

Compliance Assessment Report CAR_NRW0049141

Permit being assessed: BU2349IL.

For: Alyn Works, **held by:** Synthite Limited

At: Denbigh Road, Mold, Flintshire, CH7 1BT.

Type of assessment: Report/Data Review,

Reason: Routine.

On: 30/06/2025.

Parts of permit assessed: See Below.

NRW Lead Officer: Philip Harper.

Report sent to: Technical Manager, Technical Manager, on 12/09/2025.

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

Part of permitted activity assessed (compliance criteria)	Assessment result	Permit condition
IR3A(1) - Installations - Emissions and monitoring - Emissions to water	Assessed (A)	
IR3A(2) - Installations - Emissions and monitoring - Emissions to air	C3 Minor	3.1.2
IR3A(2) - Installations - Emissions and monitoring - Emissions to air	C3 Minor	3.1.2
IR1A - Installations - Management - General Management	C2 Significant (Suspended)	1.1.1

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

Total non-compliances recorded	Total non-compliance score
3	8

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(2)	See actions in main text.	01/09/2025
IR3A(2)	See actions in main text	01/09/2025
IR1A	See actions in main text.	01/09/2025

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

Quarterly Monitoring of Results- Q2 (April – June), due 30th June 2025.

Quarter 2 monitoring data for Synthite Limited, Mold Chemicals (Alyn Works), Denbigh Road, Mold, Flintshire, CH7 1BF was submitted to Natural Resources Wales in accordance with permit condition 4.2.3.

Emissions to Water W1

Emissions to Water

Monitoring for water emissions has been undertaken in accordance with the environmental permit, the following observations have been made;

Volumetric Flow Rate

A maximum discharge volume of 358 m³ at W1 was reported against the permitted emission limit of 700 m³ per day, which was recorded on the 26th June 2025.

No permitted emissions level breaches have been identified.

Emissions to Sewer S1

Monitoring for emissions to sewer at S1 has been undertaken in accordance with the environmental permit.

No permitted emissions level breaches have been identified

Emissions to Air

Emission Points A10 and A11

No data has been provided for emission points A10 and A11. These emission points are associated with the paraformaldehyde grinding process and are no longer operational.

Emission Point A12- Fabric Filters Paraformaldehyde ProductionFormaldehyde

Monitoring for formaldehyde at A12 was undertaken on the 22nd April 2025. A result of 6.5 mg/m³ was provided. This is a breach of the permitted limit of 5 mg/m³.

A category 3 score has been applied against permit condition 3.1.2 (IR3A(2)) Emissions to water, air or land.

A schedule 5 notification was received for breach on the 16th June 2025, which provided the following information;

"The bag filter pressure sensor was reading 1.4 inches of water at 10:30 on 16/05/2025. This reading was within the permitted values of 1 to 2 inches of water."

Part B of the notification describes an intention to trial the use of a different type of filter.

Actions relating to emission point A12 have been provided in CAR_NRW0048236 which was sent to the operator on the 16th July 2025. These actions are still ongoing.

Emission Point A15- Wet Scrubber, Tanker Loading of FormalinFormaldehyde

Monitoring for formaldehyde at A15 was undertaken on the 30th April 2025. A result of 47.5 mg/m³ was provided. This is a breach of the permitted limit of 5 mg/m³.

A category 3 score has been applied against permit condition 3.1.2 (IR3A(2)) Emissions to water, air or land

A schedule 5 notification was received for breach on the 16th June 2025

Actions relating to emission point A15 have been provided in CAR_NRW0048236 which was sent to the operator on the 16th July 2025. NRW is currently reviewing these responses.

Management SystemAir Emissions

Continued air emissions exceedances indicate that data is not being reviewed adequately at the time of receipt. Some air emissions points have seen levels over their permitted limit for over 12 months.

NRW note some improvement has been made following the previous monitoring data submission. The operator also has ongoing actions in relation to its environmental management system as provided within compliance assessment report CAR_NRW0048236 which was issued on the 16th July 2025. Continued non-compliance has attracted a category 2 score which has been suspended due to ongoing actions. A response to these actions was received on the 1st September 2025 and is

currently being reviewed by NRW.

A category 2 score has been applied against permit condition 1.1.1 IR1A management (suspended).

Action 1: Continue to monitor and investigate any trends.

Kind Regards

Phil Harper

Industry and Waste Regulation Officer NW

03000 65 3717/ 07890025506

philip.harper@cyfoethnaturiolcymru.gov.uk

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 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

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.