

## Compliance Assessment Report CAR\_NRW0046419

**Permit being assessed:** DP3732SQ.

**For:** Bryn Pica Landfill EPR/DP3732SQ, **held by:** Cynon Valley Waste Disposal Company Ltd

**At:** Bryn Pica Landfill Site , Llwydcoed, Aberdare, Rhondda-Cynon-Taff, CF44 0BX.

**Type of assessment:** Report/Data Review,

**Reason:** Routine.

**On:** 31/12/2024.

**Parts of permit assessed:** Annual Report.

**NRW Lead Officer:** Mostyn Wall.

**Report sent to:** Lee Foulkes, Site Manager, on 21/02/2025.

### 1. Summary of our findings (full details in section 4)

Part of permitted activity assessed (compliance criteria)	Assessment result	Permit condition
IR3A(3) - Installations - Emissions and monitoring - Emissions to land	C3 Minor	3.6.1
IR3A(3) - Installations - Emissions and monitoring - Emissions to land	Action only (X)	
IR3A(3) - Installations - Emissions and monitoring - Emissions to land	Action only (X)	
IR3A(3) - Installations - Emissions and monitoring - Emissions to land	Action only (X)	

Result types are explained in more detail in the 'Important Information' section below.

Total non-compliances recorded	Total non-compliance score
1	4

How we use the non-compliance score to calculate your annual fee is explained in the 'Important Information' section below.

### 2. What action is required?

Criteria	Action needed	Complete by
IR3A(3)	Site to investigate the Napthalene permit non-compliance	31/03/2025
IR3A(3)	Site to send the analytical report and method for the	31/03/2025

Criteria	Action needed	Complete by
	Napthalene test undertaken in October 2023.	
IR3A(3)	Site to send the laboratory report for the Zinc sample taken in October 2024.	31/03/2025
IR3A(3)	Site to contact the owner of the industrial installation to understand the processes and material uses at the site and potential for contamination of the groundwater monitoring point from other non-landfill sources.	31/03/2025

Compliance criteria codes are listed in the 'Important information' section below.

### 3. What will happen next?

Any non-compliance we have identified and recorded on this form is an offence. It can result in criminal prosecution and/or suspension or revocation of your permit.

**You are non-compliant with your permit.**

**We are currently considering taking enforcement action against you for the non-compliance recorded above. We will contact you in due course.**

### 4. Details of our assessment

#### **Bryn Pica Annual Report 2024**

The site submitted the annual report to NRW on the 10.2.2025.

The annual report constitutes Amgen's submission under 4.2 (a) of the Environmental Permit for the Bryn Pica Landfill Site and includes analysis of results of the following monitoring tasks:

- Leachate Monitoring
- Surface Water Quality Monitoring
- Groundwater Quality Monitoring
- Landfill Gas Monitoring

The report also outlines the sites improvement targets, performance parameters for 2024, annual production and treatment and the topographical survey.

#### **Leachate Monitoring**

Throughout the period Jan 24 – Dec 24 Amgen Cymru carried out leachate monitoring at 7 fixed points and taking 90 samples in total. Monthly leachate dips results show that the leachate levels within the landfill site continue to be maintained within the 1m (above the basal liner) required by the Environmental Permit.

#### **Groundwater monitoring**

Site measures 4 points, 1 upstream and 3 downstream. Quarterly and monthly samples are taken from the 4 points. A total of 43 groundwater samples were taken in 2024.

A single exceedance of the compliance threshold for Zinc was recorded from well GW 7 in October 2024 0.35mg/l against the compliance limit of 0.32 mg/l. The site noted that the sample point is located adjacent to a large industrial complex where metal cables are manufactured and that all other landfill indicators such as chloride and ammonia are low. Previous years Zinc levels have also been below the compliance limit.

**Action.** Site to send the laboratory report for the Zinc sample taken in October 2024.

**Action.** Site to contact the owner of the industrial installation to understand the processes and material uses at the site and potential for contamination of the groundwater monitoring point from other non-landfill sources.

