



RHUDDLAN BACH QUARRY LANDFILL
PERMIT VARIATION REPORT
(REF: EPR/FP3590LV)

Ref: 3276/R/004/1

September 2017

Prepared for:

Clive Hurt (Plant Hire) Limited

RHUDDLAN BACH QUARRY LANDFILL

PERMIT VARIATION REPORT

Document Ref: 3276/R/004/1

Date: September 2017



Prepared For:

Clive Hurt (Plant Hire) Ltd.

Sandham House
Redrose Drive
Lancashire Business Park
Leyland
Lancashire
PR26 6TJ

Telephone: 01772 432475
Facsimile: 01772 622398



Prepared By:

TerraConsult Ltd.







Bold Business Centre
Bold Lane
Sutton
St. Helens
WA9 4TX

Telephone: 01925 291111
Facsimile: 01925 291191

DOCUMENT INFORMATION AND CONTROL SHEET

Document Status and Approval Schedule

Report No.	Title
3276/R/003/1	Rhuddlan Bach Quarry Landfill Permit Variation Report

ISSUE HISTORY					
Issue	Status	Date		Signature	Date
1	Draft to Client	September 2017	Prepared By: R. Barlow		04/09/2017
			Checked By: J. Baxter		05/09/2017
			Authorised By: J. Baxter		05/09/2017
1	Issue to NRW	September 2017	Prepared By: R. Barlow		07/09/2017
			Checked By: J. Baxter		07/09/2017
			Authorised By: J. Baxter		07/09/2017

DISCLAIMER

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.

TerraConsult Ltd cannot accept responsibility to any parties whatsoever, following the issue of this report, for any matters arising which may be considered out with the agreed scope of works.

This report is issued solely to the client and TerraConsult cannot accept any responsibility to any third parties to whom this report may be circulated, in part or in full, and any such parties rely on the contents at their own risk.



RHUDDLAN BACH QUARRY LANDFILL

PERMIT VARIATION REPORT

CONTENTS

1. INTRODUCTION	1
1.1 Background	1
1.2 Non-Technical Summary	1
2. APPLICATION FORM PART A	2
2.1 Company Information	2
3 APPLICATION FORM PART C2	2
3.1 Question 2a Type of variation.....	2
3.2 Question 2b Changes or additions to existing activities	2
3.3 Question 3a Relevant Offences	2
3.4 Question 3b Technical Ability	2
3.5 Question 3c Finances	2
3.6 Question 3d Management Systems	3
3.7 Question 4 Consultation.....	3
3.8 Question 5a Provide a plan or plans for the site and Question 5b Extra land to be included in the permit.....	3
3.9 Question 6 Environmental Risk Assessment	3
4 APPLICATION FORM PART C4	3
4.1 Question 1a What activities are you applying to vary?.....	3
4.2 Question 1b What waste types do you want to accept?	3
4.3 Question 1c Deposit for recovery purposes	3
4.4 Question 2 Emissions to air, water and land	4
4.5 Question 3a Technical Standards	4
4.6 Question 3b General Requirements	4
4.7 Question 3c Questions for specific sectors –Appendix 4.....	4
4.8 Question 4 Monitoring	4
5 APPLICATION FORM PART F1	4
5.1 Question 1 Working out charges.....	4
5.2 Question 7 Declaration.....	5

APPENDICES

Appendix A – Application Forms & OPRA

Appendix B – Correspondence

Appendix C – Operator Competence (including WAMITAB & EMS Summary)

Appendix D – Fugitive Particulate Risk Assessment & Management Plan

DRAWINGS

3276/1/001 Site Setting Plan

1. INTRODUCTION

1.1 Background

- 1.1.1 This report has been produced to support a permit variation application to make a minor technical change to the current Rhuddlan Bach Quarry Landfill Environmental Permit (EP) (ref: EPR/FP3590LV, previously WP3132SX prior to 2010 transfer) in order to increase the annual waste inputs to the landfill from 75,000 to 125,000 tonnes per year. This document does not propose any changes which would increase emissions from the installation.
- 1.2.1 This report has been compiled and submitted by TerraConsult Limited (TCL) on behalf of Clive Hurt (Plant Hire) Limited (the operator) and has been prepared to support this minor technical change, and structured to reflect the requirements of the relevant application forms, Parts A, C2, C4 and F1 in Appendix A.

1.2 Non-Technical Summary

- 1.2.2 Rhuddlan Bach Quarry is located to the south of the B5110 close to Brynteg on Anglesey, L78 7JJ, the site entrance to the site is off the B5110. A Site Location Plan (ref: Drawing 3276/1/001) showing the site location and permit boundary accompanies this application.
- 1.2.3 The site is regulated as an inert waste landfill. The permit (ref: WP3132SX) was issued on 16th March 2007 (previously a Waste Management Licence issued in 1999) and transferred to the current operator on 1st February 2010 (ref: EPR/FP3590LV).
- 1.2.4 The site is a landfill occupying the quarry-void resulting from extraction of limestone. Limestone extraction continues within the quarry and the infilling with inert waste and restoration is currently being completed in a phased manner in accordance with the site's planning consent and environmental permit. The site currently has an annual waste input limit of 75,000 tonnes per year of inert waste.
- 1.2.5 This variation application is to allow for the increase of inert waste inputs to 125,000 tonnes per year, to accommodate the increased local demand for inert waste disposal and to allow for the rapid completion of the restoration of the quarry. No overall increase in total disposal capacity is proposed by this permit variation.

2. APPLICATION FORM PART A

2.1 Company Information

- 2.1.1 Application form part A (Appendix A) has been completed using the operator's details to support the minor technical change to permit EPR/FP/3580LV. There will be no change in the site's management or operations as a result of this change.
- 2.1.2 The operator is a registered company on Companies House (company number: 01853066).

3 APPLICATION FORM PART C2

3.1 Question 2a Type of variation

- 3.1.1 The variation application will be a minor technical variation. The type of variation and applicable fee were confirmed via email by the National Resources Wales (NRW) on the 9th August 2017 (see Appendix B).

3.2 Question 2b Changes or additions to existing activities

- 3.2.1 It is proposed to increase annual waste input tonnage of inert waste from 75,000 to 125,000 tonnes per year for Rhuddlan Bach Quarry Landfill.
- 3.2.2 The operator does not intend to consolidate permits or treat batteries at the site. Additionally, the operation is not considered a low impact installation.

3.3 Question 3a Relevant Offences

- 3.3.1 The operator and relevant persons have not been convicted of any relevant environmental offences.

3.4 Question 3b Technical Ability

- 3.4.1 The current CIWM/WAMITAB certificate (No. OCC66426) for the site's technically competent manager, Caroline Barnes, is contained in Appendix C.

3.5 Question 3c Finances

- 3.5.1 The operator and relevant persons have not been subject to any current or past bankruptcy or insolvency proceedings.

3.6 Question 3d Management Systems

- 3.6.1 All operations will be undertaken and managed in accordance with the operator's comprehensive Environmental Management System (EMS). A summary of the EMS is contained in Appendix D.

3.7 Question 4 Consultation

- 3.7.1 There will be no discharge to sewer, harbour or relevant territorial or coastal waters.

3.8 Question 5a Provide a plan or plans for the site and Question 5b Extra land to be included in the permit

- 3.8.1 NRW's guidance notes on '*Part C2 – Varying a bespoke permit*' requests that a revised layout plan be submitted as part of an application if land is being added to the operational area as part of the variation. No additional land is proposed to be involved and the Permitted Boundary will remain unchanged.

3.9 Question 6 Environmental Risk Assessment

- 3.9.1 An additional assessment for fugitive particulates (dust, mud and debris) has been carried out and attached in Appendix D. This report includes a review of the 'source-pathway-receptor' scenario in relation to the potential for additional fugitive particulate emissions, and proposes additional management and monitoring measures to be implemented.

4 APPLICATION FORM PART C4

4.1 Question 1a What activities are you applying to vary?

- 4.1.1 The purpose of this minor technical variation application is to increase the permitted total annual waste input limit for inert waste from 75,000 to 125,000 tonnes per year. Existing disposal and recovery codes currently permitted are to be retained.

- 4.1.2 The total volume of waste to be deposited is to remain unchanged at the site.

4.2 Question 1b What waste types do you want to accept?

- 4.2.1 The types of wastes currently permitted are to remain unchanged as part of this variation.

4.3 Question 1c Deposit for recovery purposes

- 4.3.1 The activity at site is not considered to be a deposit for recovery activity.

4.4 Question 2 Emissions to air, water and land

- 4.4.1 There will be no additional point source emission to those detailed in Schedule 3 of the extant Permit.

4.5 Question 3a Technical Standards

- 4.5.1 All operations will continue to be carried out in accordance with the permitted Technical Standards document which accompanied the original permit application.

4.6 Question 3b General Requirements

- 4.6.1 Future emissions and controls remain unaltered with the exception of particulates (dust, mud and debris) which have been further assessed in the accompanying 'Fugitive Particulate Risk Assessment & Management Plan' attached in Appendix D.
- 4.6.2 Risks from odour, noise, vibration, pests and vermin are to remain unchanged due to the inert nature of the wastes. Additionally, risks from fire are considered negligible.

4.7 Question 3c Questions for specific sectors –Appendix 4

- 4.7.1 Questions 1 to 5 of Appendix 4 of the application form request information not required to support the proposed change of increasing annual inputs to the site and all existing documents remain valid.

4.8 Question 4 Monitoring

- 4.8.1 There are no additional point source emissions that require monitoring and those already identified on site will continue to be controlled and monitored by limits and schedules already specified in Schedule 4 of the current permit (EPR/FP/3580LV). Additional monitoring measures for the management of fugitive particulates are detailed in Appendix D.

5 APPLICATION FORM PART F1

5.1 Question 1 Working out charges

- 5.1.1 The application is for a minor technical variation which incurs a fixed fee to the value of £1,280.00. The existing OPRA spreadsheet has been included with this application, and it is assumed that NRW will update this during their next annual review.

5.1.2 A cheque (No. 114666) to the amount of £1,280 made payable to Natural Resources Wales accompanies this application.

5.2 Question 7 Declaration

5.2.1 The application has been completed in the name of Richard Hurt, as a Director of the operating company Clive Hurt (Plant Hire) Limited.

