

## Compliance Assessment Report

Report ID:  
CAR\_NRW0032856

This form will report compliance with your permit as determined by an NRW officer

Site	Bryn Posteg Landfill	Permit Ref	BU77661C		
Operator/Permit holder	Sundorne Products (Ilanidloes) Ltd				
Regime	Installations				
Date of assessment	23/06/2017	Time in	09:30	Out	12:00
Assessment type	Site Inspection				
Parts of the permit assessed	Emissions, site infrastructure				
Lead officer's name	Zachary, Aled				
Accompanied by					
Recipient's name/position	David Williams/ Technical Manager	Date issued	08/02/2018		

### Section 1 – Compliance Assessment Summary

This is based on the requirements of the permit under the Environmental Permitting Regulations or the licence under the Water Resources Act 1991 as amended by the Water Act 2003. A detailed explanation is captured in "Compliance Assessment Report Detail" (Section 2) and any actions you may need to take are given in the "Action(s)" (section 4). This summary details where we believe any non-compliance with the permit has occurred, the relevant condition and how the non-compliance has been categorised using our Compliance Classification Scheme (CCS). CCS Scores can be consolidated or suspended where appropriate, to reflect the impact of some non-compliances more accurately. For more details of our CCS scheme, contact your local office.

Permit conditions and compliance summary	CCS Category	Condition(s) breached
B1 - Infrastructure - Engineering for prevention and control of emissions	C2	3.3.1
E3 - Emissions - Surface water	C3	3.1.1
F1 - Amenity - Odour	C2	3.4.1

**KEY:** See Section 5 for breach categories, suspended scores will be indicated as such.

**A** = Assessed or assessed in part (no evidence of non-compliance), **X** = Action only,

**O** = Ongoing non-compliance, not scored.

<b>Number of breaches recorded</b>	<b>3</b>	<b>Total compliance score</b> (see section 5 for scoring scheme)	<b>66</b>
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If the Number of breaches recorded is greater than zero, please see Section 3 for our proposed enforcement response

## Section 2 – Compliance Assessment Report Detail

This section contains a report of our findings and will usually include information on:

- The part(s) of the permit that were assessed (eg. Maintenance, training, combustion plant, etc)
- Where the type of assessment was 'Data Review' details of the report/results triggering the assessment
- Any non-compliances identified
- Any non-compliances with directly applicable legislation
- Details of any multiple non-compliances
- Information on the compliance score accrued inc.
- Details of advice given
- Any other areas of concern
- Any actions requested
- Any examples of good practice
- A reference to photos taken

### 1. Offsite Odour:

**Permit Condition 3.4.1** states emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise those emissions.

#### **Findings:**

##### **F1 - Amenity Odour.**

Very strong landfill gas odours were detected off site and around the site entrance and Cells 9D(ii) and 9D(i). Landfill gas extraction infrastructure is still not to the required standards to reduce and minimise these odours due to gas emissions

No works have been carried out to abate or reduce the release of Hydrogen Sulphide (H<sub>2</sub>S) from the leachate stored in the intermediate storage lagoon. The use of a "media cover" or pre treatment of leachate to reduce and prevent de-gassing of the lagoon or treatment prior to storage has been discussed at length but no such improvement works have been completed.

The working area of the active landfill cell is also still very large and generally lacking in daily cover, this is creating issues with emissions, water ingress and ultimately effective control of odours:



These issues as a whole are deemed a breach of condition 3.4.1

**Due to the ongoing impact of odour from the site on local residents these issues have been scored a Category 2 breach of the permit requirements.**

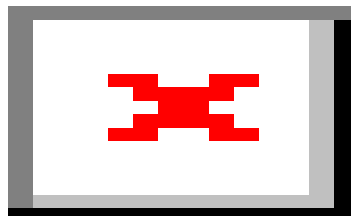
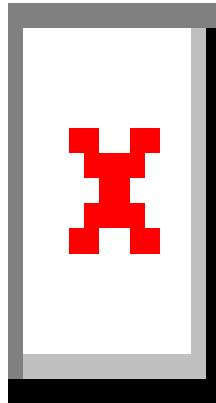
### 2. Gas and Leachate Control Infrastructure.

**Permit Condition 3.3.1** states that fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The operator shall not be taken to have breached this condition where appropriate measures have been taken to prevent, or where that is not practicable, minimise, those emissions.

