days, with a copy of the reply attached to any received correspondence and filed with the completed complaints form; and
6. If appropriate, the information will also be forwarded to NRW.

### 5.2.5 Incidents and Near-Misses

In the event of an environmental incident, the relevant procedures relating to fire, explosions, leaks and spillages detailed in the following sections will be implemented, and an Incident Report Form (Appendix F) completed. The form will document and record the relevant details of the incident, the resulting investigation into the causes of the incident, and any corrective or preventative actions to be taken.

Following the incident, the aforementioned non-conformance form will be completed to ensure that appropriate correction action will result from implementation of recommendations following the incident. A non-conformance form will also be completed in the event of a near-miss or potential non-compliance, thus ensuring that the recommended actions are implemented to prevent a repeat of the incident.

### 5.3 Emergency Action Plans

#### 5.3.1 Fire and Explosion Procedures

##### *Hazards*

The nature of both the transfer & treatment facility and the landfills, and the wastes to be accepted, make the risk of fire directly related to the permitted activities, highly unlikely. The combustion of other materials on site may give rise to fire or explosion and harmful smoke. The following factors are possible causes:

1. Naked flames;
2. Cigarettes;
3. Cookers/heaters in site cabins; and
4. Arson.

##### *Consequences*

Both fire and the resultant smoke can harm the health of site personnel and general public, and cause pollution of the environment and detriment to the amenity. Fire management may result in contaminated fire water which has pollution potential.

##### *Mitigation Measures*

Relating to the above numbered causes, these are:

1. No naked flames allowed near to potentially flammable materials, such as the fuel/oil store and the quarantine storage area;
2. Strict enforcement of the designated smoking area;
3. Cabins will be equipped with appropriate fire fighting equipment and appliances appropriately serviced; and
4. Appropriate security measures will be implemented to prevent unauthorised site access.

#### 5.3.2 Emergency Fire Procedure

Any outbreak of fire will be regarded as an emergency and immediate action will be taken to extinguish it. Fire fighting equipment is provided in the infrastructure area. The Fire Brigade will be notified immediately in the event of any significant fire breakout and NRW will be informed as soon as practical.

The fire emergency procedures for different scenarios at the site are detailed below.

##### *Site Fire Emergency Procedure*

The following procedure must be adhered to in the event of a fire:

1. ALL FIRES ON SITE MUST BE TREATED AS SERIOUS AND WILL BE REPORTED TO THE SITE OFFICE IMMEDIATELY.
2. If it is safe to do so, a fire on the site may be extinguished using site machinery to smother the fire with inert materials, working from the edge of the fire inwards. Plant and machinery must never be driven into the centre of any fire since this will place both the driver and the machine in danger. If possible, extinguish the fire with a portable extinguisher or water from within the site.
3. Should the fire be successfully extinguished by this action, a check should be kept of the area to ensure that the fire does not re-ignite. The area should be vacated until it is obvious that there is no further danger of the fire restarting.

4. If the above action FAILS to extinguish the fire, prohibit all entry to the area, then summon emergency services immediately. Close the site to all members of the public. Any persons already on the site should leave.
5. Telephone the Fire Brigade - Dial **999**. Give the exact details including the site address and telephone number:

**Table 3: Sites Details**

Sites Names	Address	Telephone Numbers
<b>Inert Waste Transfer, Treatment and Landfill.</b>	Nant Newydd Quarry Brynteg Anglesey LL78 7JJ (access north off B5110)	01248 851010 (Rhuddlan Bach Reception) 01772 432475 (Head Office)
<b>Inert Waste Landfill Site</b>	Rhuddlan Bach Quarry Brynteg Anglesey LL78 7JJ (access north off B5110)	

6. Where possible move all plant and equipment to a safe distance away from the fire area.
7. Inform NRW of the Fire.

**Site Office Fires**

Fire procedures will be kept within the site safety manual and posted on the office building wall. Staff will be trained in fire safety awareness and in the use of the site equipment. Standard procedures are as follows:

1. **IF YOU DISCOVER A FIRE:**
  - raise the alarm;
  - tackle the fire, if it is safe to do so;
  - notify the Fire Service;
  - proceed to the assembly point.
2. **ON HEARING THE ALARM:**
  - turn off any equipment being used;
  - close windows if necessary;
  - leave electric lights on;
  - if you are the last to leave a room, close the door;
  - do not delay to collect personal belongings;
  - proceed as quickly as you can, do not run, along the nearest fire exit route to the fire assembly point;
  - staff should direct any visitors in their care to the assembly point;
  - do not re-enter the building until you are told it is safe by the Fire Marshall or enforcing authority.
3. In the event of a fire, the standard accident/incident reporting procedure will be followed. NRW should be notified as soon as practicable of any fires occurring on the site.
4. No smoking will be allowed on the site unless in designated areas.

5. Details of emergency call out contact persons and telephone numbers will be issued to the Police and Fire Authorities.

### ***Equipment Fires***

Fires occurring on mobile plant will be initially dealt with by the use of hand held extinguishers, but in the event of a serious fire the Fire Authority would be called upon. All non-essential staff will evacuate the danger area and congregate for registration at the area identified by the muster sign.

### **5.3.3 Explosion**

The following procedure must be adhered to if an explosion should occur on site, or within the significant immediate vicinity of the site:

1. All on site personnel must move/be moved to a specified 'Assembly Point', situated a suitably safe distance from the site. A check should be made to ensure that all on-site employees and visitors are accounted for;
2. Depending on the location of the explosion, a decision must be made whether to immediately require the evacuation of the occupants of any designated domestic or industrial properties adjacent to the site;
3. Secure the evacuated area and prevent unauthorised persons from gaining access to the evacuated area;
4. If not already aware, contact site management who will liaise with the respective Emergency Services and / or Services Companies; and
5. When Fire Brigade representatives arrive on site, describe the situation and request that they take charge of evacuation and security.

### **5.3.4 Leaks and Spillages**

#### ***Objective***

This procedure details actions, recording and reporting of any spillages which take place. The objectives of this procedure are to ensure that spills are dealt with promptly in a manner that will reduce environmental impact. In order to achieve this, the nature and quantity of the spilled material needs to be established. The procedure is split into different categories (Category 1 – Minor spillages less than 5 litres, Category 2 – Major spillages more than 5 litres) and it is essential that the incident is assessed quickly, and the appropriate response taken.

#### ***Hazards***

The following scenarios are possible spillage causes:

1. Transfer of substances;
2. Overfilling of vessels;
3. Failure of plant and equipment;
4. Vandalism.

#### ***Consequences***

Even small spillages of oils and fuel can leave a sheen on the ground and cause surfaces to become slippery. Small amounts of oil or fuel can leave a significant sheen on the surface of water. Fuel and oil can have a detrimental impact upon aquatic fauna and flora.

Fuels and oils also pose a threat to the health and safety of staff and reference to COSHH data will be made in issuing appropriate protective clothing for dealing with spillages.

**Mitigation Measures**

Relating to the above numbered causes, these are:

1. Substances such as oils and other fluids for the maintenance of site plant will be handled by trained plant operatives. In the event of a spillage, this will be dealt with in accordance with the emergency spillage procedures.
2. The only tanker delivery will be fuel for the site plant which is stored within the Permitted area. Other oils and chemicals will be delivered in drums or smaller containers, which will not require the contents to be transferred. Fuel will be ordered when on-site stock is depleted, thus ensuring that the tank has a significant capacity. When fuel is delivered, the driver will be instructed to remain with the vehicle until the delivery process is complete, and the delivery will be supervised at all times. Should the volume of fuel exceed the capacity of the tank it will overflow into the bund. Any spillages will be dealt with in accordance with the documented emergency spillage procedures.
3. The breakdown of equipment may result in the release of oils and fuel, which have the potential to pollute the land, groundwater or surface water. All plant, equipment and machinery will be checked daily by trained staff and regularly maintained and serviced at their recommended frequencies. Any spillages of fluid from site plant, such as hydraulic oil, will be dealt with in accordance with the emergency spillage procedures.
4. Security measures are designed to prevent unauthorised site access which could result in spillages due to vandalism.

**5.3.5 Emergency Spillage Procedures**

In the event of any spillage, the following procedures must be implemented immediately:

1. Any spillage, no matter how minor, must be cleaned up immediately by mechanical means, using absorbent granules or other suitable material.
2. If the spillage is minor, i.e. less than 5 litres, take immediate action to contain the spillage using oil absorbent granules or other suitable material such as sand, and contact the Site Manager.
3. Action must be taken to prevent the spillage reaching any drainage system; if the spillage is large and there is any danger of the spillage entering the drain, the drain will either be filled with sand, bentonite (or similar), or a purpose-made bung fitted as a precaution, and the affected area cordoned off;
4. When a drain has been sealed, the flow to the subsequent drains must be checked to ensure that no seepage to them has occurred;
5. When the spillage has been satisfactorily contained, the contaminated absorbent granules and / or sand must be disposed of in a correct manner i.e. removed from the site to an authorised disposal facility;
6. The area affected must be cleaned, leaving the area free of any residue;
7. For spillages over 25 litres in volume, NRW will be notified as soon as possible.



It should be noted that the escape of 100 kg of any flammable liquid or gas is a classified 'Dangerous Occurrence' and must be reported to the area office of the Health and Safety Executive as soon as is practicable.

When the spillage event is under control a Spillage Report Form will be completed. The form will be used to assess why the spillage occurred and whether or not the action taken was successful. In the light of this assessment, process changes will be made to the spillage procedure and equipment available on site.

**Table 4: Category 1 Spillage - Actions**

Minor Spillage of Fuel, Oils and Coolants (less than 5 litres)	
Area	Action
Fuel Storage Area	Use absorbent granular materials and collect for disposal. Ensure that compound is cleaned
General Infrastructure Area and Site Roads	Use absorbent granular material or an absorbent boom to prevent the spread of the spill. Clean the area and put out a sign to warn drivers that the surface is slippery. Collect the absorbent materials and booms for disposal
Any where else within the site boundary	Form a temporary bund to prevent escape. If the spillage enters a watercourse then place an absorbent boom downstream

**Table 5: Category 2 Spillage - Actions**

Major Spillage of Fuel, Oils and Coolants (greater than 5 litres)	
Area	Action
Fuel Storage Area	Use absorbent booms and absorbent granules as directed by the manufacturer. Create bunds with stockpiled soils if necessary. Call out specialist contractor or if there is a fire risk call the Fire Brigade.
General Infrastructure and Site Roads	Stop traffic entering the area of the spillage. Assess the fire risk and if necessary call the Fire Brigade. Assess whether or not the spillage is likely to enter any watercourse. Where this is likely place absorbent boom(s) at locations in the watercourse to prevent any spillage spreading. Use absorbent booms and granules as directed by the manufacturer or call out a specialist contractor.
Anywhere Else Within the Site Boundary	Assess the likelihood of the spillage entering a watercourse. If there is potential for the spillage to enter a watercourse then place absorbent boom(s) at locations in the watercourse to prevent any spillages spreading. Use absorbent booms and granules as directed by the manufacturer. Call a specialist contractor or if there is a risk of fire call the Fire Brigade. Create bunds or ditches to catch the spillage.

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## **6 EVALUATION OF ENVIRONMENTAL PERFORMANCE**

### **6.1 Environmental Monitoring**

Environmental monitoring is required and is detailed in the respective environmental permits.

#### **6.1.1 Summary Environmental Waste Returns**

Details of wastes accepted and transferred off site for re-use will be submitted to NRW, in accordance with the requirements and timescales specified in each permit

### **6.2 Targets and Objectives**

Evaluation of the EMS in terms of the site's environmental performance, together with the setting of targets and / or performance objectives occurs in a number of ways:

- NRW site inspections check compliance with the conditions of the environmental permits and, therefore, the effectiveness of site management measures;
- assessment of environmental monitoring data;
- internal audits gauge compliance with a range of statutory requirements;
- records of complaints, incidents and non-compliances are reviewed on a regular basis to further gauge the efficacy of site management procedures and thus compliance with statutory requirements.

### **6.3 Management Review**

The Environmental Management System will be reviewed on an annual basis. This review will be attended by the senior management.

The review should include the following as a minimum on its agenda:

- results from internal auditing programmes;
- Non-Conformances raised and actions taken;
- adequacy and effectiveness of the overall EMS and procedures;
- identifying additional environmental aspects and impacts;
- extent to which objectives and targets have been achieved;
- possible changes to objectives, targets and management programmes; and
- possible change to Environmental Policy Statement.

### **6.4 Managing the EMS**

#### **6.4.1 Internal Updates and Document Control of the EMS**

The EMS is a dynamic working document which should reflect any changes made to the operation and administrative workings of the site. As such, the EMS will inevitably require regular updates as the nature of the site evolves through time.

Any changes to the EMS will be made by the Site Manager or authorised consultant on behalf of the company. Each revision will be documented in the schedule of revisions at the front of the

EMS document and accompanied with a revision number and date. A copy of the schedule of revisions and amended pages will be inserted into the working file for the appropriate year (controlled by the Site Manager). At the end of each year, the accumulated updates and schedule of revisions will be incorporated from the working file into the EMS (not including the completed forms), and copies of the same revisions sent to the other holders of the EMS (EA, Consultants etc).

#### **6.4.2 Working File**

For simplicity and ease of use, any notifications, site inductions, training forms, correspondence, reports, revised drawings, EA local agreements and provisional updates to the EMS text itself will be held in a Working File for any given calendar year. At the end of each year, a new Working File will be started and any changes from the previous year incorporated into the master EMS document by the Site Manager as described above.

The Working File (s) will be kept in the possession of the Site Manager, who will be kept updated with any forms or reports completed on his behalf by the site employees or associated consultants.

#### **6.4.3 Informing NRW of changes to EMS**

It will be the operators' responsibility to keep NRW informed of any changes to the operation of the site via the EMS. This will be undertaken by issuing NRW with details of the updates at the end of each calendar year. The interim changes recorded in the working file will be made available to the NRW on their request. The exception to this will be where there are any proposed changes to the environmental protection and/or monitoring systems where the NRW will be informed in advance if required by the permit, or when the change is made.

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## **7 MANAGING DOCUMENTATION AND RECORDS**

### **7.1 Policies**

A copy of the EMS document is present at the primary site office at Rhuddlan Bach Quarry. The Environmental Policy Statement forms part of that document (Appendix A).

### **7.2 Responsibilities**

Copies of the Management Structure and individual job descriptions, each detailing the various responsibilities of each member of staff, are retained at the site office.

### **7.3 Performance Targets**

Records of performance targets are retained at the site office, where they are compared against site audit results on an annual basis or more frequently if deemed necessary.

### **7.4 Maintenance Records**

All maintenance records for items of plant are retained at the site office.

### **7.5 Operational Procedures**

Operational procedures are detailed both in the site-specific EMS document and the environmental application documents. Copies are retained at the site office.

### **7.6 Monitoring/Inspection Records**

All records of environmental monitoring or inspection reports are retained at the site office.

### **7.7 Results of Audits and Reviews**

Audit results are retained at the site office.

### **7.8 Non-Compliance, Complaints and Incidents Records**

All records of incidents, complaints and actual or potential non-compliance with environmental permit conditions are retained both at the site office.

### **7.9 Training Records**

Training records, such as WAMITAB assessments (or equivalent) of Technical Competence, will be stored at the main site offices for annual review if required.

**APPENDIX A**  
**ENVIRONMENTAL POLICY STATEMENT**



## ENVIRONMENTAL POLICY STATEMENT

It is the policy of Clive Hurt Plant Hire Ltd to ensure that its representatives are aware of and uphold its environmental standards by adhering to the following codes of practice:

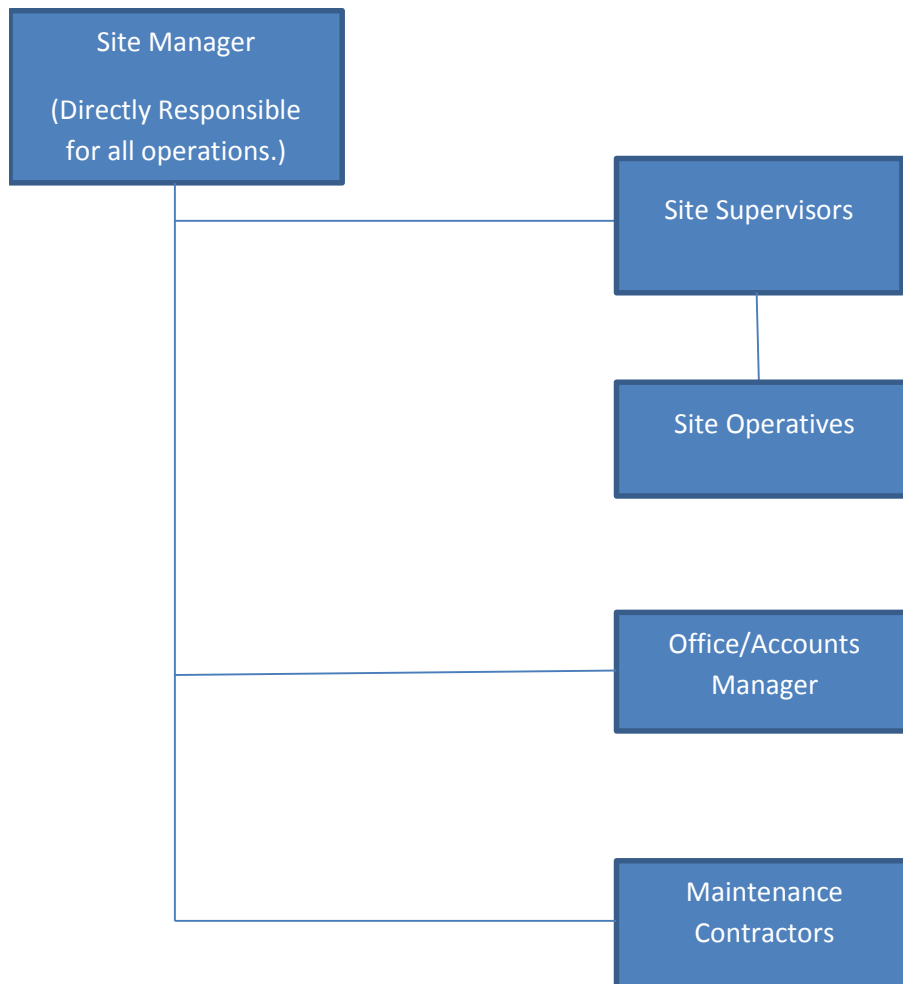
- Comply with all relevant legislation, local government regulations and guidance.
- Meet the environmental standards and specifications directed by our clients.
- Undertake their work with the minimum of disruption and disturbance to their clients, their neighbours and the environment.
- Use, where possible, chemicals and materials with a reduced impact on the environment.
- Effectively control the use of potentially hazardous materials and chemicals by the correct usage, storage and transport of such substances, preventing spillages into the atmosphere, land and water courses.
- Have effective emergency procedures in place for cleaning up spillages of potentially hazardous materials and chemicals.
- Remove general waste and hazardous waste in accordance with the legal Duty of Care and Hazardous Waste Regulations.
- Prevent any unnecessary atmospheric polluting activity, discharge of polluting substances into drains and water courses and prevent the deliberate discharge of polluting substances or waste into the ground.
- Recycle waste whenever possible and safely return to the environment any recoverable value from it.
- Comply with orders and legislation relating to conservation and the preservation of wildlife.
- Prevent general nuisance by avoiding activities which create unnecessary levels of noise, excessive emissions of fumes, generation of litter and any activities likely to cause nuisance.