APPENDIX A

Permit Variation Application Forms & OPRA

Application for an environmental permit:

Part A – About you

<p>Fill in this part A if you are applying for a new permit, applying to change or surrender an existing permit, or want to transfer an existing permit to yourself.</p> <p>Please check that this is the latest version of the form available from our website.</p> <p>Please read through this form and the guidance notes that come with it. All relevant guidance documents can be found on our website.</p> <p>Where you see the term 'document reference' on the form,</p>	<p>give the document references and send the documents with the application form when you've completed it.</p> <p>Contents</p> <p>1 About you</p> <p>2 Applications from individuals</p> <p>3 Applications from organisations of individuals</p> <p>4 Applications from public bodies</p> <p>5 Applications from a registered company or other corporate body</p> <p>6 Your address</p> <p>7 Contact details</p>
---	--

1 About you

Are you applying as an individual, an organisation of individuals (for example, a partnership), a company (this includes Limited Liability Partnerships) or a public body?

- | | | |
|---|-------------------------------------|------------------------|
| An individual | <input type="checkbox"/> | <i>Go to section 2</i> |
| An organisation of individuals (for example, a partnership) | <input type="checkbox"/> | <i>Go to section 3</i> |
| A public body (such as a local council) | <input type="checkbox"/> | <i>Go to section 4</i> |
| A registered company or other corporate body | <input checked="" type="checkbox"/> | <i>Go to section 5</i> |

2 Applications from individuals

2a Please give us the following details

Title	<input type="text"/>	
First name	<input type="text"/>	
Last name	<input type="text"/>	<i>Go to section 6</i>

3 Applications from organisations of individuals

3a Organisation details

Organisation name	<input type="text"/>
Type of organisation	<input type="text"/>
If 'Other', please specify	<input type="text"/>

3b Main representative's details

Title	<input type="text"/>
First name	<input type="text"/>

Last name

3c Second representative's details:

Title

First name

Last name

3d Other representative's details

If relevant, please provide details of all other representatives on a separate sheet and tick here to show that you have done so.

☐

Go to section 6

4 Applications from public bodies

4a Public body details

Public body name

Type of public body

If 'Other', please specify

4b Executive officer's details

The executive is an officer of the public body authorised to sign on your behalf.

Title

First name

Last name

Position

Go to section 6

5 Applications from a registered company or other corporate body

5a Company details

Company name

CLIVE HURT (PLANT HIRE) LIMITED

Company registration number

01853066

Date of registration

05/10/1984

If you are applying as a corporate organisation that is now a limited company, please provide evidence of your status and tell us the reference number you have given this document with this evidence.

Document reference

N/A

Go to section 6

6 Your address

6a Your main (registered office) address

For companies this *must* be the address on record at Companies House.

Address

Sandham House

Redrose Drive

	Lancashire Business Park
	Leyland, Lancashire
Postcode	PR26 6TJ
Telephone - mobile	
Telephone - office	01772 432475
Email address	richard@hurtplant.co.uk

If you are applying as an organisation of individuals, every partner needs to give us their details, including their title. If necessary, continue on a separate sheet and tell us the reference you have given the sheet.

Document reference	N/A
--------------------	-----

6b UK business address *only* if different from above

Address	As above
Postcode	
Telephone - mobile	
Telephone - office	
Email address	

Go to section 7

7 Contact details

7a Who can we talk to about your application?

This can be someone acting as a consultant or 'agent' for you.

Title	Mr
First name	Robert
Last name	Barlow
Address	Terraconsult Limited
	Bold Business Centre
	Bold Lane, Sutton

	St Helens, Merseyside
Postcode	WA9 4TX
Telephone - mobile	
Telephone - office	01925 291111
Email address	robertbarlow@terraconsult.co.uk

7b Who can we talk to about your operation?

Same as the application contact in 7a	<input type="checkbox"/>
Title	Mr
First name	Richard
Last name	Hurt
Address	Sandham House
	Redrose Drive
	Lancashire Business Park
	Leyland, Lancashire
Postcode	PR26 6TJ
Telephone - mobile	
Telephone - office	01772 432475
Email address	richard@hurtplant.co.uk

7c Who can we talk to about your billing or invoice?

Same as the application contact in 7a	<input type="checkbox"/>
Same as the operation contact in 7b	<input checked="" type="checkbox"/>
Title	
First name	
Last name	
Address	

Postcode

Telephone - mobile

Telephone - office

Email address

Application for an environmental permit:

Part C2 – General: Varying a bespoke permit

<p>Fill in this part of the form, together with part A, the relevant parts of C3 to C7 and part F1 or F2.</p> <p>Please check that this is the latest version of the form available from our website.</p> <p>Note: If you are applying to convert your existing permit to a standard permit or add a standard facility you need to fill out form C1.</p> <p>If you want to make an administrative change, you should complete form C0.5.</p> <p>You only need to give us details in this application for the parts of the permit that will be affected (for example, if you are adding a new facility or changing existing ones).</p>	<p>You do not need to resend any information from your original permit application.</p> <p>Please read through this form and the guidance notes that came with it. All relevant guidance documents can be found on our website.</p> <p>Contents</p> <ul style="list-style-type: none"> 1 About the permit 2 About your proposed changes 3 Your ability as an operator 4 Consultation 5 Supporting information 6 Environmental risk assessment Appendix 1 – Low impact installation checklist
--	---

1 About the permit

1a Discussions before your application

If you have had discussions with us before your application, give us the case reference number or details on a separate sheet.

Case or document reference

1b Permit number

Permit number this application relates to?

1c Site details

What is the name, address and postcode of the site?

Site name

Address

Postcode

2 About your proposed changes

2a Type of variation

What type of variation are you applying for? (Please tick)

Standalone water discharge activity or point source groundwater activity ☐

- Minor technical ☒
- Normal variation ☐
- Substantial ☐

2b Provide a non-technical summary of your application

Please give us brief details of all the proposed changes to current activities, and any new activities you want to add to your permit.

You can use the box below, in Table 1 below. Or, you can use a separate sheet and send it to us with your application form. Tell us below the reference you have given this document.

Document reference

3276/R/004-1

Table 1 – Details of the proposed changes

This application is to increase the annual throughput of inert waste from 75,000 tonnes to 125,000 tonnes.

2c Consolidating existing permits into the modern style

Consolidating your permit can mean:

- combining the original permit and all subsequent changes into a single document (modern permit), or
- combining two or more environmental permits for the same operator and site into a single permit.

Note: In both cases we may require additional information from you about, for example your management system. Therefore we would always advise you to talk to us before you submit any application to modernise or consolidate permits.

2c1 Do you want to have a modern style (consolidated) permit?

No ☒ *Go to section 2d*

Yes ☐ *Please note: An additional charge may apply for modernising your permit(s).*

2c2 Identify all the permits you want to consolidate by listing the permit numbers/ versions in Table 2 below.

Table 2 – Permit numbers

2d Low impact installations (installations only)

Are any of the regulated facilities low impact installations?

No ☒ *Go to section 2e*

Yes ☐

Please give us a description of your proposed activity telling us how you meet the conditions for a low impact installation and send it to us with your application form.

Document reference

Tick the box to confirm you have filled in the low impact installation checklist in Appendix 1 for each regulated facility.

☐

2e Treating batteries

Are you planning to treat batteries? (See the guidance notes on part C2.)

No

☒

Yes

☐

Tell us how you will do this, send us a copy of your explanation and tell us the reference you have given this explanation.

Document reference

3 Your ability as an operator

If you are only applying to change or add a water discharge activity, you only have to fill in question 3d.

If you are applying to add waste installations or waste operations to a permit that has not previously had them, you need to fill in all of section 3.

If you are applying to consolidate two or more permits or have an updated permit you must fill in question 3d.

3a Relevant offences - installations and waste operations only (See guidance notes on part C2)

Have you, or any other relevant person, been convicted of any relevant offence?

No

☒

Go to section 3b

Yes

☐

Please give details below

Title

First name

Last name

Date of birth (DD/MM/YYYY)

Position held at the time of the offence

Name of the court where the case was dealt with

Date of conviction (DD/MM/YYYY)

Offence and penalty set

Date any appeal against the conviction will be heard (DD/MM/YYYY)

If necessary, use a separate sheet to give us details of other relevant offences, and tell us below the reference number you have given the extra sheet.

Document reference

3b Technical ability - relevant waste operations only (see the guidance notes on part C2)

3b1 Which approved scheme are you using to show you have the suitable technical skills and knowledge to manage your facility?

CIWM / WAMITAB ☒

ESA / EU ☐

3b2 Do you already hold the relevant, formal qualifications to manage your facility?

Yes ☒ Tick to confirm you've included all original *and* continuing competence evidence. ☒

No ☐ Tick to confirm you've included evidence you've registered with a Scheme. ☐

3c Finances (installations, waste operations and mining waste operations only)

Do you or any relevant person have current or past bankruptcy or insolvency proceedings against you?

No ☒ *Go to section 3d.*

Yes ☐ Please give details of the required set-up (including infrastructure), maintenance and clean up costs for the proposed facility, against which a credit check may be assessed.

Please note: We may want to contact a credit reference agency for a report about your business's finances.

Landfill, Category A mining waste facilities and mining waste facilities for hazardous waste only

How do you plan to make financial provision (to operate a landfill or a mining waste facility you need to show us that you are financially capable of meeting the obligations of closure and aftercare)?

Bonds ☒

Escrow account ☐

Trust fund ☐

Lump sum ☐

Other ☐

Provide a plan of your estimated expenditure on each phase of the landfill or mining waste facility.

Document reference

3d Management systems (all)

You can find guidance on management systems in both 'How to Comply' and 'Horizontal Guidance Note 6 – Environmental Management Systems'. We have also developed environmental management toolkits for some business sectors which you can use to produce your own management system. You can get these by calling 0300 065 3000 or by downloading them from our guidance webpages.

3d1 Does your management system meet the conditions set out in our guidance?

Yes ☒

No ☐

3d2 What management system will you provide for your regulated facility?

EC Eco-Management and Audit Scheme (EMAS) ☐

ISO 14001	<input type="checkbox"/>
BS 8555 (Phases 1–5)	<input type="checkbox"/>
Green Dragon	<input type="checkbox"/>
Own management system	<input checked="" type="checkbox"/>

3d3 Make sure you include a summary of your management system which sets out any changes or additional measures you will put in place to address risks from the proposed changes. ☒
Tick the box to confirm you've done this and tell us the reference below.

Document reference

3276/R/004-1, Appendix C

Water discharge activities: Go to section 5.

4 Consultation (fill in 4a to 4c for installations and waste operations and 4d for installations only)

Could the waste operation or installation involve releasing any substance into any of the following?

4a A sewer managed by a sewerage undertaker

No ☒

Yes ☐ Please name the sewerage undertaker

4b A harbour managed by a harbour authority

No ☒

Yes ☐ Please name the harbour authority

4c Direct into relevant territorial waters or coastal waters within the sea fisheries district of a local fisheries

No ☒

Yes ☐ Please name the fisheries committee

4d Is the installation on a site for which:

4d1 a nuclear site licence is needed under section 1 of the Nuclear Installations Act 1965?