3 out of 8 groundwater samples analysed for Napthalene returned positive values of 0.0006 mg/l. These were detected at all three down-gradient groundwater monitoring points in October 2024 and are above the compliance threshold of 0.0001 mg/l and are considered a non-compliance.

The site states that the results are expected to be some form of contamination of samples within the laboratory or an erroneous feature of the analytic methodology. Further evidence is required to conclude that the results are from contamination or failure of the analytic method.

**Non-compliance:** A category 3 non-compliance is given due to the exceedance of the ELV for Napthalene during October 2024 in wells GW5, GW6 and GW7. This is a breach under condition 3.6.1. It is an offence under Regulation 38(2) of the Environmental Permitting Regulations (consolidated 2016) to breach a permit condition or emission limit. Non-compliance score 4.

**Action:** Site to send the analytical report and method for the Napthalene test undertaken in October 2023.

**Action:** Site to investigate the Napthalene permit non-compliance.

All other groundwater samples were compliant with the permit.

**Surface Water** – all samples were compliant with the permit.

### **Landfill Gas**

The site has 15 fixed ground monitoring boreholes. Two wells have significant methane levels.

Well GMBH08-01 has an average CH<sub>4</sub> concentration of 33% in 2024 and is connected to the gas collection network and flare.

Well GMBH06-06 has an average CH4 concentration of 22% but has a low relative negative and positive pressure. The low pressure of the well indicates that the well probably has no flow

The low flow, absence of hydrogen sulphide and positive pressure of GMBH06-06 indicates that the well does not form a significant environmental risk. However the long term exceedance at this location will be investigated during a landfill gas audit in 2025.

### Remaining Void

The remaining void at the landfill is calculated to be 2,765,440 cubic meters.

### Performance Parameters 2024

<b>S5.3 Performance Parameters 2024</b>			
<b>Parameter</b>	<b>Frequency of Assessment</b>	<b>Annual Total</b>	<b>Unit</b>
Potable water use	Annually	N/R	Cubic meters
Energy used	Annually	333.94	MW of electricity
Non potable water use	Annually	0	Cubic meters

### Annual Production & Treatment

<b>Table S5.2: Annual (2024) Production / Treatment</b>	
<b>Leachate:</b>	<b>Cubic meters/year</b>
Disposed of off-site;	43,337
Disposed of to any onsite effluent treatment plant;	0
Recirculated into the waste mass;	0
<b>Surface water and / or groundwater:</b>	<b>Cubic meters/year</b>
Disposed of off-site;	n/r
Disposed of to any onsite effluent treatment plant;	0
<b>Landfill Gas:</b>	<b>Normalised cubic meters/year</b>
Combustion in flares (estimated)	TBC
Combustion in gas engines (estimated)	TBC
Other methods of gas utilisation;	0

End.

If you have any queries about this report, or to discuss completion of any actions, please contact the NRW Officer named above.

## Important information

### Legal status of this report

Your permit is issued to you under the Environmental Permitting Regulations. You have a responsibility to comply with the conditions of your permit and prevent pollution/harm of the environment. You must also ensure that you comply with any other relevant legislation that may apply to your site's operations.

This report explains the findings of our assessment and any action you are required to take. We categorise non-compliance using our guidance for assessing non-compliance at regulated sites.

When we find potential non-compliance/s we will normally give you advice on how to maintain compliance.

To correct non-compliance, we may:

- require you to take specific actions
- issue a notice
- review the conditions of your permit.

Any advice and guidance we give will be without prejudice to any other enforcement response that we consider may be required.

### Assessment results and non-compliance categories (used in section 1):

Assessment result	Description
Assessed (A)	Assessed or assessed in part, no evidence of non-compliance found
Action only (X)	Action only relating to the activity assessment
Ongoing (O)	Ongoing non-compliance, not scored

Non-compliance category	Description	Score
C1 Major	Potential to have a major, serious, persistent and/or extensive impact or effect on the environment, people and/or property	60
C2 Significant	Potential to have a significant impact or effect on the environment, people and/or property	31
C3 Minor	Potential to have a minor or minimal impact or effect on the environment, people and/or property	4
C4 No environmental impact	Non-compliance at a regulated site that cannot foreseeably have any impact on the environment, people and/or property	0.1

### How we use assessment scores

The number and severity of non-compliances recorded in a year will affect your annual subsistence fee the following year. A non-compliance factor is added to your site's Operator

Performance Risk Appraisal (OPRA) score when we calculate your fee to reflect the additional resource we use to assess permit compliance.