Signature Clive Hurt Date 04/03/2014  
Clive Hurt – Managing Director

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## **APPENDIX B**

### **MANAGEMENT STRUCTURE**





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**APPENDIX C**

**ENVIRONMENTAL ASPECTS REGISTER**

**CLIVE HURT (PLANT HIRE) LIMITED**

**INERT WASTE TREATMENT & TRANSFER FACILITY**  
**AND**  
**INERT WASTE LANDFILL**

**ENVIRONMENTAL ASPECTS REGISTER**

**AUGUST 2017**  
**REPORT 3276/R/002/01 EMS**

**Carried Out For:**

**Clive Hurt (Plant Hire) Limited**  
Sandham House  
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## ENVIRONMENTAL ASPECTS REGISTER

### Introduction

Reference has been made to BS EN ISO 14001:2015 which states that:

“The organisation shall establish, implement and maintain a procedure(s):

- a. to identify the environmental aspects of its activities, products and services within the defined scope of the environmental management system that it can control and those that it can influence taking into account planned or new developments, or new or modified activities, products and services, and
- b. to determine those aspects that have or can have significant impact(s) on the environment (i.e. significant environmental aspects).

The organisation shall document this information and keep it up to date.

The organisation shall ensure that the significant environmental aspects are taken into account in establishing, implementing and maintaining its environmental management system.”

This register relates to the activities of Clive Hurt (Plant Hire) Limited, at the adjacent Nant Newydd and Rhuddlan Bach Quarry Sites on Anglesey.

### Environmental Aspects and Impacts Identification.

In order to ensure that all Environmental Aspects are identified the activities undertaken on the site are specified in the following tables:

- Table 2 – Inert and Excavation Waste Transfer and Treatment Facility;
- Table 3 – Non-Hazardous Soils & Excavation Waste Landfill;
- Table 4 – Ancillary Activities;
- Table 5 – Storage of Fuels/Lubricants.

The assessment of significance of each Environmental Aspect is undertaken in accordance with Table 1 below.

When considering likelihood of occurrence the following are considered:

- Certain. Constantly in normal conditions;
- Likely. Intermittent in normal conditions;
- Occasional. Possible may occur. May result from staff or equipment failure; and
- Unlikely to occur.

When considering the scale of the environmental impact the following are considered:

- Potential impact on the environment;
- The ability to rectify and remediate the impact;
- The costs associated with any remediation and loss of production;
- The potential for breach of regulations; and
- Public relations issues and company image.

The frequency of occurrence or severity of an impact can be mitigated by the current control measures employed in respect to the activity. If no control measures are required or full

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control is being implemented then the over risk rating can be reduced. If the control measures are required and not being implemented then the risk will remain unmitigated.

Table 1 – Assigning the level of significance

		Severity of Consequence (Scale and Environmental Impact)			
		Minimal reversible impact. Reversible within 1 month, minimal financial cost.	Minor pollution. Short term localised impact reversible in 1 year, minor financial loss	Moderate pollution. Short-term impacts not reversible in 1 year, external complaints, potential breach of legislation, moderate costs.	Major pollution impact. Long-term/irreversible impacts. Breach of legislation. Major costs, damages image.
		1	2	3	4
Likelihood of Occurrence					
Certain. Constantly in normal conditions	<b>D</b>				
Likely Intermittent in normal conditions.	<b>C</b>				
Occasional. Possible may occur. May result from staff or equipment failure.	<b>B</b>				
Unlikely to occur.	<b>A</b>				

Table 2 – Inert and Excavation Waste Transfer and Treatment Facility

Activity and Location	Environmental Aspect	Environmental Impact from the Activity	Conditions for the Impact to occur N – Normal A – Abnormal E - Emergency	Current Controls	Significance P- Policy L – Legal O - Other	Risk Rating
<p>Operation of the waste transfer and treatment facility to produce soil, soil substitutes and aggregates.</p> <p>Including:</p> <p>Waste handling prior to treatment.</p> <p>Screening process.</p> <p>Waste stockpiling following treatment.</p>	Use of Energy	Noise and Vibration	N	Infrastructure and plant maintenance. Screening mounds.	P L	D1
			A		P L	D1
	Minor water usage for dust suppression if required.	Dust/Mud on Highway	N	Housekeeping and visual monitoring.	P L	B1
			A		P L	C1
	Production of Wastes – Screen tailings	Energy Use	N	Monitoring.	P	D1
			A		P	D1
	Emissions particulates – dust from loading, stockpiles, screening and transport.	Water Use	N	Monitoring – Clean surface water used where possible.	P	B1
			A		P	C1
	Emissions of Noise – loading operations, plant operation and vehicle movements.	Non-Hazardous Waste	N	Procedures and monitoring. Re-use of tailings to create on-site hard standing.	P L	B1
			A		P L	C1
	Debris on road – mud and dust tracking from the operational area.	H & S Issues	N	Procedures.	P L	A1
			A		P L	B1
			E		P L	B3
	Contamination of Land		A	Housekeeping and monitoring.	P L	A1
			E		P L	B2
	Emissions to water		A	Monitoring.	P L	A1
			E		P L	A3

Table 3 – Inert Waste Landfills

Activity and Location	Environmental Aspect	Environmental Impact from the Activity	Conditions for the Impact to occur N – Normal A – Abnormal E - Emergency	Current Controls	Significance P- Policy L – Legal O - Other	Risk Rating
Operation of the inert waste landfills.  Including:  Waste transfer prior to deposition.  Waste deposition.	Use of Energy  Minor water usage for dust suppression if required.  Emissions particulates – dust from engineering and landfilling activities.  Emissions of Noise – disposal operations, plant operation and vehicle movements.  Debris on road – mud and dust tracking from the operational area.	Noise and Vibration	N	Infrastructure and plant maintenance. Quarry walls.	P L	D1
			A		P L	D1
		Dust/Mud on Highway	N	Housekeeping and visual monitoring.	P L	B1
			A		P L	C1
		Energy Use	N	Monitoring.	P	D1
			A		P	D1
		Water Use	N	Monitoring – Clean surface water used where possible.	P	B1
			A		P	C1
		Non-Hazardous Waste	N	Procedures and monitoring. Re-use of aggregates to create on-site hard standing.	P L	B1
			A		P L	C1
		H & S Issues	N	Procedures.	P L	A1
			A		P L	B1
			E		P L	B3
		Contamination of Land		Housekeeping and monitoring.		
			A		P L	A1
			E		P L	B2
		Emissions to land, air & water		Monitoring.		
			A		P L	A1
			E		P L	A3

Table 4 – Ancillary Activities

Activity Undertaken	Environmental Aspect	Environmental Impact from the Activity	Conditions for the Impact to occur N – Normal A – Abnormal E - Emergency	Current Controls	Significance P- Policy L – Legal O - Other	Risk Rating
Ancillary Activities  Internal transport	Use of Energy	Noise and Vibration	N	Infrastructure and plant maintenance.	PL	D1
			A		P L	D1
	Production of Wastes					
	Emissions of particulates	Dust/Mud on Highway	N	Housekeeping and monitoring.	P L	B1
			A		P L	C1
		Resources	N	Procedures and monitoring.	P	C1
			A		P	B1
		Non-Hazardous Waste	N	Procedures and monitoring.	PL	D1
			A		PL	C1
		H & S Issues	N	Procedures.	P L	A1
			A		P L	B1
			E		P L	B2
		Contamination of Land		House keeping and monitoring.		
			A		P L	A1
			E		P L	B2
		Climate Change	N	Monitoring.	P L	D1
			A		P L	C2
			E		P L	B2



**Table 5 – Storage of Fuels and Lubricants**

Activity Undertaken	Environmental Aspect	Environmental Impact from the Activity	Conditions for the Impact to occur N – Normal A – Abnormal E - Emergency	Current Controls	Significance P- Policy L – Legal O - Other	Risk Rating
Storage  Fuel and lubricants.	Spillage Risk	Hazardous Waste	N	Procedures and monitoring. Secure storage maintained away from Permitted area.	P L	A2
			A		P L	B2
			E		P L	C3
		Fire	N	Procedures and monitoring. Secure storage maintained away from Permitted area.	P	A1
			A		P	B2
			E			B4
		H & S Issues	N	Procedures. Secure storage maintained away from Permitted area.	P L	A1
			A		P L	B1
			E		P L	B2
		Contamination of Land		Housekeeping and monitoring. Secure storage maintained away from Permitted area.		
			A		P L	B1
			E		P L	B2
		Non-Hazardous Waste	N	Procedures and monitoring. Secure storage maintained away from Permitted area.	P L	A1
			A		P L	A2
			E		P L	A3

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**Significant Aspects:**

The following environmental aspects are identified as being significant. These are rated as having the highest likelihood of occurrence and highest severity of consequence:

- Table 6 - Dust emissions from the soils screening process and general vehicle movements;
- Table 7 - Noise from plant operation including the soil treatment facility;
- Table 8 - Mud and debris tracking from the site;
- Table 9 - Fuel spills.

Each of the above is considered in the following Environmental Impacts and Controls Tables.

Table 6 – Dust Emissions

Activity	Potential Impact	Controlled by equipment?	Is equipment included on the maintenance check list	Is the impact controlled by procedure?	Has the person using the procedure received training?	Comments
Vehicle movements on site	Dust	Water suppression	Yes	Yes	Yes	Procedure for limiting vehicle speed. Water tanker/bowzer maintained.
Screening	Dust	Water suppression	Yes	Yes	Yes	Procedure for monitoring dust.
Stockpiles	Windblown Dust	N/A	N/A	Yes	Yes	Stockpiles to be appropriately located and wetted when necessary.
Landfilling	Windblown Dust	Water suppression	Yes	Yes	Yes	Procedure for monitoring dust.

Table 7 - Noise

Activity	Potential Impact	Controlled by equipment?	Is equipment included on the maintenance check list	Is the impact controlled by procedure?	Has the person using the procedure received training?	Comments
Vehicle movements on site – reversing alarms	Noise Nuisance	No	N/A	Yes	Yes	Procedure for limiting vehicle speed. Road surfaces maintained.
Screening	Noise Nuisance	No	N/A	Yes	Yes	Appropriately Screened.
Plant Operation	Noise Nuisance	No	N/A	Yes	Yes	Appropriately Screened.

Table 8 – Mud

Activity	Potential Impact	Controlled by equipment?	Is equipment included on the maintenance check list	Is the impact controlled by procedure?	Has the person using the procedure received training?	Comments
Vehicle movements on site	Mud on Highway	Yes	Yes	Yes	Yes	Action plan for road sweeper.

Table 9 - Spills

Activity	Potential Impact	Controlled by equipment?	Is equipment included on the maintenance check list	Is the impact controlled by procedure?	Has the person using the procedure received training?	Comments
Fuel Spill	Contamination of groundwater and surface water	Yes	Yes	Yes	Yes	Maintenance and spill procedure in EMS. Fuels stored off site at secure premises.

**APPENDIX D**  
**MAINTENANCE CHECKLIST / RECORD**

## Maintenance checklist

Item requiring maintenance	How often? Every: (tick the appropriate box)							Where are maintenance instructions?	Who is responsible?
	Day	Week	Month	Quarterly	Year	2 years	5 years		
Clean up spills on surfaced areas		✓							
Check state of fences and gates – (to avoid vandals or children getting in and, for example, letting liquids out of a tank).		✓							
Visually check the un-surfaced areas to ensure that there are no spills. Clean up if necessary.		✓							
Check highway for mud and debris		✓							
Check effective operation of dust suppression equipment.		✓							
Landfill leachate chambers				✓					
Perimeter boreholes				✓					
Landfill gas probes				✓					



**Weekly Maintenance Record**

<b>Items:</b> <b>Oil Separator / Drains / Spills / Fences / Surfaces / Highway / Dust Suppression Equipment</b>		
<i>Completed on</i>	<i>Completed by</i>	<i>Comments</i>

**APPENDIX E**  
**COMPLAINTS FORMS**

### Complaints Record

<b>Who made the complaint?</b>	<b>Name:</b>	
<b>Address</b>		
<b>Phone No</b>		
<b>Date and time they made the complaint</b>		
<b>What happened, what was it about?</b>		
<b>Was anyone else aware of this – other neighbours or your staff? If so who?</b>		
<b>Assuming the complaint relates to your site, what was the problem, what went wrong? If you can't find the source of the problem you should contact a suitably qualified person to do so and record who they were and what the problem was.</b>		
<b>What have you done to make sure that it does not happen again?</b>		
<b>Was there any significant pollution – for example: excessive odour which can be smelt off site or spillage of untreated sewage onto the ground into a drain or a watercourse? If so NRW must be informed.</b>		
<b>If there was then you must notify the NRW on 0300 065 3000 ASAP. Have you done so?</b>	<b>Yes/No/not applicable At what time did you phone?</b>	
<b>You must also write or send an email to confirm this to the local office (see your accident management plan for the address). Have you done so?</b>	<b>Yes/No/not applicable Time: Date: EA incident number:</b>	
<b>Please print your name and sign:</b>		

**APPENDIX F**

**ACCIDENT / INCIDENT PLAN / RECORD**

### Accident/Incident plan

Possible Accident / Incident	What would the environment harm be?	How do we reduce the chances of it happening?	What to do if it happens
Spillages			
Spillage during transfer and treatment of wastes.	Contamination of land, drains, groundwater and watercourses.	Inspect and validate all incoming wastes.	Follow the spill response procedure.  Section 5.3 of the EMS
Spillage during delivery of oil or fuel.		Train the staff	
Spillages during refuelling of plant and equipment.		Supervise fuel deliveries. Use drip trays and spill materials.	
Spillage on tipping face		Plant and equipment will be refuelled in designated areas at Woodcote Farm with impervious surface and will use drip trays and spill materials.	
Overfilling			
Overfilling of oil / fuel tanks during delivery.	Contamination of land, drains, groundwater and watercourses.	Stock level control checks, supervised delivery.	Spill response Section 5.3 of the EMS
Failure of Plant or Equipment			
Leakages; due to faulty pipe work, valves, over-pressure, blockages, corrosion, severe weather, ground movement and so on.	Contamination of land, drains, groundwater and watercourses.	Daily visual inspection and completion of weekly inspection checklist record. Preventative maintenance regime.	Spill response Section 5.3 of the EMS
Puncture; of vessels and tanks etc. due to impacts.		Tanks and vessels located on secondary containment facilities away from the Permitted area.	
Fire			
Fire	Smoke and pollution, Firewater causes contamination of land, groundwater and watercourses.	Smoking only in designated areas.  Maintain tidy site and minimise stockpile of combustible materials. Fire training and emergency drills.	Fire response procedures Section 5.3 of the EMS
Failure of Services			
Due to failure of supply; water, electricity, gas supply and of sewerage system. Due to utility supply being struck and broken / cut.	Flooding, explosion with subsequent contamination of land, drains, groundwater and watercourses.	Provision of standby facilities. Maintenance of up to date plans showing location of utility services. Procedure for contractors to work on site including induction training and permit to work.	Back-up generator will be obtained if necessary. Although no critical pollution prevention control equipment is reliant on power. Procedures identified in Section 5.3 of the EMS.

Possible Accident / Incident	What would the environment harm be?	How do we reduce the chances of it happening?	What to do if it happens
<b>Vandalism</b>			
Unauthorised entry and tampering or malicious damage to property, plant, monitoring infrastructure and equipment.	Contamination of land, drains, groundwater and watercourses.	Secure gate and perimeter fence. Site locked when un-manned, tanks and valves locked when not in use out of hours. Plant and equipment locked in secure storage out of hours. Security system installed including camera and recording facilities.	Spill response Section 5.3 of EMS.

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**Accident and Incident Record**

Date and time of the incident	
What happened, what was it about?	
Was anyone else aware of this – other witnesses? If so who?	
What caused it?	
What action did you take to fix the problem? Were external agencies involved?	
What have you done to make sure that it does not happen again?	
Was there any significant pollution – for example: oil entering a surface water drain. If so what?	
If there was then you must notify NRW on 0300 065 3000 ASAP. Have you done so?	Yes/No/not applicable Time: Date: E.A Incident number:
Please print your name and sign	

**APPENDIX G**  
**NON-CONFORMANCES**



**Record of Non-Conformances**

Date and time non-conformance identified	
What happened, what was it about and what permit condition does it relate to?	
What caused it?	
What have you done to make sure that it does not happen again?	
Have you reviewed the EMS and rolled out any changes to operations and procedures? Include dates.	
Was there any significant pollution – e.g.: oil entering a surface water drain. If so what?	
If there was then you must notify NRW on 0300 065 3000 ASAP. Have you done so?	Yes/No/not applicable Time: Date: E.A. Incident number:
Please print your name and sign	

**APPENDIX H**  
**STAFF TRAINING**

**Staff Responsibilities**

<b>Name</b>	<b>Role</b>	<b>Part of permit responsible for</b>	<b>Any other legislative responsibilities</b>	<b>Required training received?</b>

## Training checklist

JOB	TRAINING REQUIRED (tick boxes to show who needs which training)															COMMENTS		
	Environmental awareness							Maintenance/operations					Accidents and emergency					
	Certificate of Technical Competence	Supervision of waste management sites	Environmental and permit awareness	Waste receipt inc Duty of Care	Waste treatment and storage	Awareness of local sensitive sites for example sites of special scientific interest		Maintenance of mobile plant	Maintenance of static plant					Fire procedure	Spill response procedure		Failure of services	
Site Manager	✓	✓	✓											✓	✓	✓		
Site Supervisor		✓	✓	✓	✓	✓		✓	✓					✓	✓	✓		
Site Operatives			✓	✓	✓	✓		✓	✓					✓	✓	✓		
Office Assistant			✓	✓		✓								✓				

Training Record

Employee Name		Job Title				
Training Required	Date due	Date done	Passed as competent? yes/no	Reviewers Signature	Date for Refresher	Comments

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**Delegation of Responsibilities**

<b>Name of employee to be absent</b>	
<b>Job title/role to be filled during absence</b>	
<b>Department</b>	
<b>Absence type e.g. maternity leave.</b>	
<b>Name of employee covering absences role</b>	
<b>Parts of permit employee is responsible for</b>	
<b>Any other responsibilities the employee will be covering.</b>	
<b>Length of time cover will be for.</b>	
<b>Any training required to enable employee to cover the role effectively and competently.</b>	

**APPENDIX I**

**LEGAL AND OTHER REQUIREMENTS REGISTER**

## **LEGAL AND OTHER REQUIREMENTS REGISTER**

### **Introduction**

This register relates to the waste activities of Clive Hurt (Plant Hire) Limited at the two adjacent sites, Nant Newydd and Ruddlan Bach Quarries, Brynteg, Anglesey. However, reference has been made to other activities on site where management procedures are common.

The activities undertaken on site as follows:

- Inert waste landfill site (Rhuddlan Bach Quarry)
- Waste transfer station with treatment to produce soil, soil substitutes and aggregate (Nant Newydd Quarry); and
- Inert waste landfill (Nant Newydd Quarry).



**Section 1 – Legal Register**

**Table 1.1 - General Issue – EMS**

<b>Comments</b>	<b>Primary Legislation</b>	<b>Secondary Legislation</b>	<b>Issues / Notes</b>	<b>Responsibility</b>	<b>Frequency of Update</b>
This register forms part of the Environmental Management System for the facility's operation as a whole.	The three respective environmental permits for the activities undertaken on the sites require via Permit Condition 1.1 the implementation of an appropriate management system.	N/A	An awareness of environmental legislative obligation is a requirement of an EMS and a legal register often forms part of the associated documentation.	Site Manager	The legal register should be updated when relevant legislation changes.

