

# Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2016

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Clive Hurt (Plant Hire) Limited

Nant Newydd Quarry Landfill Site

Brynteg

Anglesey

LL78 7JJ

Variation application number

EPR/RP3337SE/V003

Permit number

EPR/RP3337SE

# **Nant Newydd Quarry Landfill Site**

## **Permit number EPR/RP3337SE**

### **Introductory note**

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

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

This is an operator led variation to increase the annual throughput from 5000 tonnes to 125,000 tonnes per annum. The total amount of waste to be deposited is not changing. Furthermore, this includes a regulator initiated variation to support the changes proposed by the operator. This relates to clarifying the location of the surface water emission point and the monitoring points. As a result, Tables S1.2, S1.3, S4.1, S4.5 and S5.1 have been amended to reflect the current emission and monitoring points for surface water.

There are no other changes to the permit.

The schedules specify the changes made to the original permit.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Waste Management Licence NOW-110-L EAWML 37144	19/07/96	Original waste management licence issued to W.J. Owen & Sons
EAWML 37144 Modification	22/03/99	Waste returns conditions added
EAWML 37144	26/06/04	Transfer in full to Messrs Hugh Selwyn Owen & Gwilym Tyler Owen
Permit determined EPR/RP3337SE (formally EAWML 37144)	30/03/07	Consolidated and modernised Pollution Prevention Control (PPC) permit issued to Mrs J.T. Owen & Mr G.T. Owen.
Transfer determined EPR/RP3337SE/T002	23/05/18	Full transfer of permit to Clive Hurt (Plant Hire) Limited complete
Variation application EPR/RP3337SE/V003	Duly made 11/09/18	Application to increase annual throughput
Additional information received in response to Schedule 5 notice	22/10/18	Information relating to phasing plans; and dust and noise control
	13/11/18	Information relating to noise management
Additional information received in response to informal request for information	22/11/18	Environmental monitoring plan
	16/01/19	Surface water emission and monitoring points drawing
Variation determined EPR/RP3337SE	28/01/19	Variation issued

End of introductory note

## Notice of variation

Environmental Permitting (England and Wales) Regulations 2016

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

**Permit number**

**EPR/RP3337SE**

**issued to:**

**Clive Hurt (Plant Hire) Limited** (“the operator”)

whose registered office is

**Sandham House**

**Redrose Drive**

**Lancashire Business Park**

**Leyland**

**Lancashire**

**PR26 6TJ**

company registration number 01853066

to operate a regulated facility at

**Nant Newydd Quarry Landfill Site**

**Brynteg**

**Anglesey**

**LL78 7JJ**

to the extent set out in the schedules.

The notice shall take effect from **28/01/2019**

Name	Date
<b>Huw Davies</b>	<b>28/01/2019</b>

Authorised on behalf of Natural Resources Wales

## Schedule 1 – conditions to be deleted

None

## Schedule 2 – conditions to be amended

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

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to questions B2.1, B2.2, B2.3, B2.5, B2.7, B2.8, B2.9, B2.11, B3.1 of the Application excluding the answers to the following questions: B2.2.1 to B2.2.6 B2.2.38 B2.2.39 B2.2.41 B2.2.42 B2.2.46 B2.2.47 B2.2.52 B2.2.57 B3.1.2	18 <sup>th</sup> November 2005
Response to Schedule 4 Notice dated 3 <sup>rd</sup> April 2006	All parts	11 <sup>th</sup> May 2006
Additional information submitted following analysis of existing waste types	All parts	8 <sup>th</sup> September 2006
Additional information submitted following analysis of existing waste types	All parts	20 <sup>th</sup> September 2006
Additional information submitted following analysis of existing waste types	All parts	27 <sup>th</sup> September 2006
Additional information submitted following analysis of existing waste types	All parts	6 <sup>th</sup> October 2006
Submission of relevant WAMITAB certificate	All parts	20 <sup>th</sup> December 2006
Application	Fugitive Particulate Risk Assessment and Management Plan v2 Report No. 3276R/010/02 Appendix C  Sections: 2.2. Sources of Fugitive Dust, Mud and Debris, and Control Measures 2.3. Dust Monitoring and Action Plan	11/09/18