**If your assessment result in Section 1 is suspended, what does this mean?**

In line with our guidance, we may suspend scores for up to six months to allow time for remedial action to be taken. Suspended scores will be re-instated if the action is not completed.

**Full list of Industry compliance criteria (used in section 1 and 2):**

**1. Management**

- IR1A – General management
- IR1B – Finance (only applicable to Landfill)
- IR1C – Energy efficiency
- IR1D - Efficient use of raw materials
- IR1E - Avoidance, recovery and disposal of wastes produced by the activities
- IR1F - Multiple operator installations

**2. Operations**

- IR2A – Permitted activities
- IR2B – The site
- IR2C – Operating techniques
- IR2D – Technical requirements
- IR2E – Improvement programme
- IR2F – Pre-operational conditions
- IR2G – Landfill engineering (only applicable to Landfill)
- IR2H – Waste acceptance (only applicable to Landfill)
- IR2I – Leachate levels (only applicable to Landfill)
- IR2J – Closure and aftercare (only applicable to Landfill)
- IR2K – Landfill gas management (only applicable to Landfill)

**3. Emission and Monitoring**

- IR3A – Emissions to water, air or land
- IR3B – Emissions of substances not controlled by emission limits
- IR3C – Odour
- IR3D – Noise and vibration
- IR3E – Monitoring
- IR3F – Pests
- IR3G – Air quality management plans
- IR3H – Monitoring for the purposes of the Industrial Emissions Directive (this heading includes Large Combustion Plants)
- IR3I – Fire

**4. Information**

- IR4A – Records
- IR4B – Reporting
- IR4C – Notification

**Enforcement response**

Any non-compliance with a permit condition is an offence and we may take legal action against you. Action we take can include prosecution, serving a notice on you and/or

suspension or revocation of your permit. See our Enforcement and Sanctions Guidance for further information.

### **Data protection notice**

You should make sure that anyone named in this report knows that the information it contains will be processed by Natural Resources Wales to fulfil its regulatory and monitoring functions and to maintain the relevant public register(s).

We may also use and/or disclose the report in connection with:

- offering or providing you with our literature or services relating to environmental matters
- consulting with the public, public bodies and other organisations (e.g. 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 our service
- Freedom of Information Act or Environmental Information Regulations requests.

We may also pass it on to our agents or representatives to do these things on our behalf.

### **Disclosure of information – this report will be available to view on-line**

If you think this report contains commercially confidential information that should not be placed on our public register, you must contact your local Natural Resources Wales office within **fifteen working days** of receiving this report, using the contact details in the accompanying email or letter. You must give a full explanation of why it should not be added to our public register, including specifying which information is commercially confidential. We will assess your request and respond to you within twenty working days to let you know if we agree to your request.

### **What do I do if I disagree with the report or have a complaint?**

If you disagree with this compliance assessment report, you should contact the lead officer without delay to discuss your concerns.

If you are unable to resolve the issue with the lead officer or their line manager you should contact our Customer Contact team on 0300 065 3000 (Monday to Friday 08:00 to 18:00), or email [enquiries@naturalresourceswales.gov.uk](mailto:enquiries@naturalresourceswales.gov.uk) for details of how to raise your dispute further through our Complaints and Commendations procedure.

If you are dissatisfied with our response, you can contact the Public Services Ombudsman for Wales by phone on 0300 7900203 or by email at [ask@ombudsman.wales](mailto:ask@ombudsman.wales)

### **Welsh Language Standards**

We are committed to establishing Natural Resources Wales as a naturally bilingual organisation. We will provide compliance reports in your preferred language.