**Table 1.2 - General Issue – Civil Sanctions**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update
<p>Civic sanctions can be applied to a variety of offences detailed in the legislation below:</p> <p>The Sludge (Use in Agriculture) Regulations 1989</p> <p>The Control of Pollution (Oil Storage) (England) Regulations 2001</p> <p>The Hazardous Waste (England and Wales) Regulations 2005 as amended</p> <p>The Environmental Impact Assessment (Agriculture) (England) (No. 2) Regulations 2006</p> <p>The Producer Responsibility Obligations (Packaging Waste) Regulations 2010 as amended</p> <p>The Transfrontier Shipment of Waste Regulations 2007 as amended</p> <p>The Nitrate Pollution Prevention Regulations 2015</p> <p>The Plant Protection Products Regulations 2011</p> <p>The Ozone Depleting Substances Regulations 2015</p>	<p>Regulatory Enforcement and Sanctions Act 2008<sup>1</sup></p> <p>Water Resources Act 1991<sup>2</sup></p> <p>Environment Act 1995<sup>3</sup></p> <p>European Communities Act 1972<sup>4</sup></p>	<p>The Environmental Civil Sanctions (England) Order 2010<sup>5</sup></p> <p>The Environmental Civil Sanctions (Miscellaneous Amendments) (England) Regulations 2010<sup>6</sup> as amended by The Nitrate Pollution Prevention Regulations 2015, which revokes regulation 10 concerning nitrate pollution).</p>	<p>Where relevant to the operations on site the legislation is discussed in greater detail in subsequent sections and appropriate references are provided where applicable.</p>	<p>Site Manager</p>	<p>N/A</p>

<sup>1</sup> <http://www.hse.gov.uk/moltenmetals/guidance.htm>

<sup>2</sup> <http://www.legislation.gov.uk/ukpga/1991/57/contents>

<sup>3</sup> <http://www.legislation.gov.uk/ukpga/1995/25/contents>

<sup>4</sup> <http://www.legislation.gov.uk/ukpga/1972/68/contents>

<sup>5</sup> <http://www.legislation.gov.uk/uksi/2010/1157/contents/made>

<sup>6</sup> <http://www.legislation.gov.uk/uksi/2010/1159/contents/made>

**Table 1.3 - General Issues – Environmental Damage**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update
Environmental Damage Regulations enforces rules to prevent and repair damage to species and their habitats including protected sites, the water environment and the quality of land. Several procedures are established for the remediation of damaged sites, which are undertaken at the operator's expense in the event of the occurrence of damage.	European Communities Act 1972	<p>The Environmental Damage (Prevention and Remediation) (England) Regulations 2015<sup>7</sup></p> <p>The Environmental Damage (Prevention and Remediation) (England) (Amendment) Regulations 2015<sup>8</sup></p>	The polluter does not need to be prosecuted prior to the remediation being required.	Site Manager	N/A

<sup>7</sup> <http://www.legislation.gov.uk/ukxi/2015/810/contents/made>

<sup>8</sup> <http://www.legislation.gov.uk/ukxi/2015/1391/contents/made>

**Table 1.4 – Environmental Permit**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
<p><b>EPR/WP3132SX</b> – inert waste landfill site (Rhuddlan Bach Quarry)</p> <p><b>EPR/AB3095CJ</b> – waste transfer station with treatment to produce soil, soil substitutes and aggregate (Nant Newydd Quarry); and</p> <p><b>RP3337SE</b> – inert waste landfill (Nant Newydd Quarry).</p>	<p>Pollution Prevention and Control Act 1999<sup>9</sup></p> <p>Environmental Protection Act 1990<sup>10</sup></p>	The Environmental Permitting (England and Wales) Regulations 2016	<p>Pre-operational conditions require complying with on the Nant Newydd Permit prior to the commencement of operations.</p> <p>The Nant Newydd permit also contains improvement conditions that require complying with.</p>	Site Manager				

<sup>9</sup> <http://www.legislation.gov.uk/ukpga/1999/24/contents>

<sup>10</sup> <http://www.legislation.gov.uk/ukpga/1990/43/contents>

**Table 1.5 – Energy / Greenhouse Gas Emissions & Ozone Depleting Substances**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
Clive Hurt (Plant Hire) Limited is unlikely to be obligated.	<p>Finance Act 2015<sup>11</sup></p> <p>European Communities Act 1972<sup>12</sup></p> <p>Environmental Protection Act 1990</p> <p>Climate Change Act 2008<sup>13</sup></p> <p>EU Regulations on ozone-depleting substances (consolidation) 2013<sup>14</sup></p>	<p>The Climate Change Levy (General) (amendment) Regulations 2015<sup>15</sup></p> <p>Climate Change Agreements (Energy-Intensive Installations) Regulations 2006<sup>16</sup> - The Climate Change Agreements (Miscellaneous Amendments) Regulations 2006<sup>17</sup></p> <p>Climate Change Agreements (Eligible Facilities) Regulations 2006<sup>18</sup> - The Climate Change Agreements (Eligible Facilities) (Amendment) Regulations 2014<sup>19</sup></p> <p>The Greenhouse Gas Emission Trading Scheme (Amendment) and National Emissions (Amendment) Regulations 2014<sup>20</sup></p>	Check should be made against the qualifying criteria for the CRC Energy Efficiency registration to confirm no obligation.	Site Manager	Annually			

<sup>11</sup> <http://www.legislation.gov.uk/ukpga/2015/11/contents>

<sup>12</sup> [http://www.legislation.gov.uk/ukpga/1972/68/pdfs/ukpga\\_19720068\\_en.pdf](http://www.legislation.gov.uk/ukpga/1972/68/pdfs/ukpga_19720068_en.pdf)

<sup>13</sup> [http://www.legislation.gov.uk/ukpga/2008/27/pdfs/ukpga\\_20080027\\_en.pdf](http://www.legislation.gov.uk/ukpga/2008/27/pdfs/ukpga_20080027_en.pdf)

<sup>14</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:02009R1005-20131125&from=EN>

<sup>15</sup> <http://www.legislation.gov.uk/uksi/2015/947/schedule/1/made>

<sup>16</sup> [http://www.legislation.gov.uk/uksi/2006/59/pdfs/uksi\\_20060059\\_en.pdf](http://www.legislation.gov.uk/uksi/2006/59/pdfs/uksi_20060059_en.pdf)

<sup>17</sup> [http://www.legislation.gov.uk/uksi/2006/1848/pdfs/uksi\\_20061848\\_en.pdf](http://www.legislation.gov.uk/uksi/2006/1848/pdfs/uksi_20061848_en.pdf)

<sup>18</sup> [http://www.legislation.gov.uk/uksi/2006/60/pdfs/uksi\\_20060060\\_en.pdf](http://www.legislation.gov.uk/uksi/2006/60/pdfs/uksi_20060060_en.pdf)

<sup>19</sup> [http://www.legislation.gov.uk/uksi/2014/1318/pdfs/uksi\\_20061931\\_en.pdf](http://www.legislation.gov.uk/uksi/2014/1318/pdfs/uksi_20061931_en.pdf)

<sup>20</sup> [http://www.legislation.gov.uk/uksi/2014/3075/pdfs/uksi\\_20050925\\_en.pdf](http://www.legislation.gov.uk/uksi/2014/3075/pdfs/uksi_20050925_en.pdf)

**Table 1.5 cont. – Energy / Greenhouse Gas Emissions & Ozone Depleting Substances**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
		<p>EU Regulation on Certain Fluorinated Greenhouse Gases 517/2014<sup>21</sup></p> <p>Fluorinated Greenhouse Gas Regulations 2015<sup>22</sup></p> <p>The Ozone-Depleting Substances Regulations 2015<sup>23</sup></p> <p>The Energy Performance of Buildings (England and Wales) (Amendment) Regulations 2015<sup>24</sup></p>						

<sup>21</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1441890555274&uri=CELEX:32014R0517>

<sup>22</sup> <http://www.legislation.gov.uk/ukxi/2015/310/contents/made>

<sup>23</sup> <http://www.legislation.gov.uk/ukxi/2015/168/contents/made>

<sup>24</sup> <http://www.legislation.gov.uk/ukxi/2015/609/regulation/2/made>

**Table 1.6 - Atmospheric Emissions**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
Currently atmospheric emissions on the sites are limited to fugitive emissions from the on-site process and are controlled by the extant Permits and Permissions.	Clean Air Act 1993 <sup>25</sup>  Pollution Prevention and Control Act 1999  Environmental Protection Act 1990	The Environmental Permitting (England and Wales) Regulations 2016 <sup>26</sup>	Best Available Techniques should be used to manage fugitive and other point source emissions.	Site Manager				

<sup>26</sup> <http://www.legislation.gov.uk/ukxi/2016/1154/contents/made>

**Table 1.7 - Water Uses and Discharges**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
Water discharges from the sites are regulated by the extant Environmental Permits.	Water Resources Act 1991 <sup>27</sup>  Water Industry Act 1991 <sup>28</sup>  Water Act 2014 <sup>29</sup>	Anti-Pollution Works Regulations 1999 <sup>30</sup>  Control of Pollution (Applications, Appeals and Registers) Regulations 1996 <sup>31</sup>  Control of Pollution (Oil Storage)(England) Regulations 2001 <sup>32</sup>  Trade Effluent (Prescribed Processes and Substances) Regulations 1989 <sup>33</sup> / Amended 1990 <sup>34</sup> .	Monitoring frequencies, parameters and limits are imposed by the conditions of the respective permits.	Site Manager	Annually			

<sup>27</sup> <http://www.legislation.gov.uk/ukpga/1991/57/contents>

<sup>28</sup> <http://www.legislation.gov.uk/ukpga/1991/56/contents>

<sup>29</sup> <http://www.legislation.gov.uk/ukpga/2014/21/contents>

<sup>30</sup> [http://www.legislation.gov.uk/uksi/1999/1006/pdfs/uksi\\_19991006\\_en.pdf](http://www.legislation.gov.uk/uksi/1999/1006/pdfs/uksi_19991006_en.pdf)

<sup>31</sup> <http://www.legislation.gov.uk/uksi/1996/2971/contents/made>

<sup>32</sup> [http://www.legislation.gov.uk/uksi/2001/2954/pdfs/uksi\\_20012954\\_en.pdf](http://www.legislation.gov.uk/uksi/2001/2954/pdfs/uksi_20012954_en.pdf)

<sup>33</sup> <http://www.legislation.gov.uk/uksi/1989/1156/contents/made>

<sup>34</sup> <http://www.legislation.gov.uk/uksi/1990/1629/contents/made>



**Table 1.7 cont. - Water Uses and Discharges**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
		<p>Water Resources Act 1991 (Amendment) (England and Wales) Regulations 2009<sup>35</sup></p> <p>Water Resources (Environmental Impact Assessment) (England and Wales) Regulations 2003.<sup>36</sup> amended in 2017<sup>37</sup></p> <p>The Water Supply (Water Fittings) Regulations 1999<sup>38</sup> amended in 1999<sup>39</sup></p> <p>The Water Supply Licence (Prescribed Water Fittings Requirements) Regulations 2005<sup>40</sup></p>						

<sup>35</sup> [http://www.legislation.gov.uk/uksi/2009/3104/pdfs/ukxi\\_20093104\\_en.pdf](http://www.legislation.gov.uk/uksi/2009/3104/pdfs/ukxi_20093104_en.pdf)

<sup>36</sup> [http://www.legislation.gov.uk/uksi/2003/164/pdfs/ukxi\\_20030164\\_en.pdf](http://www.legislation.gov.uk/uksi/2003/164/pdfs/ukxi_20030164_en.pdf)

<sup>37</sup> [http://www.legislation.gov.uk/uksi/2017/583/pdfs/ukxi\\_20170583\\_en.pdf](http://www.legislation.gov.uk/uksi/2017/583/pdfs/ukxi_20170583_en.pdf)

<sup>38</sup> <http://www.legislation.gov.uk/uksi/1999/1148/contents/made>

<sup>39</sup> [http://www.legislation.gov.uk/uksi/1999/1506/pdfs/ukxi\\_19991506\\_en.pdf](http://www.legislation.gov.uk/uksi/1999/1506/pdfs/ukxi_19991506_en.pdf)

<sup>40</sup> [http://www.legislation.gov.uk/uksi/2005/3077/pdfs/ukxi\\_20053077\\_en.pdf](http://www.legislation.gov.uk/uksi/2005/3077/pdfs/ukxi_20053077_en.pdf)

**Table 1.8 - Waste Management**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
Clive Hurt (Plant Hire) Limited are registered waste brokers and carriers.	Control of Pollution (Amendment) Act 1989 <sup>41</sup>  Environment Act 1995  Environmental Protection Act 1990  EU Regulation on Shipments of Waste 2006 <sup>42</sup>	The Waste (England and Wales) Regulations 2011 <sup>43</sup>  Hazardous Waste (England and Wales) Regulations 2005 <sup>44</sup> as amended.  Producer Responsibility Obligations (Packaging Waste) (Amendments) Regulations 2014 <sup>45</sup> as amended in 2016 <sup>46</sup>  New Duty of Care Code of Practice published in March 2016 <sup>47</sup>  Waste Management (England and Wales) Regulations 2006 <sup>48</sup>	Duty of Care with regard to the storage and transfer of waste should be observed and appropriate records maintained <sup>49</sup> .	Site Manager	Annually			

<sup>41</sup> [http://www.legislation.gov.uk/ukpga/1989/14/pdfs/ukpga\\_19890014\\_en.pdf](http://www.legislation.gov.uk/ukpga/1989/14/pdfs/ukpga_19890014_en.pdf)

<sup>42</sup> <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1013:EN:NOT>

<sup>43</sup> [http://www.legislation.gov.uk/uksi/2011/988/pdfs/uksi\\_20110988\\_en.pdf](http://www.legislation.gov.uk/uksi/2011/988/pdfs/uksi_20110988_en.pdf)

<sup>44</sup> <http://www.legislation.gov.uk/uksi/2005/894/contents/made>

<sup>45</sup> <http://www.legislation.gov.uk/uksi/2014/2890/contents/made>

<sup>46</sup> <http://www.legislation.gov.uk/uksi/2016/1146/contents/made>

<sup>47</sup> <https://www.gov.uk/government/publications/waste-duty-of-care-code-of-practice>

<sup>48</sup> [http://www.legislation.gov.uk/uksi/2006/937/pdfs/uksi\\_20060937\\_en.pdf](http://www.legislation.gov.uk/uksi/2006/937/pdfs/uksi_20060937_en.pdf)

<sup>49</sup> <http://www.legislation.gov.uk/uksi/2011/988/contents/made>

**Table 1.8 cont. - Waste Management**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
		<p>Transfrontier Shipment of Waste Regulations 2007<sup>50</sup> amended 2008<sup>51</sup>.</p> <p>Waste Batteries and Accumulators Regulations 2009<sup>52</sup></p> <p>The Waste Electrical and Electronic Equipment Regulations 2013<sup>53</sup></p>						

<sup>50</sup> <http://www.legislation.gov.uk/ukxi/2007/1711/contents/made>

<sup>51</sup> <http://www.legislation.gov.uk/ukxi/2008/9/contents/made>

<sup>52</sup> [http://www.legislation.gov.uk/ukxi/2009/890/pdfs/ukxi\\_20090890\\_en.pdf](http://www.legislation.gov.uk/ukxi/2009/890/pdfs/ukxi_20090890_en.pdf)

<sup>53</sup> <http://www.legislation.gov.uk/ukxi/2013/3113/contents/made>

**Table 1.9 - Storage and Handling of Materials**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
The EU regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) requires registration of certain chemicals supplied or produced in excess of 1 tonne per year. This is unlikely to apply to activities on these sites.	<p>EU Regulations on classification, labelling and packaging of substances and mixtures concerning 2008<sup>54</sup>.</p> <p>EU Regulation on Registration, Evaluation and Authorisation of Chemicals 2006 as amended in 2008, 2009, 2010<sup>55</sup> &amp; 2015<sup>56</sup></p>	<p>The Petroleum (Consolidation) Regulations 2014<sup>57</sup></p> <p>Chemicals (Hazard Information and Packaging for Supply) Regulations 2009<sup>58</sup></p> <p>Control of Major Accident Hazards Regulations 2015<sup>59</sup> as amended in 2015<sup>60</sup></p> <p>Control of Substances Hazardous to Health (Amendments) Regulations 2004<sup>61</sup>.</p> <p>REACH Enforcement (Amendment) Regulations 2014<sup>62</sup></p>	Emergency Procedure training has been undertaken.	Site Manager	Annually			

<sup>54</sup> <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF>

<sup>55</sup> <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT>

<sup>56</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32015R0830&qid=1441889676959&from=EN>

<sup>57</sup> <http://www.legislation.gov.uk/ukxi/2014/1637/contents/made>

<sup>58</sup> [http://www.legislation.gov.uk/ukxi/2009/716/pdfs/ukxi\\_20090716\\_en.pdf](http://www.legislation.gov.uk/ukxi/2009/716/pdfs/ukxi_20090716_en.pdf)

<sup>59</sup> [http://www.legislation.gov.uk/ukxi/2015/483/pdfs/ukxi\\_20150483\\_en.pdf](http://www.legislation.gov.uk/ukxi/2015/483/pdfs/ukxi_20150483_en.pdf)

<sup>60</sup> [http://www.legislation.gov.uk/ukxi/2015/1393/pdfs/ukxi\\_20151393\\_en.pdf](http://www.legislation.gov.uk/ukxi/2015/1393/pdfs/ukxi_20151393_en.pdf)

<sup>61</sup> [http://www.legislation.gov.uk/ukxi/2004/3386/pdfs/ukxi\\_20043386\\_en.pdf](http://www.legislation.gov.uk/ukxi/2004/3386/pdfs/ukxi_20043386_en.pdf)

<sup>62</sup> <http://www.legislation.gov.uk/ukxi/2014/2882/contents/made>

**Table 1.10 – Land**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
All activities are defined by the extant Planning Permissions and Environmental Permits	Countryside and Rights of Way Act 2000  Environment Act 1995  Environmental Protection Act 1990  The Town and Country Planning Act 1990 <sup>63</sup>	The Town and Country Planning (Trees) Regulations 1999 <sup>64</sup> amended 2008 <sup>65</sup> , 2008 <sup>66</sup>  The Environmental Permitting (England and Wales) Regulations 2016 <sup>67</sup>	Future development should meet the requirements of the Town and Country Planning Act.	Site Manager	On going			

<sup>63</sup> <http://www.legislation.gov.uk/ukpga/1990/8/contents>

<sup>64</sup> <http://www.legislation.gov.uk/uksi/1999/1892/contents/made>

<sup>65</sup> <http://www.legislation.gov.uk/uksi/2008/2260/contents/made>

<sup>66</sup> <http://www.legislation.gov.uk/uksi/2008/3202/contents/made>

<sup>67</sup> <http://www.legislation.gov.uk/uksi/2016/1154/contents/made>

**Table 1.11 - Ecological Issues**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
The sites are located within close proximity to two statutory protected habitat areas: Cors Erddreiniog SSSI (SAC and Ramsar Site) and Cors Goch Nature Reserve SSSI (SAC and Ramsar).	<p>Environment Act 1995</p> <p>Countryside and Rights of Way Act 2000<sup>68</sup></p> <p>Natural Environment and Rural Communities Act 2006<sup>69</sup></p> <p>Protection of Badgers Act 1992<sup>70</sup></p> <p>Wildlife and Countryside Act 1981<sup>71</sup> amended 1991<sup>72</sup></p>	<p>Wildlife and Countryside Act 1981 (England and Wales) (Amendment) Regulations 2004<sup>73</sup> as amended in 2016<sup>74</sup></p> <p>Conservation (Natural Habitats etc) (Amendment) Regulations 2007<sup>75</sup></p> <p>Conservation of Habitats and Species Regulations 2010<sup>76</sup> amended 2012<sup>77</sup></p> <p>The Plant Protection Products Regulations 2001<sup>78</sup></p> <p>The Plant Protection Products (Sustainable Use) Regulations 2012<sup>79</sup></p>	The potential impacts of the permitted operations on the protected sites have been considered during the respective permit determination process. The permits consequently contain a number of measures to control emissions.	Site Manager	On going			

<sup>68</sup> [http://www.legislation.gov.uk/ukpga/2000/37/pdfs/ukpga\\_20000037\\_en.pdf](http://www.legislation.gov.uk/ukpga/2000/37/pdfs/ukpga_20000037_en.pdf)

<sup>69</sup> [http://www.legislation.gov.uk/ukpga/2006/16/pdfs/ukpga\\_20060016\\_en.pdf](http://www.legislation.gov.uk/ukpga/2006/16/pdfs/ukpga_20060016_en.pdf)

