

Bakelite Annual Environmental Review 2021

Introduction: Permit condition 4.2.1 requires an annual report covering the previous year to include:

- (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the assessment of the impact of the emissions submitted with the application;
- (b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
- (c) the annual production /treatment data set out in schedule 5 table S5.2;
- (d) the performance parameters set out in schedule 5 table S5.3 using the forms specified in table S5.4 of that schedule; and
- (e) details of any contamination or decontamination of the site which has occurred.

Overview:

2021 was another difficult year due to the Coronavirus pandemic. The site is recognised as an essential business and stayed open throughout, with significant extra precautions in place. Our thoughts are with everyone who has been affected.

Production output increased by 5.4%

All emission limits on the site IPPC permit were met.

The site continued with its accreditation to the ISO14001:2015 standard and underwent 2 days of auditing from BSI.

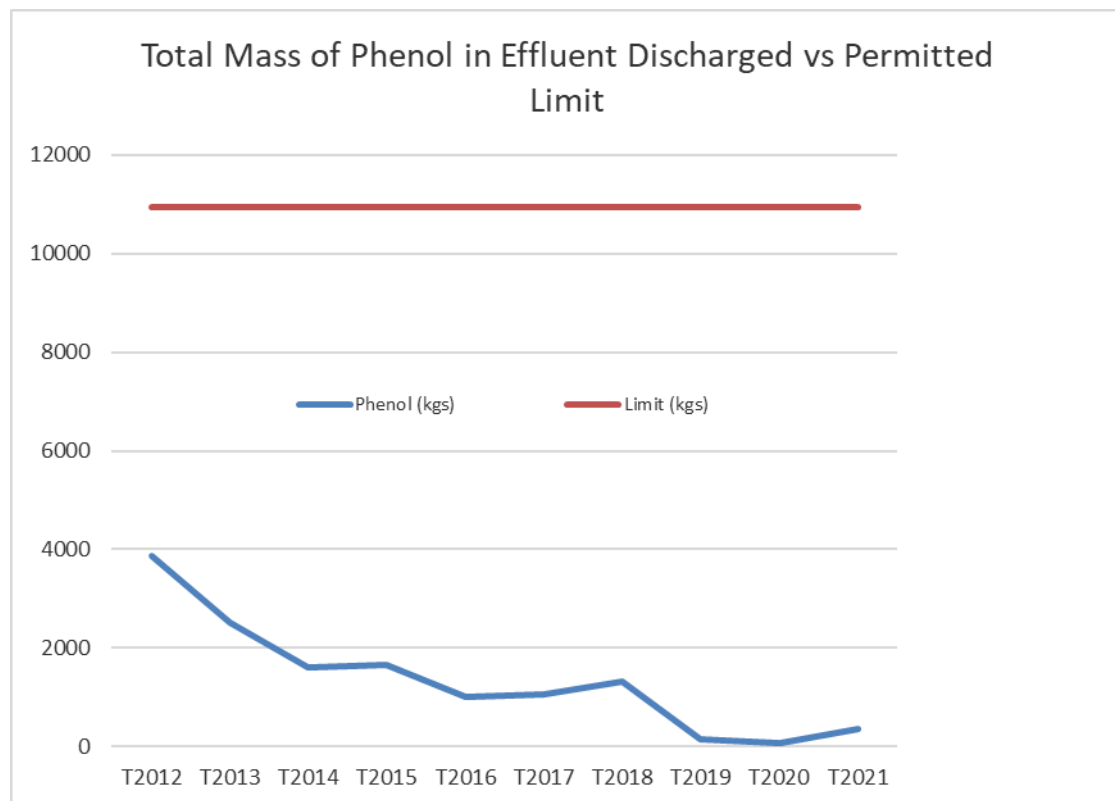
(a) Monitoring and Assessment:

Monitoring of waterborne emissions consists of weekly composite samples from the effluent treatment plant (ETP). These were within the permitted limits throughout the year.

The mass of phenol discharged increased compared to the historic low recorded in 2020. There were several reasons for this including operational reasons and that the recipe mix was not as favourable as previously. The site is still significantly under its mass emission limit.

Measured chemical oxygen demand (COD) decreased slightly.

Quarterly air monitoring on the scrubber and annual monitoring on the boilers gave results within the permitted limits.



(b) Targets:

Steady progress was achieved in the 2021 Environmental Targets.

Description	YTD Progress
1 – Flood Planning – Complete Site Flood Plan	Flood Report commissioned. Initial basic mitigation in place.
2 – Monitoring of site utilities to ensure efficient use	Via Plant Monthly Report
3 - Zero permit exceedances	Zero permit exceedances achieved
4 – Create waste / recycling / rework metric – Q1	Highlight areas of performance in waste reduction / recycling – 12000k. Metric created and target achieved
5 - Cyber Security Planning	Moved to 2022
6 - On-time measurement and reporting (2020 annual / 2021 quarterly / CIA / Pollution Inventory / Packaging Waste / Scrubber quarterly / Boiler Annual)	On time reporting achieved
7 - Internal audits – complete 2021 audit cycle	19 audits completed (7 rescheduled)
8 – 2021 External and internal audit actions overdue	18 actions, 16 closed, 0 overdue

9 – Monthly checks on local planning application	Target achieved
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The amount of energy and water used per tonne of production stayed approximately the same. This shows continued good management.

Utility usage is monitored at a management level on a monthly basis while engineering support staff review the data more frequently.

(c) and **(d)** are covered by submission of the annual returns to NRW

(e) Contamination / De-contamination:

Information about significant waste streams:

Description	Amount (tonnes)	Comments
Bio-sludge	252	An indication of how the effluent treatment plant is run. It has decreased by 13%
Mixed Waste	72	This is representative of general process wastes such as filter waste, contaminated PPE, lab waste, and fluctuates year on year.
Empty IBCs	36	Continued management of site processes to allow these IBCs to be sent for recycling