No ☒

Yes ☐

4d2 a policy document for preventing major accidents is needed under regulation 5 of the Control of Major Accident Hazards

No ☒

Yes ☐

5 Supporting information

5a Provide a plan or plans for the site (see guidance notes on part C2 for what needs to be marked on the plan)

Document reference

3276/R/004-1

5b Do any of the variations you plan to make need extra land to be included in the permit?

No ☒

Yes ☐ Please provide a site report for the extra land.

Document reference

N/A

5c Adding an installation

If you are applying to add an installation, tick the box to confirm that you have sent in a baseline report and provide a reference.

☐

Document reference

N/A

6 Environmental risk assessment - if you need one (see the guidance notes on part C2)

Provide an assessment of the risks each of your proposed activities cause to the environment. The risk assessment must use H1 or an equal method.

Document reference

3276/R/004 Appendix D

Appendix 1 – Low impact installation checklist (see guidance notes on part C2)

Intallation reference					
Condition	Response			Do you meet this?	
A – Management techniques	Provide references to show how your application meets A.			Yes	<input type="checkbox"/>
	References			No	<input type="checkbox"/>
B – Aqueous waste	Effluent created	m3/day		Yes	<input type="checkbox"/>
				No	<input type="checkbox"/>
C – Abatement systems	Provide references to show how your application meets C.			Yes	<input type="checkbox"/>
	References			No	<input type="checkbox"/>
D - Groundwater	Do you plan to release any hazardous substances or non-hazardous pollutants into the ground?	Yes	<input type="checkbox"/>	Yes	<input type="checkbox"/>
		No	<input type="checkbox"/>	No	<input type="checkbox"/>
E – Producing waste	Hazardous waste	Tonnes per year		Yes	<input type="checkbox"/>
	Non-hazardous waste	Tonnes per year		No	<input type="checkbox"/>
F – Using energy	Peak energy consumption	MW		Yes	<input type="checkbox"/>
				No	<input type="checkbox"/>
G – Preventing accidents	Do you have appropriate measures to prevent spills and major releases of liquids? (See 'How to comply'.)	Yes	<input type="checkbox"/>	Yes	<input type="checkbox"/>
		No	<input type="checkbox"/>	No	<input type="checkbox"/>
	Provide references to show how your application meets G.				
H - Noise	Reference			Yes	<input type="checkbox"/>
				No	<input type="checkbox"/>
I - Emissions of polluting substances	Provide references to show how your application meets I.			Yes	<input type="checkbox"/>
	Reference			No	<input type="checkbox"/>
J – Odours	Provide references to show how your application meets J.			Yes	<input type="checkbox"/>
	Reference			No	<input type="checkbox"/>
K – History of keeping to the regulations	Say here whether you have been involved in any enforcement action as described in Compliance History Appendix 1 explanatory notes.	Yes	<input type="checkbox"/>		
		No	<input type="checkbox"/>		

Application for an environmental permit:

Part C4 – Varying a bespoke waste operation permit

<p>Fill in this part of the form, together with parts A, C2 and F1, if you are applying to vary (change) the conditions or any other part of the permit.</p> <p>Please check that this is the latest version of the form available from our website.</p> <p>You only need to give us details in this application for the parts of the permit that will be affected (for example, if you are adding a new facility or making changes to existing ones).</p> <p>You do not need to resend any information from your original permit application if it is not affected by your proposed changes.</p> <p>Please read through this form and the guidance notes that</p>	<p>came with it. All relevant guidance documents can be found on our website.</p> <p>Contents</p> <p>1 What waste operations are you applying to vary?</p> <p>2 Emissions to air, water and land</p> <p>3 Operating techniques</p> <p>4 Monitoring</p> <p>Appendix 1 – Specific questions for waste facilities that accept clinical waste</p> <p>Appendix 2 – Specific questions for waste facilities that accept hazardous waste</p> <p>Appendix 3 – Specific questions for the recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes</p> <p>Appendix 4 – Specific questions for inert landfills</p>
---	--

1 About your activities

1a What waste operations are you applying to vary?

Fill in Table 1a with details of what you are applying to vary.

Fill in a separate table for each waste operation you are applying to vary. Use a separate sheet if you have a long list and send it to us with your application form.

Tell us the document reference.

Document reference

3276/R/004-1

Notes to help you complete Table 1a:

1 This is the type of activity you are permitted to carry out. For example, household, commercial and industrial waste transfer or in-vessel composting.

2 Use the description from the guidance. Include any extra detail that you think would help to accurately describe the activity.

3 The R (recovery) and D (disposal) codes are as set out in Annex I and/or Annex II of the European Waste Framework Directive (as amended).

4 By 'capacity', we mean:

- the total landfill capacity (cubic metres) for landfills
- the total treatment capacity (tonnes each day) for waste treatment
- the total storage capacity (tonnes) for waste storage operations.

5 By 'total storage capacity', we mean the maximum amount of waste, in tonnes, you are able to store on the site at any one time.

Table 1a – Waste operations which do not form part of an installation				
Waste operation name (See note 1)	Description of the waste operation (See note 2)	Annex I or Annex II (disposal and recovery) codes (See note 3)	Hazardous waste treatment capacity (if this applies). (See note 4)	Non-hazardous waste treatment capacity (if this applies). (See note 4)
Rhuddlan Bach Quarry Landfill Site	Inert Landfill	D1	0	0
For all waste operations	Total storage capacity of non-hazardous waste (see note 5)	Total storage capacity of hazardous waste (see note 5)		Total annual throughput (tonnes each year)
	0	0		125,000

1b What waste types do you want to accept?

For each line in Table 1a, fill in a separate document to list those types of waste you will accept onto site for that activity. Give the List of Wastes catalogue code and description.

If you need to exclude wastes from your activity or facility by restricting the description, quantity, physical nature, hazardous properties, composition or characteristic of the waste, include these in the document. Send it to us with your application form.

If you want to accept any waste with a code ending in 99, you must provide more information and a full description in the document.

You can use Table 1b as a template.

Please provide the reference for each document.

Document references

3276/R/004-1

Table 1b – Template example: types of waste accepted and restrictions	
Waste code	Description of waste
Example	Example
02 01 08*	Agrochemical waste containing dangerous substances
06 01 02*	Hydrochloric acid

1c Deposit for recovery purposes (see guidance notes on part C4)

1c1 Are you applying for a waste recovery activity involving the permanent deposit of waste in or on land, for construction, restoration or land reclamation?

No ☒ *Go to section 2*

Yes ☐

1c2 Have we confirmed that we believe the activity is waste recovery?

No ☐ *We recommend you confirm the activity is recovery with us, before you apply.*

Yes ☐

1c3 Have there been any changes to your proposal since the pre-application discussion?

No ☐

Yes ☐ *We recommend you confirm the effect of changes with us, before you apply.*

1c4 Please send us a copy of your waste recovery plan that complies with the guidance on waste recovery plans and permits. You can access this guidance via the guidance pages of our website.

Document reference

N/A

2 Emissions to air, water and land

Fill in Table 2 below with details of the emissions that result from the operating techniques at each of your waste operations (activities).

Fill in one table for each waste operation (activity). You can use Table 2 as a template. Please provide the reference for each document.

Document references

3276/R/004-1

Table 2 – Emissions (releases)				
Waste operation name		Rhuddlan Bach Quarry Landfill		
Point source emissions to air				
Emission point reference and location	Source	Parameter	Quantity Unit	Unit
N/A				
Point source emissions to water (other than sewers)				
Emission point reference and location	Source	Parameter	Quantity Unit	Unit
N/A				
Point source emissions to sewers, effluent treatment plants or other transfers off site				
Emission point reference and location	Source	Parameter	Quantity Unit	Unit
N/A				
Point source emissions to land				
Emission point reference and location	Source	Parameter	Quantity Unit	Unit
N/A				

3 Operating techniques

3a Technical standards

Fill in Table 3a for each operation you refer to in Table 1a above, and list the relevant technical guidance note (TGN) or notes you are planning to use. If you are planning to use the standards set out in the TGN, there is no need to justify using them.

You must justify your decisions in a separate document if:

- there is no technical standard;
- the technical guidance provides a choice of standards; or
- you plan to use another standard.

This justification could include a reference to the Environmental Risk Assessment provided in section 7 of part C2 (General bespoke permit) of the application form. The documents should summarise the main measures you use to control the main issues identified in the H1 assessment or technical guidance.

For each of the activities listed in Table 3a, describe the type of operation and the options you have chosen for controlling emissions from your process.

Fill in one table for each waste operation (activity). You can use Table 3a as a template.

Please provide the reference for each document.

Document references

3276/R/004-1

Table 3a – Technical standards		
Waste operation name		
Description of waste operation	Relevant technical guidance note. You will need to refer to 'How to comply' for all permits.	Document reference (if appropriate)
	'How to comply'	
Inert Landfill	Inert Waste Guidance	N/A

If appropriate, use block diagrams to help describe the operation and process. Give the document references you use for each diagram and description.

Document references

N/A

3b General requirements

Fill in a separate Table 3b for each waste operation (activity). You can use Table 3b as a template. Please provide the reference for each document.

Document references

3276/R/004-1

Table 3b – General requirements	
Waste operation name	Rhuddlan Bach Quarry Landfill
If the TGN or H1 assessment shows that emissions of substances not controlled by emission limits are an important issue, send us your plan for managing them	Document reference or references 3276/R/004 Appendix D
If the TGN or H1 assessment shows that odours are an important issue, send us your odour management plan	Document reference or references 3276/R/004 Appendix D
If the TGN or H1 assessment shows that noise or vibration are important issues, send us your noise or vibration management plan (or both)	Document reference or references 3276/R/004 Appendix D
If our fire prevention guidance or your H1 assessment shows that fire risk is an important issue, send us your fire management plan	Document reference or references N/A

3c Information for specific sectors

For some of the sectors, we need more information to be able to set appropriate conditions in the permit. For those activities listed below, you must answer the questions in the related Appendix.

Table 3c – Questions for specific sectors	
Sector	Appendix
Clinical waste	See the questions in appendix 1
Hazardous waste recovery and disposal	See the questions in appendix 2
Recovery to land for agricultural benefit of compost like outputs from the treatment of municipal mixed wastes	See the questions in appendix 3
Inert landfill	See the questions in appendix 4

4 Monitoring

4a Describe the measures you use to monitor emissions by referring to each emission point in Table 2 above

You should also describe any environmental monitoring. Tell us:

- how often you use these measures;
- the methods you use; and
- the procedures you follow to assess the measures.