## Findings:

### B1 - Engineering for prevention and control of emissions.

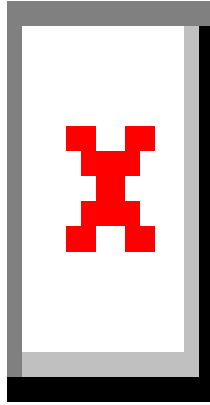
**Leachate:** Levels in the landfill cells appear to be better managed and no outbreaks from cells 9D(I) or 9D(ii) were noted at the time of inspection. However, on the eastern side of the site adjacent to phase 3 a leachate outbreak from one of the sumps was noted. This was flowing over the haul road and into an old surface water treatment sump:



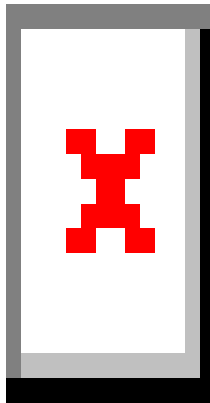
### Landfill Gas Emissions:

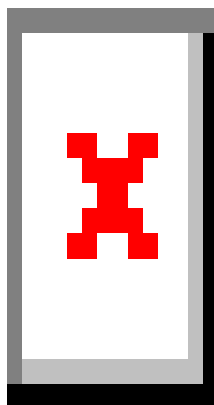
Emissions monitoring of various areas of the operational or recently operation cells was done via a Gazomat Laser diode methane detector. The results are summarised below in parts per million (ppm) Methane recorded:

- Between **400ppm - 5,000ppm** detected from the western flank of Cell 9D(ii) along the western edge, opposite the MRF and adjacent to the cell entrance:

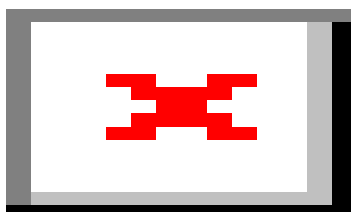


- Gas wells and leachate towers adjacent to the cell entrance of 9D(ii) and the top of the waste batter on the western edge was noted as **under positive pressure** with significant odour present. **10,000ppm - 540,000ppm (54%)** recorded from them. These were both unconnected to the gas extraction system with significant odour around them recorded:





- Up to 23% was recorded from a hole in the surface near the intercept of cells 9A/9B:



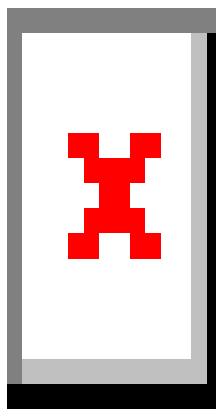
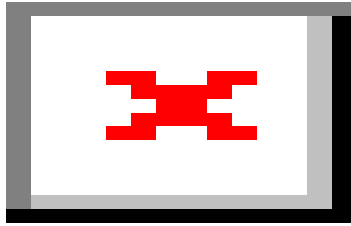
The above issues are considered breaches of conditions 3.3.1 and have been scored a Category 2 breach of the permit requirements as a result.

### **3. Emissions to Surface Water.**

**Permit Condition 3.1.1** states that there shall be no point source emissions to water, air or land, except from the sources and emission points listed in schedule 4, tables S4.2, S4.3 and S4.4

#### **Findings:**

The sump and float driven pump adjacent to the leachate treatment lagoon, that was constructed as a result of the lagoon failure in March 2017, was pumping to the storage lagoon at the time of inspection. The hose discharging the leachate from the sump to the storage lagoon was leaking leachate from a faulty coupling. This leachate was discharging down the access road and into the eastern surface water ditch:



As the weather conditions were dry at the time of inspection this could have been impacting upon the quality of the surface water drainage and subsequently the receiving Nant-y-Bradnant. It was requested that the pump was either switched off or the hose repaired before any further pumping of leachate from this temporary collection sump.

**This issue is deemed a breach of condition 3.1.1 and has been scored a Category 3 breach of the permit requirements.**

The above issued were discussed with site manager Tony Webber before I departed site.

## EPR Compliance Assessment Report

**Report ID:  
CAR\_NRW0032856**

**This form will report compliance with your permit as determined by an NRW officer**

Site	Bryn Posteg Landfill	Permit Ref	BU7766IC
Operator/Permit holder	Sundorne Products (Ilanidloes) Ltd	Date	23/06/2017

### Section 3 – Enforcement Response

You must take immediate action to rectify any non-compliance and prevent repetition. Non-compliance with your permit conditions constitutes an offence and can result in criminal prosecutions and/or suspension or revocation of a permit. Please read the detailed assessment in Section 2 and the steps you need to take in Section 4 below.

We will now consider what enforcement action is appropriate and notify you, referencing this form.

