

4. Process Description

Yorkshire Water Ltd are applying for a bespoke physico-chemical waste treatment Environmental Permit for Naburn WwTW which relates to the acceptance and storage of tankered effluent prior to discharge into the main works.

The scope of this bespoke permit application covers the delivery to site; offloading and potential blending and storage; prior to treatment, of effluents delivered to site by road tanker for treatment at the WwTW in a mixture with UWWTD materials.

On delivery, effluents are discharged from the tanker, via dedicated tanker off loading points, directly into the 'head of the works' for full treatment. Where the delivered waste requires a slower import addition, due to the load composition, for example in relation to ammonia or COD loading, in order to ensure that there is no impact on the works, it is possible for tankers to be diverted to a separate set of offloading points, where the discharge occurs to a blending and storage tank, from where the effluent is pumped into the 'head of the works' for full treatment at a lower rate than from the direct discharge point. This is not currently being undertaken at the works.

The tanker offloading points are equipped with key fob controlled data loggers, which measure the volume discharged, as well as the origin of the waste. Offloading is only possible once the data logger has been activated.

Tanker offloading areas are equipped with impermeable surfaces, and kerbing to minimise the impact of any spillages on the wider environment. Where any spillages do occur, the drainage system in the offloading area is connected to the 'head of the works'. All offloading points are fixed and equipped with appropriate tanker coupling hoses to reduce the risk of poor tanker connection. The blending and storage tank, where present, are enclosed tanks, designed to hold approximately 2 tankers of effluent, to minimise the risk of excessive storage periods.

All loads are subject to robust pre-acceptance checks to determine their suitability for the processes on site, including an assessment of their variability over time. All loads are pre-booked into the works, to ensure that there is sufficient capacity within the works, and if necessary, loads are diverted to other appropriately permitted facilities. Once a load has been assessed and determined to be acceptable for treatment at the site, the producer is issued an appropriate key fob to access the data logger and offloading point at the works. The data logger is interlocked with the offloading point to ensure that only authorised loads are accepted. The offloading point is covered by CCTV camera and prior to offloading, the control centre for the works must approve the offloading. Loads are subject to random sampling and inspection prior to offloading. Copies of the current versions of these documents are appended as Appendix D.

Pre-acceptance and acceptance method statements for the works have been prepared and approved as part of the Yorkshire Water management system. These are corporate level documents applicable across all potential imports to any of Yorkshire Water's waste water treatment works, however, individual works may have specific restrictions or limitations on chemical and biological components within potential imports, based on site specific factors.

Due to the nature of the site, the works is operational 24-7, however, it may not be fully staffed during all operational hours. There is continuous monitoring of the site from the regional Yorkshire Water control centre.

The site is currently operational.

There are no channelled emissions to air from the permitted operations.

There are no generators or similar plant used within the permitted area at the site, which means it falls outside of the scope of the Medium Combustion Plant Directive.

No routine odour or noise monitoring is undertaken at the site.

In line with current Environment Agency guidance, given in 'Control and Monitor Emissions for your Environmental Permit – Odour', an odour management plan (OMP) has not been included with this application.