

Compliance Assessment Report CAR_NRW0037490

Permit being assessed: BL1096IB.

For: Padeswood Cement Works , held by Castle Cement Limited

At: PADESWOOD WORKS , PADESWOOD, MOLD, MOLD, CLWYD, CH7 4HB.

Type of assessment carried out: Report/Data Review, Reason: Routine.

On 30/09/2020.

Parts of permit assessed: Routine Emissions Monitoring & Returns

NRW Lead Officer: Lara Cubley.

Report sent to: David Quick, Plant Manager on 04/02/2021.

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

Part of permitted activity assessed (criteria)	Assessment result	Permit condition
B5 - Infrastructure - Plant and equipment	C3 Minor	1.1.1
E1 - Emissions - Air	C3 Minor	3.1.1
C2 - General Management - Management system and operating procedures	C3 Minor	1.1.1
G4 - Monitoring and Records, Maintenance and Reporting - Reporting and notification to Natural Resources Wales	C4 No impact	4.3.8

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

Total number of non-compliances recorded	Total non-compliance score
4	12.1

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
B5	See Action 1 in report body	22/03/2021
E1	See Action 2 in report body	22/03/2021
C2	See Actions 3 & 4 in report body	22/03/2021
G4	See Actions 5 & 6 in report body	22/03/2021

Action 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.

At this time, we are issuing you with a warning for the non-compliance recorded above. Warnings may influence future enforcement response for continued or further non-compliance.

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 follows a review of routine monitoring returns and reports for the period 1st July – 30th September 2020 for all permitted emission points to air and water.

Emissions to Water (W1)

Emissions to water for the period July – September 2020 were compliant with the permitted limits during this period.

Emissions to Air

Continuous Monitoring (A5, A8, A9, A15)

All continuous emissions monitoring for the Kiln, Cooler and Cement Mills 3 & 5 was provided as required by the permit and shown to be within the permitted limits during this period.

Notifications

The following table summarises the Part A/B notifications for the period July – September 2020, as required by Condition 4.3 of the Permit.

Date	Incident	Description including compliance and any Actions / Recommendations
10/07/2020	Packing bay Silo 1	Worn valve on blow line with estimated release of 10Kg cement. The valve was installed as part of the VRM project and has been operational for approximately 18 months. NRW considers this to be a breach of Condition 1.1.1 (B5 – CCS3) in that the Operator failed to maintain the valve. The Operator states that the valve has been replaced and a preventative maintenance schedule has been created to inspect on a quarterly frequency. Similar valves are also included within the preventative maintenance programme. ACTION 1: The Operator should also consider the process of adding new plant/equipment whose failure could result in emissions to appropriate preventative maintenance plans prior to commissioning. The Operator must provide a summary in writing to Natural Resources Wales (NRW) detailing how the Operator's Management Systems achieves this by 22/03/21.
24/08/2020	Kiln inlet seal / tipping valve	It is estimated that 50kg calcined feed was released from the kiln inlet seal prior to the kiln being stopped for investigation. NRW considers this to be a breach of Condition 3.1.1 (E1 – CCS3). The Operator's investigation reports that the tipping valve from cyclone 3 failed and was wedged in the feed pipe to cyclone 5. This changed the distribution of the meal and caused the emission. The tipping valve was removed from the feed pipe and the kiln was put back in service with no further issues. The operator reports the kiln will run without a tipping valve at cyclone 3 for the remainder of 2020 until it is replaced during the annual kiln maintenance in January 2021. The Operator also reports that tipping valves within other cyclone feed pipes will be inspected during the annual maintenance and replaced as necessary. The Part B has failed to identify the root cause of this incident and the suggested actions are not considered enough to prevent recurrence. ACTION 2: Please provide further evidence and detail of the investigation in writing to NRW by 22/03/21. Questions to answer are as follows: • Why did the tipping valve fail? • What inspection regime was in place for the tipping valves prior to the incident?

