

# Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2016

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SI Green UK Limited

Cwmrhydyceirw Quarry Landfill  
Vicarage Road  
Cwmrhydyceirw  
Morrison  
Swansea  
SA6 6DR

Variation application number  
EPR/TP3835LV/V004

Permit number  
EPR/TP3835LV

# Cwmrhydyceirw Quarry Landfill

## Permit number EPR/TP3835LV

### 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 variation is to add an additional activity to enable the deposit, storage and use of wastes for recovery purposes in the restoration of the capped area. It also updates the financial provision, giving a mechanism for a new agreement to be reached.

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>
Application TP3835LV (EP ref EA/EPR/TP3835LV/A001)	Duly made 15/02/2006	
Response to requests for information	16/08/2006	Response 29/09/2006
	16/11/2006	Response 14/12/2006
	18/12/2006	Response 19/01/2007 & 26/01/2007
	13/02/2007	Response 28/03/2007
	09/03/2007	Response 23/04/2007
	18/07/2007	Response 24/08/2007
	17/12/2007	Response 22/02/2008
	09/04/2008	Response 18/04/2008
Permit TP3835LV determined	Date of Issue 09/12/2008	
Variation application EPR/TP3835LV/V002	Duly made 27/10/2010	

Request for further information	10/11/2010	01/12/2010
Variation determined EPR/TP3835LV/V002	24/12/2010	Varied permit issued.
Variation application EPR/TP3835LV/V003	Duly made 28/08/2014	Variation application to add a discharge to surface water
Additional information received	17/12/2014	Schedule 5 Notice response providing additional information required for modelling potential impact upon the Cwmrhydyceirw Stream.
Variation determined EPR/TP3835LV/V003	30/04/2015	Varied permit issued.
Closure application PAN-004085	06/12/2018	Received
Part surrender application PAN-004216	17/12/2018	Received
Closure application PAN-004085 and Part Surrender application PAN-004216	19/07/2019	Additional Information received
Variation EPR/TP3835LV/V004	16/10/2019	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 2010 varies

**Permit number**  
**EPR/TP3835LV**

**issued to:**  
**SI Green UK Limited** (“the operator”)

whose registered office is

**c/o Harris Bassett**  
**5 Llys Felin Newydd**  
**Phoenix Way Enterprise Park**  
**Swansea**  
**West Glamorgan**  
**SA7 9FG**

company registration number 02777304

to operate a regulated facility at

**Cwmrhydyceirw Quarry Landfill**  
**Cwmrhydyceirw Quarry**  
**Vicarage Road**  
**Cwmrhydyceirw**  
**Morrison**  
**Swansea**  
**SA6 6DR**

to the extent set out in the schedules.

The notice shall take effect from 16/10/2019

Name

Date

**Holly Noble**

**16/10/2019**

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

Condition 1.3.1 shall now read as follows:

- 1.3.1 The financial provision for meeting the obligations under this permit set out in the agreement made between the operator and the Environment Agency dated 09 December 2008, or other financial provision as subsequently agreed in writing with Natural Resources Wales, shall be maintained by the operator throughout the subsistence of this permit and the operator shall produce evidence of such provision whenever required by Natural Resources Wales.

Table S1.1 of schedule 1 of the permit specified in condition 2.1.1 shall be amended and replaced in its entirety as follows:

<b>Table S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity and waste types</b>
A1	Section 5.2 Part A(1)(a), the disposal of waste in a landfill.	Landfill for inert and non-hazardous waste (D5 – Specially engineered landfill)	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in condition 2.8.1 as an integral part of landfilling.

**Table S1.1 activities**

<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity and waste types</b>
A2	Deposit of waste for recovery	<p><b>R13:</b> Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p> <p><b>R5:</b> Recycling/ reclamation of other inorganic compounds</p> <p><b>R10:</b> Land treatment resulting in benefit to agriculture or ecological improvement</p>	<p>Receipt, handling, storage and recovery of non-hazardous wastes, consisting of the types and quantities specified in condition 2.8.8. This waste operation shall consist of the permanent deposit of waste on or in land for the purpose of recovery only. This activity is subject to the specifications set out in the pre-operational condition in table S1.4.</p> <p>In any event the total quantity of waste used shall not exceed the amount needed to complete the recovery operation to the final levels in the approved waste recovery plan.</p> <p>Topsoil and peat shall only be used for the R10 activity in the final 0.5m thick layer to achieve the restoration profile required.</p>
<b>Directly Associated Activity</b>			
A3	Leachate management	Storage and transfer of leachate	Leachate arising from the landfill.
A4	Discharges to foul sewers	Discharge of leachate and contaminated water from the landfill	Leachate and contaminated water arising from the landfill.
A5	Landfill gas flaring	Flaring of landfill gas for disposal in an appliance with a capacity up to 1,000 m <sup>3</sup> hr <sup>-1</sup> .	From the collection of the gas from the waste mass through to the release of combustion products
A6	Discharges to controlled waters	Discharges of site drainage and groundwater from the landfill.	From surface water management system to point of entry to controlled waters.
A7	Fuel storage	Storage of fuel for operation of plant and equipment	Fuel storage tank

Table S1.4 of schedule 1 of the permit specified in condition 2.6.1 shall be amended and replaced in its entirety as follows:

