



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

**ENVIRONMENTAL PERMIT BU2110IS
FUGITIVE EMISSIONS
ANNUAL REPORT CY2017**

29.03.2018

.....

SHEQ Manager

Cabot Corporation

T +44 1446 709606

M +44 7764 627511

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."

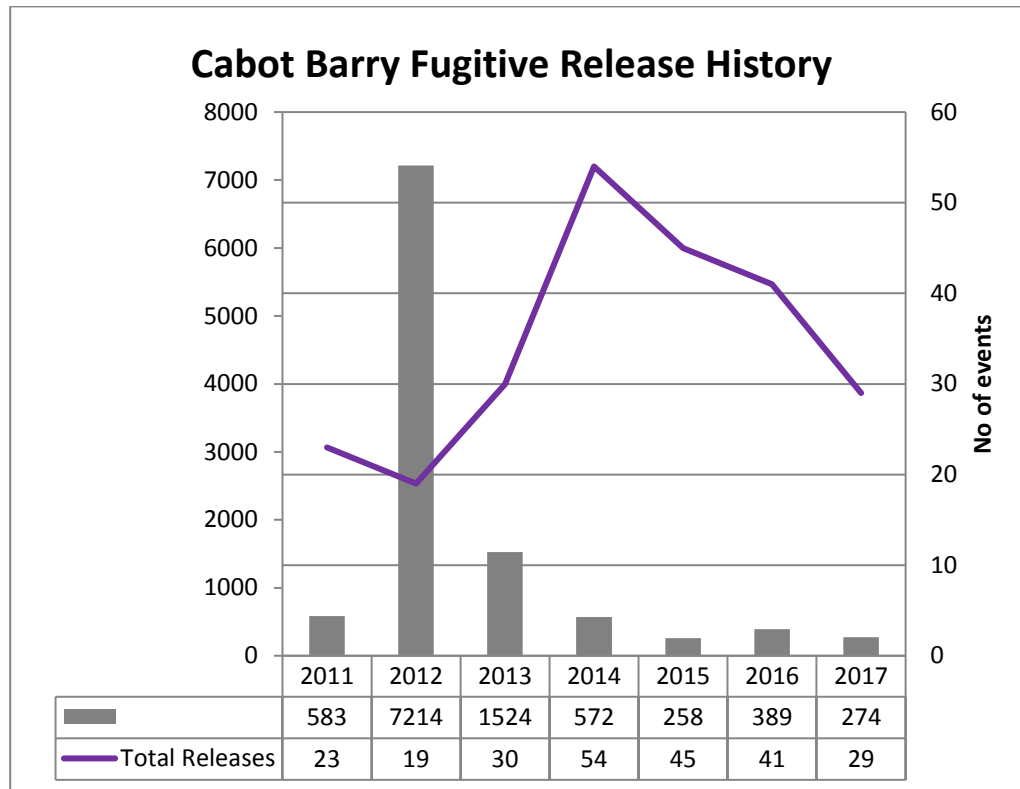
The CY2017 fugitive emissions report addresses fugitive emissions from the permitted installation to air, water and land, having regard to best available technique (BAT) and the measures taken by Cabot Carbon Ltd to reduce them. The Annual Fugitive Emissions data table is also attached for reference.

Highlights:

We are pleased to report no fugitive emissions of a significant/reportable nature in 2017. There were 29 releases (v 41 in 2016) across 10 categories totaling only 294kg, 70% of which were below 1kg/1litre release and in the main released indoors thereby posing no pollution risk. One silica loss totalled 260 kg where a silica tanker brushed against trees on the Cabot roadway and a branch caught against a valve which was accidentally opened which released silica onto the Cabot path. Preventive actions included the installation of replacement valves on all Getron tankers and a check sheet completed by Operators loading tankers verify and record that the valves are secure. Further information is provided in Appendix 1 There has been a dramatic reduction in small spills and wisp leaks from tanker hatches during loading under the WPS canopy (2 events in 2017 v 10 in 2016). Cabot continue to request hatches are checked by contracted drivers before arriving at site and these are also verified prior to loading. The check system has proven to be effective. The table below shows other categories of leaks and spills, the most significant release to air being 9kg of Natural Gas. The report is attached to demonstrate to NRW the prompt response, identification of root cause and corrective/preventive actions and a full report is shown in Appendix 2. Operators monitor the plant routinely as part of Outside Operator duties, this promotes early detection and response to wisp and drip leaks and failure modes in addition to a continually improving Preventive Maintenance plan. Details of all leaks, spills for 2017 are shown in Appendix 3.

Fugitive Release Breakdown

2017	Quantity KG	No.Fugitive Releases	Form
Fumed Silica	262	9	Solid
HCL	0.4	5	Liquid
Hydrogen	0.1	5	Gas
Natural Gas	9.0	4	Gas
AHCL	0.0	1	Gas
Sodium Hydroxide	0.0	1	Liquid
Lab Solvent Acetone	2.5	1	Liquid
Synthetic/Mineral Oil	0.2	1	Liquid
Iron oxide	0.1	1	Liquid
Grease	0.1	1	Liquid
Total	274	29	



The information provided will hopefully provide an insight into the events and responses in 2017 and the effort made in support of our 'Drive to Zero' philosophy. Environmental performance is a critical component of operational excellence and is carefully monitored at the Barry facility. We continue to be committed to conducting 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: 7 years 3 months since last ENC (@ 30th March 2018) ****