**Table S1.2 Operating techniques**

Description	Parts	Date Received
Response to Schedule 5 Notice dated 29/10/18	Noise Management Plan Report No. 3276/R/012/01 Sections: <ul style="list-style-type: none"> <li>- 4.2 Control and Management Measures</li> <li>- 5.0 Action Plan</li> </ul>	13/11/18
Response to informal request for information sent 22/11/18	Environmental monitoring plan Report Number: 3276/R/001/1 Sections <ul style="list-style-type: none"> <li>- 4.1.1 [surface water monitoring points]</li> <li>- 4.1.2 [description of surface water system]</li> <li>- 4.1.6 [surface water action plans]</li> </ul>	22/11/18
Response to informal request for information sent 11/01/19	3276/4/006 Rev A Monitoring Point Location drawing Date 01/19 Parts: <ul style="list-style-type: none"> <li>- SW1</li> <li>- SW2a</li> <li>- SW2b</li> <li>- SW3</li> <li>- SW4 [emission point]</li> </ul> [surface water monitoring points]	16/01/19

**Table S1.3 Improvement programme requirements**

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

1.3.3	<p>Following approval of the report submitted Improvement programme reference 1.3.2, the Operator shall submit to the Agency for approval, revised post-interim Groundwater monitoring and Contingency Action Plans. These plans shall include all appropriate information as required under Improvement conditions under Table S1.3 reference 1.3.2 and Table S1.4A reference 3.</p> <p>The plans shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	<p>Within 2 months of the completion of improvement programme reference 1.3.2</p>
1.3.4	<p>The Operator shall carry out a survey of all existing gas monitoring boreholes G1, G2 and G3 (as indicated on drawing LO6 of the Working Plan, Appendix 2, submitted with the PPC Application_ to demonstrate that they are fit-for-purpose. A report on the results of this survey shall be submitted to the Agency for approval. The survey shall:</p> <ul style="list-style-type: none"> <li>• Confirm the depth / level to which the borehole extends beneath the existing waste/ground surface;</li> <li>• Confirm that the installation details of these borehole is adequate, including construction materials, slotted and plain casings, grouting materials with the depths/ elevations of these materials, and borehole security measures;</li> <li>• Confirm whether these boreholes are blocked, and, if blocked, provide mitigation measures;</li> <li>• Propose additional measures to ensure that the existing gas monitoring boreholes are secure;</li> <li>• If the above cannot be fully completed, the operator shall submit proposals to install new gas monitoring points to comply with the requirements of the Landfill regulations and LF TGN03 "Guidance on the Management of Landfill Gas". Once approved by the Agency proposed gas monitoring locations shall be installed / commissioned within the agreed time and included immediately into the agreed interim and post-interim revised Landfill Gas Management and Contingency Action plans.</li> </ul> <p>The proposals in the report shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	<p>1<sup>st</sup> July 2007</p>



1.3.5	<p>The Operator shall submit to the Agency for approval revised interim Landfill Gas Management and Contingency plans. These plans shall incorporate detailed written proposals for the design, construction and installation of gas monitoring locations and infrastructure in accordance with the Agency guidance document LF TGN03 "Guidance on the Management of Landfill Gas". These plans shall ensure that the representative sampling of gas concentration within the waste mass and gas concentrations beyond the site boundary from potential lateral gas migration is completed in accordance with the Landfill Regulations.</p> <p>Gas monitoring locations shall include, as a minimum an adequate number of locations:</p> <ul style="list-style-type: none"> <li>• Within the waste mass to ensure compliance with in-waste monitoring requirements;</li> <li>• Beyond the site boundary to ensure compliance with the requirements for the monitoring of lateral emissions.</li> </ul> <p>Once approved by the Agency, the gas monitoring locations shall be installed / commissioned within the agreed time period, and included immediately into the agreed and revised Landfill Gas Management and Contingency Action Plans.</p> <p>These proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	1 <sup>st</sup> July 2007
1.3.6	<p>The Operator shall acquire 12 months of monthly gas monitoring data for all external locations beyond the site boundary required under Improvement condition reference 1.3.5 in Table S1.3 (above).</p> <p>A written report shall be submitted to the Agency for approval that:</p> <ul style="list-style-type: none"> <li>• Undertakes a review of the Control Levels and Compliance Limits in this Permit;</li> <li>• Includes, where justified, revised post-interim Control Levels and Compliance Limits for Agency approval.</li> </ul> <p>The proposals in the report shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	Within 15 months of the completion of improvement programme reference 1.3.5
1.3.7	<p>Following approval of the report submitted under Improvement programme reference 1.3.6, The Operator shall submit to the Agency for approval, revised post-interim Landfill Gas Management and Contingency Action Plans. These plans shall include all other appropriate information as required under improvement conditions under Table S1.3 references 1.3.4, 1.3.5 and 1.3.6.</p> <p>The plans shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	Within 2 months of the completion of improvement programme reference 1.3.6