<sup>70</sup> [http://www.legislation.gov.uk/ukpga/1992/51/pdfs/ukpga\\_19920051\\_en.pdf](http://www.legislation.gov.uk/ukpga/1992/51/pdfs/ukpga_19920051_en.pdf)

<sup>71</sup> [http://www.legislation.gov.uk/ukpga/1981/69/pdfs/ukpga\\_19810069\\_en.pdf](http://www.legislation.gov.uk/ukpga/1981/69/pdfs/ukpga_19810069_en.pdf)

<sup>72</sup> <http://www.legislation.gov.uk/ukpga/1991/39/contents>

<sup>73</sup> [http://www.legislation.gov.uk/uksi/2004/1487/pdfs/uksi\\_20041487\\_en.pdf](http://www.legislation.gov.uk/uksi/2004/1487/pdfs/uksi_20041487_en.pdf)

<sup>74</sup> [http://www.legislation.gov.uk/uksi/2016/127/pdfs/uksi\\_20160127\\_en.pdf](http://www.legislation.gov.uk/uksi/2016/127/pdfs/uksi_20160127_en.pdf)

<sup>75</sup> [http://www.legislation.gov.uk/uksi/2007/1843/pdfs/uksi\\_20071843\\_en.pdf](http://www.legislation.gov.uk/uksi/2007/1843/pdfs/uksi_20071843_en.pdf)

<sup>76</sup> [http://www.legislation.gov.uk/uksi/2010/490/pdfs/uksi\\_20100490\\_en.pdf](http://www.legislation.gov.uk/uksi/2010/490/pdfs/uksi_20100490_en.pdf)

<sup>77</sup> <http://www.legislation.gov.uk/uksi/2012/1927/contents/made>

<sup>78</sup> <http://www.legislation.gov.uk/uksi/2011/2131/contents/made>

**Table 1.12 – Statutory Nuisance**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
Emissions from the permitted waste operations are controlled by the appropriate Permits.	Pollution Prevention and Control Act 1999  Anti-social Behaviour Act 2003 <sup>80</sup>  Clean Neighbourhoods and Environment Act 2005 <sup>81</sup>  Environment Protection Act 1990  Noise and Statutory Nuisance Act 1993 <sup>82</sup>	The Environmental Permitting (England and Wales) Regulations 2016  The Statutory Nuisance (Appeals) Regulations 1995 <sup>83</sup> amended 2006 <sup>84</sup>	A complaints log is maintained for the sites.	Site Manager	Updated as required / reviewed annually			

<sup>79</sup> <http://www.legislation.gov.uk/ukxi/2012/1657/contents/made>

<sup>80</sup> [http://www.legislation.gov.uk/ukpga/2003/38/pdfs/ukpga\\_20030038\\_en.pdf](http://www.legislation.gov.uk/ukpga/2003/38/pdfs/ukpga_20030038_en.pdf)

<sup>81</sup> [http://www.legislation.gov.uk/ukpga/2005/16/pdfs/ukpga\\_20050016\\_en.pdf](http://www.legislation.gov.uk/ukpga/2005/16/pdfs/ukpga_20050016_en.pdf)

<sup>82</sup> <http://www.legislation.gov.uk/ukpga/1993/40/contents>

<sup>83</sup> <http://www.legislation.gov.uk/ukxi/1995/2644/contents/made>

<sup>84</sup> [http://www.legislation.gov.uk/ukxi/2006/771/pdfs/ukxi\\_20060771\\_en.pdf](http://www.legislation.gov.uk/ukxi/2006/771/pdfs/ukxi_20060771_en.pdf)

**Table 1.13 – Health and Safety**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
Operations within the quarries should be undertaken with due regard to Quarries Regulations 1999 approved code of Practice.	Health and Safety at Work etc Act 1974	<p>The Control of Noise at Works Regulations 2005<sup>85</sup></p> <p>Control of Substances Hazardous to Health Regulations 2002 amended 2003 and 2004.</p> <p>The Control of Vibration at Work Regulations 2005.<sup>86</sup></p> <p>The Management of Health and Safety at Work and Fire Precautions (Workplace) (Amendment) Regulations 2003<sup>87</sup></p>	The Quarries Approved Code of Practice should be consulted.	Site Manager	Every two years			

<sup>85</sup> <http://www.legislation.gov.uk/uksi/2005/1643/contents/made>

<sup>86</sup> <http://www.legislation.gov.uk/uksi/2005/1093/contents/made>

<sup>87</sup> <http://www.legislation.gov.uk/uksi/2003/2457/made>



**Table 1.13 cont. – Health and Safety**

Comments	Primary Legislation	Secondary Legislation	Issues / Notes	Responsibility	Frequency of Update	Audit Date	Auditor	Conformance Y/N (NC report ref.)
		<p>The Management of Health and Safety Regulations 1999<sup>88</sup> amended 2006<sup>89</sup></p> <p>Work at Height Regulations 2005<sup>90</sup> amended 2007<sup>91</sup></p> <p>Personal Protective Equipment Regulations 2002<sup>92</sup></p> <p>Workplace (Health and Safety and Welfare) Regulations 1992<sup>93</sup></p> <p>Health and Safety at Quarries. The Quarries Regulations 1999 approved code of Practice<sup>94</sup></p>						

<sup>88</sup> <http://www.legislation.gov.uk/ukxi/1999/3242/contents/made>

<sup>89</sup> <http://www.legislation.gov.uk/ukxi/2006/438/contents/made>

<sup>90</sup> <http://www.legislation.gov.uk/ukxi/2005/735/contents/made>

<sup>91</sup> <http://www.legislation.gov.uk/ukxi/2007/114/contents/made>

<sup>92</sup> <http://www.legislation.gov.uk/ukxi/2002/1144/made>

<sup>93</sup> <http://www.legislation.gov.uk/ukxi/1992/3004/contents/made>

<sup>94</sup> <http://www.hse.gov.uk/pubns/books/1118.htm>

# Notice of transfer of whole with introductory note

Environmental Permitting (England & Wales) Regulations 2007

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Rhuddlan Bach Quarry Landfill Site

Clive Hurt (Plant Hire) Ltd  
Rhuddlan Bach Quarry Landfill Site  
Brynteg  
Anglesey  
LL78 7JJ

Transfer notice number  
EPR/FP3590LV/T001

Permit number  
EPR/FP3590LV

# Rhuddlan Bach Quarry Landfill Site

## Permit number EPR/FP3590LV

### Introductory note

***This introductory note does not form a part of the permit***

The following notice is issued in accordance with regulation 21 and Part 1 of Schedule 5 of The Environmental Permitting (England and Wales) Regulations 2007 (S.I.2007 No. 3538 ) (the Regulations) to transfer a permit issued under the Regulations to operate the regulated facility.

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

Status Log of the permit		
Detail	Date	Response Date
Licence Issued to C and M Parry Plant Hire Ltd EAWML 37203.	21/09/1999	
Modification to become a IPPC Permit WP3132SX.	16/03/2007	
Application EPR/FP3590LV/T001 (Full transfer of permit WP3132SX)	Duly made 13/01/2010	
Transfer determined EPR/FP3590LV	01/02/2010	

End of Introductory Note

## Transfer of whole permit

Environmental Permitting (England and Wales) Regulations 2007

# Transfer notice

Permit number

**EPR/FP3590LV**

Transfer notice number

**EPR/FP3590LV/T001**

Operator

***Clive Hurt (Plant Hire) Ltd***

Registered office address

***Sandham House***

***Redrose Drive***

***Lancashire Business Park***

***Leyland***

***Lancashire***

***PR26 6TJ***

Company registration number/Limited Liability Partnership 01853066

Regulated Facility

***Rhuddlan Bach Quarry Landfill Site***

***Brynteg***

***Anglesey***

***LL78 7JJ***

The Environment Agency in exercise of its powers under Regulation 21 and Part 1 of Schedule 5 of the Environmental Permitting (England and Wales) Regulations 2007 (SI 2007 No 3538) accepts the transfer of this permit.

This notice shall take effect from 01/02/2010

Name	Date
<i>Mana Gibbons</i>	1 February 2010

Authorised on behalf of the Environment Agency

**Schedule 1 – conditions to be deleted**

The following conditions are deleted

Condition 1.3.1

**Schedule 2 – conditions to be amended**

None

**Schedule 3 – conditions to be added**

The following conditions are added to the permit

1.3.1

The financial provision for meeting the obligations under this permit set out in the agreement made between the operator and the Agency dated 1<sup>st</sup> February 1010 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 Agency.

**Schedule 4 – amended plan**

None



ENVIRONMENT  
AGENCY

## Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

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Rhuddlan Bach Quarry Landfill Site

C & M Parry Plant Hire Limited  
Rhuddlan Bach Quarry Landfill Site  
Brynteg  
Anglesey  
LL78 7JJ

Permit number

WP3132SX

# Rhuddlan Bach Quarry Landfill Site

## Permit Number WP3132SX

### Introductory note

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

The main features of the installation are as follows.

Rhuddlan Bach Landfill Site is an inert landfill situated to the south of Brynteg, Anglesey, North Wales.

The installation is within 110m of Anglesey Fens SAC.

The landfill is in an operational limestone quarry. In addition to the quarrying and landfill activities there is also a materials recycling operation within the installation boundary. This operation is subject to a Local Air Pollution Prevention and Control (LAPPC) Permit issued by the Local Authority and a number of exemptions from the requirements of Waste Management Licensing registered by the Environment Agency. Both of these permissions will continue in force following the issue of this Permit. This Permit relates to the landfill operation only.

The site will be permitted to accept 75,000 tonnes of inert waste per year.

The landfill operation can be separated into wastes previously deposited under the waste management licence and future wastes to be deposited under the PPC Permit.

The wastes that have been previously deposited were placed directly onto the base of the quarry. The potential impacts from these wastes have been assessed in the application and permit conditions have been imposed where necessary.

Future deposits of waste will have to comply with the requirements of the Landfill Regulations 2002 (as amended). The main requirements that apply at this site are the stricter inert waste acceptance criteria and the establishment of a geological barrier (e.g. clay) between the waste and the limestone bedrock.

Landfill gas, groundwater and surface water monitoring requirements are included in permit conditions. Limits have been placed on any emissions where appropriate.

#### **Status log of the permit**

Detail	Date	Response Date
Application WP3132SX	Dated 9 <sup>th</sup> November 2006	
Response to Schedule 4 Notice	Request dated 6 <sup>th</sup> April 2006	Response dated 13 <sup>th</sup> July 2006
Request to extend determination	Request dated 24 <sup>th</sup> July 2006	Request accepted 1 <sup>st</sup> September 2006
Response to request for information	Request dated 16 <sup>th</sup> August 2006	Response dated 30 <sup>th</sup> August 2006
Permit determined	16 <sup>th</sup> March 2007	

#### **Other PPC permits relating to this installation**

Operator	Permit Number	Date of Issue
C & M Parry LAPPC Permit	IACC:26.03.93/3.5	30 <sup>th</sup> March 2004

Superseded or partially superseded licences/authorisations/consents relating to this installation			
Holder	Reference Number	Date of Issue	Fully or Partially Superseded
C & M Parry Plant Hire Limited	Waste Management Licence - EAWML/37203	21 <sup>st</sup> September 1999	Fully Superseded
C & M Parry Plant Hire Limited	Consent to Discharge to Controlled Waters - Cg038400101	9 <sup>th</sup> March 2000	Fully Superseded

End of Introductory Note



## Permit

Pollution Prevention and Control (England and Wales) Regulations 2000  
Landfill (England and Wales) Regulations 2002

## Permit

Permit number

**WP3132SX**

The Environment Agency (the Agency) in exercise of its powers under regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) and Regulation 6 of the Landfill (England and Wales) Regulations 2002 (SI 2002 No.1559) hereby authorises **C & M Parry Plant Hire Limited** ("the Operator"),

whose Registered Office is

**Carreg Fawr  
Treaddur Bay  
Holyhead  
Anglesey  
LL65 2YL**

**Company registration number 01808725**


to operate an installation at

**Rhuddlan Bach Quarry Landfill Site  
Brynteg  
Anglesey  
LL78 7JJ**

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

Signed

Date

	16 <sup>th</sup> March 2007
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**Martin Jenkins**

Authorised to sign on behalf of the Agency

# Conditions

## 1. Management

### 1.1 General management

- 1.1.1 The Activities shall be managed and operated:
- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the operator as a result of complaints; and
  - (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the Activities.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

### 1.2 Accidents that may cause pollution

- 1.2.1 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 Finance

- 1.3.1 The financial provision for meeting the obligations under this permit set out in the agreement made between the operator and the Agency dated 16<sup>th</sup> March 2007 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 Agency.
- 1.3.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover the cost of operating the landfill, as far as possible the cost of the financial provision required by condition 1.3.1 and the estimated costs for the closure and aftercare of the landfill.

### 1.4 Site security

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

## **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”).

### **2.2 The site**

- 2.2.1 The Activities shall not extend beyond the Site, being the land shown edged in red on the site plan at schedule 2 to this permit.

### **2.3 Operating techniques**

- 2.3.1 The Activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1 table S1.2, unless otherwise agreed in writing by the Agency.

### **2.4 Off-site conditions**

There are no conditions in this permit to which Regulation 12(12) of the PPC Regulations apply.

### **2.5 Improvement programme**

- 2.5.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Agency.
- 2.5.2 Except in the case of an improvement which consists only of a submission to the Agency, the operator shall notify the Agency within 14 days of completion of each improvement.

### **2.6 Pre-operational conditions**

There are no pre-operational conditions in this permit.

### **2.7 Engineering**

- 2.7.1 No construction of any new cell shall commence until the operator has submitted construction proposals and the Agency has confirmed that it is satisfied with the construction proposals.
- 2.7.2 The construction of a new 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 Agency.
- 2.7.3 No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and the Agency has confirmed that it is satisfied with the CQA Validation Report.

- 2.7.4 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 Agency has confirmed that it is satisfied with the construction proposals.
- 2.7.5 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 Agency.
- 2.7.6 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant Landfill Infrastructure.
- 2.7.7 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.7.4 and 2.7.5 do not apply and the relevant Landfill Infrastructure may be constructed, provided that the construction proposals are submitted to the Agency as soon as practicable.
- 2.7.8 For the purposes of conditions 2.7.1, 2.7.3 and 2.7.4, the Agency shall be deemed to be satisfied where it 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 it is satisfied; or
  - (b) informed the operator that it 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 inert waste, and
  - (c) from 30<sup>th</sup> October 2007 they are not liquid waste (including waste waters but excluding sludge), and
  - (d) all the relevant waste acceptance procedures set out in schedule 1 of the Landfill Regulations have been completed, and
  - (e) they fulfil the relevant waste acceptance criteria, and
  - (f) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
  - (g) from 30<sup>th</sup> October 2007 they are wastes which have been treated, except for wastes for which treatment is not technically feasible.
- 2.8.5 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.

- 2.8.6 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.
- 2.8.7 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.8.8 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing ES1580.ESID.006(2528/04).
- 2.8.9 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.4.
- 2.8.10 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 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.

## **2.9 Closure, aftercare and decommissioning**

- 2.9.1 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.

# **3. Emissions and monitoring**

## **3.1 Emissions to water, air or land**

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 4 table S4.1.

## **3.2 Emissions to groundwater**

- 3.2.1 There shall be no emission from the activities into groundwater of any substance in List I (as defined by the Groundwater Regulations) contrary to those Regulations.
- 3.2.2 There shall be no emission from the activities into groundwater of any substance in List II (as defined in the Groundwater Regulations) so as to cause pollution (as defined in those Regulations).
- 3.2.3 The trigger levels for emissions into groundwater for the parameter(s) and monitoring point(s) set out in schedule 4 table S4.2 of shall not be exceeded.
- 3.2.4 The operator shall submit to the Agency a review of the Hydrogeological Risk Assessment:
  - (a) between 9 and 6 months prior to the fourth anniversary of the granting of the permit, and
  - (b) between 9 and 6 months prior to every subsequent 4 years after the fourth anniversary of the granting of the permit.

### **3.3 Fugitive emissions of substances**

- 3.3.1 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.
- 3.3.2 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.
- 3.3.3 Litter or mud arising from the activities shall be cleared from affected areas outside the Site as soon as practicable.
- 3.3.4 All liquids, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.
- 3.3.5 The limits for landfill gas arising from the installation set out in schedule 4, table S4.3, shall not be exceeded.

### **3.4 Odour**

- 3.4.1 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 Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the odour.

### **3.5 Noise and vibration**

- 3.5.1 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 Agency, unless the operator has used appropriate to prevent or where that is not practicable to minimise the noise and vibration.

### **3.6 Monitoring**

- 3.6.1 The operator shall, unless otherwise agreed in writing by the Agency, undertake the monitoring for the parameters, specified in the following tables in schedule 4 to this permit:
  - (a) Point source emissions specified in table S4.1;
  - (b) Groundwater specified in tables S4.2 and S4.6;
  - (c) Landfill gas specified in tables S4.3 and, S4.4;
  - (d) Surface water specified in table S4.5.

- 3.6.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.6.3 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 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.

## **3.7 Transfers off-site**

- 3.7.1 Records of all the wastes sent off site from the activities, for either disposal or recovery, shall be maintained.

# **4. Information**

## **4.1 Records**

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
  - (b) be made as soon as reasonably practicable;
  - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
  - (d) be retained, unless otherwise agreed in writing by the Agency, 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) sub-surface landfill gas monitoring;
    - (iii) waste types and quantities; and
    - (iv) the specification and as built drawings of the basal, sidewall and capping engineering systems.
- 4.1.2. Any records required to be made by this permit shall be supplied to the Agency within 14 days where the records have been requested in writing by the Agency.
- 4.1.3. All records required to be held by this permit shall be available for inspection by the Agency at any reasonable time.

## 4.2 Reporting

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

- (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this installation and any agreed amendments thereto;
- (b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
- (c) the annual production/treatment set out in schedule 5 table S5.2.
- (d) details of any contamination or decontamination of the site which has occurred;
- (e) the topographical surveys required by condition 3.6.3 other than those submitted as part of a CQA validation report;
- (f) the volumetric difference (reported in cubic metres) 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;
- (g) an assessment of the settlement behavior of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
- (h) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
- (i) a summary of the WAC compliance testing undertaken in the period;

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

- (a) in respect of the parameters and emission points specified in schedule 5 table S5.1;
- (b) for the reporting periods specified in schedule 5 table S5.1 and using the forms specified in schedule 5 table S5.3; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.3 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 Agency within one month of the end of the quarter and shall be in the format required by the Agency.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, 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.

4.2.5 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency



## 4.3 Notifications

- 4.3.1 The Agency 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) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 6 to this permit within the time period specified in that schedule.
- 4.3.3. Prior written notification shall be given to the Agency 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.
- 4.3.4 Where the Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Agency when the relevant monitoring is to take place. The operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.5 The Agency 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.
- 4.3.6 The Agency 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 Agency), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.
- 4.3.7 The Agency 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.
- 4.3.8 The Agency 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.

## **4.4 Interpretation**

- 4.4.1 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(1) (b), The disposal of waste in a landfill.	Landfill for inert waste (landfill classification under the Landfill Regulations 2002).	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in section 2.8, as an integral part of landfilling.
<b>Directly Associated Activity</b>		
Water discharges to controlled waters.	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 and equipment.	Fuel storage tank.

