

Compliance Assessment Report CAR_NRW0051172

Permit being assessed: BK6483IU.

For: Deeside Engine Casting Plant, **held by:** Toyota Motor Manufacturing (UK) Ltd

At: Toyota Motor Manufacturing (UK) Ltd, Zone 3, Deeside Industrial Park, Deeside, Flintshire, CH5 2TW.

Type of assessment: Report/Data Review,

Reason: Routine.

On: 26/03/2026.

Parts of permit assessed: See below.

NRW Lead Officer: Rick Prichard.

Report sent to: Principal Engineer, Principal Engineer, on 26/03/2026.

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

Part of permitted activity assessed (compliance criteria)	Assessment result	Permit condition
IR3A(2) - Installations - Emissions and monitoring - Emissions to air	Assessed (A)	
IR4B - Installations - Information - Reporting	Assessed (A)	
IR4C - Installations - Information - Notification	Assessed (A)	

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

Total non-compliances recorded	Total non-compliance score
0	0

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?

No action required.

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.

At this time, we do not intend to take any further action.

This statement does not stop us from taking additional enforcement action if further relevant information comes to light or offences continue.

4. Details of our assessment

This Compliance Assessment Report relates to the monitoring and reporting requirements in Permit EPR-BK6483IU in that a Schedule 5 Part A Notification was received on 03/11/25, in relation to fugitive dust emissions, with a dust result of 7.7 mg/m³ against the emission limit of 5mg/m³, as follows:

Schedule 5 Notification - ST12 Low Pressure Casting Sand Knockout Process for ST12. This was discussed with the operator and dealt with by CAR_NRW0050017.

The Schedule 1 Part B Notice was received by NRW on 18/03/26 outlining the initial assessment of the cause of the problem as follows:

An inspection of the Knock Out air extraction abatement found a small hole in one of the filters allowing dust to bypass the abatement. The filter was replaced and the process returned to standard condition. The process was restarted on 06/11/25. A follow up inspection of the abatement found a metal deflector plate with a small hole in it and that this hole aligned with the hole in the defective filter. It was clear that the hole in both the metal deflector plate and the cartridge filter had been caused by the abrasion from the ceramic beads travelling through the extraction system at velocity and over time.

It is likely that over time, abrasion of the deflector plate occurred from repeated contact with sand/ceramic bead particles travelling at velocity. This abrasion and the thinning of the metal would not necessarily have been evident upon annual inspection of the filter housing - the metal would have remained smooth and unmarked to the naked eye as the abrasion acted like a very fine 'sanding' of the surface.

Countermeasures

The immediate countermeasure was replacement of the defective filter and deflector plate. The ST12 exhaust stack was monitored by an MCERTS contractor again on 20/11/25 and achieved a compliant result of 0.2 mg/m³.

To prevent a reoccurrence, several changes have been made to both the filter housing design and preventative maintenance schedule. The filter housing has been fitted with a second air inlet from the Knock Out process. As the extraction rate remains unchanged, the air velocity into the modified filter housing has been effectively halved. This should significantly reduce the abrasion effect from the ceramic beads both of the deflector plate and the filters. The velocity exiting ST12 remains unchanged.

In addition to the filter housing modification, two preventative maintenance measures have been implemented.

Firstly the filter housing will be visually checked monthly on the clean side after the filter abatement. Any particulate found in this section will indicate a potential abatement failure. A similar visual check will take place in the filter housing looking for holes in the deflector plates and internal walls.

The second measure is to replace the filters on an annual basis regardless of condition to avoid any hidden weak spot in the filter integrity worsening. All countermeasures have been fully implemented.

Based on the information provided and the countermeasures taken, we are satisfied that the operators

response should be effective in reducing the likelihood of breaches to the emission limits in the future.

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 required for the permit condition assessed to avoid non-compliance. No non-compliance scored at this time
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(1) – Emissions to water
- IR3A(2) – Emissions to air
- IR3A(3) – Emissions to 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.

Disputing the Content of this Compliance Assessment Report Form

If you disagree with the content of this Compliance Assessment Report form, you should submit your concerns, in writing, to the regulating officer who issued it within **15 working days** of its issue. This will be treated as a **Stage 1 review**.

If you are not satisfied with the outcome of the stage 1 review, you may request a **Stage 2 appeal**. This request must be submitted **within 21 working days** of receiving the response from the stage 1 review.

Further details on our review and appeal process are available at: [Natural Resources Wales / Appeal a regulatory decision from Natural Resources Wales](#)

Concerns Not Related to the Content of this Compliance Assessment Report Form

If your concerns do not relate to the content of the Compliance Assessment Report form, you should first attempt to resolve the issue with the regulating officer or their line manager.

If the issue remains unresolved, please contact our **Customer Contact Team**:

- **Telephone:** 0300 065 3000 (Monday to Friday, 09:00–17:00)
- **Email:** enquiries@naturalresourceswales.gov.uk

They will provide details on how to escalate your concerns through our **Complaints and Commendations procedure**.

If you are dissatisfied with our response, you may contact the **Public Services Ombudsman for Wales**:

- **Telephone:** 0300 790 0203
- **Email:** 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.