

Compliance Assessment Report CAR_NRW0045070

Permit being assessed: LP3030XA.

For: Cardiff Energy Recovery Facility, **held by:** Viridor Trident Park Limited

At: Trident Park, Glass Avenue, Cardiff, CF24 5EN.

Type of assessment: Report/Data Review,

Reason: Routine.

On: 10/07/2024 - 28/08/2024.

Parts of permit assessed: Monitoring Returns.

NRW Lead Officer: Geraint Harris.

Report sent to: Tim Stamper, Plant Manager, on 28/08/2024.

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

Part of permitted activity assessed (compliance criteria)	Assessment result	Permit condition
IR3A - Installations - Emissions and monitoring - Emissions to water, air or land	Action only (X)	
IR2C - Installations - Operations - Operating techniques	Action only (X)	

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?

Criteria	Action needed	Complete by
IR3A	Please supply NRW with the following data 1 hour before and after the incident: <ul style="list-style-type: none"> CEMs First level data (typically 2 minute average data) for VOC, O2 and CO. T2S temperatures Stack flow rates 	30/09/2024

Criteria	Action needed	Complete by
IR2C	Action 1 <ul style="list-style-type: none"> • Could this loss of drum level have been avoided ? • Was it a real loss of level or just an instrument issue? • Can more be done under these circumstances to prevent loss of drum level so that the support burners can continue to control VOC emissions during shutdown? 	30/09/2024

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.

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

Trident Park Reporting Review and Compliance Assessment

Monitoring Returns

The 2024, Q2, monitoring returns have been received and assessed. All parameters were found to be in compliance. However, during this reporting period NRW received a Schedule 5 Notice. This is related to elevated VOC emissions as a result of a boiler tube leak which occurred at 0300h on line 1. Consequently Viridor took actions to put the plant into shutdown. Viridor reported that later in the day, during the course of stabilising the boiler and to ensure safe conditions for entry for repairs, the feed chute dampers were temporarily re-opened to visually check that all waste had been removed from the feed chute. With the dampers open this elevated the oxygen levels and so ultimately elevated the VOC concentration. Viridor reported that at the time of the suspected breach, O2 level was greater than 15% and total steam flow was below 48t/h so incineration should have been determined as OFF. During the investigation the trigger for the average O2 on line 1 was found to be incorrectly set to 20%, it should be 15%. The ELV logic uses this trigger as the threshold for greater or less than 15%. As a result of this error in the trigger setting for the O2 average, the 'Incineration in operation' bit was erroneously set to 'ON' logging the high VOC as reportable when it shouldn't have been.

No exceedance of the VOC ELV will be recorded. However, as it states in the OTNOC guidance (page 6), BAT requires operators to ensure that all events which could lead to elevated emissions during OTNOC are minimised. On this occasion the burners could not be used as they were inhibited as a result of the loss of drum level. To satisfy the shutdown criteria and to minimise emissions to as low as possible the support burners should have been in operation. NRW therefore need to understand if all appropriate measures were implemented to ensure that VOC emissions were minimised. Therefore the following actions are being put forward to Viridor:

Action 1

- Could this loss of drum level have been avoided ?
- Was it a real loss of level or just an instrument issue?
- Can more be done under these circumstances to prevent loss of drum level so that the support

burners can continue to control VOC emissions during shutdown?

Action 2:

Please supply NRW with the following data 1 hour before and after the incident:

- CEMs First level data (typically 2 minute average data) for VOC, O2 and CO.
- T2S temperatures
- Stack flow rates

Please respond to this actions by the 30th of September 2024.

Waste Returns.

Waste returns have been reviewed and accepted for Q1 and Q2. Totals are as follows:

Waste Received Q1 – 112499.27 tonnes.

Waste Removed Q1 – 26587.22 tonnes.

Waste Received Q2 – 103100.65 tonnes.

Waste Removed Q2 – 25674.8 tonnes.

Car Form CAR NRW0044300

Action 2: Viridor to complete the flow measurement verification exercise by the 1st of April 2024. If an extension is required, please inform NRW before this date, with a new submission timeline.

During the site visit on the 27th of March Viridor reported that SOCOTEC, a third-party testing facility, had been onsite to complete the field work and that a report would be made available in May. The results and subsequent report were sent to NRW on the 15th of May 2024.

Action 3: Please explain how flow is measured/calculated at Trident Park? **Due 30th of September 2024.**

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 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.