Application reference: EPR/DP3492ZX/V003/S004

Facility: Sandall WwTW Sludge Treatment Facility, Wheatley Hall Road, Doncaster, DN2 4NU

1. Dispersion stacks and assets to be connected to Air Abatement Systems
   BAT 34 and 53 require that in order to reduce emissions, BAT is to use one or a combination of defined abatement techniques. You have identified within your application that the below assets identified as the import tank, sludge pumping station, two thickener feed tanks and the SAS chamber all require abatement through the connection to odour control units (OCUs). To progress your application, we will need to you to provide the following information.

a) Confirm the emission points for the proposed OCUs and update these on all relevant plans.

   It's proposed that an OCU will be installed at SE59947 06016 (459947, 406016) this will treat emissions from the import tank, sludge pumping station, two thickener feed tanks.

   A new emission point plan (attached Figure 3 - Emissions Points_revised 040624.pdf) has been updated and this point has been marked up as A8 proposed OCU.

   At this stage, and within the application, YW has not committed to abating the SAS chamber. YW maintain that this asset is a low source of odour, small footprint and therefore has low emissions generation potential.

b) Confirm the OCU type i.e. Biofilter/Carbon filter/chemical scrubber, including if it will be a one or two stage process.

   The OCU associated with A8 will be a single stage biofilter.

c) Confirm the individual assets that each of the OCUs serve.

   Please note that we sent you this same question on 19/01/2024 as part of the triage process and you replied to say this information will be provided during the determination process. If you can't provide this information within 10 working days of this e-mail, we need to know the time frame of when this information will be available.

   See answer to 1a.

2. Secondary Containment
   We cannot locate where you have undertaken spill modelling following the implementation of your proposed secondary containment solution to demonstrate

that it will adequately contain the required volume. Update your secondary containment report to include spill modelling following the implementation of proposed containment solution.

Please note that we sent you this same question on 19/01/2024 as part of the triage process and you replied to say this information will be provided during the determination process. If you can't provide this information within 10 working days of this e-mail, we need to know the time frame of when this information will be available.

Please see YW Sandall - Secondary Containment Assessment_FINALV004 for an update in section 7 and appendix 8.

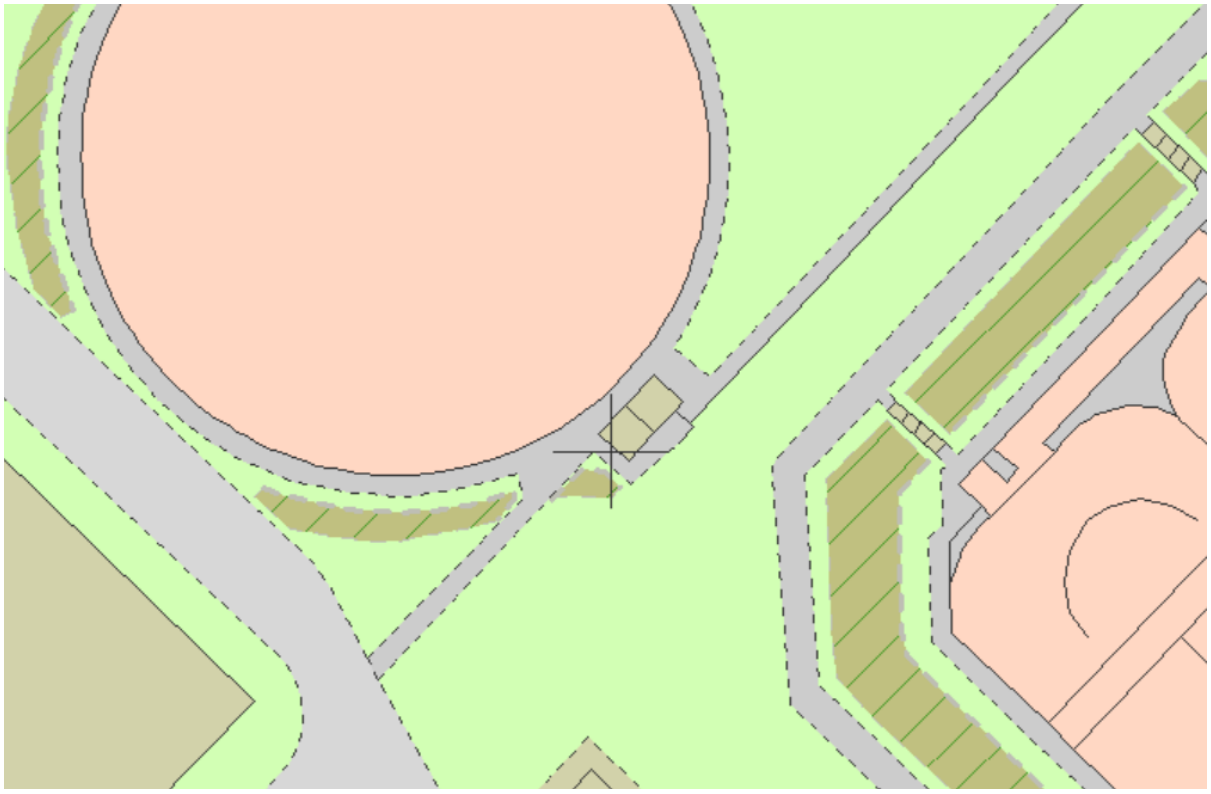
3. Site name
   What site name do you want to use? Application form C2 says Sandall Wastewater Treatment Works but it may be confusing to use this name as this will be how we refer to the part of your site regulated under UWWTD. Would you like us to call the site Sandall Sludge Treatment Facility?