		• What has been the usual life expectancy/frequency of tipping valve replacement? • What was the outcome of the inspection of tipping valves following inspection during the recent January maintenance shutdown? • How have you modified your preventative inspection/maintenance regime following this incident and review of past inspection and maintenance data so as to prevent failure of tipping valves?	
30/08/2020	Silo 6 PRV	Appropriately 10-15kg cement dust was released via silo 6 pressure relief valve (PRV). Compensator failure/split in feed pipe from cyclone 1 to 3 with approximately 30kg released. The Operator's investigation states that the filtration unit of silo 6 was the cause of the release. Several diaphragms within the filter had failed resulting in loss of compressed air pressure leading to loss of filter function. The Part B received 04/01/21 states that the filter's eight weekly preventative maintenance schedule was overlooked during the first lockdown due to the workforce adapting to a new way of working. This resulted in the task remaining active and incomplete on the maintenance system which prevented the PM being issued again. The filter has been repaired and restored to normal working conditions and the PM is back to the eight-weekly schedule. NRW considers this to be a breach of Condition 1.1.1 (C2 – CCS3) in that the management systems in place failed to ensure preventative maintenance was conducted to required timescales. ACTION 3: The Operator must ensure that there is a process in place for monitoring completion of PMs to required timescales, particularly where failure to do so could lead to uncontrolled emissions and breach of permit conditions. Please provide a written summary of such a process employed to NRW in writing by 22/03/21. ACTION 4: The Operator should investigate the maintenance system to ensure any active and incomplete actions do not prevent further PMs being issued. A written summary of this investigation's findings shall be provided to NRW by 22/03/21.	

Other

Alternative raw material / waste derived fuel usage reported as required by the permit.

A new alternative raw material EWC 19 12 12 has been included as a replacement for iron oxide. The date of risk assessment completion is given as 30/10/19. The risk assessment was requested by NRW and this was received on 04/01/21. **NRW considers this to be a breach of Condition 4.3.8 (G4 – CCS4) in that 7 days written notice prior to introduction of a new raw material was not given.** **ACTION 5:** Please respond in writing to NRW with a summary of how you propose to ensure you will fill this permit notification condition in the future?

ACTION 6: Please provide information on the nature of the waste to demonstrate conformance with specification as per permit Condition 2.3.2 table S2.1 by 22/03/21.

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.

What are suspended scores?

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 and Waste action criteria (used in section 1 and 2):**A: Permitted activities**

- A1 Specified by permit

B: Infrastructure

- B1 Infrastructure – Engineering for prevention and control of emissions
- B2 Infrastructure – Closure and decommissioning
- B3 Infrastructure – Site drainage engineering (clean and foul)
- B4 Infrastructure – Containment of stored materials
- B5 Infrastructure – Plant and equipment

C: General management

- C1 General management – Staff competency/training
- C2 General management – Management system and operating procedures
- C3 General management – Materials acceptance
- C4 General management – Storage, handling, labelling and segregation

D: Incident management

- D1 Incident management – Site security
- D2 Incident management – Accidents, emergency and incident planning

E: Emissions

- E1 Emissions – Air
- E2 Emissions – Land and groundwater
- E3 Emissions – Surface water
- E4 Emissions – Sewer
- E5 Emissions – Waste

F: Amenity

- F1 Amenity – Odour
- F2 Amenity – Noise
- F3 Amenity – Dust/fibres/particulates and litter
- F4 Amenity – Pests/birds and scavengers
- F5 Amenity – Deposits on road

G: Monitoring and records, maintenance and reporting

- G1 Monitoring and records, maintenance and reporting – Monitoring of emissions and environment
- G2 Monitoring and records, maintenance and reporting – Records of activity, site diary/journal/events
- G3 Monitoring and records, maintenance and reporting – Maintenance records
- G4 Monitoring and records, maintenance and reporting – Reporting and notification to Natural Resources Wales

H: Resources efficiency

- H1 Resource efficiency – Efficient use of raw materials
- H2 Resource efficiency – Energy efficiency

Enforcement response

Any permit condition non-compliance 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 20 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 – 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.