



**CABOT CARBON LTD
SULLY MOORS RD
SULLY
VALE OF GLAMORGAN
CF64 5RP**

**ENVIRONMENTAL PERMIT BU2110IS
FUGITIVE EMISSIONS
ANNUAL REPORT CY2020**

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Introduction

Cabot Carbon Ltd is required to undertake an annual review of fugitive emissions at the installation in accordance with their Environmental Permit BU2110IS, requirement 4.1.4, which specifies:

"The Operator shall review fugitive emissions, having regard to the application of Best Available Techniques, on an annual basis, or such other period as shall be agreed with the Agency, and a summary report of this review shall be sent to the Agency detailing such releases and the measures taken to reduce them within 3 months of the end of such period."

The CY2020 fugitive emissions report addresses fugitive emissions from the permitted installation to air, water and land, having regard to best available technique (BAT) and the measures taken by Cabot Carbon Ltd to reduce them. The Annual Fugitive Emissions data table is also attached for reference.

Highlights

We are pleased to report that there were no emissions of a significant or reportable nature in 2020. During the last year we have placed more emphasis on site walkabouts and inspections, this proactive approach has allowed for early detection of any potential drips or wisps. As such, more minor observations were made in 2020 with 27 releases recorded across 10 media categories totaling only 37Kg. In review, >85% of 2020 releases were below 1kg/1litre, with 93% being below 5kg. Most spills and leaks were released to indoor areas or to small bund/containment thereby posing no pollution risk.

The most significant release in 2020 was a silica release from a failed ABS pipe. The silica amounted to no more than 20Kgs and was contained and cleaned immediately. As a result of this incident a map of the ABS pipeline was completed including access point for clearing line blockages and a capital project was initiated to replace and upgrade the pipework.

While activity on site was reduced because of the Covid 19 pandemic, Cabot continued to focus on mechanical integrity programmes and risks of corrosion under insulation. Reliability improvements implemented in 2020, with some £2 million in capital expenditure during the year, included projects such as:

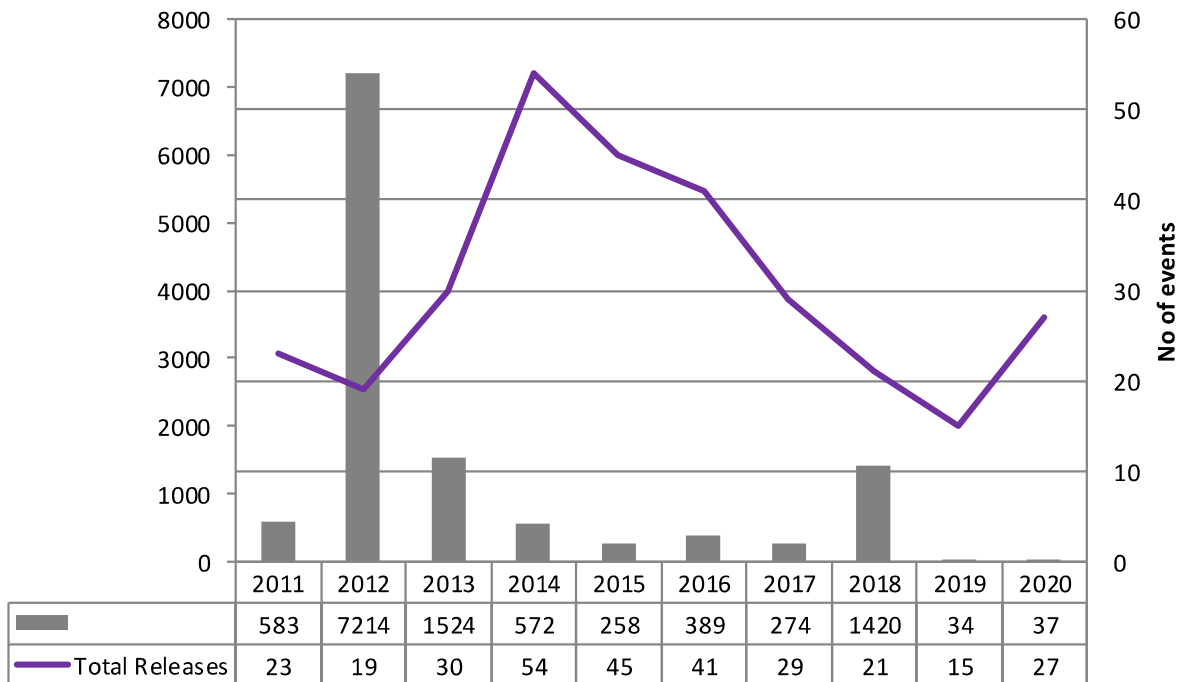
- PTFE pipework replacement, a rolling programme to reduce the risk of pipework failures continued.
- T-6 Desorber column, replaced for new technology providing efficiency and reliability improvements.
- E165B cross exchanger replacement, exchanger at end of life and was replaced before failure. (E165A was replaced in 2019)
- B Calcliner sweep line repair, corrosion replacement before failure.

Cabot are committed to continuously improving our Environmental performance, during 2021 we plan to continue our focus on reliability improvements through capital expenditure with another £2 Million budgeted. We also review the content and frequency of our Environmental preventative maintenance activities to ensure suitability and effectiveness. Operators continue to monitor the plant routinely as part of Outside Operator duties, this promotes early detection and response to wisp and drip leaks and any failure modes. Details of all leaks, spills for 2020 are shown below.

Fugitive Release Breakdown

2020	Quantity KG	No.Fugitive Releases	Form
AHCl	0	2	Gas
Fumed Silica	23.5	7	Solid
HCl	7.2	7	Liquid
Hydrogen	0.1	2	Gas
Liquid Nitrogen	0.7	2	Gas
Nalco dosing chemicals	0.0	1	Liquid
Nitrogen	0.5	1	Gas
Oil	0.0	2	Liquid
PDMS	0.1	2	Liquid
Sodium Hydroxide	5.0	1	Liquid
Total	37	27	

Cabot Barry Fugitive Release History



We continue with our 'Drive to Zero' philosophy. Environmental performance is a critical component of operational excellence and is carefully monitored at the Barry facility. Cabot is committed to being an industry leader and we endeavor to conduct our business in an environmentally responsible manner. There have been no other notable reported fugitive releases during the reporting period that warrant further comment.

End.

*** Cabot Barry: 10 years 3 months since last ENC (@ 30th March 2021) **