

Compliance Assessment Report CAR_NRW0043530

Permit being assessed: AN0214001

For: CAERLEON ROAD STW 562 - 574 CAERLEO, held by DWR CYMRU CYFYNGEDIG

At: CAERLEON ROAD STW, 562 - 574 CAERLEON ROAD, NEWPORT, WALES, .

Type of assessment carried out: Site Inspection, Reason: Routine.

On 20/02/2024, between 10:10 and 10:50.

Parts of permit assessed: Permit compliance

NRW Lead Officer: Elis Nuttall.

Report sent to: John Bowd, South East Waste Water Treatment Catchment Manager , on 12/03/2024.

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

Part of permitted activity assessed (criteria)	Assessment result	Permit condition
WQ-A1 - Management - General management	Action only (X)	
WQ-A1 - Management - General management	Action only (X)	
WQ-B3 - Operations - Operating techniques	Action only (X)	
WQ-B3 - Operations - Operating techniques	Action only (X)	
WQ-B3 - Operations - Operating techniques	Action only (X)	
WQ-B3 - Operations - Operating techniques	Action only (X)	
WQ-B1 - Operations - Permitted activities	Action only (X)	

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

2. What action is required?

Criteria	Action needed	Complete by
WQ-A1	Send a copy of the Works Diary/maintenance records for the asset to NRW.	12/04/2024
WQ-A1	Send a copy of the maintenance schedule/plan for the asset to NRW.	12/04/2024
WQ-B3	Confirm if regular flow monitoring is undertaken and send to NRW for assessment if available.	12/04/2024
WQ-B3	Organise for flow monitoring to be undertaken if not doing so already.	12/04/2024
WQ-B3	Confirm if the system takes the surface water runoff from the properties on Caerleon Road or anywhere else.	12/04/2024
WQ-B3	Provide specifications of the treatment system (e.g. capacity and treatment efficiency) for future reference.	12/04/2024
WQ-B1	Vary the permit to change the sampling point from the outfall to the final effluent discharge point at ST3374689533.	12/04/2024

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.

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

Site Visit Report

This report details the site visit made on the 20/02/2024 at 10:10 to Caerleon Road STW (562-574 Caerleon Road, Newport), permit reference number EPR – AN0214001.

I (NRW Environment Officer Elis Nuttall) arrived at Caerleon Road STW where I met with the Dwr Cymru (DCWW) Pollution Technician. The weather was overcast and dry during the visit but persistent rain had been experienced in the days leading up to the visit.

General Observations

The site is a sewage treatment works serving nine residential properties along Caerleon Road. The discharge is consented to be composed of biologically treated effluent only. The following discharge consented limits have been set:

- Daily discharge volume: 5.6m³/day
- Discharge rate: 0.2 l/sec
- BOD: 50mg/l
- Suspended Solids: 100mg/l

All discharges should be made via the consented discharge point at ST3372 8953. The sampling point should also be located at ST3372 8953.

The site was operational at the time of the visit.

Site Infrastructure



Figure 1 – Site visit photo: The treatment system and control box on site.

A brief discussion was held with the DCWW Pollution Technician prior to inspecting the site infrastructure. It was stated that little information was known regarding the site, only that it serves 9 properties along Caerleon Road. It does not serve the St Julians Hotel (Pub) across the road. The system itself is contained within a security fence (as seen in Figure 1) and the site itself is secured by a locked gate.

