**Waste Water Treatment and Remaining Headroom**

The planning policy team has been working with Southern Water and the Environment Agency over the last year to update information about waste water treatment capacity to inform the Local Plan Review.

We are working towards an agreed position with the Environment Agency and Southern Water, which will be set out in a Statement of Common Ground (SoCG). This note provides an estimate of headroom at waste water treatment works in the Chichester Plan Area in advance of the SoCG being finalised and published.

**Estimated remaining headroom at each WWTW:**

Table 1 below gives an indication of remaining headroom at each Wastewater Treatment Works (WWTW) at 1 Jan 2021 based on a comparison of current Environment Agency permits to average dry weather flow (DWF) Q80 data for the period 2016-2020. Average waste water of 500l per household per day is used to estimate remaining capacity on the advice of the Environment Agency and in line with Southern Water’s guidance on calculating Dry Weather Flow Headroom for Local Plans.

Due to environmental constraints, primarily groundwater infiltration, the apparent remaining headroom at Chichester (Apuldram) and Lavant is not available for use in practice and so column 4 shows capacity at those 2 works as zero.

It is important to note that this calculation is based on a simple comparison between measured dry weather flow to the works and the EA permit. **It does not take specific account of additional housing permissions, but is based on actual flows so will include flows from any housing already built.** The Dry Weather Flow information is updated annually and so this information will be updated as new DWF information becomes available. There can be large fluctuations in the measured DWF from year to year. As such it is important to note that this is an estimate of available capacity at a particular time - **there is not a direct correlation between new housing completions and DWF.**

**Table 1: Estimated Remaining Dry Weather Flow Headroom within current Environment Agency Permits. 1 Jan 2021.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **WWTW** | **1. Consented DWF (EA permit) (m3/day)** | **2. Average DWF/day 2016-20**  | **3. Average remaining DWF headroom (m3 per day) ( 1-2)** | **4. Estimated remaining dwelling capacity (based on 500l phpd)** |
| Bosham | 1221  | 948  | 273  | **546**  |
| Chichester | 13524 | 10148 | 3376 | **0**  |
| Kirdford | 165 | 95 | 70 | **140** |
| Lavant | 1696 | 455 | 1241 | **0** |
| Loxwood | 767 | 760 | 7 | **14** |
| Pagham | 2309 | 1942 | 367 | **734** |
| Sidlesham | 5800 | 5206 | 594 | **1188** |
| Tangmere | 3000 | 1143 | 1857 | **3714** |
| Thornham | 6565 | 6090 | 475 | **950** |
| Wisborough Green | 324 | 211 | 113 | **226** |
| Total | 35371 | 26998 | 8373 | **7512** |

**Source: Table compiled by CDC using data from the Environment Agency and Southern Water.**

**Note prepared by CDC: August 2021**