Document references

3276/R/004-1

4b Point source emissions to air only

Provide an assessment of the sampling locations used to measure point source emissions to air. The assessment must use Technical Guidance Note M1 (Monitoring). This is available in the Guidance section on our Website.

Document references

N/A

Appendix 1 – Specific questions for the clinical waste sector

Note: If your procedures are fully in line with the standards set out in EPR 5.07 then you should tick the 'yes' box and provide the procedure reference. There is no need for you to supply a copy of the procedure.

1 Are pre-acceptance procedures in place that are fully in line with the appropriate measures set out in section 2.2 of EPR 5.07 and which are used to assess a waste enquiry before it is accepted at the facility?

No	<input type="checkbox"/>	Provide justification for departure from EPR 5.07 and submit a copy of the procedures	
		Document reference	
Yes	<input type="checkbox"/>	Document reference	

2 Are waste acceptance procedures in place that are fully in line with the appropriate measures set out in section 2.2 of EPR 5.07, and which are used to cover issues such as loads arriving and being inspected, sampling waste, rejecting waste, and keeping records to track waste?

No	<input type="checkbox"/>	Provide justification for departure from EPR 5.07 and submit a copy of the procedures	
		Document reference	
Yes	<input type="checkbox"/>	Document reference	

3 Are waste storage, handling and dispatch procedures, and infrastructure in place that are fully in line with the appropriate measures set out in section 3.2 of EPR 5.07?

No	<input type="checkbox"/>	Provide justification for departure from EPR 5.07 and submit a copy of the procedures	
		Document reference	
Yes	<input type="checkbox"/>	Document reference	

4 Are monitoring procedures in place that are fully in line with the appropriate measures set out in section 3.3 of EPR 5.07?

No	<input type="checkbox"/>	Provide justification for departure from EPR 5.07 and submit a copy of the procedures	
		Document reference	
Yes	<input type="checkbox"/>	Document reference	

5 Are you proposing to either

- accept an additional waste not included in Table 2.1 of section 2.1 of EPR 5.07, or
- apply a permitted activity to a waste other than that identified for that waste in Table 2.1?

No	<input type="checkbox"/>		
Yes	<input type="checkbox"/>	You must provide justification	
		Document reference	

6 Please provide a summary description of the treatment activities undertaken on the facility. This should cover the general principles set out in section 2.1.4 of EPR 5.07

Document references	
---------------------	--

7 Please provide layout plans detailing the location of each treatment plant and main plant items and process flow

Document references	
---------------------	--

Appendix 2 – Specific questions for the hazardous waste recovery and disposal sector

Note: If your procedures are fully in line with the standards set out in SGN 5.06 then you should tick the 'yes' box and provide the procedure reference. There is no need for you to supply a copy of the procedure.

1 Are pre-acceptance procedures in place that are fully in line with the appropriate measures set out in section 2.1.1 of SGN 5.06, and which are used to assess a waste enquiry before it is accepted at the facility?

No ☐ Provide justification for departure from SGN 5.06 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

2 Are waste acceptance procedures in place that are fully in line with the appropriate measures set out in section 2.1.2 of SGN 5.06, and which are used to cover issues such as loads arriving and being inspected, sampling waste, rejecting waste, and keeping records to track waste?

No ☐ Provide justification for departure from SGN 5.06 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

3 Are waste storage procedures and infrastructure in place that are fully in line with the appropriate measures set out in section 2.1.3 of SGN 5.06?

No ☐ Provide justification for departure from SGN 5.06 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

4 Provide a layout plan giving details of where the facility is based, the infrastructure in place (including areas and structures for separately storing types of waste which may be dangerous to store together) and capacity of waste storage areas and structures

Document references

5 Provide a summary of the treatment activities carried out on the facility. This should cover the general principles set out in section 2.1.4 of SGN 5.06 and the specific principles set out in sections 2.1.5 to 2.1.15 as appropriate of SGN 5.06

Document references

6 Provide layout plans giving details of where each treatment plant is based, the main items at each plant, and process flow diagrams for the treatment plant

Document references

Appendix 3 – Specific questions for the recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes

1 Provide an accurate and reliable characterisation of your compost like outputs (CLO). This should be based on sampling and analysis of the CLO produced by the mechanical, biological treatment (MBT) process over a 12 month period and in accordance with section 2 of TGN 6.15

Document references

2 Provide an agricultural benefit assessment for the use of your CLO. This should be based on section 2 of TGN 6.15 and should be signed and dated by an appropriate technical expert

Document references

3 Provide a site specific risk assessment of risks to soil and food chain receptors. This should be based on Schedule 2 of TGN 6.15 and include a map with a green outline showing the boundary of the area being treated and include:

- locations where the waste will be stored and spread;
- any spring, well or borehole used to supply water for domestic or food production purposes that is within 250 metres of the area being treated;
- any spring, well or borehole not being used for domestic or food production purposes that is within 50 metres of the area being treated;
- any European designated sites (candidate or Special Area of Conservation, proposed or Special Protections Area in England and Wales or Ramsar Site) or Sites of Special Scientific Interest (SSSI) which are within 500 metres of the place where waste is to be stored or spread;
- the location of public rights of way;
- any Groundwater Source Protection Zones;
- surface watercourses;
- any buildings or houses within 250 metres of the area being treated;
- land drains within the boundary.

Document references

4 Are the technical standards and measures fully in line with those set out in section 3 of TGN 6.15?

Yes ☐

No ☐ Provide justification for departure from TGN 6.15 and a copy of the proposed technical standards, measures or procedures.

Document reference

Appendix 4 – Specific questions for inert landfills

1 Provide your Environmental Setting and installation Design (ESID) report

Document references

N/A

2 Have you completed a hydrogeological risk assessment (HRA) for the site?

No ☒

Yes ☐ Document reference

Note: For inert landfills, this is only necessary in certain cases. Refer to our guidance 'Environmental Permitting Regulations: Inert Waste Guidance, Standards and Measures for the Deposit of Inert Waste on Land'. This can be downloaded from our guidance webpages.

3 Provide your stability risk assessment (SRA) for the site

Document reference

N/A

4 Have you completed a landfill gas risk assessment (LFGRA) for the site?

No ☐

Yes ☐ Document reference

N/A

Note: For inert landfills, this is only necessary in certain cases. Refer to guidance 'Environmental Permitting Regulations: Inert Waste Guidance, Standards and Measures for the Deposit of Inert Waste on Land'. This can be downloaded from our guidance webpages.

Templates for these four reports can be found using the links on our Guidance Webpages.

5 Provide your proposed plan for closing the site and your procedures for looking after the site once it has closed

Document references

N/A

Application for an environmental permit:

Part F1 – Opra, charges and declarations

<p>Fill in this part for all applications for installations, waste operations, mining waste operations and groundwater discharges onto land.</p> <p>Please check that this is the latest version of the form available from our website.</p> <p>For applications for water discharge and point source groundwater discharge activities you need to fill in part F2 instead.</p> <p>Please read through this form and the guidance notes that</p>	<p>came with it. All relevant guidance documents can be found on our website.</p> <p>Contents</p> <p>1 Working out charges</p> <p>2 Opra profile (electronic)</p> <p>3 Payment</p> <p>4 The Data Protection Act 1998</p> <p>5 Confidentiality and national security</p> <p>6 Application checklist</p> <p>7 Declaration</p>
--	---

1 Working out charges (you must fill in this section)

You have to submit an application fee with your application. You can find out the charge by looking at our current environmental permitting charging scheme. This can be found on our 'How we regulate you' webpages. Please remember that the charges are revised on 1 April each year and that there is an annual subsistence charge (for site based permis) to cover the costs we incur in the ongoing regulation of the permit.

Examples: We have included examples to help you complete the table. The Tier 2 charge example is for an application for a 'New standard rule' permit. The Tier 3 charge example is for an installation Opra based charge for a normal variation (multiplier) application.

Note: for Opra charged Tier 3 Facilities you also need to complete an Opra profile (see section 2).

Table 1 – Working out charges				
Type of application	Minor Technical Variation			
	Summary of charges			
Tier 2 facilities (including Part A(2) and Part B)	Charge identifier	Number of facilities	Charge for each facility (£)	Charges due (£)
EXAMPLE: SR2010 No12	S060A (W)	1	1,630.00	1,630.00
Tier 3 facilities				
EXAMPLE: Total Opra charging score for installations	90	x charge multiplier	57	5,130.00
Total Opra charging score for installations		x charge multiplier		
Total Opra charging score for waste operations		x charge multiplier		
Total Opra charging score for mining waste facilities				
Other charges (such as one-off assessments or fixed charge applications etc.)				1,280.00
Total charges due				1,280.00

2 Opra profile (does not apply to standard facilities, or other tier 2 permit applications)

If you are submitting a bespoke application, you must include a completed electronic copy in Excel of the *current* Opra spreadsheet. You can find the current Opra spreadsheet in the 'Our charges' section on our 'How we regulate you' webpages.

For all variations, full and partial surrenders: you will need to submit a copy of your current Opra profile based on your existing profile, not a new profile following the variation or surrender.

For transfers: you will need to submit a revised Opra profile to include your own operator performance. Note: this will not change the set transfer fee.

Important: your Opra profile (score) must match our records. If you are unsure about your current Opra profile (score), you should talk to your regulatory officer before submitting your application.

Tick this box to confirm that you have included the electronic OPRA spreadsheet

☐

3 Payment

3a How do you want to pay?

Tick an option below to show how you will pay.

- | | | |
|---|-------------------------------------|-------------------------|
| Electronic transfer (for example, BACS) | <input type="checkbox"/> | <i>Go to section 3b</i> |
| Credit or Debit card | <input type="checkbox"/> | <i>Go to section 3c</i> |
| Cheque | <input checked="" type="checkbox"/> | <i>Go to section 3d</i> |
| Postal order | <input type="checkbox"/> | <i>Go to section 3d</i> |

3b Paying by electronic transfer

If you choose to pay by electronic transfer use the following information to make your payment.

Company name: Natural Resources Wales

Company address: Income Dept., PO BOX 663, Cardiff, CF24 0TP

Bank: RBS

Address: National Westminster Bank Plc, 2 ½ Devonshire Square, London, EC2M 4BA

Sort code: 60-70-80

Account number: 10014438

Reference number

You can use any reference number but we prefer the number to be 'EPR' followed by the first nine letters of your organisation name followed by a four-digit number.

For example, for a company named Joe Bloggs Ltd, the reference number might be EPRJOEBLOGGS0001. (Remember you can use any four-digit number at the end.)

The reference number you will provide will appear on our bank statements so we can check your payment. We may need to contact your bank to make sure the reference number is quoted correctly.

You should also email your payment details and payment reference number to banking.team@naturalresourceswales.gov.uk / banking.team@cyfoethnaturiolcymru.gov.uk or fax it to 0300 065 3001 and enter it in the space provided below.

