FORM AIR 8: Report on VOC losses

Permit Number : EPR/YP3930EX

Operator : Valero Energy Ltd. Installation Location : Pembroke Refinery, Pembroke, SA71 5SJ

Parameters: VOC [following Energy Institute Protocol, except where stated]

Reporting year : 2022

Source Group	VOCs (note 1) (tonnes)	Comments (note 2)
Venting	-	Included in Flaring
Flaring	173	
Bitumen Blower	-	Not applicable
Stack Emissions	-	Included in Fuel and Gas Heaters
Fugitive Emissions	135	Leak/ no-leak factors
Solvent Processes	-	Not applicable
Gas Turbine Exhaust	3.1	
Fuel and Gas Heaters	52	
Drains	223	
API Separators	427	
Dissolved Air Flotation Units	15	
Biological Treatment Facility	-	Not applicable
Cooling Towers	6	
Waste Treatment	-	Not applicable
Maintenance Venting	-	Included in Flaring
Spills	11	
Tanks	429	
Vapour Recovery Units	0.028	
Road and Rail Loading	-	Included in Vapour Recovery Units
Other	-	Not applicable
TOTAL	1473	

Note 1: Distinguish between source groups that are not applicable or assumed zero in the comments.

Note 2: Where the IP protocol suggest alternative methods, state method(s) used. If the Operator wishes to suggest and use other methods they must obtain written agreement from Natural Resources Wales.

Signed : *SLGregory* Name : Sabrina Gregory

On behalf of the Operator Valero Energy Ltd.

Date : 24/01/2023