   Please use Sandall Sludge Treatment Facility.

4. S2 Emission point
   For the S2 emission point you have provided a national grid reference (NGR) of SE 60067 06119 in the supporting information table C3:2-2, this NGR is just outside of the installation boundary. From looking at your emission point site plan I think is should be SE 60067 06114. If you think the NGR is correct in your current application, you may need to update your site plans and installation boundary to reflect this.

For the permit application we used gridreferencefinder.com to select the grid references that were provided. However, this is not ortho-corrected data so, depending on the position the photography was taken from, changes in ground height and perspective have the potential to slightly distort the position of features compared to their true position.

Therefore, following your question, we have used our Odyssey mapping tool, which uses Ordnance Survey maps. S2 is therefore better represented by 460067, 406115 (SE60067 06115).



5. <u>Uncontaminated site surface water from roof and non-operational areas</u>
   On assessment of your supporting documentation, you have stated that roof water run-off is limited due to the small number and/or surface area of buildings within the installation boundary. Have you got any clean surface water discharges from roofs, or from areas of the site that are not being used in connection with storing and treating waste that can be discharged directly to surface water, or to groundwater by seepage through the soil via a soakaway? If so, please provided details and update your site plans to include these 'W' emission points.

   As part of the application, YW enlisted the assistance of Ipsum/Care in order to mark all site drainage. At the time of assessment, the drainage mapping work did not include building roof water run-off within the installation boundary as they were considered uncontaminated sources. At that point it was not realised that any uncontaminated surface water soakaways would require representation on the emission point plan.

   As part of the secondary containment work the drain plans will be revisited as the containment is likely to require further inspection with likely rerouting of drains and installation of further site return pumping stations. This is due to the increase in impermeable areas that will increase surface run off within the installation boundary. Roof run off will be assessed as part of this secondary containment work.

YW requests an improvement condition to confirm the location of any soak aways. If necessary, YW will vary the IED permit to update the emission point plan with the required W1… emission points.

6. Annual throughput
   Can you confirm that the annual throughput (in wet tonnes) for the sludge AD operation at Sandall Sludge Treatment Facility is 584,733 tonnes per annum?
   We need to establish the correct figure for Table S2.2 in Schedule 2 of the permit.
   The figure of 584,733 has been derived from the wet tonnes' volumes specified in table C3: 1a-1 in the main supporting document and is the sum total of:
   liquid sludge (indigenous primary) 90,909 tonnes/year,
   liquid sludge (indigenous SAS) 400,000 tonnes/year; and
   liquid sludge (import) 93,824 tonnes/year.

   584,733t/yr will be the correct figure for table S2.2.

7. Temporary sludge cake storage capacity
   You have specified that the cake pad maximum storage volume is 8000m^3, how much of this capacity is reserved for the storage of imported digestate versus site derived digestate?

As stated in the triage questions responded to in February 2024, YW did not pay the additional fee for a waste transfer activity. In Q7 of the same triage questions we stated we would not be importing digestate from another STF for storage at Sandall STF.

Please note that you have paid £6084 for the partial surrender on 08/03/2024 (under charging reference 1.16.19), however it has been agreed this partial surrender is a low risk surrender which is charged at 20% of the new permit activity under charging reference 1.16.19. The main permit activity charge is £10,141 and so 20% of this figure is £2028.20. I will request that £4055.80 is refunded.

Thank you, if that could be paid to the following details and marked for IED refund (project code YW.201761).

Account Name	Yorkshire Water Services LTD
Sort Code	60 60 05
Account	86593560

Please reply with your information to liz.topping@environment-agency.gov.uk.