BACS reference

n/a

Amount paid

n/a

Making payments from outside the UK

These details have changed. If you are making your payment from outside the United Kingdom (which must be received in sterling), our IBAN number is GB70 NWBK6070 8010 0144 38 and our SWIFT/BIC number is NWBKGB2L.

If you do not quote your payment reference number, there may be a delay in processing your payment and application.

3c Paying by credit or debit card

If you are paying by credit or debit card, please fill in the separate form CC1.

You can download this from our website or you can ask for one of our customer service providers to send one by post. We will destroy your card details once we have processed your payment. We can accept payments by Visa, MasterCard or Maestro UK card only.

3d Paying by cheque or postal order

You should make cheques or postal orders payable to Natural Resources Wales and they should be marked 'A/c Payee'.

We will not accept post-dated cheques (cheques with a future date written on them).

Cheque/ postal order number	114666
Amount paid	1280.00

4 The Data Protection Act 1998

We, the Natural Resources Body for Wales (hereafter "Natural Resources Wales"), will process the information you provide so that we can:

- deal with your application;
- make sure you keep to the conditions of the licence, permit or registration;
- process renewals; and
- keep the public registers up to date.

We may also process or release the information to:

- offer you documents or services relating to environmental matters;
- consult the public, public organisations and other organisations (for example, the Health and Safety Executive, local authorities, the emergency services, the Department for Environment, Food and Rural Affairs) on environmental issues;
- carry out research and development work on environmental issues;
- provide information from the public register to anyone who asks;
- prevent anyone from breaking environmental law, investigate cases where environmental law may have been broken, and take any action that is needed;
- assess whether customers are satisfied with our service, and to improve our service; and
- respond to requests for information under the Freedom of Information Act 2000 and the Environmental Information Regulations 2004 (if the Data Protection Act allows). We may pass the information on to our agents or representatives to do these things for us.

5 Confidentiality and national security

We will normally put all the information in your application on a public register of environmental information. However, we may not include certain information in the public register if this is in the interests of national security, or because the information is confidential

Confidentiality

You can ask for information to be made confidential by enclosing a letter with your application giving your reasons. If we agree with your request, we will tell you and not include the information in the public register. If we do not agree with your request, we will let you know how to appeal against our decision, or you can withdraw your application.

Only tick the box below if you wish to claim confidentiality for your application.

Please treat the information in my application as confidential ☐

Tick the box to confirm you have provided evidence to support your confidentiality claim and give us the document reference, below. ☐

Document reference

N/A

National security

You can tell the Welsh Ministers that you believe including information on a public register would not be in the interests of national security.

You must enclose a letter with your application telling us that you have told the Welsh Ministers and you must still include the information in your application. We will not include the information in the public register unless the Welsh Ministers decides that it should be included.

You can find guidance on national security in 'Core Environmental Permitting Guidance' published by Defra and available via the .Gov website.

You cannot apply for national security via this application.

6 Application checklist (you must fill in this section)

Tell us about the supporting evidence and information you have sent with this application.

Application fee - You must submit the correct application fee in line with our current charging scheme.

Tick the box to say you have included the correct fee.



List all the documents you have included in Table 2. Please see the guidance notes for examples on how to complete the checklist.

If the relevant information for a question forms part of a larger document, please specify the relevant section(s) of the document. This will speed up the process of checking your application and making decisions.

If necessary, continue on a separate sheet and tell us the reference you have given the document below.

Document reference

3276/R/004-1

Table 2 – application checklist		
Question reference	Document title/ reference	Document section
All Questions	RHUDDLAN BACH QUARRY LANDFILL	ALL SECTIONS
	PERMIT VARIATION REPORT / 3276/R/004-1	

7 Declaration

You must read this section before making the declaration and sending your form to us.

For transfer applications - Both you and the person receiving the permit must make the declaration.

Section 7d must be completed by the current holder *and* Section 7e must be completed by the proposed new holder.

A relevant person should make the declaration. You must be a relevant person or have the authority of a relevant person to sign this application on their behalf.

Relevant people means each applicant, and in the case of a company, a director, manager, company secretary or any similar officer or employee listed on current appointments in Companies House. In the case

of a Limited Liability Partnership (LLP), it includes any partner. If the permit holder is an organisation of individuals, each individual (or individual trustee) must complete the declaration.

To simplify and speed up the application process we recommend that the declaration is filled in by an officer of a company or one of the partners in a Limited Liability Partnership (LLP).

If you wish a manager, employee or consultant etc. to sign the declaration on behalf of a relevant person, we will need written confirmation from a relevant person; that is, an officer of the company, a partner in the LLP or the individual, confirming that the person has the authority to fill in the declaration.

If you are joint permit holders you should each fill in your own declaration. We have provided extra spaces for this below. Please send in a separate sheet with your application if you need more room for signatories.

Where the operator is the subject of any insolvency procedure, the declaration must be filled in by the official receiver/appointed insolvency practitioner.

7a Are you signing the form on *behalf* of a relevant person?

If you are *not* a relevant person, but want to sign the application on their behalf, you must include confirmation that you can do this.

I have included written confirmation from a relevant person to confirm I can sign on their behalf. ☐

7b Does your application include a standard facility?

If your application includes a standard facility, you also need to confirm that you are able to meet all relevant criteria of the standard rule set/sets for which you are applying.

I confirm that my standard facility will fully meet the rules that I have applied for. ☐

7c Does your application include ecological survey information?

If your application includes ecological survey information, please see the guidance notes on part F1 and tick the box below to confirm that you have no issue with us using information from any ecological survey you have supplied with your application.

I confirm I am happy for the ecological survey information I have supplied to be used as set out in the guidance. ☐

7d Declaration

If you're transferring the permit, the current holder or holders should sign this section of the declaration, and the proposed new holder or holders of the permit should sign the declaration in section 7e.

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 below, you are confirming that you understand and agree with the declaration above.

Title	<input type="text"/>	<input type="text"/>
First name	<input type="text"/>	
Last name	<input type="text"/>	
On behalf of (if relevant)	<input type="text"/>	
Today's date	<input type="text"/>	

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 below, you are confirming that you understand and agree with the declaration above.

Title	Mr	Director
First name	Richard	
Last name	Hurt	
On behalf of (if relevant)	Clive Hurt (Plant Hire) Limited	
Today's date	06/09/2017	

7e Declaration for the person or persons *receiving* the permit (transfers only)

The persons 'receiving the permit' is the proposed new permit holder.

Note: If you cannot trace a person or persons holding the permit you may be able to transfer the permit without their declaration (in section 7d above). Please contact us to discuss this and supply evidence in your application to confirm you are unable to trace one or all of the permit holders.

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 below, you are confirming that you understand and agree with the declaration above.

Title		
First name		
Last name		
On behalf of (if relevant)		
Today's date		

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 below, you are confirming that you understand and agree with the declaration above.

Title	Mr	Director
First name	Richard	
Last name	Hurt	
On behalf of (if relevant)	Clive Hurt (Plant Hire) Limited	
Today's date	06/09/2017	

APPENDIX B

Relevant Correspondence

Robert Barlow

Sent: 14 August 2017 11:33
To: John Baxter
Cc: Richard Hurt; Phil Roberts
Subject: RE: Nant Newydd Quarry / Rhuddlan Bach Quarry

Dear John,

Thank you for your email re: Nant Newydd and Rhuddlan Bach quarry. I had a look at the charging table and the figures you have quoted appears to be correct. As these are existing permits, you will need to quote the permit numbers as the reference number on the relevant application forms.

If you need any further information please contact me. Thanks very much.

Regards,
Mefty Haider
Swyddog Amgylchedd/Environment Officer
Cyfoeth Naturiol Cymru / Natural Resources Wales
Ffôn/Tel: **03000 65 3696** Ext: 3696
Dysgwr Cymraeg
Swyddfa / Office: Maes y Ffynnon, Penrhosgarnedd, Bangor, Gwynedd LL57 2DW
Gwefan / Website: cyfoethnaturiol.cymru / naturalresources.wales

Yn falch o arwain y ffordd at ddyfodol gwell i Gymru trwy reoli'r amgylchedd ac adnoddau naturiol yn gynaliadwy.
Proud to be leading the way to a better future for Wales by managing the environment and natural resources sustainably.

Twitter: twitter.com/NatResWales
Facebook: facebook.com/NatResWales
Flickr: flickr.com/NatResWales
Youtube: youtube.com/NatResWales

Croesewir gohebiaeth yn y Gymraeg a'r Saesneg / Correspondence welcomed in both Welsh and English.

From: John Baxter [mailto:johnbaxter@terraconsult.co.uk]
Sent: 09 August 2017 11:12
To: Haider, Mefty <Mefty.Haider@cyfoethnaturiolcymru.gov.uk>
Cc: Richard Hurt <richard@hurtplant.co.uk>; philroberts@terraconsult.co.uk
Subject: Nant Newydd Quarry / Rhuddlan Bach Quarry

Good Morning Mefty

I hope you are well.

Thank you for supplying copies of the relevant permits for the activities authorised at Nant Newydd Quarry.

We have been instructed by the new owners of Nant Newydd Quarry to effect the transfers of the existing permits, therefore I would be grateful for confirmation of the appropriate application fees and issue of pre-application reference numbers.

We understand that the application fees are as follows:

Transfer Station Permit – EPR/AB3095CJ – Tier 2 Standard Rules - £974 (Table 18 of the Charging Scheme)

Inert Landfill Permit – RP3337SE – Tier 3 Waste Operation - £1,999 (Table 24 of the Charging Scheme)

In addition to the transfers of the above permits it is also proposed to vary Rhuddlan Bach Quarry Permit (WP3132SX) to increase annual input rates from 75,000 t/yr to 125,000 t/yr. We consider this to be a Minor Technical Variation subject to the standard fee of £1,280 (Table 6, example 7 of the Charging Scheme). I would therefore be grateful for confirmation of this as the correct application fee and issue of a pre-application number.

Should you wish to discuss any the points raised above please feel free to call me.

