From: EIR Compliance

To:

Subject: 20250709 - EIR - Data Supplied

Date: 09 July 2025 12:28:00

Reference Number: **EIR**

Dear

We refer to your request for information submitted to Yorkshire Water dated 16 June 2025:

"*1. The current Flow-to-Full-Treatment (FFT) permit or discharge consent document for the site, including*:

- *The maximum permitted flow rate (in l/s or m³/day) which must be fully treated.*
- *Details on any storm overflow structures, including their design capacity.*

2. The design capacity of the wastewater treatment works and storm overflow tanks (in terms of hydraulic capacity, e.g. m³/hour or l/s), prior to and following the ongoing upgrade works.

3. Any modifications or permit variations issued in association with the recent £10 million upgrade, including revised hydraulic or treatment capacity thresholds.

4. Copies of any recent monitoring reports or permit compliance assessments indicating whether the site exceeds the permit thresholds (e.g. during 2023 spill events).

5. Confirmation of whether the current capacity is sufficient to accommodate anticipated new development, such as under local planning policies (e.g., the housing growth planned in Dronfield) without additional untreated discharges."

Please find attached the data which you have requested. Included with this email is our response to your questions.

1. ***The current Flow-to-Full-Treatment (FFT) permit or discharge consent document for the site, including:***

- ***The maximum permitted flow rate (in l/s or m³/day) which must be fully treated.***
- ***Details on any storm overflow structures, including their design capacity.***

The minimum permitted flow rate is 150 l/sec, which must be passed to treatment before the inlet overflow to storm can operate. There is no maximum permitted flow rate at this works. There is only one storm overflow on site. Flows in excess of 150l/s are screened and passed initially to a "blind" storm tank (one which has no discharge to watercourse) of 740 m^3 capacity. Once this has filled, flows pass to four additional storm tanks, with a combined volume of 1400 m^3. If the flow in excess of 150 l/s continues eventually the screened settled storm sewage from these tanks passes to the River Drone.

2. ***The design capacity of the wastewater treatment works and storm overflow tanks (in terms of hydraulic capacity, e.g. m³/hour or l/s), prior to and following the ongoing upgrade works.***

Permitted Dry Weather Flow	5500 m3/day
Permitted Flow to full treatment	150 l/s
Permitted Storm Tank Volume	1532 m3
2020 population equivalent	22158
2035 (Design) population equivalent	24518

These values did not change following the upgrade as the upgrade was to reduce the phosphorus concentration in the final effluent discharge

3. **Any modifications or permit variations issued in association with the recent £10 million upgrade, including revised hydraulic or treatment capacity thresholds.**

New total phosphorus limit mg/l as P	0.3
New total iron limit as Fe 95%ile	4000 mg/l
New total iron limit as Fe upper tier	8000 mg/l
New Urban Waste Water Treatment Directive total phosphorus limit	2 mg/l as P

4. Copies of any recent monitoring reports or permit compliance assessments indicating whether the site exceeds the permit thresholds (e.g. during 2023 spill events).

Spill Counts

2020	2021	2022	2023	2024	2025YTD
28	49	47	79	43	11

These counts show a variation in line with rainfall trends with no underlying increase. The site has been compliant with its final effluent discharge conditions throughout this period, and has had two significant investments in the last 10 years, to achieve improved effluent limits for Ammoniacal Nitrogen and Phosphorus. These investments have sufficient capacity for the next 10 years at least on current development plans.

5. Confirmation of whether the current capacity is sufficient to accommodate anticipated new development, such as under local planning policies (e.g., the housing growth planned in Dronfield) without additional untreated discharges.

The Dronfield site has sufficient capacity to accommodate planned developments, including the storm tank volume on site. Planning policies require new developments to separate their surface water so housing growth does not bring additional peak flows due to rainfall, and as such there will be minimal impact on spill numbers, which as shown from the site data, are more driven by the rainfall patterns within any given year.

In terms of wider investment and investigations, 2 CSOs within the Dronfield Catchment have projects to reduce their spill numbers, and Dronfield WWTW has an investigation to determine requirements to reduce storm overflow spills to protect the environment so that they have no local adverse ecological

impact. The outcomes from this investigation will feed into our investment programme for the period 2030 onwards.

We trust that the provision of this data satisfies your request. In accordance with the Environmental Information Regulations 2004, if you are not satisfied with this reply to your request you can ask for an internal review. A request for an internal review must be submitted within 40 working days by contacting the Data Protection Team.

Thank you for contacting Yorkshire Water.

Yours sincerely,

Data Protection Team

Email: EIR@Yorkshirewater.co.uk