

PB Gelatins Annual Environmental Performance Report 2023

Permit No: EPR/DP3030ZC

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This report is submitted in accordance with the requirements of permit condition 4.2.2

1. REVIEW OF EMISSIONS

No point source emissions to air or land have been recorded except from the sources and emission points listed in schedule 3 tables. The limits given in schedule 3 have not been exceeded during 2024.

2 Gas fuelled space heaters to raise the ambient air temp in the New Farm building. The exhaust vents from these heaters have been included in the Permit Variation.

2. REVIEW OF MONITORING

2.1 Monitoring - Site Effluent

Table S3.3 Process Monitoring Requirements – Site Effluent

	Parameter	Monitoring frequency	Monitoring method
DP1	pH	Continuous Monthly*	Sample analysis by Welsh Water
DP1	Suspended Solids	Monthly *	Sample analysis by Welsh Water
DP1	COD	Monthly *	Sample analysis by Welsh Water
DP1	Discharge Flow	Continuous *	Sample analysis by Welsh Water

Site Effluent - Monitoring Results

Welsh Water analysed 13 effluent samples during 2024. There were 3 occasions where the samples were out of the consent compliance limits, for pH. All of the issues were investigated and appropriate actions introduced.

**sampling now takes place on a monthly basis, a frequency that is determined by Welsh Water*

2.2 Monitoring - Odour

Table S3.3 Process Monitoring Requirements – Odour

Emission point ref	Parameter	Monitoring Frequency	Monitoring method
Site perimeter	Odour	Daily	Sniff testing

2.3 Monitoring - Groundwater

Periodic monitoring of groundwater will be carried out every 5 years. Next report to be submitted January 2026

2.4 Monitoring - Soil

Periodic monitoring of soil will be carried out every 10 years. Report submitted September 2022. Next report to be submitted September 2032.

3. COMPLAINTS

3.1 Dust Complaints

No dust complaints were received in 2024.

3.2 Odour Complaints

1 odour complaint was received in 2024.

3. REVIEW OF ENERGY EFFICIENCY

A review to identify suitable opportunities to improve the energy efficiency of the activities at PB Gelatines is taking place yearly.

There was a 1.2% decrease in the amount of electrical consumption in 2024 compared to 2023, and there has been a 13.7% increase in electricity consumed per tonne of gelatine produced.

There was a 9.9% decrease in the amount of gas consumed in 2024 compared to 2023, which has resulted in a 3.6% increase in gas consumed per tonne of gelatine produced. The total energy usage in 2024 compared to 2023 is 9.0% decrease, which has resulted in a 4.7% increase in energy consumed per tonne of gelatine produced.

4. REVIEW OF RAW MATERIAL AND WATER

A review to identify whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water will take place on a yearly basis.

Net production of Gelatine decreased by 13.1% from previous year with a 13.6% decrease of raw material used in 2024 compared to 2023 but there has been 0.6% decrease per tonne of gelatine.

There was a 16.6% decrease in the amount of Ossein sludge waste in 2024 compared to 2023, which has resulted in a 4.1% decrease of Ossein sludge waste per tonne of gelatine.

There was a 53.1% decrease in the amount of solid bone waste in 2024 compared to 2023, and there has been a 46.0% decrease of solid bone waste per tonne of gelatine produced.

The decreases in the generation of the solid bone waste, is associated the reduced throughput and utilising the extraction residue system to increase the yield.

Mains water (domestic use – nonproduction) use has decreased by 31.3% from last year.

There was a 4.4% decrease in the abstracted water used in 2024 compared to 2023, which has resulted in a 9.9% increase in water abstracted per tonne of gelatine.

There was a 4.8% decrease in the total water used in 2024 compared to 2023, which has resulted in a 9.5% increase in the total water used per tonne of gelatine.

5. ASSESSMENT OF PERFORMANCE PARAMETERS AS SET OUT IN SCHEDULE 4 TABLE S4.2

5.1 Form Sewer 1

Parameter	Quantity	Units
Effluent solids	348	Tonnes
Effluent liquid discharged	633,992	M ³

7.2 Form Performance 1

Parameter	Quantity	Units
Total raw material used (Ossein only)	30,944	Tonnes
Gelatin produced	5,406	Tonnes
Ossein sludge waste	8,913	Tonnes
Solid bone waste	435	Tonnes

7.3 Form Water Usage 1

Parameter	Quantity	Units
Mains water	7,046	M ³
Abstracted water	764,117	M ³
Total water usage	771,163	M ³

7.4 Form Energy Usage 1

Parameter	Quantity	Units
Electricity consumption	8,867	MWh
Gas consumption	68,069	MWh
Diesel consumption	59	
Total energy usage	76,995	MWh

6. PERMIT COMPLIANCE ASSESSMENT REPORTS

3 Compliance Assessment Reports were received from NRW in 2024

7. ADDITIONAL ENVIRONMENTAL IMPROVEMENTS

- The A21 Effluent treatment system has been constructed to reduce any potential pollution incidents of the River Taff and ground water. The system has been commissioned and is now operational. The approval to discharge directly to DCWW sewer in Severn Road is being processed.
- The pipe work configuration and control philosophy for the A18 effluent pumping system, has been improved to reduce the level of failures and increase the data capture and monitoring of the system.
- Improvements has been made to the drier wash back system, so increasing the volume of gelatin that can be reprocessed, when washing out the steriliser systems.