

Form Part B6 has been completed to reflect the discharge of process effluent from the proposed facility.

The effluent is limited to the used wash water from the empty bin wash plant. From the table in Question 1 of the form, the 'effluent and/or contaminated surface water run-off arising from the operation of an installation' has been selected. This then defines the questions that have to be answered.

These are replicated in the table below for clarity and to facilitate the provision of commentary where this is required by the form. All other questions on the form have been deemed not applicable.

Form Question Ref.	Commentary
Qu.1a	The effluent is limited to the wash water from the empty bin wash plant. Reusable sharps bins are sent to customers cleaned. Full bins received back from customers are emptied of their contents and processed through the wash plant. The effluent is considered to be typical, in composition, of general cleaning/housekeeping waste water.
Qu.1b	Given the simplicity of the site and that there is only one discharge, this has been defined as "Trade Effluent".
Qu.1d	The sewerage undertaker is Thames Water. Sharpsmart has been in communication with Thames Water and has submitted an application for consent to discharge to the public foul sewer that runs along the northern boundary of the site. A copy of the application form is supplied with this form.
Qu.2c	The discharge will take place all year.
Qu.3b	The application to Thames Water requests a maximum volume of 25 m ³ /day. Whilst the wash plant will initially be processing up to 160 containers per hour, for 10 hours per day, and 5 days a week, at full capacity the plant would be operating for 20 hours per day and 7 days per week. The applicant operates other similar facilities, and the estimated water use is based on those, at approximately 35 litres per hour. The 25 m ³ /day is based on the full capacity rather than the initial processing level.
Qu.3c	The application to Thames Water is for a discharge rate of 2 l/s.
Qu.3d	The maximum volume is 25 m ³ /day. It is unaffected by rainfall.
Qu.5a	As shown in the drainage plan, the existing foul sewer runs immediately along the northern boundary of the building, and this is where the facility trade effluent pipework will route to.
Qu.5b2	The calculation is within the form.
Qu.6	The link provided in the form has been used to check the relevant map; this shows that the site is not in, or close to, a nutrient neutral catchment area. This therefore prompts to move on to Question 7.
Qu.7a & b	It is confirmed that the effluent does not undergo any treatment before discharge. There is an interceptor, but no active treatment is proposed.
Qu.7g	No treatment system is proposed; the consent to discharge application does set out proposed limits for the effluent discharge quality.

Qu.8b & 8c	There are no 'specific substances' in the effluent (on the basis that this is wash water with some cleaning/disinfectant concentration but not hazardous in combination). A Stage 1 – 3 hazardous substances assessment has been carried out for the site (Annex SCR3) and includes the two cleaning products used in the wash plant.
Qu.8d	Whilst the cleaning products have hazardous ingredients; these are used in high dilution within the plant and are not considered to present a hazard in the effluent. SDS for these are included in Annex BAT2.
Qu.8e & 8f	The final rinse in the wash plant uses water heated to 80 °C but this is mixed with other water (including cold wash water) so the temperature requested in the consent to discharge application is <43 °C.
Qu.9e & 9f	No
Qu.10a	This is N/A.
Qu.10b	The anticipated NGR has been included in the form. This may be subject to variation depending on the response from Thames Water to the consent application.
Qu.10d & 10e	These are N/A. The consent to discharge application is 25 m ³ /day (in practice the maximum will be closer to 10.5 m ³ /day).
Qu.10f	There is no UV system.
Qu.10j	A site drainage plan has been submitted with the application. Further, specific, details will be available following confirmation of success of application from Thames Water.
Qu.10k	Sharpsmart will carry out monitoring on a quarterly basis for at least the first 12 months of operation in order to establish a baseline.
Qu.11	This relates to where the final effluent ends up. Given the site location and its proximity to Thames Water's Riverside Sewage Treatment Works CHP Plant (EPR/ GB3739DY), it is anticipated that ultimate discharge is likely to be to the Thames (tidal river). On this basis, Section 1 has also been completed – this is limited to information that the applicant is able to find; more details will be available from Thames Water.