All the best

John Baxter

Director

Tel: 01925 291111

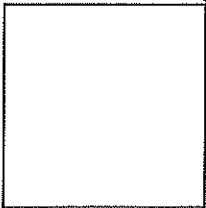
Mobile: 07872 373318

St Helens: Bold Business Centre, Bold Lane, Sutton, St. Helens, WA9 4TX **Tel:** +44 (0)1925 291111

Colchester: Dugard House, Peartree Road, Colchester, Essex, CO3 0UL **Tel:** +44 (0)1206 585600

Email: mailbox@terraconsult.co.uk

Website: www.terraconsult.co.uk



Regards,

Robert Barlow

Senior Waste Regulation Consultant

APPENDIX C

Operator competence



Certificate No. OCC66426

Operator Competence Certificate

Title:

Inert Landfills (Open) (4MLIO6)

This Certificate is awarded to

Caroline Elaine Barnes

Awarded: 14/12/2015

Authorised

WAMITAB Chief Executive Officer

CIWM Chief Executive Officer

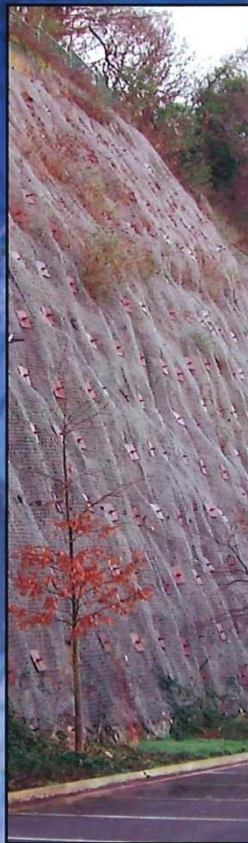
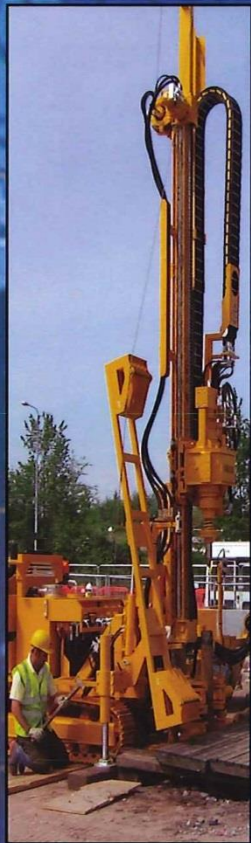


The Chartered Institution
of Wastes Management

This certificate is jointly awarded by WAMITAB and the Chartered Institution of Wastes Management (CIWM) and provides evidence to meet the Operator Competence requirements of the Environmental Permitting (EP) Regulations, which came into force on 6 April 2008.



00099738



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:

CLIVE HURT (PLANT HIRE) LIMITED
SANDHAM HOUSE
REDROSE DRIVE
LANCASHIRE BUSINESS PARK
LEYLAND
LANCASHIRE
PR26 6TJ
TEL: 01772 432475
FAX: 01772 622398

E-MAIL:
SALES@HURTPLANT.CO.UK

PREPARED BY:

TERRACONSULT LTD
BOLD BUSINESS CENTRE
BOLD LANE
SUTTON
ST HELENS
WA9 4TX

TEL: 01925 291111
FAX: 01925 291191

E-MAIL:
MAILBOX@TERRACONSULT.CO.UK

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	Prepared By: J. Baxter	<i>John Baxter</i>	17/08/2017
			Checked By: R.Barlow	<i>Rob Barlow</i>	17/08/2017
			Authorised By: J. Baxter	<i>John Baxter</i>	17/08/2017
1	Issued	August 2017	Prepared By: J. Baxter	<i>John Baxter</i>	21/08/2017
			Checked By: R. Barlow	<i>Rob Barlow</i>	21/08/2017
			Authorised By: J. Baxter	<i>John Baxter</i>	21/08/2017

DISCLAIMER

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.

TerraConsult Ltd cannot accept responsibility to any parties whatsoever, following the issue of this report, for any matters arising which may be considered outwith the agreed scope of works.

This report is issued solely to the client and TerraConsult cannot accept any responsibility to any third parties to whom this report may be circulated, in part or in full, and any such parties rely on the contents at their own risk.



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]

CLIVE HURT (PLANT HIRE) LIMITED**ENVIRONMENTAL MANAGEMENT SYSTEM****CONTENTS**

1	INTRODUCTION.....	1
1.1	Introduction.....	1
1.2	Site Activities.....	1
2	REGULATORY COMPLIANCE	2
2.1	Introduction.....	2
3	COMPANY ORGANISATION	3
3.1	Environmental Policy Statement.....	3
3.2	Management Structure	3
3.3	Organisation and Responsibility	3
3.4	Communication.....	3
3.5	Competence and Training	4
3.6	Instructions to Third Party Contractors.....	6
3.7	Purchasing Policy.....	6
4	OPERATIONAL CONTROL PROCEDURES	8
4.1	Introduction.....	8
4.2	Waste Acceptance Procedures	8
4.3	Nuisances	10
4.4	Control of Dust and Aerosols	11
4.5	Control of Odours	13
4.6	Control of Noise and Vibration.....	14
4.7	Control of Mud and Debris	15
4.8	Surface Water Management.....	15
4.9	Potentially Polluting Substances.....	15
5	ACCIDENT MANAGEMENT PLAN	16
5.1	Introduction.....	16
5.2	Accident Risk Assessments	16
5.3	Emergency Action Plans.....	18
6	EVALUATION OF ENVIRONMENTAL PERFORMANCE.....	23
6.1	Environmental Monitoring.....	23
6.2	Targets and Objectives.....	23
6.3	Management Review	23
6.4	Managing the EMS	23
7	MANAGING DOCUMENTATION AND RECORDS	25
7.1	Policies.....	25
7.2	Responsibilities	25

7.3	Performance Targets	25
7.4	Maintenance Records	25
7.5	Operational Procedures	25
7.6	Monitoring Records	25
7.7	Results of Audits and Reviews	25
7.8	Non-Compliance, Complaints and Incidents Records	25
7.9	Training Records.....	25

APPENDICES

APPENDIX A	ENVIRONMENTAL POLICY STATEMENT
APPENDIX B	MANAGEMENT STRUCTURE
APPENDIX C	ENVIRONMENTAL ASPECTS REGISTER
APPENDIX D	MAINTENANCE CHECKLIST / RECORD
APPENDIX E	COMPLAINT FORMS
APPENDIX F	ACCIDENT / INCIDENT PLAN / RECORD
APPENDIX G	NON-CONFORMANCES
APPENDIX H	STAFF TRAINING
APPENDIX I	LEGAL AND OTHER REQUIREMENTS REGISTER
APPENDIX J	EMERGENCY CONTACT NUMBERS

APPENDIX D

Fugitive Particulate Risk Assessment and Management Plan



September 2017
Report No 3276/R/005-1

RHUDDLAN BACH QUARRY LANDFILL SITE

FUGITIVE PARTICULATE RISK ASSESSMENT AND MANAGEMENT PLAN

Prepared for

Clive Hurt (Plant Hire) Limited



RHUDDLAN BACH QUARRY LANDFILL SITE

FUGITIVE PARTICULATE RISK ASSESSMENT AND MANAGEMENT PLAN

Date: September 2017



Prepared For:

Clive Hurt (Plant Hire) Ltd.

Sandham House
Redrose Drive
Lancashire Business Park
Leyland
Lancashire
PR26 6TJ

Telephone: 01772 432475
Facsimile: 01772 622398



Prepared By:

TerraConsult Ltd.

Bold Business Centre
Bold Lane
Sutton
St. Helens
WA9 4TX

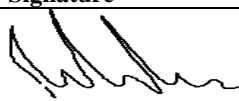
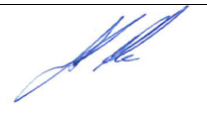

Telephone: 01925 291111
Facsimile: 01925 291191

DOCUMENT INFORMATION AND CONTROL SHEET

Document Status and Approval Schedule

Report No.	Title
3276/R/005-1	Rhuddlan Bach Quarry Landfill Site Fugitive Particulate Risk Assessment and Management Plan

Issue History

Issue	Status	Date		Signature	Date
1	Final	Sept 2017	Prepared By: R. Barlow		04/09/2017
			Checked By: J. Baxter		04/09/2017
			Authorised By: J. Baxter		06/09/2017

DISCLAIMER

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.

TerraConsult Ltd cannot accept responsibility to any parties whatsoever, following the issue of this report, for any matters arising which may be considered out-with the agreed scope of works.

This report is issued solely to the client and TerraConsult cannot accept any responsibility to any third parties to whom this report may be circulated, in part or in full, and any such parties rely on the contents at their own risk.



RHUDDLAN BACH QUARRY LANDFILL SITE

FUGITIVE PARTICULATE RISK ASSESSMENT AND MANAGEMENT PLAN

CONTENTS

	Page
1 INTRODUCTION	1
1.1 Background.....	1
1.2 Assessment of Environmental Risk.....	1
2 HAZARD ASSESSMENT	2
2.1 Potential Hazards.....	2
2.2 Sources of Fugitive Dust, Mud and Debris, and Control Measures.....	2
2.3 Dust Monitoring and Action Plan.....	4
2.4 Mud and Debris Monitoring and Action Plan.....	5
3 PATHWAY CHARACTERISATION	7
3.1 Potential Hazard Pathways.....	7
4 RECEPTOR CHARACTERISATION	8
4.1 Site Location and Access.....	8
4.2 Potential Hazard Receptors.....	8
5 RISK ASSESSMENT AND MANAGEMENT PLAN	9
5.1 Risk Assessment.....	9
6 CONCLUSION	12

DRAWINGS

3276/1/001 Site Setting

RHUDDLAN BACH QUARRY LANDFILL SITE

FUGITIVE PARTICULATE RISK ASSESSMENT AND MANAGEMENT PLAN

1 INTRODUCTION

1.1 Background

- 1.1.1 This 'Fugitive Particulate Risk Assessment and Management Plan' has been prepared on behalf of Clive Hurt (Plant Hire) Limited (Clive Hurt) for their Rhuddlan Bach Quarry landfill site located near Brynteg on Anglesey, North Wales. This report supports an application by Clive Hurt to Natural Resources Wales (NRW) to vary their extant Permit (ref: EPR/FP3590LV) for the Rhuddlan Bach Quarry site to increase the annual waste throughputs at the site from 75,000 tonnes to 125,000 tonnes per annum.
- 1.1.2 This 'Fugitive Particulate Risk Assessment & Management Plan' considers the increased potential risk of impact from dust, mud and debris that could be generated with the proposed increase in annual tonnage throughputs.
- 1.1.3 The operator has confirmed that there have been no complaints either historically or currently, relating to dust, mud and debris that could have been attributed to the waste activities at the Rhuddlan Bach Quarry. However, it is recognised that robust measures need to be implemented to accommodate the additional risk represented by the proposed increase in waste throughputs.

1.2 Assessment of Environmental Risk

- 1.2.1 The NRW guidance for Environmental Risk Assessments for Permits is available at www.gov.uk and provides a methodology for identifying and assessing risks contained in four steps:
- Identify risks from your activity;
 - Assess the risks and check that they are acceptable;
 - Justify appropriate measures to control your risks, if necessary; and,
 - Present your assessment.
- 1.2.2 This assessment and management plan forms a further review of the potential impact of fugitive dust, mud and debris that may arise as a result from operations at the Rhuddlan Bach Quarry landfill site.