**Table S1.2 Operating techniques**

Description	Parts	Date
Application	The response to questions 2.1, 2.2, 2.3, 2.4, 2.5 and 2.11 of the Application excluding sections: B2.2.4, B2.2.5, B2.2.38, B2.2.42, B2.2.48, B2.2.54, B2.2.56 (in relation to monitoring only) and B2.5.1 (in relation to the first layer of waste only).	9 <sup>th</sup> November 2005
Schedule 4 Notice dated 6 <sup>th</sup> April 2006	All parts	Response dated 13 <sup>th</sup> July 2006
Letter Requesting Further Information dated 16 <sup>th</sup> August 2006	All parts	Response dated 30 <sup>th</sup> August 2006

**Table S1.3 Improvement Programme Requirements**

Reference	Requirement	Date
1	The Operator shall submit to the Agency for approval appropriately justified groundwater monitoring Control Limits for boreholes BH3, BH4 and BH5 for the quality determinands as set in Table S4.2. This shall be completed using existing data.  The limits shall be implemented by the Operator from the date of approval in writing by the Agency.	31 <sup>st</sup> May 2007
2	The Operator shall submit to the Agency for approval appropriately justified surface water monitoring Control Limits for location SW2 for the quality determinands as set in Table S4.1.  The limits shall be implemented by the Operator from the date of approval in writing by the Agency.	31 <sup>st</sup> May 2007

**Table S1.3 Improvement Programme Requirements**

Reference	Requirement	Date
3	<p>The Operator shall confirm that the existing groundwater monitoring boreholes BH1 and BH5 shall not be decommissioned/ lost as a result of planning approval for the proposed extension area.</p> <p>If it is confirmed that boreholes BH1 and BH5 shall be decommissioned/ lost as a result of planning approval, the Operator shall submit proposals for replacement boreholes, to be installed immediately and included into the groundwater compliance / monitoring regime following Agency agreement. Replacement boreholes shall be designed and installed in accordance with the Environment Agency LFTGN02 document "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water".</p> <p>The proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	31 <sup>st</sup> May 2007
4	<p>The Operator shall submit to the Agency for approval proposals for the installation of the additional monitoring borehole BH6 that is required under the Planning Permission (Ref. 23C160D/EIA dated 8<sup>th</sup> June 2006. These proposals shall include the location and installation details, and be designed and installed in accordance with the Environment Agency LFTGN02 document 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'. This borehole shall also enable gas monitoring in accordance with the Environment Agency LFTGN03 document 'Guidance on management of Landfill Gas'. Upon installation and commissioning, this borehole shall be included in groundwater and gas monitoring plans.</p> <p>The proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	31 <sup>st</sup> July 2007
5	<p>The Operator shall submit to the Agency for approval details for the installation of an engineered geological barrier onto the quarry base and sidewalls where waste filling is proposed, as outlined in point 12 of the response to the Schedule 4 Notice (dated 13/07/06). The engineered geological barrier shall be compliant with Schedule 2 of the Landfill Regulations 2002 (as amended). The submitted details shall include a plan clearly identifying where an engineered sidewall geological barrier is required</p> <p>The proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	Prior to the acceptance of any additional waste materials but no later than 31 <sup>st</sup> July 2007
6	<p>The Operator shall submit to the Agency for approval revised Surface Water Management and Contingency Action Plans including actions and amendments arising from implementation of 'Improvement Programme Requirements' (Table S1.3 References 2 &amp; 11).</p>	31 <sup>st</sup> July 2007
7	<p>The operator shall carry out a survey of all existing external groundwater monitoring boreholes to demonstrate that they are fit for purpose. A report on the results of this survey, including replacement timescales, shall be provided to the Agency. Boreholes found not to be fit for purpose shall be replaced adjacent to the existing borehole in accordance with the Environment Agency LFTGN02 document "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water". Replacement boreholes shall be incorporated into relevant groundwater compliance and monitoring programmes.</p>	28 <sup>th</sup> September 2007

**Table S1.3 Improvement Programme Requirements**

Reference	Requirement	Date
8	<p>The operator shall carry out a survey of all existing gas monitoring boreholes to demonstrate that they are fit for purpose. A report on the results of this survey shall be provided to the Agency. The survey shall:</p> <ul style="list-style-type: none"> <li>• Confirm the level to which the gravel pack within the borehole extends beneath the waste surface;</li> <li>• Detail mitigation measures against the potential for gaseous exchange and release between the borehole and the atmosphere where the borehole gravel pack extends close to ground surface;</li> <li>• Propose additional measures to ensure that the existing gas monitoring boreholes are secure;</li> <li>• If the above cannot be fully completed, submit proposals, including timescales, to install new gas monitoring boreholes to comply with the requirements of the Landfill Regs and LF TGN03 'Guidance on the Management of Landfill Gas'.</li> </ul> <p>The proposals set out in the report shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	28 <sup>th</sup> September 2007
9	<p>The Operator shall obtain 6 months of monthly groundwater monitoring data for boreholes BH1, BH2, BH3, BH4, BH5 and BH6.</p> <p>The Operator shall submit to the Environment Agency for approval a report that:</p> <ul style="list-style-type: none"> <li>• Reviews the existing and new groundwater monitoring data from these monitoring boreholes.</li> <li>• Undertakes a review of the Control Levels and Trigger Limits included in this Permit and provide a report to the Agency including, where justified, revised Control Levels and Trigger Limits for approval with appropriately justified determinands.</li> </ul> <p>The limits shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	31 <sup>st</sup> March 2008
10	<p>The Operator shall submit to the Agency for approval written proposals to ensure that the saturated groundwater table level will be maintained at all times below the base of the existing wastes already deposited at the site.</p> <p>A fully justified Compliance Limit for the maximum elevation of the managed water level in the quarry sump shall be proposed to the Agency for approval and for inclusion into the Permit. This Compliance Limit shall be below the lowest elevation of the base of the existing WML wastes, and determined from the new survey information required under Improvement Condition 16 (below).</p> <p>The proposals and quarry sump water level Compliance Limit shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	31 <sup>st</sup> March 2008

**Table S1.3 Improvement Programme Requirements**

Reference	Requirement	Date
11	<p>The Operator shall submit to the Environment Agency for approval proposals for the additional management of surface water runoff and groundwater discharged from the site via the settlement ponds. These proposals shall ensure that adequate mitigation measures are in place to prevent against the potential sporadic releases of high concentrations of sulphate and other substances detected in waste samples above inert WAC from the site as detailed in Appendix E of the response to Schedule 4 Notice (dated 13/07/06). This shall include an appropriately designed, installed and maintained constructed wetland system as outlined in point 18 of the response to the Schedule 4 Notice, including the relocation of monitoring point 'SW2' to the outlet of the proposed constructed wetland system prior to water discharge to the adjacent surface water stream.</p> <p>These proposals shall also include review of the existing sump pumping regime. This shall include detailed consideration for improvement, including:</p> <ul style="list-style-type: none"> <li>• The removal of accumulated particulate matter / sediment from the base of the sump;</li> <li>• The appropriate disposal and re-circulation of pumped sump water onto the top of the existing waste mass during the initial pump start-up period. Trenches or other suitable features that allow infiltration of pumped water into the waste shall be considered;</li> <li>• Raising the level of the sump pump intake to limit the agitation of particulate matter / sediment from the sump base ingressing into the pump and subsequent discharged to the attenuation ponds/ release to the surface water stream.</li> </ul> <p>The proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	31st March 2008
12	<p>The Operator shall obtain 6 months of monthly gas monitoring data for boreholes BH1, BH2, BH3, BH4, BH5, GH1, GH2 and BH6.</p> <p>The Operator shall submit to the Environment Agency for approval a report that:</p> <ul style="list-style-type: none"> <li>• Reviews the existing and new gas monitoring data from these monitoring boreholes.</li> <li>• Undertakes a review of the Control Levels and Compliance Limits included in this Permit and provide a report to the Agency including, where justified, revised Control Levels and Compliance Limits for approval with appropriately justified determinands.</li> </ul> <p>The limits shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	31st March 2008
13	<p>The Operator shall:</p> <ul style="list-style-type: none"> <li>• Acquire 6 months of monthly surface water monitoring data for locations SW1 and SW2, and using this new data:</li> <li>• Undertake a review of the quality determinands for surface water Control Levels and Compliance Limits where included in this Permit;</li> <li>• Provide a report to the Agency including, where justified, revised Control Levels and Compliance Limits with appropriately justified determinands for Agency approval.</li> </ul> <p>[Additional monitoring requirements for sulphate only are detailed in Reference 17, Table S1.3.]</p> <p>The proposals set out in the report shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	31st December 2007

**Table S1.3 Improvement Programme Requirements**

Reference	Requirement	Date
14	<p>A drawing/plan shall be submitted to the Agency confirming all monitoring locations. This drawing/plan shall be annotated with clear and consistent nomenclature for all monitoring locations.</p> <p>The notification requirements of condition 2.5.2 shall be deemed to have been completed on submission of the drawing/plan.</p> <p>This and subsequent drawings/plans shall be updated and provided to the Agency immediately following changes and additions to the existing monitoring infrastructure.</p>	31 <sup>st</sup> July 2007
15	<p>The Operator shall submit to the Agency a Particulate Matter Management and Monitoring Plan. The management and monitoring plan shall fully identify the risks from the landfill activity covered by this permit, specify contingency actions and propose an appropriate monitoring regime in accordance with the Agency's guidance document – 'M17 - Monitoring of particulate matter in ambient air around waste facilities'.</p> <p>The plan shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	28 <sup>th</sup> September 2007
16	<p>The Operator shall complete a new and full topographical survey for the site. The results of this survey shall be submitted to the Agency. This survey shall be provided on a fully annotated and scaled plan drawing, and include annotated or tabulated spot elevations for key features including, as a minimum, the following:</p> <ul style="list-style-type: none"> <li>• clear indication of the lowest elevations along all the boundaries of the existing wastes already deposited under WML, including the lowest elevation of the base of these existing wastes along the northern boundary of the wastes closest to the existing water sump;</li> <li>• the ground and casing levels at all borehole locations;</li> <li>• the quarry floor, water level(s) in the quarry sump, the existing wastes, the settlement ponds and associated features in the valley, and the stream/ stream water levels upgradient and downgradient of the site.</li> </ul> <p>The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the drawing / plan.</p> <p>This and subsequent drawings / plans shall be updated and provided to the Agency immediately following changes and additions to the existing monitoring infrastructure.</p>	31 <sup>st</sup> July 2007
17	<p>The Operator shall complete additional time-series monitoring of water quality for sulphate (only) at discharge point SW2. This monitoring shall be completed immediately before, during and after completion of normal pumping operations from the quarry sump at fifteen minute intervals. This monitoring shall be completed on at least ten consecutive pumping occasions commencing no later than one month from the date of this Permit.</p> <p>After completion of this monitoring, these data shall be used to determine appropriate and fully-justified time-constrained Control Level and Trigger Limit for sulphate at discharge point SW2. The monitoring data and the time-constrained Control Level and Trigger Limit shall be submitted to the Agency for approval.</p> <p>The proposals set out in the report shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	28 <sup>th</sup> September 2007

Table S1.4 Annual waste input limits	
Category	Limit Tonnes/ Year
Inert Waste	75,000



## Schedule 2 - Site plan



*“Reproduced from the Ordnance Survey map with the permission of the Controller of Her Majesty’s Stationery Office ©Crown Copyright 2000. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings.”*

## Schedule 3 - List of permitted wastes

### Inert wastes that may be accepted at Rhuddlan Bach Landfill Site without testing

EWC Code	Description	Restrictions
10 11 03	Waste glass based fibrous materials	Only without organic binders
17 01 01	Concrete	Selected C&D waste only <sup>(a)</sup>
17 01 02	Bricks	Selected C&D waste only <sup>(a)</sup>
17 01 03	Tiles and ceramics	Selected C&D waste only <sup>(a)</sup>
17 01 07	Mixtures of concrete, bricks, tiles and ceramics	Selected C&D waste only <sup>(a)</sup>
17 02 02	Glass	
17 05 04	Soil and stones	Excluding topsoil, peat; excluding soil and stones from contaminated sites
20 02 02	Soil and stones	Only from garden and parks waste; Excluding top soil, peat

- (a) Selected construction and demolition waste (C & D waste): with low contents of other types of materials (like metals, plastic, organics, wood, rubber, etc). The origin of the waste must be known.

No C & D waste from constructions, polluted with inorganic or organic dangerous substances, e.g. because of production processes in the construction, soil pollution, storage and usage of pesticides or other dangerous substances, etc., unless it is made clear that the demolished construction was not significantly polluted.

No C & D waste from constructions, treated, covered or painted with materials, containing dangerous substances in significant amounts.

### Inert wastes that may be accepted at Rhuddlan Bach Landfill Site subject to testing and compliance with the inert waste acceptance criteria

EWC Code	Description
01 01 01	Wastes from mineral metaliferous excavation
01 01 02	Wastes from mineral non-metaliferous excavation
01 04 08	Waste gravel and crushed rocks other than those mentioned in 01 0 4 07
01 04 09	Waste sand and clays
10 13 14	Waste concrete and concrete sludge
17 05 06	Dredging spoil other than those mentioned in 17 05 05
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
19 12 09	Minerals (for example sand and stones)

## Schedule 4 – Emissions and monitoring

**Table S4.1 Point Source Emissions to Water (Other than Sewer) – emission limits and monitoring requirements**

Emission point Ref. & Location	Parameter	Source	Limits – maximum (incl unit)	Limits – other (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Discharge point 'SW2' at the outlet of existing settlement ponds as shown on drawing ES1580.902 dated July 2006.	Suspended Solids	Site drainage from the surface water and groundwater management system	266 mg/l	55 mg/l on any 2 consecutive occasions	Spot Sample	Monthly	In accordance with the application unless otherwise agreed in writing with the Environment Agency
	pH		>5 and <9 pH units	-			
	Oil or grease		None visible	-			
	Sulphate		859 mgSO <sub>4</sub> /l	250 mgSO <sub>4</sub> /l on any 3 consecutive occasions			
	Ammoniacal Nitrogen		7.4 mgNH <sub>4</sub> - N/l	1.1 mgNH <sub>4</sub> - N/l on any 3 consecutive occasions			
	Cadmium		0.36 µgCd/l	0.125 µgCd/l on any 3 consecutive occasions.			
	Mineral oil (C <sub>8</sub> -C <sub>40</sub> )		0.01 mg/l	-			

**Notes:**

1. The above emission compliance limits are interim until specific limits for each monitoring point are agreed in accordance with Improvement Programme References 13 & 17.
2. Monitoring point SW2 to be relocated to the outlet of the proposed constructed wetland system prior to discharge to watercourse (to be installed under Improvement Programme Reference 11)

**Table S4.2 Trigger levels for emissions into groundwater and monitoring**

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
BH3 and BH5 (as identified on drawing no. ES1580.902 dated July 2006), and BH6 (to be installed under Improvement Programme Reference 4)	Ammoniacal Nitrogen	0.39 mg/l	Spot Sample	Monthly	In accordance with the application unless otherwise agreed in writing with the Environment Agency
	Iron	0.2 mg/l			
	Chromium	0.05 mg/l			
	Manganese	50 µg/l			
	Nickel	0.02 mg/l			
	Lead	10 mg/l			
	Sulphate	250 mg/l			
	Cadmium	0.1 µg/l			
	Mineral Oils (C <sub>8</sub> -C <sub>40</sub> )	0.01 mg/l			
BH4 (as identified on drawing no. ES1580.902 dated July 2006)	Ammoniacal Nitrogen	5.4 mg/l			
	Iron	0.617 mg/l			
	Chromium	0.14459 mg/l			
	Manganese	950 µg/l			
	Nickel	0.09302 mg/l			
	Lead	20.16 µg/l			
	Sulphate	250 mg/l			
	Cadmium	0.91 µg/l			
	Mineral oil (C <sub>8</sub> -C <sub>40</sub> )	0.01 mg/l			

Notes: The above trigger limits are interim until specific limits for each monitoring point are agreed in accordance with Improvement Programme Reference 9.

**Table S4.3 Landfill gas in external monitoring boreholes – limits and monitoring requirements**

Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
BH1 as shown on drawing ES1580.902, dated July 2006	Methane	1 %v/v	Monthly, unless otherwise agreed in writing with the Environment Agency.	In accordance with the application unless otherwise agreed in writing with the Environment Agency
	Carbon Dioxide	19.8 %v/v		
BH2 as shown on drawing ES1580.902, dated July 2006	Methane	1.1 %v/v		
	Carbon Dioxide	5.1 %v/v		
BH3 as shown on drawing ES1580.902, dated July 2006	Methane	1 %v/v		
	Carbon Dioxide	3.1 %v/v		
BH4 as shown on drawing ES1580.902, dated July 2006	Methane	1.9 %v/v		
	Carbon Dioxide	6.0 %v/v		
BH5 and BH6 (to be installed under Improvement Programme Reference 4)	Methane	1 %v/v		
	Carbon Dioxide	1.5 %v/v		
Future external gas monitoring points (to be installed in accordance with point 23 of the response to the Schedule 4 Notice).	Methane	1 %v/v		
	Carbon Dioxide	1.5 %v/v		
BH1, BH2, BH3, BH4, BH5, BH6 (to be installed under Improvement Programme Reference 4) and future external gas monitoring points (to be installed in accordance with point 23 of the response to the Schedule 4 Notice).	Oxygen	No limit		
	Atmospheric pressure	No limit		
	Differential Pressure	No limit		
	Temperature	No limit		
	Meteorological Data	No limit		

Notes: Gas compliance limits are interim until monitoring point specific limits are agreed in accordance with Improvement Programme Reference 12.