1.3.8	<p>The Operator shall submit to the Agency for approval interim Surface Water Management and Contingency Action Plans. These plans shall be based on the Environment Agency guidance LFTGN02 "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water".</p> <p>These plans shall include additional measures to mitigate against the potential for pollution to the adjacent surface water regime. This includes potential pollution arising from runoff that flows through and from the existing waste materials already deposited under the Waste Management Licence, and from liquids accumulated within and pumped from the quarry sump. The need for additional monitoring points shall be reviewed.</p> <p>The proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	1 <sup>st</sup> June 2007
1.3.9	<p>The operator shall;</p> <ul style="list-style-type: none"> <li>- Acquire 12 months of new surface water monitoring data at the frequencies specified in Tables S4.1 and S4.5 for locations SW1, SW2a, SW2b, SW3, and SW4 (indicated on drawing 3276/4/006 Rev A Monitoring Point Location drawing in Table S1.2. of this permit) and using this new data;</li> <li>- Undertake a review of the quality determinands for surface water Control Levels and compliance limits where included in this permit;</li> <li>- Provide a report to Natural Resources Wales including, where justified, revised post-interim Control Levels and Compliance Limits with appropriately justified determinands at each appropriately justified compliance monitoring points for Natural Resources Wales approval.</li> </ul> <p>The proposals set out in the report shall be implemented by the Operator from the date of approval in writing by Natural Resources Wales.</p>	1 <sup>st</sup> May 2020
1.3.10	<p>Following approval of the report submitted under Improvement programme reference 1.3.9, the Operator shall submit revised post-interim Surface Water Management and Contingency Action Plans. These plans shall include all other appropriate information as required under improvement condition under Table S1.3 reference 1.3.8 and 1.3.9.</p> <p>These plans shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	Within 2 months of the completion of improvement programme reference 1.3.9
1.3.11	<p>The Operator shall submit a drawing / plan to the Agency confirming all monitoring locations. This drawing / plan shall be scaled, and annotated with clear and consistent nomenclature for all monitoring locations. This drawing / plan shall also include local features such as haulage and other roads, field boundaries, surface water features, indicated map north, ground elevation information, buildings, services &amp; infrastructures, completed / restored parts of the landfill and security fencing details.</p> <p>The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the drawing / plan,</p>	1 <sup>st</sup> July 2007

1.3.12	<p>The Operator shall submit a report to the Agency regarding nitrate concentrations in the surface water regime. For this report, the Operator shall investigate and determine the source(s) of the observed high concentrations of nitrate in the surface water regime. The Operator shall submit the results of this investigation, and include proposals to mitigate against future potentially-polluting releases of nitrate from the site to the surface water regime.</p> <p>The proposals shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	1 <sup>st</sup> October 2007
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**Table S1.5 Annual waste input limits**