2 HAZARD ASSESSMENT

2.1 Potential Hazards

Odour

- 2.1.1 The inert wastes to be deposited at the site have no potential to generate odour and therefore will not be considered any further as part of this supporting assessment.

Noise & Vibration

- 2.1.2 The proposed changes will not impact significantly on those generated from existing quarrying and landfilling operations. Noise emissions and traffic movements are governed by the extant planning permission and will not be considered further in this assessment.

Litter

- 2.1.3 The potential hazard of litter generating wastes is considered negligible and the proposed changes to the annual throughputs are concluded to have no additional impact. Therefore, the potential for litter emissions will not be considered further as part of this assessment.

Pests & Vermin

- 2.1.4 The existing and proposed inert waste inputs have no potential to attract pests and vermin, therefore, this potential hazard will not be considered further in this assessment.

Dust/Mud/Debris

- 2.1.5 The proposed increased throughputs do have the potential to pose an increased risk for emissions of dust, mud and debris, due to the nature of the wastes to be deposited. Therefore, this assessment has been compiled to provide details on the assessment and management of the risks posed from this emission.

2.2 Sources of Fugitive Dust, Mud and Debris, and Control Measures

- 2.2.1 This section will review the potential hazard from dust, mud and debris emissions that can potentially arise from a number of operational sources at Rhuddlan Bach Quarry landfill site, and appropriate control measures. The risk assessments and appropriate management procedures are contained in Section 5 of this report. Sources of fugitive particulates are as follows:

- Waste transfer and deposition;
- Vehicle movements entering and leaving site;
- Capping and engineering works; and,
- Un-vegetated areas such as newly installed cap or areas of pre-engineering.

Waste Transfer and Deposition

- 2.2.2 The primary control for dust emission minimisation will be restrictions on the acceptance of excessively dusty wastes for deposit. Basic characterisation of all

wastes is undertaken prior to wastes being accepted on site in accordance with Clive Hurt waste acceptance procedures.

- 2.2.3 Any excessively dusty or friable wastes that could potentially cause emissions of fugitive dust will only be accepted if the waste is covered, otherwise contained, or conditioned with water prior to delivery.
- 2.2.4 On site verification of wastes will also be undertaken as loads arrive on site consisting primarily of reviewing associated paperwork, then if the load is suspected of containing potentially dusty waste or, an inspection of the load will be carried out if possible, either at the weighbridge or at the point of disposal if necessary.
- 2.2.5 Restrictions will also be imposed on the deposit of waste on the landfill site during excessively windy conditions or additional mitigation measures will be employed e.g. damping down operational areas using sprayed water from a mobile bowser.
- 2.2.6 Consideration will also be given to meteorological conditions when planning direction and sequence of waste deposition on the landfill.

Vehicle Movements on Site

- 2.2.7 The primary method for reducing fugitive dust emissions due to vehicle movements is the enforcement of the site speed limits which are clearly displayed using signage around the site.
- 2.2.8 All vehicles using the installation will be instructed to ensure their loads are adequately sheeted or otherwise contained to reduce dust emissions and accidental mud and debris release.
- 2.2.9 All site haul roads, the weighbridge area, entrance area and external access/approach roads will be regularly maintained and cleaned with a road sweeper to prevent the accumulation of mud and dusty material. Haul and access road inspections will be increased if necessary and the frequency of proactive maintenance increased accordingly.
- 2.2.10 All vehicles leaving site will utilise the wheel wash located on the site haul road to the south of leachate treatment facility, to remove excess mud or debris which may cause fugitive dust, mud and debris emissions onto the public highway.
- 2.2.11 Vehicles will be re-directed through the wheel-wash if particularly cohesive materials, such as clay, are still present prior to exiting the site.

Engineering Works

- 2.2.12 Engineering works carried out, as part of the site construction activities, such as earth moving, cell development and restoration works, are also a potential source of particulate emissions. Meteorological conditions will be assessed each day, and dust suppression using mobile bowsers will be utilised where appropriate.

Un-vegetated Areas

- 2.2.13 Areas such as stockpiles, bunds, and recently restored areas are potential sources of dust emissions. Where necessary, seeding of these areas will take place to protect against wind erosion and associated fugitive dust emissions.

2.3 Dust Monitoring and Action Plan

- 2.3.1 Qualitative monitoring for fugitive dust emissions will be undertaken daily during operational periods at Rhuddlan Bach Quarry landfill site by suitably trained site staff in accordance with the procedures outlined in the site EMS. 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.
- 2.3.2 It is proposed that the monitoring frequency be reviewed on an annual basis and should there be limited evidence of any potential impact from deposited dust to adjacent receptors, this frequency be then reduced to quarterly, but with gauges remaining in-situ for a one month period as opposed to previously being two weeks.
- 2.3.3 The site manager (or nominated deputy) will be responsible for assessing predicted meteorological conditions each day, which will determine if dust suppression methods will be required on all operational areas of the site.
- 2.3.4 All personnel employed on site will undertake visual monitoring for dust. Any problems observed will immediately be reported to the site manager (or nominated deputy) who will be responsible for investigating the cause and implementing any necessary remedial plan.
- 2.3.5 In the unlikely event that unacceptable dust emissions arise from the site, as indicated by the monitoring methods above, one or more of the following remedial actions will be undertaken:
- Operations identified as generating unacceptable emissions of dust will be reduced or suspended until effective remedial actions have been taken or weather conditions resulting in the fugitive emissions have moderated;
 - Additional dust suppression may be employed by spraying water onto affected areas or stockpiles;
 - On site 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 on site and cleanliness of wheels when leaving site;
 - All vehicles will pass through the wheel wash facility and additional wheel cleaning may be employed if required, such as a mobile pressure washer;
 - Waste handling procedures may be altered and waste acceptance procedures reviewed, such covering dusty wastes on deposit, or stop accepting problematic wastes; and

- Quantitative monitoring may be implemented, if persistent complaints are received and the corrective actions above have not resolved the problem.

2.3.6 A record relating to the management and monitoring of dust will be maintained in the site log. This record will include the following details:

- A record of all dust events including date, time and the cause of the problem;
- A record of all complaints;
- Details on the corrective action taken and any subsequent changes to operational procedures.

2.3.7 The risks associated with fugitive dust emissions discussed in this section are detailed in the 'Fugitive Dust Risk Assessment and Management Plan' (Table 2), along with the preventative management measures to be implemented.

2.4 Mud and Debris Monitoring and Action Plan

2.4.1 Visual monitoring for fugitive mud and debris emissions will be undertaken daily during operational periods at Rhuddlan Bach Quarry landfill site in accordance with the requirements of the site EMS. As a conservative measure in response to the potential increased risk of fugitive mud and debris emissions from increasing the annual waste input tonnage, the frequency of visual monitoring for deposited mud and debris on roadways will be initially increased from daily to at least twice daily.

2.4.2 The site manager (or nominated deputy) will be responsible for assessing predicted meteorological conditions each day, which will determine if mud and debris control methods will be required on all operational areas of the site.

2.4.3 All personnel employed on site will undertake visual monitoring for mud and debris. Any problems observed will immediately be reported to the site manager (or nominated deputy) who will be responsible for investigating the cause and implementing any necessary remedial plan.

2.4.4 In the unlikely event that unacceptable mud and debris emissions arise from the site, one or more of the following remedial actions will be undertaken:

- Operations identified as generating unacceptable emissions of mud and debris will be reduced or suspended until effective remedial actions have been taken or weather conditions resulting in the fugitive emissions have moderated;
- On site vehicle movement routes may be reconsidered with regard to location (i.e. relocating further from the receptor at risk or avoiding excessively muddy roads);
- Internal unpaved roads will be regularly inspected and maintained to reduce the potential for the roadway to become a source of mud and debris on the wheels of site traffic;

- Any mud and debris carried onto the public highway will be removed using a road sweeper as soon as practical;
- Additional inspection of vehicles may be undertaken to ensure adequate cleanliness of wheels when leaving site;
- All vehicles will pass through the wheel wash facility and additional wheel cleaning may be employed if required, such as a mobile pressure washer to remove excess mud and debris from wheels; and
- Waste handling procedures may be altered and waste acceptance procedures reviewed.

2.4.5 A record relating to the management and monitoring of mud and debris will be maintained in the site log. This record will include the following details:

- A record of all mud and debris events including date, time and the cause of the problem;
- A record of all complaints;
- Details on the corrective action taken and any subsequent changes to operational procedures.

2.4.6 The risks associated with fugitive mud and debris emissions discussed in this section are detailed in the 'Fugitive Mud and Debris Risk Assessment and Management Plan' (Table 3), along with the preventative management measures to be implemented.

3 PATHWAY CHARACTERISATION

3.1 Potential Hazard Pathways

- 3.1.1 When choosing the receptors, the closest and most sensitive (if different from the closest) have been considered in each direction from the hazard, in this instance for fugitive particulates. Account has been taken of the mechanism of transport to the sensitive receptors e.g. proximity to highway access and prevailing wind direction.
- 3.1.2 Fugitive particulates emissions arising from the permitted operations can be transported via a number of pathways to adjacent sensitive receptors. The following transport mechanisms could be employed:
- Windblown dust from operations on site; and
 - Direct deposition of dust, mud and debris from vehicles leaving site.
- 3.1.3 Generally speaking the receptors closest to the waste operations will be at the highest risk from fugitive dust, mud and debris emissions carried by one or more of the above pathways. However, engineered mitigation measures or natural obstructions to these pathways will determine the degree of risk presented to the receptors by the hazard source term.
- 3.1.4 Wind information for the site has been interpreted from wind-rose data (www.windfinder.com) recorded at the Pentraeth meteorological station located approximately 4km to the southeast of the site. This updated data is included within Table 2 in the following section (Section 4.2).

4 RECEPTOR CHARACTERISATION

4.1 Site Location and Access

- 4.1.1 The Rhuddlan Bach Quarry landfill site is located approximately 1.8 km to the south-southwest of Brynteg on the island of Anglesey in North Wales. The site is accessed from the B5110 Road from the west of site, which runs approximately north to south around the western perimeter at a distance of 150m (northwest) to 400m (west) distant. The surrounding area consists predominantly of agricultural area, with another active quarry/inert landfill (also operated by Clive Hurt) located to the northwest.