**Table S4.4 Landfill gas – other monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
In-waste monitoring points GH1 and GH2 (as shown on drawing ES1580.902, dated July 2006).  Representative number of samples taken from future in-waste (to be installed in accordance with point 23 of the response to the Schedule 4 Notice).	Methane	Monthly,	In accordance	No other specifications.
	Carbon Dioxide	unless	with the	
	Oxygen	otherwise	application unless	
	Atmospheric pressure	agreed in	otherwise agreed	
	Differential pressure	writing with	in writing with the	
	Temperature	the	Environment	
	Meteorological Data	Environment Agency.	Agency	

**Table S4.5 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
Discharge point 'SW2' at the outlet of existing settlement ponds as shown on drawing ES1580.902 dated July 2006.  Note: Monitoring point SW2 to be relocated to the outlet of the proposed constructed wetland system prior to discharge to watercourse (to be installed under Improvement Programme Reference 11).	SO <sub>4</sub>	At 15 minute intervals immediately before, during and after completion sump pumping operations.	In accordance with the application unless otherwise agreed in writing with the Environment Agency.	To be completed on ten consecutive sump pumping operations commencing no later than one month after the date of this Permit during the interim period only, completed in accordance with Improvement Programme Reference 17.
	pH, Oil & Grease, Temperature, Electrical Conductivity, Ammoniacal Nitrogen, Chloride, Dissolved Oxygen, Nitrate, COD, Total Suspended Solids, Fe, Cr, Mn, Ni, Pb, PO <sub>4</sub> as P, SO <sub>4</sub> , Cd, Mineral Oils (C <sub>8</sub> -C <sub>40</sub> ).	Monthly	In accordance with the application unless otherwise agreed in writing with the Environment Agency.	List I substances shall be screened to the MRV limits unless otherwise agreed in writing with the Environment Agency. These substances include Cd, Hg and Mineral Oils (C <sub>8</sub> -C <sub>40</sub> ), and other substances including PCBs and PAHs, as identified from inert WAC testing results, response to Schedule 4 Notice dated July 2006.
	BOD, Total Organic Carbon, Total Oxidised Nitrogen, Ca, Mg, Na, K, Alkalinity (CaCO <sub>3</sub> ), Cu, Zn, Hg.	Quarterly		
	List I screening (including PCBs, PAHs)	Annually		
Point marked 'SW1' (as shown on drawing ES1580.902 dated July 2006)	pH, Oil & Grease, Temperature, Electrical Conductivity, Ammoniacal Nitrogen, Chloride, Dissolved Oxygen, Nitrate, COD, Total Suspended Solids, Fe, Cr, Mn, Ni, Pb, PO <sub>4</sub> as P, SO <sub>4</sub> , Cd, Mineral Oils (C <sub>8</sub> -C <sub>40</sub> ).	Monthly	In accordance with the application unless otherwise agreed in writing with the Environment Agency.	List I substances shall be screened to the MRV limits unless otherwise agreed in writing with the Environment Agency. These substances include Cd, Hg and Mineral Oils (C <sub>8</sub> -C <sub>40</sub> ).
	BOD, Total Organic Carbon, Total Oxidised Nitrogen, Ca, Mg, Na, K, Alkalinity (CaCO <sub>3</sub> ), Cu, Zn, Hg.	Quarterly		

**Table S4.6 Groundwater – other monitoring requirements**

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Groundwater monitoring points BH1, BH2, BH3, BH4, BH5 (as identified on ES1580.902 dated July 2006), BH6 (to be installed under Improvement Programme Reference 4), and other locations as required under Improvement Programme References 3 and 7.	Water level, pH, Electrical Conductivity, Ammoniacal Nitrogen, Nitrate, Fe, Cr, Mn, Ni, Pb, PO <sub>4</sub> as P, SO <sub>4</sub> , Cd, Mineral Oils (C <sub>8</sub> -C <sub>40</sub> )	Monthly	In accordance with the application unless otherwise agreed in writing with the	List I substances shall be screened to the MRV limits unless otherwise agreed in writing with the Environment Agency. These substances include Cd, Hg and Mineral Oils (C <sub>8</sub> -C <sub>40</sub> ), and other substances including PCBs and PAHs, as identified from inert WAC testing results, response to Schedule 4 Notice dated July 2006.
	Dissolved Oxygen, Ca, Cl, Total Organic Carbon, Total Oxidised Nitrogen, BOD, COD, Total Dissolved Solids, Mg, Na, K, Alkalinity (CaCO <sub>3</sub> ), Cu, Zn, Hg.	Quarterly	Environment Agency.	
	List I screening (including PCBs, PAHs)	Annually		

## 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 water Parameters as required by condition 3.6.1	SW2 as indicated on drawing ES1580.902 dated July 2006, and/ or subsequently relocated under Improvement Programme Reference 11.	Every 3 Months	16 <sup>th</sup> March 2007
Groundwater Parameters as required by condition 3.6.1	BH1, BH2, BH3, BH4, BH5 as identified on ES1580.902 dated July 2006.	Every 3 Months	16 <sup>th</sup> March 2007
List 1 Screening		Annually	
Groundwater Parameters as required by condition 3.6.1	BH6 (to be installed under Improvement Programme Reference 4).	Every 3 Months	After date of installation.
List 1 Screening		Annually	
Landfill gas lateral migration Parameters as required by condition 3.6.1	BH1, BH2, BH3, BH4, BH5 as identified on ES1580.902 dated July 2006 and BH6 (to be installed under Improvement Programme Reference 4).	Every 3 Months	16 <sup>th</sup> March 2007
	Other gas monitoring points (to be installed in accordance with point 23 of the response to the Schedule 4 Notice).		After date of installation.
Other Landfill gas monitoring Parameters as required by condition 3.6.1	In waste boreholes GH 1 and GH2 (as shown on Drawing REGSPEC 12).	Every 3 Months	16 <sup>th</sup> March 2007
	Representative number of samples taken from future in-waste and external gas monitoring points (to be installed in accordance with point 23 of the response to the Schedule 4 Notice).		After date of installation.
Other surface water monitoring Parameters as required by condition 3.6.1	SW1 as indicated on drawing ES1580.902 dated July 2006.	Every 3 Months	16 <sup>th</sup> March 2007
	SW2, as indicated on drawing ES1580.902 dated July 2006, and/ or subsequently relocated under Improvement Programme Reference 11.	Every 3 Months	
List 1 Screening		Annually	



**Table S5.2: Annual production/treatment**

Surface water and/ or groundwater: Disposed of off site; Disposed of to any onsite effluent treatment plant.	Cubic metres/year
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**Table S5.3 Reporting forms**

Media/parameter	Reporting Format	Date of Form
Controlled water	Form water 1 or other reporting format to be agreed in writing with the Agency.	16 <sup>th</sup> March 2007
Groundwater	Form groundwater 1 or other reporting format to be agreed in writing with the Agency.	16 <sup>th</sup> March 2007
Landfill gas	Form gas 1 or other reporting format to be agreed in writing with the Agency.	16 <sup>th</sup> March 2007
Waste Return	Waste Return Form RATS2E	
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Agency	

## 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 PPC Regulations.

### Part A

Permit 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**

<b>To be notified within 24 hours of detection</b>	
Date and Time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

#### **(b) Notification requirements for the breach of a limit**

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

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

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

### Part B to be supplied as soon as practicable

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

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of C & M Parry Plant Hire Limited

## 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 Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in Section 108(4) of that Act.

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

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

*“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 or background concentration limit.

*“Groundwater Regulations”* means the Groundwater Regulations SI 1998 No. 2746, and words and expressions used in this permit which are also used in the Regulations shall have the same meanings as in those 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 (England and Wales) Regulations SI 2002 No. 1559, and words and expressions used in this permit which are also used in the Regulations shall have the same meanings as in those Regulations.

*“Land Protection Guidance”* means Agency guidance “H7 - Guidance on the protection of land under the PPC Regime: Application site report and site protection monitoring programme”.

*“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 in a way that has a negative effect.

"notify without delay" or "notified without delay" means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

"*PPC Regulations*" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 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, 1 April, 1 July or 1 October.

"*Relevant person*" and "*relevant conviction*" shall have the meanings given to them in the Environmental Protection Act 1990

"*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 Environmental Protection Act 1990.

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

"*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



**ENVIRONMENT  
AGENCY**

## **Permit with introductory note**

**Pollution Prevention and Control (England & Wales) Regulations 2000**

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**Nant Newydd Quarry Landfill Site**

**J.T. Owen & G.T. Owen  
Nant Newydd Quarry Landfill Site  
Brynteg  
Anglesey  
LL78 7JJ**

**Permit number**

**RP3337SE**

# Nant Newydd Quarry Landfill Site

## Permit Number RP3337SE

### Introductory note

***This introductory note does not form a part of the permit***

The main features of the installation are as follows:

Nant Newydd Quarry Landfill Site is an inert landfill in Brynteg, Anglesey, North Wales.

Landfilling of wastes is taking place in an operational limestone quarry, which is within 500m of Anglesey Fens SAC.

The previously deposited wastes were placed directly onto the base and sides of the quarry. The potential impacts from these wastes have been assessed in the application and permit conditions have been imposed where necessary.

Future deposits of waste will have to comply with the requirements of the Landfill Regulations 2002 (as amended). The main requirements that apply here are the stricter inert waste acceptance criteria and the establishment of a geological barrier (e.g. clay) between the waste and the limestone bedrock.

Landfill gas, groundwater and surface water monitoring requirements are included in permit conditions which will ensure that the landfill operation does not pose a risk to the environment.

Status log of the permit		
Detail	Date	Response Date
Application RP3337SE	Received 18 <sup>th</sup> November 2005	
Response to Schedule 4 Notice	Request dated 3 <sup>rd</sup> April 2006	Response dated 11 <sup>th</sup> May 2006
Response to letter requesting further information	Request dated 24 <sup>th</sup> May 2006	Response dated 27 <sup>th</sup> July 2006
Results of waste characterisation requested in the Schedule 4 Notice and letter requesting further information.	Requests dated 3 <sup>rd</sup> April & 24 <sup>th</sup> May 2006	Responses dated 8 <sup>th</sup> September, 20 <sup>th</sup> September, 27 <sup>th</sup> October & 6 <sup>th</sup> October 2006
Submission of relevant WAMITAB Certificate	Requests dated 30 <sup>th</sup> October 2006 & 13 <sup>th</sup> December 2006	Response dated 20 <sup>th</sup> December 2006.
Permit determined	30 <sup>th</sup> March 2007	

Superseded or partially superseded licences/authorisations/consents relating to this installation			
Holder	Reference Number	Date of Issue	Fully or Partially Superseded
W.J. Owen & Sons	EAWML37144	19/07/1996	Fully Superseded

End of Introductory Note

Permit Number RP3337SE

Nant Newydd Quarry Landfill Site

**Permit**

Pollution Prevention and Control (England and Wales) Regulations 2000  
Landfill (England and Wales) Regulations 2002

## Permit

Permit number

**RP3337SE**

The Environment Agency (the Agency) in exercise of its powers under regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) and Regulation 6 of the Landfill (England and Wales) Regulations 2002 (SI 2002 No.1559) hereby **authorises Mrs J.T. Owen & Mr G.T. Owen ("the Operator")**,

whose principal office is

**Nant Newydd Quarry**

**Brynteg**

**Anglesey**

**LL78 7JJ**

Company registration number **N/A**

to operate an installation at

**Nant Newydd Quarry Landfill Site**

**Brynteg**


**Anglesey**

**LL78 7JJ**

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

Signed

Date

	30 <sup>th</sup> March 2007
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**Martin Jenkins**

Authorised to sign on behalf of the Agency

Permit Number **RP3337SE**

**Nant Newydd Quarry Landfill Site**



# **Conditions**

## **1. Management**

### **1.1 General management**

1.1.1 The Activities shall be managed and operated:

- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the operator as a result of complaints; and
- (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the Activities.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

### **1.2 Accidents that may cause pollution**

1.2.1 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 Finance**

1.3.1 The financial provision for meeting the obligations under this permit set out in the agreement made between the operator and the Agency dated 30<sup>th</sup> March 2007 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 Agency.

1.3.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover the cost of operating the landfill, as far as possible the cost of the financial provision required by condition 1.3.1 and thus the estimated costs for the closure and aftercare of the landfill.

### **1.4 Site security**

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

## **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").

### **2.2 The site**

- 2.2.1 The Activities shall not extend beyond the Site, being the land shown edged in red on the site plan at schedule 2 to this permit.

### **2.3 Operating techniques**

- 2.3.1 The Activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1 table S1.2, unless otherwise agreed in writing by the Agency.

### **2.4 Off-site conditions**

There are no conditions in this permit to which Regulation 12(12) of the PPC Regulations apply.

### **2.5 Improvement programme**

- 2.5.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Agency.
- 2.5.2 Except in the case of an improvement which consists only of a submission to the Agency, the operator shall notify the Agency within 14 days of completion of each improvement.

### **2.6 Pre-operational conditions**

- 2.6.1 The Activities shall not be brought into operation until the measures specified in schedule 1 table S1.4A have been completed.

### **2.7 Engineering**

- 2.7.1 No construction of any new cell shall commence until the operator has submitted construction proposals and the Agency has confirmed that it is satisfied with the construction proposals.
- 2.7.2 The construction of a new 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 Agency.

- 2.7.3 No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and the Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.7.4 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 Agency has confirmed that it is satisfied with the construction proposals.
- 2.7.5 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 Agency.
- 2.7.6 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant Landfill Infrastructure.
- 2.7.7 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.7.4 and 2.7.5 do not apply and the relevant Landfill Infrastructure may be constructed, provided that the construction proposals are submitted to the Agency as soon as practicable.
- 2.7.8 For the purposes of conditions 2.7.1, 2.7.3 and 2.7.4, the Agency shall be deemed to be satisfied where it 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 it is satisfied; or
  - (b) informed the operator that it 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 inert waste, and
  - (c) from 30<sup>th</sup> October 2007 they are not liquid waste (including waste waters but excluding sludge), and
  - (d) all the relevant waste acceptance procedures set out in schedule 1 of the Landfill Regulations have been completed, and
  - (e) they fulfil the relevant waste acceptance criteria, and
  - (f) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
  - (g) from 30<sup>th</sup> October 2007 they are wastes which have been treated, except for wastes for which treatment is not technically feasible.
- 2.8.5 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.

- 2.8.6 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.
- 2.8.7 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.8.8 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing ESID4 (dated September 2005).
- 2.8.9 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.5.
- 2.8.10 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 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.

## **2.9 Closure, aftercare and decommissioning**

- 2.9.1 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.

# **3. Emissions and monitoring**

## **3.1 Emissions to water, air or land**

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 4 table S4.1.

## **3.2 Emissions to groundwater**

- 3.2.1 There shall be no emission from the activities into groundwater of any substance in List I (as defined by the Groundwater Regulations) contrary to those Regulations.
- 3.2.2 There shall be no emission from the activities into groundwater of any substance in List II (as defined in the Groundwater Regulations) so as to cause pollution (as defined in those Regulations).
- 3.2.3 The trigger levels for emissions into groundwater for the parameter(s) and monitoring point(s) set out in schedule 4 table S4.2 of shall not be exceeded.
- 3.2.4 The operator shall submit to the Agency a review of the Hydrogeological Risk Assessment:
  - (a) between 9 and 6 months prior to the fourth anniversary of the granting of the permit, and
  - (b) between 9 and 6 months prior to every subsequent 4 years after the fourth anniversary of the granting of the permit.

### **3.3 Fugitive emissions of substances**

- 3.3.1 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.
- 3.3.2 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.
- 3.3.3 Litter or mud arising from the activities shall be cleared from affected areas outside the Site as soon as practicable.
- 3.3.4 All liquids, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.
- 3.3.5 The limits for landfill gas arising from the installation set out in schedule 4, table S4.3, shall not be exceeded.

### **3.4 Odour**

- 3.4.1 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 Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the odour.

### **3.5 Noise and vibration**

- 3.5.1 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 Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the noise and vibration.

### **3.6 Monitoring**

- 3.6.1 The operator shall, unless otherwise agreed in writing by the Agency, undertake the monitoring for the parameters, specified in the following tables in schedule 4 to this permit:
- (a) Point source emissions specified in table S4.1;
  - (b) Groundwater specified in tables S4.2 and S4.6;
  - (c) Landfill gas specified in tables S4.3 and S4.4; and
  - (d) Surface water specified in table S4.5.
- 3.6.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.6.3 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 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.

### **3.7 Transfers off-site**

- 3.7.1 Records of all the wastes sent off site from the activities, for either disposal or recovery, shall be maintained.

## **4. Information**

### **4.1 Records**

- 4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Agency, 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) sub-surface landfill gas monitoring;
  - (iii) waste types and quantities;
  - (iv) topographical surveys; and
  - (v) the specification and as built drawings of the basal, sidewall and capping engineering systems

- 4.1.2. Any records required to be made by this permit shall be supplied to the Agency within 14 days where the records have been requested in writing by the Agency.

- 4.1.3. All records required to be held by this permit shall be available for inspection by the Agency at any reasonable time.

### **4.2 Reporting**

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

- (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this installation and any agreed amendments thereto;
  - (b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
  - (c) the annual production/treatment set out in schedule 5 table S5.2.
  - (d) details of any contamination or decontamination of the site which has occurred;
  - (e) the topographical surveys required by condition 3.6.3 other than those submitted as part of a CQA validation report;
  - (f) the volumetric difference (reported in cubic metres) 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;
  - (g) an assessment of the settlement behavior of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
  - (h) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
  - (i) a summary of the WAC compliance testing undertaken in the period;
- 4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 5 table S5.1;
  - (b) for the reporting periods specified in schedule 5 table S5.1 and using the forms specified in schedule 5 table S5.3; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.3 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 Agency within one month of the end of the quarter and shall be in the format required by the Agency.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, 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.
- 4.2.5 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency

### **4.3 Notifications**

- 4.3.1 The Agency 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) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 6 to this permit within the time period specified in that schedule.
- 4.3.3 Prior written notification shall be given to the Agency 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.
- 4.3.4 Where the Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Agency when the relevant monitoring is to take place. The operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.5 The Agency 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.
- 4.3.7 The Agency 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 Agency), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.
- 4.3.8 The Agency 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.
- 4.3.9 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
  - (a) the death of any of the named operators (where the operator consists of more than one named individual);
  - (b) any change in the operator's name(s) or address(es); and
  - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

## **4.4 Interpretation**

- 4.4.1 In this permit the expressions listed in schedule 7 shall have the meaning given in that schedule.



# Schedule 1 - Operations

**Table S1.1 Activities**

<b>Activity listed in schedule 1 of the PPC Regulations</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
Section 5.2 Part A(1) (b), The disposal of waste in a landfill.	Landfill for inert waste (landfill classification under the Landfill Regulations 2002)	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.8, as an integral part of landfilling.
<b>Directly Associated Activities</b>		
Water discharges to controlled waters.	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 and equipment.	Fuel storage tank.

**Table S1.2 Operating techniques**

<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application	The response to questions B2.1, B2.2, B2.3, B2.5, B2.7, B2.8, B2.9, B2.11 and B3.1 of the Application excluding the answers to the following questions: B2.2.1 to B2.2.6 B2.2.38 B2.2.39 B2.2.41 B2.2.42 B2.2.46 B2.2.47 B2.2.52 B2.2.57 B3.1.2	18 <sup>th</sup> November 2005
Response to Schedule 4 Notice dated 3 <sup>rd</sup> April 2006	All Parts	11 <sup>th</sup> May 2006
Additional information submitted following analysis of existing wastes	All Parts	8 <sup>th</sup> September 2006
Additional information submitted following analysis of existing wastes	All Parts	20 <sup>th</sup> September 2006
Additional information submitted following analysis of existing wastes	All Parts	27 <sup>th</sup> September 2006
Additional information submitted following analysis of existing wastes	All Parts	6 <sup>th</sup> October 2006
Submission of relevant WAMITAB Certificate	All Parts	20 <sup>th</sup> December 2006.