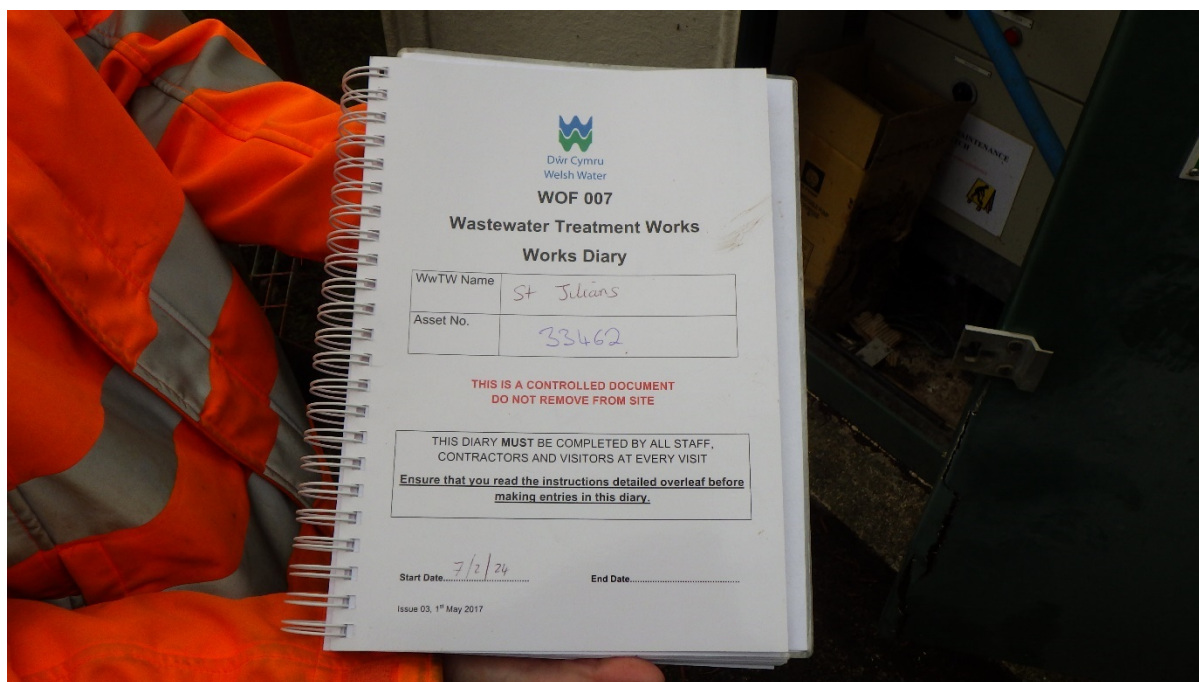


Figure 2 – Site visit photo: The site Works Diary as observed during the visit.

The onsite Works Diary was observed where DCWW operatives note all visit actions and checks undertaken. This diary had recently been updated (on the 07/02/2024), as seen in Figure 2. I have requested to be sent a copy of the maintenance schedule for the site and any major maintenance task that have been undertaken in the past 12 months.

The treatment system itself was checked from the input point to the discharge point.

The solids separation chamber at ST3376189529 was lifted and inspected. There was no build-up of solid waste indicating frequent emptying and the input appeared low at the time of the visit. This is evidenced in Figure 3. Solid wastes are removed at this stage, with liquid wastes passing forward to the filtration unit. Figure 4 shows this liquid waste going from the solids separation chamber to the filtration unit (via an inspection chamber located at ST3375389530). As seen, there are no solid wastes present in the effluent that is entering the filtration unit with a moderate flow at the time of the visit.



Figure 3 – Site visit photo: The solids separation chamber as observed during the visit.



Figure 4 – Site visit photo: The effluent as it flows from the solids separation chamber to the filtration unit. Effluent is clear of all solid waste and has a moderate flow.

The filtration unit (at ST3375089531) was operational at the time of the visit with four dispersion heads all operating as designed. There was no excessive build-up of residue or solid wastes and the system appears to be working as designed. This is evidenced in Figures 5 and 6. I requested that the system's specifications are provided for NRW's benefit in future. It is likely that the system has been upgraded/retrofitted since the permit was issued. Additionally, I reiterated the need for maintenance schedules and records to be provided.



Figure 5 – Site visit photo: The filtration unit in operation at the time of the visit.



Figure 6 – Site visit photo: One of the four dispersion heads within the filtration unit. As seen, there is no excessive build-up of solid material/waste on the filtration media.

The chamber at ST3374689533 was lifted to check the quality of the final treated effluent before it is culverted towards the discharge point. There was no staining or build-up of sewage fungus present and no discernible sewage odour. The water was clear with no solids visually present. However, the discharge rate looked higher than the permit conditions would allow. This is evidenced in Figure 7. Video evidence of the flow rate were also taken for reference. When asked if DCWW conduct regular flow monitoring, the DCWW Pollution Technician was unsure but stated that they can find out on request. I noted that the sewage lines feeding into the system were marked as combined sewage lines on the DCWW mapping system. This would indicate that the system also receives surface water input from the properties on Caerleon Road. I asked if this could be confirmed by DCWW and if surface water inputs are factored into the treatment capacity of the treatment system. This was noted as the only concern regarding the observations made thus far during the inspection.



Figure 7 – Site visit photo: The treated effluent as it is discharged from the filtration unit. Flow rates appear higher than the consented levels.