4.2 Potential Hazard Receptors

- 4.2.1 A review of the receptors identified within the locality of the site are shown on the accompanying 'Site Setting' drawing (ref: 3276/1/001) and detailed in Table 1 below. The distance of these receptors to the site boundary, their direction relative to the site and the frequency the wind blows in the direction of the receptor are detailed in Table 1 below:

Table 1: Potentially Sensitive Receptors

No.	Receptor	Approx. distance from boundary	Direction	Freq. (%) Prevailing Wind Direction
1	Cors Goch Nature Reserve SSSI (SAC and Ramsar) including Llyn Cadarn	274	E	12
2	B5110 Road	150 to 400	NW to W	4
3	Nant Newydd Caravan Park	400	NNW	5
4	Barn Owl Lodgings	390	NNE	7
5	Nant Newydd Quarry Landfill	390	NW	4
6	Watercourse	30	SE	3
7	Ty'n-y-lon Farm	430	W	4

Note: See Drawing 3276/1/001 for location of receptors

5 RISK ASSESSMENT AND MANAGEMENT PLAN

5.1 Risk Assessment

- 5.1.1 The updated specific risk assessments have been completed for fugitive dust, and mud & debris, and are contained in Tables 2 and 3 overleaf. The pathway for dust is determined by the location of the receptor relative to the site, distance from the site boundary (m) and the frequency (likelihood) the prevailing wind will blow in the direction of the receptor (%), as determined by weather data obtained for the site. The pathway for mud and debris is determined by the location of the receptor relative to the site (m), the frequency of use of the local road network to and from the site by site vehicles and meteorological conditions which affect the mobility of mud and debris onto public highways.
- 5.1.2 The risk assessment tables represent the risk of exposure to the hazard before mitigating controls are put in place. The probability of exposure is therefore not necessarily a reflection of the severity of the impact on the receptor, which may not be sensitive to the hazard. The severity of the unmitigated consequence presumes the receptor has been exposed to the hazard. However, if the receptor is unlikely to be exposed, then the overall unmitigated risk is low and vice versa. The mitigated risk is the residual risk presented by the hazard after control measures have been instigated. This is the most realistic representation of the risk as it is extremely likely that controls will be maintained.

Table 2: Fugitive Dust Emission Risk Assessment and Management Plan

Unmitigated Hazard and Pathway	Receptor				Probability of Exposure	Unmitigated Consequence	Overall Risk	Risk Management	Residual Risk
	No.	Dist. (m)	Direc.	Freq. (%)					
Fugitive dust emissions generated by: Waste transfer and deposition Vehicle movements on site Engineering works Un-vegetated areas.	1	274	E	12	Medium – proximity to site	Medium – Dust accumulation (habitat)	Medium	Basic characterisation of wastes as part of pre-acceptance procedures to identify problematic wastes. On site verification of wastes prior to disposal	Low
	2	150 to 400	NW to W	4	Low – proximity to site, low prevailing wind	Medium – Dust annoyance (road users)	Medium	No excessively dusty wastes to be accepted at the site. Dusty waste identified at point of deposit will be subject to deeper burial.	
	3	400	NNW	5	Low – distant from site	High –dust annoyance (residential)	Medium	Restricted operations during excessively windy conditions. On site vehicle speed limit enforced to ensure that vehicle movements do not generate excessive dust.	
	4	390	NNE	7	Low – distant from site	High –dust annoyance (residential/recreational)	Medium	All vehicles to be sheeted or adequately contained. Dampening of site roads/surfaces as necessary using a bowser during dry periods.	
	5	390	NW	4	Low – distance to site/low wind direction	Low –dust annoyance (industrial)	Low	Regular cleaning of all access roads. Daily visual inspection by appropriate site staff.	
	6	30	SE	3	High –Proximity to site	Medium –dust accumulation (watercourse)	Medium	All vehicles will use the wheel washing equipment to prevent mud/dust being trailed onto adjacent roads and creating a hazard/nuisance. A road sweeper will be used to clear any dust deposited on highways if required.	
	7	430	W	4	Low – distance to site/low wind direction	High –dust annoyance (residential/agricultural)	Medium	Re-direction of vehicles through the wheel wash if required. Seeding of un-vegetated areas to prevent wind erosion.	

Table 3: Mud and Debris Emission Risk Assessment and Management Plan

Unmitigated Hazard and Pathway	Receptor				Probability of Exposure	Unmitigated Consequence	Overall Risk	Risk Management	Residual Risk
	No.	Dist. (m)	Direc.	Freq. (%)					
Mud and debris tracked from site onto public roads by associated site vehicles	1	274	E	12	Low – distance from site access	Medium – debris accumulation (habitat)	Low	Internal roads will be maintained and cleaned as necessary.	Low
	2	150 to 400	NW to W	4	High – proximity to site, adjoined to site access	High – Mud/debris on roads	High	All departing vehicles will be required to use the wheel wash.	
	3	400	NNW	5	Medium – proximity to site access route	High –mud/debris annoyance (residential)	High	Exit length has been maximised to reduce the risk of debris deposition on the public highway.	
	4	390	NNE	7	Low – distant from site	High –mud/debris annoyance (residential)	Medium	Site staff at the weighbridge will check departing vehicles.	
	5	390	NW	4	High – proximity to site, adjoined to site access	Low –mud/debris annoyance (industrial)	Medium	Vehicles will be directed to re-use the wheel wash if necessary.	
	6	30	SE	3	Low – distance from site access	Medium –debris accumulation (watercourse)	Medium	A road sweeper will be employed as necessary.	
	7	430	W	4	Medium – distance to site access	High –debris annoyance (residential/agricultural)	Medium	A twice daily visual inspection will be made of the public highway and recorded; and any remedial action undertaken will be recorded.	

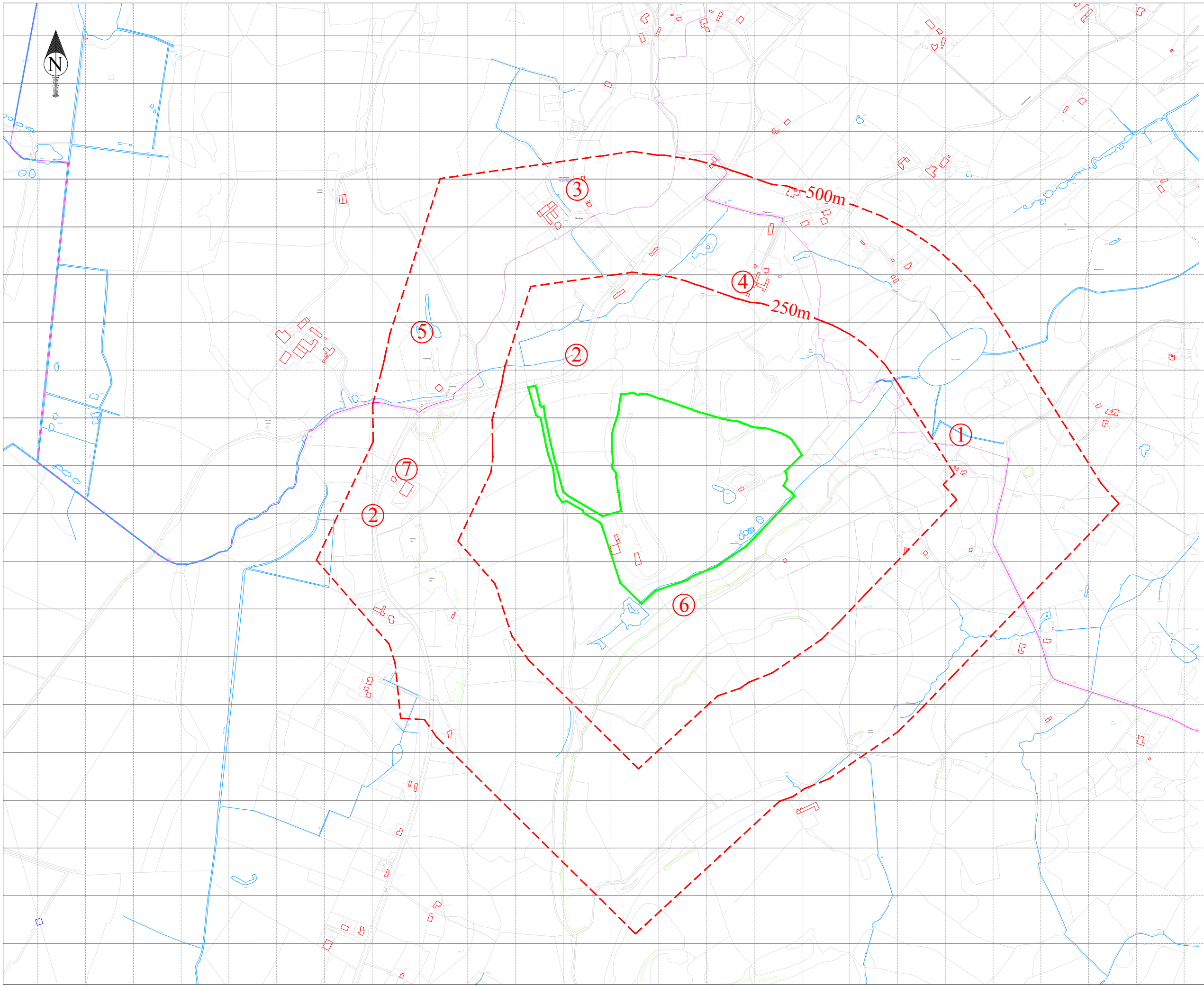
6 CONCLUSION

- 6.1.1 The risk assessments detailed in this document indicate that due to management activities at the site, uncontrolled dust, mud and debris emissions, collectively ‘particulates emissions’, are unlikely to cause any disturbance to the surrounding area. Residential properties to the north and west are considered most sensitive to the current site operations, however, given the distance to the nearest residencies, predominant wind directions and the fugitive dust, mud and debris mitigation measures employed on site, these properties are highly unlikely to be affected by the site operations.
- 6.1.2 It has been concluded that with the use of appropriate mitigation controls where necessary, the operations undertaken at Rhuddlan Bach Quarry landfill site will not present a significant risk to surrounding receptors.

DRAWINGS

List of Drawings

3276/1/001 Site Setting Plan



Note:
Permit Boundary approximated from
"Schedule 2 - Site Plan"
Permit No. WP3132SX

- Key
- Permit Boundary
 - Receptor Location
 - Stand-Off from Site

TerraConsult

Bold Business Centre, Bold Lane,
Sutton, St Helens WA9 4TX

Client

HURT
Clive Hurt Plant Hire Ltd

Site

**Rhuddlan Bach
Landfill**

Title

Site Setting

Scale	1:7,500	@ A3
Drawing No.	3276/1/001	
Rev	Date	Description
File	32761001SiteSetting	
Date	09/17	Engineer GH
Drawn	PP GH	Checked Final