

Biotage Emissions Report, 2020

Form Air1: monitoring of processes A3 and A4 was last conducted in 2019. The reported values in 2016 showed emissions at their peak and over the whole of the batch process to exceed the limits of the permit for two of the processes. Using the 2019 values, a new H1 assessment was carried out and submitted to NRW; processes A1, A2 and A4 were found to have no significant environmental impact, but A3 was still a concern.

The latest data for A3 was still above the short – term AQS limit and we have had some more detailed modelling of this process carried out. This has been shared with NRW and is currently being assessed. The emissions abatement system for Process A4 is in regular use and emissions from this process are now well controlled.

Form Perf1: continued refinements to the processes have seen a 10% increase in output compared to 2019 for process A2 with a 1% increase in raw material use. However, in general the COVID pandemic has seen consumption of raw materials fall slightly as orders declined. Output fell by 4% but measures designed to reduce solvent consumption per tonne of product have seen a 13% decrease in solvent consumption.

Water & Energy Use: Water consumption has increased by 40% this year, but we think this is a more accurate measure than in previous years. The reasons for the increase are not clear as output has remained steady and we are using more circulators for cooling rather than running water, but it could be due to other departments working extended shifts to supply a surge in demand later in the year. Electricity consumption is up by 3%, due to increased use of the building for production in other departments, and gas usage is up significantly, by 59%. We think this is mainly due to an estimated annual consumption after having a new gas meter installed and only partial data for gas consumption throughout the year, but it may also be partly down to a colder winter compared to 2019. This also accounts for the increase in specific usage as production of the materials involved in this report has not increased as much as use of the building.

Hazardous waste has remained steady – a 1% increase, non-hazardous waste is up by 17%, and mixed recycling is also up by 17% for the site. This is under investigation by our EQH&S manager as one of our company environmental goals is to reduce general waste while increasing mixed recycling. The issues we had in 2019 over the correct segregation of waste have improved but it is not clear why waste has increased so much.



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