

## **NON TECHNICAL SUMMARY**

Redbournbury Treatment Plant is one of a number of industrial liquid waste treatment plants operated by Veolia in the UK.

The works is situated on the site of a former chalk quarry some 500m to the east of the A5183, which runs between St Albans and Redbourn and is some 2km away from Redbourn itself.

The immediate surroundings are rural with neighbouring land given over to arable farming and grazing pasture for livestock.

Whilst there are no designated habitats or other particularly sensitive receptors (e.g. SSSI's Ramsar sites, Nature Reserves, European Sites etc.) close to Redbournbury Treatment Plant (the closest SSSI is Roughdown Common some 9.5km from the plant). There are two parts of a single surface water course within 500m of the site (the River Ver and the River Ver- Mill Race). In addition the underlying strata beneath the site consists largely of chalk and the site sits above a major aquifer from which there are a number of potable abstractions.

The nearest inhabited receptor to the site is The Fudge public house which is located on the A5183 some 500m to the west of the site. Redbournbury Mill is situated some 700m north north west of the site. The nearest significant centre of human habitation is Redbourn village some 2km to the north west of the site.

Redbournbury Treatment Plant operates a Physico-Chemical treatment process. This is via initial separation (Physical) at the front end of the process and then the pH adjustment (Chemical) in the site's two current reaction tanks. Both reaction tanks are in use every day, if one is out of use during maintenance there would be considerable impact on the business. A third reaction tank would mean that current reaction tanks can be thoroughly inspected, repaired or replaced without affecting the sites operation. In addition the third tank would increase the treatment capacity of the site (by >10/day) for future growth.

This application seeks to add a new tank (R3) within the Redbournbury Treatment Plant permit boundary, to complement the existing two reaction tanks R1 and R2. R3 will be the same dimensions (7.4m high x 4.0m diameter) and volume (56m<sup>3</sup>) as the existing tanks.

It is proposed to operate the new tank within the existing tank bund arrangement. Indeed R3 is referenced in the Emissions Point Plan on Page 13 of the current Permit (EPR/BW32811A/V004) due to there historically being a small reaction tank at this location, which was eventually decommissioned in 2014. The new tank would be connected to the existing pumping system and pollution abatement equipment (scrubber system).

The additional tank will accept wastes using the EWC codes detailed in Table S3.2 of the Permit. There will be no change to the type of waste processed.

The new reaction tank will not alter the maximum throughput of the site, set at 74,000 tonnes/year in Table S3.2.

There will be no change to the operational hours of the site.

The technical specifications of the tank are set out in various drawings within Appendix A.