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
1.3.1	<p>The Operator shall submit to the Agency for approval, revised Interim Groundwater Monitoring and Contingency Action Plans for the boreholes installed in accordance with pre-operational condition Table S1.4A - reference 3. These plans shall be based on the Environment Agency guidance LFTGN01 'Hydrogeological Risk Assessment for Landfills' and LFTGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'.</p> <p>The plans shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	1 <sup>st</sup> June 2007
1.3.2	<p>The Operator shall obtain 12 months of new groundwater monitoring data at the frequencies specified for the substances listed in tables S4.2 and S4.6 from all monitoring boreholes required under Table S1.3 reference 1.3.1 and Table S1.4A reference 3.</p> <p>A report shall be submitted to the Agency for approval that:</p> <ul style="list-style-type: none"> <li>fully characterises the groundwater regime at the site. This shall include all groundwater level and quality data; characterises variations in groundwater levels; determines the groundwater flow direction; provides a fully annotated, scaled, contoured plan of groundwater contours within in the Carboniferous Limestone aquifer across the site; provides full characterisation and interpretation of groundwater quality in the inflow and outflow zones. The report shall also include a plan/ drawing indicating all groundwater and other monitoring points;</li> <li>reviews the 12 months of new groundwater monitoring data from the monitoring boreholes;</li> <li>undertakes a detailed review of the Control Levels and Trigger Limits included in this Permit. The review shall include revised post-interim Control Levels and Trigger Limits derived in accordance with Agency guidance document LFTGN01 'Hydrogeological Risk Assessments for landfills';</li> <li>Considers the need for the installation of additional groundwater monitoring boreholes to demonstrate compliance with the requirements of the Groundwater Regulations and the Landfill Regulations;</li> <li>Includes a revised and updated Site Conceptual Model including detailed, appropriately-scaled and fully annotated cross-section drawing(s) that includes detailed information required under other improvement conditions and pre-operational conditions to fully revise the understanding and interactions of the groundwater regime, the geology and the wastes at the site;</li> <li>Includes revised numerical modelling demonstrating that the site complies with the Groundwater Regulations. This modelling shall include containment engineering that complies with the requirements of the Landfill Regulations and fully justified modelled contaminant Source Terms.</li> </ul> <p>The proposals and plans in the report shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	<p>Within 15 months following installation of groundwater monitoring boreholes required under pre-operational condition Table S1.4A reference 3.</p>
1.3.3	<p>Following approval of the report submitted under improvement programme reference 1.3.2, the Operator shall submit to the Agency for approval, revised post-interim Groundwater Monitoring and Contingency Action Plans. These plans shall include all other appropriate information as required under improvement conditions under Table S1.3 reference 1.3.2 and Table S1.4A reference 3.</p> <p>The plans shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	<p>Within 2 months of the completion of improvement programme reference 1.3.2.</p>

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
1.3.4	<p>The Operator shall carry out a survey of all existing gas monitoring boreholes G1, G2 and G3 (as indicated on Drawing LO6 of the existing Working Plan, Appendix 2, submitted with the PPC Application) to demonstrate that they are fit-for-purpose. A report on the results of this survey shall be submitted to the Agency for approval. The survey shall:</p> <ul style="list-style-type: none"> <li>• Confirm the depth / level to which the borehole extends beneath the existing waste/ ground surface;</li> <li>• Confirm that the installation details of these boreholes is adequate, including construction materials, slotted and plain casings, grouting materials with the depths/ elevations of these materials, and borehole security measures;</li> <li>• Confirm whether these boreholes are blocked, and, if blocked, provide mitigation measures;</li> <li>• Propose additional measures to ensure that the existing gas monitoring boreholes are secure;</li> <li>• If the above cannot be fully completed, the operator shall submit proposals to install new gas monitoring points to comply with the requirements of the Landfill Regulations and LF TGN03 'Guidance on the Management of Landfill Gas'. Once approved by the Agency, proposed gas monitoring locations shall be installed / commissioned within the agreed time period, and included immediately into the agreed interim and post-interim revised Landfill Gas Management and Contingency Action plans.</li> </ul> <p>The proposals in the report shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	1 <sup>st</sup> July 2007
1.3.5	<p>The Operator shall submit to the Agency for approval revised interim Landfill Gas Management and Contingency Action plans. These plans shall incorporate detailed written proposals for the design, construction and installation of gas monitoring locations and infrastructure in accordance with the Agency guidance document LF TGN03 'Guidance on the Management of Landfill Gas'. These plans shall ensure that representative sampling of gas concentrations within the waste mass and gas concentrations beyond the site boundary resulting from potential lateral gas migration is completed in accordance with the Landfill Regulations.</p> <p>Gas monitoring locations shall include, as a minimum, an adequate number of locations:</p> <ul style="list-style-type: none"> <li>• within the waste mass to ensure compliance with in-waste monitoring requirements;</li> <li>• beyond the site boundary to ensure compliance with requirements for the monitoring of lateral emissions.</li> </ul> <p>Once approved by the Agency, the gas monitoring locations shall be installed / commissioned within the agreed time period, and included immediately into the agreed and revised Landfill Gas Management and Contingency Action plans.</p> <p>These proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	1 <sup>st</sup> July 2007

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
1.3.6	<p>The Operator shall acquire 12 months of monthly gas monitoring data for all external locations beyond the site boundary required under improvement condition reference 1.3.5 in Table S1.3 (above).</p> <p>A written report shall be submitted to the Agency for approval that:</p> <ul style="list-style-type: none"> <li>• undertakes a review of the Control Levels and Compliance Limits in this Permit;</li> <li>• includes, where justified, revised post-interim Control Levels and Compliance Limits for Agency approval.</li> </ul> <p>The proposals in the report shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	Within 15 months of the completion of improvement programme reference 1.3.5.
1.3.7	<p>Following approval of the report submitted under improvement programme reference 1.3.6, The Operator shall submit to the Agency for approval, revised post-interim Landfill Gas Management and Contingency Action Plans. These plans shall include all other appropriate information as required under improvement conditions under Table S1.3 references 1.3.4, 1.3.5 and 1.3.6.</p> <p>The plans shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	Within 2 months of the completion of improvement programme reference 1.3.6
1.3.8	<p>The Operator shall submit to the Agency for approval interim Surface Water Management and Contingency Action Plans. These plans shall be based on the Environment Agency guidance LFTGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'.</p> <p>These plans shall include additional measures to mitigate against the potential for pollution to the adjacent surface water regime. This includes potential pollution arising from runoff that flows through and from the existing waste materials already deposited under the Waste Management Licence, and from liquids accumulated within and pumped from the quarry sump. The need for additional monitoring points shall be reviewed.</p> <p>The proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	1 <sup>st</sup> June 2007
1.3.9	<p>The Operator shall:</p> <ul style="list-style-type: none"> <li>• acquire 12 months of new surface water monitoring data at the frequencies specified in Tables S4.1 and S4.5 for locations W1, W1a, W2, W3 and W4 as indicated on drawing LOG of the existing Working Plan (PPC Application, Appendix 2) and described in Appendix HRA4 and using this new data;</li> <li>• undertake a review of the quality determinands for surface water Control Levels and Compliance Limits where included in this Permit;</li> <li>• provide a report to the Agency including, where justified, revised post-interim Control Levels and Compliance Limits with appropriately justified determinands at each appropriately justified compliance monitoring points for Agency approval.</li> </ul> <p>The proposals set out in the report shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	1 <sup>st</sup> July 2008
1.3.10	<p>Following approval of the report submitted under improvement programme reference 1.3.9, the Operator shall submit revised post-interim Surface Water Management and Contingency Action Plans. These plans shall include all other appropriate information as required under improvement condition under Table S1.3 reference 1.3.8 and 1.3.9.</p> <p>These plans shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	Within 2 months of the completion of improvement programme reference 1.3.9.

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
1.3.11	<p>The Operator shall submit a drawing / plan to the Agency confirming all monitoring locations. This drawing / plan shall be scaled, and annotated with clear and consistent nomenclature for all monitoring locations. This drawing / plan shall also include local features such as haulage and other roads, field boundaries, surface water features, indicated map north, ground elevation information, buildings, services &amp; infrastructures, completed / restored parts of the landfill and security fencing details.</p> <p>The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the drawing / plan.</p>	1 <sup>st</sup> July 2007
1.3.12	<p>The Operator shall submit a report to the Agency regarding nitrate concentrations in the surface water regime. For this report, the Operator shall investigate and determine the source(s) of the observed high concentrations of nitrate in the surface water regime. The Operator shall submit the results of this investigation, and include proposals to mitigate against future potentially-polluting releases of nitrate from the site to the surface water regime.</p> <p>The proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	1 <sup>st</sup> October 2007

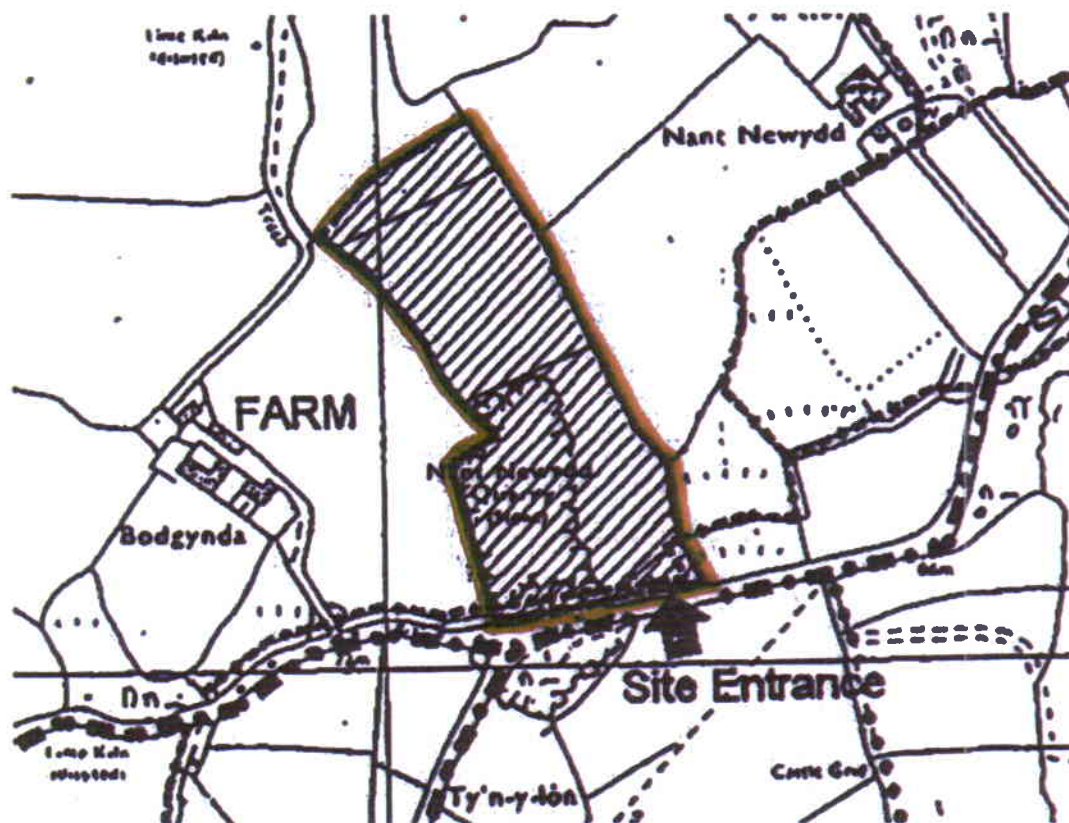
Table S1.4A Pre-operational measures

Reference	Pre-operational measures
1	<p>The Operator shall submit to the Agency for approval details for a Landfill Regulations-compliant engineered geological barrier to be installed onto the quarry base and full height of the sidewalls in any unfilled area where new landfilling is proposed. Where the newly constructed geological barrier is to be constructed adjacent to existing waste deposits, provision shall be made for an extension of the barrier over the lower section of the existing waste slope. The submitted details shall include a plan clearly identifying where engineered basal and sidewall geological barrier is required.</p> <p>A revised Stability Risk Assessment shall be submitted to the Agency for approval. This Stability Risk Assessment shall adequately investigate and include details of the engineered geological barrier installed onto the quarry base and sidewalls. Account shall be taken of any required groundwater control systems and potential groundwater pressures acting behind the constructed geological barrier.</p> <p>Following Agency approval, the operator shall install the geological barrier in accordance with the agreed design. A full construction quality assurance (CQA) programme shall be completed and a CQA Validation Report provided to the Agency following engineering installation prior to waste infilling in accordance with the requirements of section 2.7 of this permit.</p>
2	<p>Prior to construction of the sidewall geological barrier the Operator shall ensure that the basal and sidewall subgrade is stable and free from loose or significantly jointed/fractured rock which may displace under loading from the landfilled waste, thereby resulting in integrity failure of the barrier. Any such remedial measures shall be required and reported through the Construction Quality Assurance procedures for the lining works as detailed above in pre-operational condition reference 1.</p>
3	<p>The Operator shall submit to the Agency for approval written proposals, including timescales, for the installation of groundwater monitoring boreholes. A minimum of four boreholes shall be included. These shall be located and installed within the Carboniferous Limestone aquifer adjacent to the PPC Site Boundary and beyond areas of existing or proposed waste infilling. The boreholes shall not be installed into the existing wastes. The boreholes shall be designed and installed so as to enable adequate monitoring of the groundwater inflow (or hydraulically-upgradient) and outflow (or downgradient) regions to demonstrate that the site fully complies with the requirements of the Groundwater Regulations and the Landfill Regulations. The proposals shall include appropriately detailed construction and installation information, and a suitably scaled and annotated drawing / plan showing the locations and survey levels of all groundwater monitoring installations.</p> <p>The proposals shall include the location and installation details, and be designed and installed in accordance with Environment Agency documents LFTGN01 'Hydrogeological Risk Assessment for Landfills' and LFTGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'.</p> <p>Once approved, the boreholes shall be installed and commissioned within the agreed time period, and included immediately into the agreed Groundwater Monitoring and Contingency Action plans required under Table S1.3 references 1.3.1 and 1.3.3.</p>

Table S1.5 Annual waste input limits

Category	Limit Tonnes/ Year
Inert Waste	5000

## Schedule 2 - Site Plan



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## Schedule 3 - List of permitted wastes

Wastes that may be accepted without testing at Nant Newydd Quarry Landfill Site

EWG Code	Description	Restrictions
10 11 03	Waste glass based fibrous materials	Only without organic binders
15 01 07	Glass packaging	
17 01 01	Concrete	Selected C&D waste only <sup>(a)</sup>
17 01 02	Bricks	Selected C&D waste only <sup>(a)</sup>
17 01 03	Tiles and ceramics	Selected C&D waste only <sup>(a)</sup>
17 01 07	Mixtures of concrete, bricks, tiles and ceramics	Selected C&D waste only <sup>(a)</sup>
17 02 02	Glass	
17 05 04	Soil and stones	Excluding topsoil, peat; excluding soil and stones from contaminated sites
19 12 05	Glass	
20 01 02	Glass	Separately collected glass only
20 02 02	Soil and stones	Only from garden and parks waste; Excluding top soil, peat

- (a) Selected construction and demolition waste (C & D waste): with low contents of other types of materials (like metals, plastic, organics, wood, rubber, etc). The origin of the waste must be known.

No C & D waste from constructions, polluted with inorganic or organic dangerous substances, e.g. because of production processes in the construction, soil pollution, storage and usage of pesticides or other dangerous substances, etc., unless it is made clear that the demolished construction was not significantly polluted.

No C & D waste from constructions, treated, covered or painted with materials, containing dangerous substances in significant amounts.



## Schedule 4 – Emissions and monitoring

**Table S4.1 Point source emissions to water (other than sewer) – emission limits and monitoring requirements**

Emission point Ref. & Location	Parameter	Source	Limits – maximum (Incl unit)	Limits – other (Incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Interim period only:							
Surface water monitoring points W1, W1a, W3 & W4 (as indicated on Drawing LO6 of the existing Working Plan, Appendix 2, and as described in Appendix HRA4 (submitted with the PPC Application)	Suspended Solids	Surface water runoff and surface water courses	628 mg/l	50 mg/l on any 2 consecutive occasions.	Spot Sample	Monthly	To be agreed under the requirements of Table S1.3, condition reference 1.3.8.
	Sulphate		327 mgSO <sub>4</sub> /l	250 mgSO <sub>4</sub> /l on any 2 consecutive occasions.			
	Phosphate (as phosphorus)		1.2 mgPO <sub>4</sub> -P/l	0.1 mgPO <sub>4</sub> -P/l on any 2 consecutive occasions.			
	Oil & grease		None visible	-			
	Mineral oil (C <sub>6</sub> -C <sub>40</sub> )		0.01 mg/l	-		Quarterly	
	PAH		0.0001 mg/l	-			

**Table S4.2 Trigger levels for emissions into groundwater and monitoring requirements**

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Interim period only:					
Groundwater monitoring points to be installed in accordance with Table S1.4A, condition reference 3.	Chloride	15.10 mg/l	Spot Sample	Monthly	In accordance with the application unless otherwise agreed in writing with the Environment Agency
	Sulphate	18.09 mgSO4/l			
	Cadmium	0.0001 mg/l			
	Nickel	0.02 mg/l			
	Zinc	0.1305 mg/l			
	Ammoniacal Nitrogen	0.39 mgNH4-N/l			
	Mineral Oil (C6-C40)	0.01 mg/l	Quarterly		
	PAH	0.0001 mg/l			
	MTBE	0.01 mg/l			

Table S4.3 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
<b>Interim period only:</b>				
Existing gas monitoring boreholes G1 and G2 (as indicated on Drawing LO6 of the existing Working Plan, Appendix 2, submitted with the PPC Application)	Methane	1 %v/v	Monthly unless otherwise agreed in writing with the Agency.	In accordance with the application and the requirements of Table S1.3, condition references 1.3.4 and 1.3.5, unless otherwise agreed in writing with the Environment Agency.
	Carbon Dioxide	1.5 %v/v		
	Oxygen	No limit		
	Atmospheric pressure	No limit		
	Differential Pressure	No limit		
	Temperature	No limit		
New landfill gas monitoring points to be installed beyond the site boundary in accordance with Table S1.3, condition reference 1.3.5.	Meteorological data	No limit		
Note: Limits in the interim-only period are based on assumed background concentrations of 0 %v/v.				

Table S4.4 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
Existing in-waste monitoring borehole G3 (as indicated on Drawing LO6 of the existing Working Plan, Appendix 2, submitted with the PPC Application)	Methane	Monthly, unless otherwise agreed in writing with the Agency.	In accordance with the application and the requirements of Table S1.3, condition reference 1.3.7, unless otherwise agreed in writing with the Environment Agency.	No other specifications.
	Carbon Dioxide			
	Oxygen			
	Atmospheric pressure			
	Differential pressure			
	Temperature			
Landfill gas monitoring points to be installed beyond the site boundary in accordance with Table S1.3, condition reference 1.3.5.	Meteorological Data			

Table S4.5 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
<b>Interim period only:</b>				
Surface water monitoring points W1, W1a, W2, W3 & W4 (as indicated on Drawing LO6 of the existing Working Plan, Appendix 2, and as described in Appendix HRA4 (submitted with the PPC Application))	pH, Oil & Grease, Temperature, Electrical Conductivity, Ammoniacal Nitrogen, Chloride, Dissolved Oxygen, BOD, COD, Total Suspended Solids, TOC, Fe, Cr, Mn, Ni, Pb, Phosphate as P, SO <sub>4</sub> , Nitrate (for TON) and Nitrite (for TON).	Monthly	In accordance with the application unless otherwise agreed in writing with the Environment Agency.	No other specifications.  All List I substances shall be screened to the MRV limits unless otherwise agreed in writing with the Environment Agency. These substances include Cd, Hg, Mineral Oils (C <sub>6</sub> -C <sub>40</sub> ) and PAHs, as identified from inert WAC and other testing results, April 2006 and/ or October 2006.
	Total Oxidised Nitrogen, Ca, Cd, Hg, Mg, Na, K, Alkalinity (CaCO <sub>3</sub> ), Cu, Zn, Mineral oil (C <sub>6</sub> -C <sub>40</sub> ), PAH, MTBE.	Quarterly		
	Full List I screening	Annually Quarterly		
		Annually		

Table S4.6 Groundwater – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
<b>Interim period only:</b>				
Groundwater monitoring points to be installed in accordance with Table S1.4A, condition reference 3.	Water level, Temperature, pH, Electrical Conductivity, Dissolved Oxygen, Chloride, Sulphate, Cadmium, Nickel, Zinc, Ammoniacal Nitrogen.	Monthly	Spot Sample	All List I substances shall be screened to the MRV limits unless otherwise agreed in writing with the Environment Agency. These substances include Cd, Hg, Mineral Oils (C <sub>6</sub> -C <sub>40</sub> ) and PAHs, as identified from inert WAC and other testing results, April 2006 and/ or October 2006.
	Alkalinity, Arsenic, Calcium, Chromium, COD, Copper, ionic balance, Iron, Magnesium, Manganese, Lead, Mercury, Nitrate (for TON), Nitrite (for TON), Phenols Monohydric, Phosphate as P, Potassium, Selenium, Sodium, TOC, Mineral Oil (C <sub>6</sub> -C <sub>40</sub> ), PAH, MTBE.	Quarterly		
	Full List I screening	Annually Quarterly		
		Annually		

## 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 water Parameters as required by condition 3.6.1	Surface water monitoring points W1, W1a, W2 & W4 (as indicated on Drawing LO6 of the existing Working Plan, Appendix 2, and as described in Appendix HRA4 (submitted with the PPC Application))	Quarterly	30 <sup>th</sup> March 2007
Groundwater Parameters as required by condition 3.6.1	Groundwater monitoring points to be installed in accordance with Table S1.4A, condition reference 3.	Quarterly	30 <sup>th</sup> March 2007
List 1 screening		Annually	
Landfill gas lateral migration Parameters as required by condition 3.6.1	Existing gas monitoring boreholes G1 and G2 (as indicated on Drawing LO6 of the existing Working Plan, Appendix 2, submitted with the PPC Application)	Quarterly	30 <sup>th</sup> March 2007
	New landfill gas monitoring points to be installed beyond the site boundary in accordance with Table S1.3, condition reference 1.3.5.		After date of installation.
Other Landfill gas monitoring Parameters as required by condition 3.6.1	Existing in-waste monitoring borehole G3 (as indicated on Drawing LO6 of the existing Working Plan, Appendix 2, submitted with the PPC Application)	Quarterly	30 <sup>th</sup> March 2007
	Landfill gas monitoring points to be installed beyond the site boundary in accordance with Table S1.3, condition reference 1.3.5.		After date of installation.
Other surface water monitoring Parameters as required by condition 3.6.1	Surface water monitoring points W1, W1a, W2, W3 & W4 (as indicated on Drawing LO6 of the existing Working Plan, Appendix 2, and as described in Appendix HRA4 (submitted with the PPC Application))	Quarterly	30 <sup>th</sup> March 2007
List 1 screening		Annually	

**Table S5.2: Annual production/treatment**

<b>Surface water and/ or groundwater: Disposed of off site; Disposed of to any onsite effluent treatment plant.</b>	<b>Cubic metres/year</b>
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**Table S5.3 Reporting forms**

<b>Media/parameter</b>	<b>Reporting Format</b>	<b>Date of Form</b>
Controlled water	Form Leachate 1 or other reporting format to be agreed in writing with the Agency.	30 <sup>th</sup> March 2007
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Agency.	30 <sup>th</sup> March 2007
Landfill gas	Form Air 1 or other reporting format to be agreed in writing with the Agency.	30 <sup>th</sup> March 2007
Waste Return	Waste Return Form RATS2E	30 <sup>th</sup> March 2007
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Agency	

## 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 PPC Regulations.

### Part A

Permit 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 within 24 hours of detection**

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

**(b) Notification requirements for the breach of a limit**

**To be notified within 24 hours of detection unless otherwise specified below**

Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

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

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

### Part B to be supplied as soon as practicable

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

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of J.T Owen & G.T. Owen

## 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 Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in Section 108(4) of that Act.

