



BRADWELL SITE

SEWAGE TREATMENT PLANT MAXIMUM CAPACITY  
(MIXED EFFLUENT A3 OT7)

BRAD/EN/REP/197

Prepared by: C. Calvert Date: 18/08/16  
Print Name: CORRINNE CALVERT  
Title: ENVIRONMENTAL CO-ORDINATOR

Agreed by:  Date: 18.08.16  
Print Name: RICHARD MENSAH  
Title: ENVIRONMENTAL CO-ORDINATOR

Authorised For Issue:  Date: 18/8/16  
Print Name: P. WACEY  
Title: Head of Environment

## 1. Purpose

This document is in response to a request by the Environment Agency to provide an operating technique to meet condition 2.3 "A3 OT7 (*Sewage Treatment Plant Maximum Capacity*)" for the Mixed Effluent Permit PRT2TS/E10760C<sup>1</sup>. This operating technique describes the management of the sewage treatment plant to demonstrate that the maximum treated effluent discharged is 30m<sup>3</sup>/day.

## 2. Sewage Treatment Plant

The sewage treatment plant installed at Bradwell site is a KEE NuDisk F13 unit designed to provide effective treatment for a site with 500 personnel, a small canteen facility and a maximum treatment rate of 45m<sup>3</sup>/day.

As the site is approaching the Care and Maintenance stage of its lifecycle, a quiescent period during which no significant activity will be carried out, the number of personnel on site is reducing. Presently, the number of personnel working on site from Monday to Thursday between the hours of 07:00 hrs to 19:00 hrs is approximately 400 with less than 50 on site at night and during the weekends.

The treatment rate is achieved by way of a bucket transfer system consisting of 6 buckets from the settlement tank Anoxic Rotating Biological Contactor (RBC) to the Aerobic RBC chamber. In order to ensure the treatment plant is operating efficiently and due to the reduction in personnel numbers, the system is running with only 4 buckets to slow the flow and ensure the biological contactors are kept healthy. The reduction in bucket numbers reduces the maximum transfer capacity to 30m<sup>3</sup>/day.

## 3. Sampling

All sampling will be carried out at the sewage plant outlet sampling point.

## REFERENCES

- 
- 1 Environment Agency 2016. Mixed Effluent Permit Number PR2TS/E10760C