Category	Limit Tonnes/ Year
Inert Waste	125,000

**Table S4.1 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements****Interim period only:**

Emission point ref. & location	Parameter	Source	Limits – maximum (Incl unit)	Limits – other (Incl unit)	Reference Period	Monitoring frequency	Monitoring standard or method
NGR: SH48081 81037 (Point SW4 as indicated on 3276/4/006 Rev A Monitoring Point Location drawing of the plan incorporated into Table S1.2.) Or as otherwise agreed in writing by Natural Resources Wales	Suspended solids	Surface water runoff and	628 mg/l	50 mg/l on any 2 consecutive occasions	Spot sample	Monthly	To be agreed under the requirement of Table S1.3, condition reference 1.3.8
	Sulphate	surface water courses	327 mgSO <sub>4</sub> /l	250 mgSO <sub>4</sub> /l on any 2 consecutive occasions			
	Phosphate (as Phosphorus)		1.2 mgPO <sub>4</sub> -P/l	0.1 mgPO <sub>4</sub> -P/l on any 2 consecutive occasions			
	Oil & Grease		None visible	-			
	Mineral oil (C8 – C40)		0.01	-			
	PAH		0.0001 mg/l	-			
						Quarterly	

**Table S4.5 Surface water – other monitoring requirements**

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
<b>Interim period only:</b>				
Surface water monitoring points SW1, SW2a, SW2b, SW3, SW4 (as indicated on 3276/4/006 Rev A Monitoring Point Location drawing of the plan incorporated into Table S1.2.) Or as otherwise agreed in writing by Natural Resources Wales	pH, Oil & Grease, Temperature, Electrical Conductivity, Ammoniacal Nitrogen, Chloride, BOD, COD, Total Suspended Solids, TOC, Fe, Cr, Mn, Ni, Pb, Phosphate as P, SO <sub>4</sub> , Nitrate (for TON) and Nitrite (for TON)	Monthly	In accordance with the application unless otherwise agreed in writing with Natural Resources Wales	No other specifications
	Total Oxidised Nitrogen, Ca, Cd, Hg, Mg, Na, K, Alkalinity (CaCO <sub>3</sub> ), Cu, Zn, Mineral oil (C8 -C40, PAH, MTBE	Quarterly		

**Table S4.5 Surface water – other monitoring requirements**

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
	Full List I screening	Annually		All List I substances shall be screened to the MRV limits unless otherwise agreed in writing with Natural Resources Wales. These substances include Cd, Hg, Mineral Oils (C8-C40) and PAHs, as identified from Inert WAC and other testing results, April 2006 and/or October 2006
		Quarterly		
		Annually		

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to water Parameters as required by condition 3.6.1	Surface water monitoring point SW4 (as indicated on 3276/4/006 Rev A Monitoring Point Location drawing of the plan incorporated into Table S1.2.) Or as otherwise agreed in writing by Natural Resources Wales	Quarterly	30 <sup>th</sup> March 2007
Groundwater Parameters as required by condition 3.6.1	Groundwater monitoring points to be installed in accordance with Table S1.4A, condition reference 3.	Quarterly	30 <sup>th</sup> March 2007
List I screening		Annually	
Landfill gas lateral migration Parameters as required by condition 3.6.1	Existing in-waste monitoring borehole G1 and G2 (as indicated on Drawing LO6 of the existing Working Plan, Appendix 2, submitted with the PPC Application)	Quarterly	30 <sup>th</sup> March 2007
	New landfill gas monitoring points to be installed beyond the site boundary in accordance with Table S1.3, condition reference 1.3.5		After date of installation
Other Landfill gas monitoring Parameters are required by condition 3.6.1	Existing in-waste monitoring borehole G3 (as indicated on Drawing LO6 of the existing Working Plan, Appendix 2, submitted with the PPC Application)	Quarterly	30 <sup>th</sup> March 2007
	New landfill gas monitoring points to be installed beyond the site boundary in accordance with Table S1.3, condition reference 1.3.5		After date of installation

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Other surface water monitoring Parameters as required by condition 3.6.1	Surface water monitoring points SW1, SW2a, SW2b, SW3, SW4 (as indicated on drawing 3276/4/006 of the plan incorporated into Table S1.2.) Or as otherwise agreed in writing by Natural Resources Wales	Quarterly	30 <sup>th</sup> March 2007
List I screening		Annually	

### Schedule 3 – conditions to be added

None