**"Background concentration"** means such concentration of that substance as is present in:

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

**"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 or background concentration limit.

**"Groundwater Regulations"** means the Groundwater Regulations SI 1998 No. 2746, and words and expressions used in this permit which are also used in the Regulations shall have the same meanings as in those 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 (England and Wales) Regulations SI 2002 No. 1559, and words and expressions used in this permit which are also used in the Regulations shall have the same meanings as in those Regulations.

**"Land Protection Guidance"** means Agency guidance "H7 - Guidance on the protection of land under the PPC Regime: Application site report and site protection monitoring programme".

**"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 in a way that has a negative effect.

**"notify without delay"** or **"notified without delay"** means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

**"PPC Regulations"** means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 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, 1 April, 1 July or 1 October.

**"Relevant person"** and **"relevant conviction"** shall have the meanings given to them in the Environmental Protection Act 1990

**"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

**"Site Protection and Monitoring Programme"** means a document which meets the requirements for Site Protection and Monitoring Programmes described in the Land Protection Guidance.

**"Technically competent management"** and **"technical competence"** shall have the meanings given to them in the Environmental Protection Act 1990.

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

**"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



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

## **Permit with introductory note**

The Environmental Permitting (England & Wales) Regulations 2010

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W J Owen & Son Ltd

Nant Newydd Quarry  
Brynteg  
Anglesey  
LL78 7JJ

Permit number  
EPR/AB3095CJ

# Nant Newydd Quarry

## Permit number EPR/AB3095CJ

### Introductory note

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

The main features of the permit are as follows.

This is a tier 2 bespoke permit based on standard rule set SR2010 No12 - Treatment of waste to produce soil, soil substitutes and aggregate.

This permit allows the operator to store waste at a specified location and treat it to produce soil, soil substitutes and aggregate.

Permitted wastes do not include hazardous wastes.

The total quantity of waste that can be stored and subsequently treated at the site under this permit shall be no more than 75,000 tonnes per year.

This permit does not permit the burning of any wastes, either in the open, inside buildings or in any form of incinerator.

If the site is located within a groundwater Source Protection Zone 1 or 2, then the wastes listed in Table S2.2 shall be stored and treated on an impermeable surface with a sealed drainage system. Wastes listed in Table S2.1 may be stored and treated on hard-standing or on an impermeable surface with sealed drainage system.

If the site is located outside a groundwater Source Protection Zone 1 or 2, then wastes listed in table S2.1 and S2.2 may be stored and treated on hard-standing or on an impermeable surface with sealed drainage system.

This permit does not allow any point source emission into surface waters or groundwater. However, under the emissions of substances not controlled by emission limits condition:

- Liquids may be discharged into a foul sewer subject to a consent issued by the local water company.
- Liquids may be taken off-site in a tanker for disposal or recovery.
- Clean surface water from roofs, or from areas of the site that are not being used in connection with storing and treating waste, may be discharged directly to surface waters, or to groundwater by seepage through the soil via a soakaway.

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

Status log of the permit		
Description	Date	Comments
Application PAN-000016 (initially EPR/HB3890HV/A001)	Duly made 16/10/15	Application for tier 2 bespoke permit based on SR2010 No12 - Treatment of waste to produce soil, soil substitutes and aggregate.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Additional information received in response to request for information.	09/11/15	Change of applicant name, WAMITAB certificate, amended site specific risk assessment.
Additional information received in response to request for information.	15/02/16	Change of proposed site boundary, amended site specific risk assessment.
Permit determined EPR/AB3095CJ	16/02/16	Permit issued to W J Owen & Son Ltd.

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

**Permit number**  
**EPR/AB3095CJ**

The Natural Resources Body for Wales (“Natural Resources Wales”) authorises,  
under regulation 13 of the Environmental Permitting (England and Wales)  
Regulations 2010

**W J Owen & Son Ltd** (“the operator”),

whose registered office is

**12 Salem Street**  
**Amlwch**  
**Anglesey**  
**Wales**  
**LL68 9BP**

company registration number **09694563**

to operate waste operations at

**Nant Newydd Quarry**  
**Brynteg**  
**Anglesey**  
**LL78 7JJ**

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

Name	Date
<b>Holly Noble</b>	<b>16/02/2016</b>

Authorised on behalf of Natural Resources Wales

# Conditions

## 1 Management

### 1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
  - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

### 1.2 Avoidance, recovery and disposal of wastes produced by the activities

- 1.2.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
  - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
  - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.2.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

## 2 Operations

### 2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

### 2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

## **2.3 Operating techniques**

- 2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 2.3.2 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table(s) S2.1 [, S2.2 etc.];
- (b) it conforms to the description in the documentation supplied by the producer and holder;
- (c) its chemical, physical and biological characteristics make it suitable for its intended treatment;
- (d) any excavated soil from potentially contaminated sites has been shown by prior chemical analysis and assessment to be suitable for the intended use without significant risk of pollution; and
- (e) it is visually inspected on arrival and before it enters the treatment process to ensure that it complies with this permit.
- 2.3.3 Any waste that does not comply with 2.3.2 shall be rejected and shall be:
- (a) removed from the site; or
- (b) moved to a designated quarantine area pending removal.
- 2.3.4 Records demonstrating compliance with conditions 2.3.2 and 2.3.3 (including analysis and assessment of any excavated soil from potentially contaminated sites) shall be maintained.

## **3 Emissions and monitoring**

### **3.1 Emissions of substances not controlled by emission limits**

- 3.1.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.1.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;

- (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

3.1.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

## **3.2 Odour**

3.2.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.2.2 The operator shall:

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

## **3.3 Noise and vibration**

3.3.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.3.2 The operator shall:

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

# **4 Information**

## **4.1 Records**

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and



- (d) be retained, unless otherwise agreed in writing by Natural Resources Wales, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
    - (i) off-site environmental effects; and
    - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by Natural Resources Wales.

## **4.2 Reporting**

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 Within one month of the end of each quarter, the operator shall submit to Natural Resources Wales using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

## **4.3 Notifications**

- 4.3.1 Natural Resources Wales shall be notified without delay following the detection of:
  - (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
  - (b) the breach of a limit specified in the permit; or
  - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

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

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

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

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) Natural Resources Wales shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

## **4.4 Interpretation**

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

# Schedule 1 - Operations

**Table S1.1 activities**

Description of activities for waste operations	Limits of activities
<p><b>R13:</b> Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)</p> <p><b>R3:</b> Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)</p> <p><b>R5:</b> Recycling/reclamation of other inorganic materials</p>	<p>Treatment of wastes listed in tables S2.1 and S2.2 consisting only of:</p> <ul style="list-style-type: none"> <li>- sorting;</li> <li>- separation;</li> <li>- screening;</li> <li>- crushing; and</li> <li>- blending</li> </ul> <p>of waste for recovery as a soil, soil substitute or aggregate.</p> <p>Secure storage of wastes listed in tables S2.1 and S2.2 pending treatment.</p> <p>Storage of wastes listed in table S2.1 shall not exceed 40,000 tonnes in total at any one time.</p> <p>Storage of wastes listed in table S2.2 shall not exceed 10,000 tonnes in total at any one time.</p> <p>If the site is located within a groundwater Source Protection Zones 1 or 2, then:</p> <ul style="list-style-type: none"> <li>- wastes listed in Table S2.2 shall be stored and treated on an impermeable surface with a sealed drainage system, and</li> <li>- wastes listed in Table S2.1 may be stored and treated on hard-standing or on an impermeable surface with sealed drainage system.</li> </ul> <p>If the site is located outside a groundwater Source Protection Zones 1 or 2, then wastes listed in tables S2.1 and S2.2 may be stored and treated on hard-standing or on an impermeable surface with sealed drainage system.</p> <p>Treatment of slags and ashes for recovery or a mix of recovery and disposal shall not exceed 75 tonnes per day.</p> <p>Waste types as specified in Table S2.1 and S2.2.</p>

**Table S1.2 Operating techniques**

Description	Parts	Date Received
Guidance Note EPR 1 How to comply with your environmental permit	All	n/a
Additional information received via email on 15/02/16 following requests for information.	Appendix E - Risk Assessment - All sections relating to flood, run-off, dust, particulate matter and litter (lines 1, 2, 4 and 5 (after headers) in table).	15/02/16

## Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities	
<b>Maximum quantity</b>	The maximum quantity for waste to be accepted on site shall not exceed 75,000 tonnes per year.
<b>Exclusions</b>	<p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> <li>consisting solely or mainly of dusts, powders or loose fibres</li> <li>hazardous wastes</li> <li>wastes in liquid form</li> </ul>
Waste code	Description
<b>01</b>	<b>WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS</b>
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
<b>02</b>	<b>WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING</b>
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 02	animal-tissue waste (consisting of shellfish shells from which the soft tissue or flesh has been removed only)
<b>10</b>	<b>WASTES FROM THERMAL PROCESSES</b>
10 01	wastes from power stations and other combustion plants (except 19)
10 01 02	coal fly ash (consisting of pulverised fuel ash only)
10 11	wastes from manufacture of glass and glass products
10 11 12	waste glass other than those mentioned in 10 11 11 (consisting of clean glass only)
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 14	waste concrete and concrete sludge(consisting of waste concrete only)
<b>15</b>	<b>WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED</b>
15 01	packaging (including separately collected municipal packaging waste)
15 01 07	glass packaging (consisting of clean glass only)
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>
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 02	glass (consisting of clean glass only)
17 03	bituminous mixtures, coal tar and tarred products
17 03 02	bituminous mixtures other than those mentioned in 17 03 01 (consisting of road base and road planings (other than those containing coal tar) only)
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 08	track ballast other than those mentioned in 17 05 07

**Table S2.1 Permitted waste types and quantities**

<b>Maximum quantity</b>	The maximum quantity for waste to be accepted on site shall not exceed 75,000 tonnes per year.
<b>Exclusions</b>	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> <li>• consisting solely or mainly of dusts, powders or loose fibres</li> <li>• hazardous wastes</li> <li>• wastes in liquid form</li> </ul>
<b>Waste code</b>	<b>Description</b>
<b>19</b>	<b>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</b>
19 08	wastes from waste water treatment plants not otherwise specified
19 08 02	waste from desanding (consisting of washed sewage grit free from sewage contamination only)
19 08 99	wastes not otherwise specified (consisting of stone filter media if free from sewage contamination only)
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 05	glass (consisting of clean glass only)
19 12 09	minerals (for example sand, stones)
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>
20 01	separately collected fractions (except 15 01)
20 01 02	glass (consisting of clean glass only)
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones

**Table S2.2 Permitted waste types and quantities**

<b>Maximum quantity</b>	The maximum quantity for waste to be accepted on site shall not exceed 75,000 tonnes per year.
<b>Exclusions</b>	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> <li>• consisting solely or mainly of dusts, powders or loose fibres</li> <li>• hazardous wastes</li> <li>• wastes in liquid form</li> </ul>
<b>Waste code</b>	<b>Description</b>
<b>03</b>	<b>WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD</b>
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
<b>10</b>	<b>WASTES FROM THERMAL PROCESSES</b>
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) (consisting of bottom ash and slag only)
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form (consisting of gypsum only)
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form (consisting of gypsum only)
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14 (consisting of bottom ash and slag only from co-incineration only)
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 08	gypsum-based construction material
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01 (consisting of gypsum only)
<b>19</b>	<b>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</b>
19 05	wastes from aerobic treatment of solid wastes
19 05 03	off-specification compost (consisting of compost from source segregated biodegradable waste only)
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 02	sludges from water clarification
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (consisting of treated bottom ash including IBA and slag other than that containing dangerous substances only)
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

## **Schedule 3 - Emissions and monitoring**

There are no emission limits or associated monitoring requirements.

## **Schedule 4 - Reporting**

There is no reporting under this schedule.



## Schedule 5 - Notification

These pages outline the information that the operator must provide.

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

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

### Part A

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

**(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution**

To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

**(b) Notification requirements for the breach of a limit**

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

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

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

## Part B - to be submitted as soon as practicable

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

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* authorised to sign on behalf of the operator

## Schedule 6 - Interpretation

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

*“Annex II”* means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

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

*“authorised officer”* means any person authorised by Natural Resources Wales under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

*“dangerous substances”* means any substance that has been or will be classified as dangerous in Directive 67/548/EEC and its subsequent amendments.

*“emissions of substances not controlled by emission limits”* means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

*“emissions to land”* includes emissions to groundwater.

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

*“groundwater protection zones 1 and 2”* have the meaning given in the document titled "Groundwater Protection: Policy and Practice" published by the Environment Agency in 2006.

*“groundwater”* means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

*“hardstanding”* is a compacted solid surface capable of withstanding the operation and the loading / unloading of wastes.

*“hazardous property”* has the meaning in Annex III of the Waste Framework Directive

*“hazardous substance”* means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

*“hazardous waste”* has the meaning given in the Hazardous Waste (Wales) Regulations 2005 (as amended)

*“IBA”* means incinerator bottom ash derived from the incineration or pyrolysis of waste.

*“impermeable surface”* means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface, and should be read in conjunction with the term “sealed drainage system” (below).

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

*“R”* means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*“sealed drainage system”* in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- (a) no liquid will run off the surface otherwise than via the system;
- (b) except where they may lawfully be discharged to foul sewer, all liquids entering the system are collected in a sealed sump.

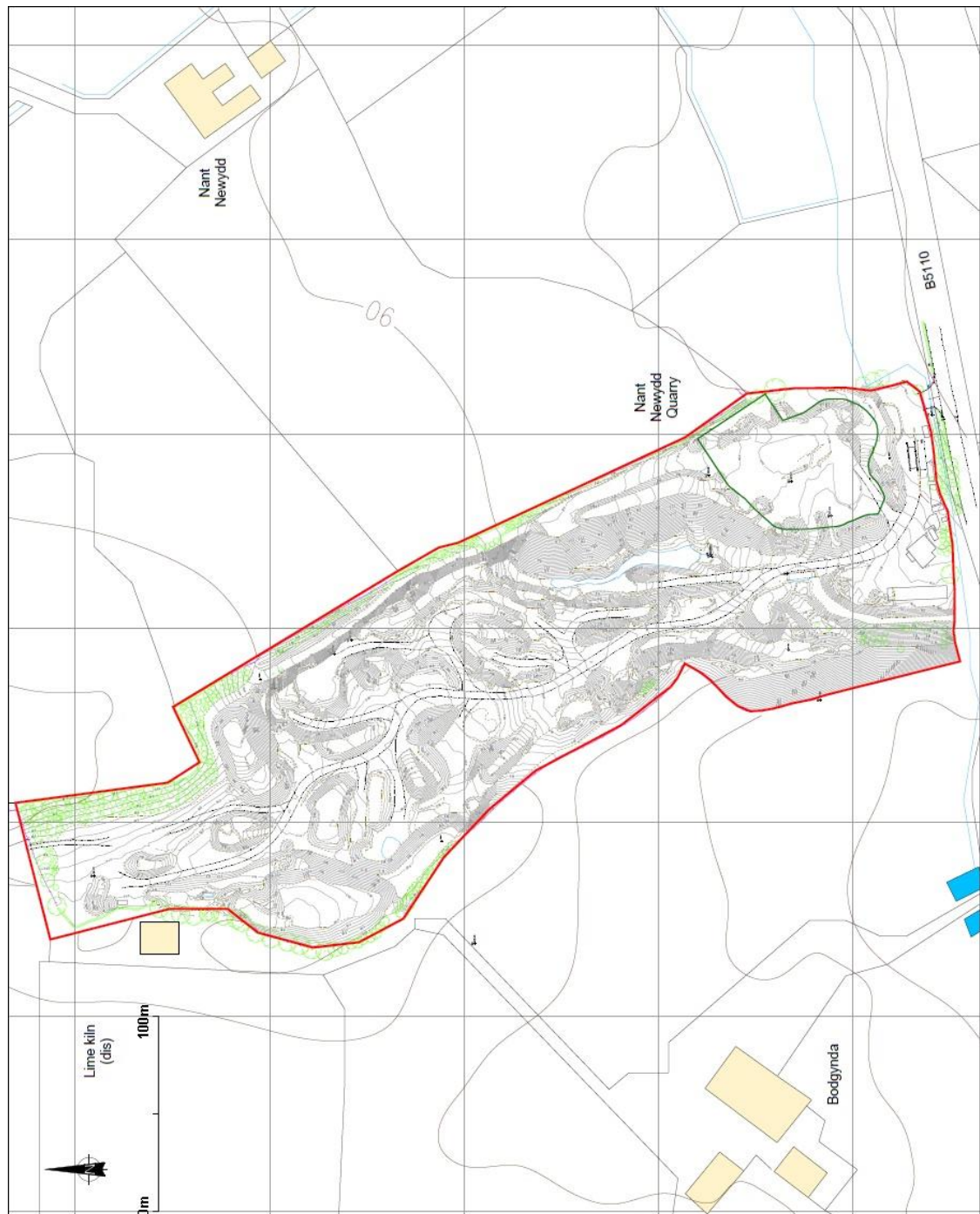
*“secure storage”* means storage where waste cannot escape and members of the public do not have access to it.

“*waste code*” means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the ‘List of Wastes Decision’) and in relation to hazardous waste, includes the asterisk.

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

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

## Schedule 7 - Site plan



END OF PERMIT

**APPENDIX J**  
**EMERGENCY CONTACT DETAILS**

**EMERGENCY CONTACT DETAILS**

<b>Emergency Services</b>	Fire	999	
	Police	999	
	Ambulance	999	
		<b>Office Hours</b>	<b>Out of Hours</b>
<b>Regulator</b>	HSE*	01978 31 6000 (local office Wrexham) 0345 300 9923 (incident reporting)	0151 922 9235 (major incident reporting)
	Local Authority	01248 75 00 57	01248 723062 (highways incidents)
	NRW	0300 065 3000	0300 064 3000 (press 1)
<b>Utilities</b>	Water (Welsh Water)	0800 052 0130	0800 052 0130
	Sewage (Welsh Water)	0800 085 3968	0800 085 3968
	British Gas	0800 111999	0800 111999
	Electric	105	105

\*- Telephone contact only in the event of a major incident or fatality. All other contact to be done online at [www.HSE.gov.uk](http://www.HSE.gov.uk)

[WWW.CAULMERT.COM](http://WWW.CAULMERT.COM)



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