**Table S1.4 Pre-operational measures for future development**

<b>Reference</b>	<b>Operation</b>	<b>Pre-operational Measures</b>
<b>Section D – Review as necessary of the management plans</b>		
<b>D3</b>	The commencement of the construction of the new landfill	<p>Leachate management plan</p> <p>A leachate management plan with respect to the operation of the landfill shall be submitted to the Natural Resources Wales. The leachate management plan shall include procedures for the extraction, collection, storage and transfer of leachate and shall demonstrate that the system will have sufficient capacity to handle the maximum predicted volumes of leachate generation hence minimise the risk of leachate heads at the base of the landfill exceeding those detailed within permit condition 2.9.1 and Schedule 4, Table S4.1. The results of the review of the hydrogeological risk assessment carried out under pre-operational condition C1 of the original permit reference TP3835LV issued on 9 December 2008, shall be used as necessary in the preparation of the leachate management plan.</p> <p>The proposals shall take account of the guidance provided in Natural Resources Wales documents:</p> <ul style="list-style-type: none"> <li>• Sector Guidance Note S5.02 Guidance for the Landfill Sector</li> <li>• Technical requirements of the Landfill Directive and Integrated Pollution Prevention and Control (IPPC);</li> <li>• Guidance on the monitoring of landfill leachate, groundwater and surface water (LFTGN02); and</li> <li>• Technical Guidance Note – monitoring of discharges to sewer (M18)</li> </ul>
<b>D4</b>	The commencement of the construction of the new landfill	<p>Landfill gas management plan</p> <p>The landfill gas management plan with respect to the operation of the landfill shall be revised and submitted to the Natural Resources Wales. The revised landfill gas management plan shall include procedures for the extraction and management of landfill gas to minimise the risk of unacceptable releases of landfill gas from the landfill. The revised landfill gas management plan shall give consideration to both permanent and temporary management systems. The results of the review of the landfill gas risk assessment carried out under pre-operational condition C2 of the original permit reference TP3835LV issued on 9 December 2008, shall be used as necessary in the preparation of the landfill gas management plan.</p> <p>The proposals shall take account of the guidance provided in Natural Resources Wales documents:</p> <ul style="list-style-type: none"> <li>• Sector Guidance Note S5.02 Guidance for the Landfill Sector</li> <li>• Technical requirements of the Landfill Directive and Integrated Pollution Prevention and Control (IPPC); and</li> <li>• Guidance on the management of landfill gas (LFTGN03).</li> </ul>

Table S1.4 Pre-operational measures for future development

Reference	Operation	Pre-operational Measures
D5	The commencement of the construction of the new landfill	<p>Surface water management plan</p> <p>A surface water management plan with respect to the operation of the landfill shall be submitted to the Natural Resources Wales. The surface water management plan shall include procedures for the control, storage and discharge of surface water from the landfill and shall demonstrate that the system will have sufficient capacity to handle the maximum predicted volumes of surface water and if necessary extracted ground water from the base of the quarry. The meteorological monitoring data collected under pre- operational condition B1 of the original permit reference TP3835LV issued on 9 December 2008, shall be used in the preparation of the surface water management plan.</p> <p>The proposals shall take account of the guidance provided in Natural Resources Wales documents:</p> <ul style="list-style-type: none"> <li>• Sector Guidance Note S5.02 Guidance for the Landfill Sector</li> </ul> <p>Technical requirements of the Landfill Directive and Integrated Pollution Prevention and Control (PPC)</p>
<p><b>Notes:</b> The excavation of the existing waste at the site shall not commence until the management plans in respect of the excavation and relocation of the existing waste (pre-operational condition D1) and noise (pre-operational condition D2) of the original permit reference TP3835LV issued on 9 December 2008, have been approved by the Natural Resources Wales.</p> <p>The commencement of construction of the new landfill shall not commence until the management plans the subject of pre-operational conditions D3 to D10 of the original permit reference TP3835LV issued on 9 December 2008, inclusive have been approved by the Natural Resources Wales.</p>		

**Table S1.4 Pre-operational measures for future development**

<b>Reference</b>	<b>Operation</b>	<b>Pre-operational Measures</b>
<b>Section H – Other issues</b>		
<b>H2</b>	The recirculation of leachate	The operator shall submit to the Natural Resources Wales a scheme for the recirculation of leachate. The scheme shall include but not be limited to: Details of the methods of recirculation and system design; An assessment of odour and fugitive emission control including any revisions to site design and/or monitoring plans; and An assessment of the effects of recirculation on stability of the waste and the lining system. No leachate will be recirculated without the approval of the Natural Resources Wales.
<b>Section I – Pre-operational conditions from variation EPR/TP3835LV/V002</b>		
<b>I1</b>	The commencement of the construction of the northern side slope lining system	The operator shall submit to the Environment Natural Resources Wales an analysis of the integrity of the new design of the lining system that assesses the strains and deformations in each of the components of the lining system and between the interfaces. Realistic waste properties and the effects of groundwater rebound should be included in the modelling. The justifications for modelling method and range of input parameter values, system and commentary on the acceptability of the results, shall be provided
<b>Section J – Pre-operational conditions from variation EPR/TP3835LV/V004</b>		
<b>J1</b>	Deposit of waste for recovery	The operator shall submit to Natural Resources Wales a waste recovery plan, and shall have approval in writing from Natural Resources Wales before undertaking this activity. The waste recovery plan shall be prepared in accordance with the guidance available on gov.uk website ( <a href="https://www.gov.uk/guidance/waste-recovery-plans-and-permits">https://www.gov.uk/guidance/waste-recovery-plans-and-permits</a> ). The waste recovery plan shall also include waste acceptance procedures and, if waste is to be stored prior to use, give details of maximum storage times.

**Schedule 3 – conditions to be added**

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

- 2.8.8 Wastes shall only be accepted for recovery if:
- (a) they are accepted in accordance with a waste recovery plan which has been approved in writing by Natural Resources Wales, as detailed in Table S1.4.

The following table shall be added to schedule 3:

**Table S2.2 Permitted waste types for recovery**

<b>As agreed in writing by Natural Resources Wales in accordance with pre-operational condition J1 in table S1.4.</b>
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