### Section 4 – Action(s)

This section summarises the actions identified during the assessment along with the timescales for when they will need to be completed.

Criteria Ref.	CCS Category	Action required/advised	Due Date
See Section 1 above			
E3	C3	Ensure the temporary sump and associated pumping equipment is inspected and maintained on a daily basis to prevent point source emissions of leachate to surface water.	07/07/2017
B1	C2	<p>1. Investigate the causes and failures of the leachate sump on Phase 3 as soon as is practicable and remove any contaminated surface water to the leachate treatment plant.</p> <p>2. Investigate and address all areas of high ambient and point source gas emissions identified in this report. Implement the use of regular emissions monitoring via FID or Laser Diode Methane detection to prevent and detect further emissions.</p> <p>3. Use measures such as temporary and permanent capping (but not limited to) to reduce fugitive emissions of landfill gas by 31/10/17</p>	31/10/2017
F1	C2	<p>Use appropriate measures to reduce and minimise the emission of landfill gas and other sources of odour on site, including but not limited to:</p> <ul style="list-style-type: none"> <li>- Identification and remediation of point sources of odour</li> <li>- Landfill gas extraction and control</li> <li>- Use of appropriate levels and types of daily cover</li> <li>- Use of temporary capping - Minimisation of odour from leachate treatment process</li> <li>- Reducing the active tipping area to a more manageable size</li> </ul>	31/10/2017





## Section 5 – Compliance notes for the Operator

To ensure you correct actual or potential non-compliance we may

- Advise on corrective actions verbally or in writing
- Require you to take specific actions verbally or in writing
- Issue a notice
- Require you to review your procedures or management system
- Change some of the conditions of your permit
- Decide to undertake a full review of your permit

Any breach of a permit condition is an offence and we may take legal action against you

- We will normally provide advice and guidance to assist you to come back into compliance either after an offence is committed or where we consider that an offence is likely to be committed. This is without prejudice to any other enforcement response that we consider may be required.
- Enforcement action can include the issue of a formal caution, prosecution, the service of a notice and/or suspension or revocation of the permit.

**See our Enforcement and Civil Sanctions guidance for further information**

This report does not relieve the site operator of the responsibility to

- Ensure you comply with the conditions of the permit at all times and prevent pollution of the environment
- Ensure you comply with other legislative provisions which may apply

### Non-compliance scores and categories

CCS category	Description	Score
C1	A non-compliance that could have a major environmental effect	60
C2	A non-compliance which could have a significant environmental effect	31
C3	A non-compliance which could have a minor environmental effect	4
C4	A non-compliance which has no potential environmental effect	0.1

**Operational Risk Appraisal (Opra)** - Compliance assessment findings may affect your Opra score and/or your charges. This score influences the resource we use to assess permit compliance.

## Section 6 – General information

### Data protection notice

The information on this form will be processed by the Natural Resources Wales (NRW) to fulfil its regulatory and monitoring functions and to maintain the relevant public register(s). The NRW may also use and/or disclose it in connection with:

- Offering/providing you with its literature/services relating to environmental matters
- Consulting with the public, public bodies and other organisations (eg. Health and Safety Executive, local authorities) on environmental issues
- Carrying out statistical analysis, research and development on environmental issues
- Providing public register information to enquirers
- Investigating possible breaches of environmental law
- Assessing customer service satisfaction and improving its service
- Freedom of Information Act/Environmental Regulations request

The NRW may pass it on to its agents/representatives to do these things on its behalf. You should ensure that any persons named on this form are informed of the contents of this data protection notice.

### Disclosure of information

The NRW will provide a copy of this report to the public register(s). However, if you consider that any information contained in this report should not be released to the public register(s) on the grounds of commercial confidentiality, you must write to your local area office within fifteen working days of receipt of this form indicating which information it concerns and why it should not be released, giving your reasons in full.

### Customer charter

#### What can I do if I disagree with this compliance assessment report?

If you are unable to resolve the issue with your site officer, you should firstly discuss the matter with officer's line managers using the informal appeals procedure. If you wish to raise your dispute further through our official Complaints and Commendations procedure, phone our general enquiry number 0300 065 3000 (Mon to Fri 08.00 – 18.00) and ask for the Customer Contact team or send an email to [enquiries@naturalresourceswales.gov.uk](mailto:enquiries@naturalresourceswales.gov.uk). If you are still dissatisfied you can make a complaint to the Public Services Ombudsman for Wales. For advice on how to complain to the Ombudsman phone their helpline on 0845 607 0987.

#### Welsh Language

If you would like this form in Welsh please contact your Regulatory Officer.