The outfall was then checked to ensure access was maintained and the discharge point was compliant with the permit. Access to the discharge point was ok, with no overgrown vegetation or restrictions but the location had to be accessed by descending a moderately steep and slippery slope onto a very muddy bank directly adjacent to the watercourse. While not a condition of the permit I advise that improved access to the discharge/sampling point be explored to ensure the safety of both DCWW staff and any sampling staff from other organisations who may need to visit site. The discharge itself appeared clear with no evidence of staining or pollution to the receiving watercourse. Discharge rate was difficult to assess due the level of the outfall being at/slightly below the surface level of the receiving watercourse. This is evidenced in Figures 8 and 9. As stated above, flow rate measurements as well as routine sampling data will be requested. Please see the list of actions for further details.

The sample point listed in the permit is ST33728953, which is close to the outfall to the stream, although not entirely accurate. As above, access could be improved although no major difficulty was experienced. However, to improve the ability of sampling at the site, it is recommended that the permit be varied to change the sampling point to the final effluent discharge point within the chamber at ST3374689533. This is reflected in the action below.



Figure 8 – Site visit photo: The discharge/sample point to the receiving watercourse. The discharge point is seen on the right hand side (small flap valve).



Figure 9 – Site visit photo: The discharge/sample point to the main watercourse. The pooling water appears cloudy but this is consistent with the conditions seen on the receiving watercourse.

No further observations were made on site. The observations were discussed with the DCWW Pollution Technician and a preliminary list of actions given. These are confirmed below.

I left site at 10:50.

Breaches of permit condition:

No breaches were recorded during this inspection. Please see actions section below regarding confirmation of flow monitoring at site and surface water management.

Action required by dates specified:

1. Send NRW the monitoring data for the asset for assessment.

Deadline: 12/04/2024

2. Send a copy of the Works Diary/maintenance records for the asset to NRW.

Deadline: 12/04/2024

3. Send a copy of the maintenance schedule/plan for the asset to NRW.

Deadline: 12/04/2024

4. Confirm if regular flow monitoring is undertaken and send to NRW for assessment if available.

Deadline: 12/04/2024

5. Organise for flow monitoring to be undertaken if not doing so already.

Deadline: 12/04/2024

6. Confirm if the system takes the surface water runoff from the properties on Caerleon Road or anywhere else.

Deadline: 12/04/2024

7. Provide specifications of the treatment system (e.g. capacity and treatment efficiency) for future reference.

Deadline: 12/04/2024

8. Vary the permit to change the sampling point from the outfall to the final effluent discharge point at ST3374689533.

Deadline: 12/04/2024

Other advisory comments:

1. Explore the options regarding improving the accessibility and safety of the discharge point to the stream. No deadline will be set for this comment/action.

Contact details:

If you have any queries regarding this CAR form or to provide an update on any actions

above, please contact me using the following details: Elis Nuttall, Environment Officer, elis.nuttall@cyfoethnaturiolcymru.gov.uk, 03000 65 4651.

If we do not receive the information requested within specified deadline and have not been informed as to why there is a delay then we may serve a Regulation 60 Notice requiring the information under Environmental Permitting (England and Wales) Regulations 2016.

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 to 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
C1 Major	Potential to have a major, serious, persistent and/or extensive impact or effect on the environment, people and/or property
C2 Significant	Potential to have a significant impact or effect on the environment, people and/or property
C3 Minor	Potential to have a minor or minimal impact or effect on the environment, people and/or property
C4 No environmental impact	Non-compliance at a regulated site that cannot foreseeably have any impact on the environment, people and/or property

If your assessment result in Section 1 is suspended, what does this mean?

In line with our guidance, we may suspend non-compliance for up to six months to allow time for remedial action to be taken. These will be re-instated if the action is not completed.

Full list of water quality action criteria (used in section 1 and 2):**WQ A: Management**

- WQ-A1 General management

WQ B: Operations

- WQ-B1 Permitted activities
- WQ-B2 The site
- WQ-B3 Operating techniques
- WQ-B4 Improvement programme
- WQ-B5 Pre-operational conditions

WQ C: Emissions and monitoring

- WQ-C1 Emissions to water
- WQ-C2 Emissions to land
- WQ-C3 Emissions of substances not controlled by emission limits
- WQ-C4 Installation of monitoring boreholes

WQ D: Information

- WQ-D1 Records
- WQ-D2 Reporting
- WQ-D3 Notifications

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.