



31<sup>st</sup> January 2022

██████████,  
Scottish Environment Protection Agency, Edinburgh Office  
Silvan House,  
231 Corstorphine Road,  
Edinburgh,  
EH12 7AT

Dear ██████████,

**Pollution Prevention and Control Act 1999**  
**Permit PPC/A/1013494**  
**Condition 4.3.1**

Please find enclosed the annual flaring and venting emissions reports as required under Condition 4.3.1 of PPC/A/1013494.

The reports detail all dates and times the elevated flare was utilised, and summarises total volumes flared per month.

From 12<sup>th</sup> April – 12<sup>th</sup> July 2021, the plant was shutdown and de-inventoried for planned maintenance, resulting in required flaring for both shutdown and start-up of the plant. SEPA was notified in advance of this planned flaring event on 16<sup>th</sup> March 2021, per condition 4.3.3 of PPC/A/1013494. During both events, management and control of activities resulted in very low volumes and durations of elevated flaring.

There was one process upset on 2<sup>nd</sup> February 2021 which led to a short (less than two hour) period of unplanned elevated flaring. SEPA was notified immediately at the time of the event, and both site and SEPA were aligned that the best approach to minimise environmental impact was to prevent event escalation (prolonged flaring (days)) which required the plant to exceed the permitted 15min of smoky flaring (47 minutes total). A full incident report was submitted to SEPA on 16<sup>th</sup> February 2021.

There were two occurrences of unplanned Major flaring (>5T/H for >30min) within the ground flares (January, July). On both instances, operations responded promptly to reduce flaring rates, and neither event lasted more than 45 minutes. Incident reports were submitted for each per condition 4.3.1 of PPC/A/1013494.

A summary of feed treatment unit venting is included in report 4.1.5.

Please do not hesitate to get in contact if you require any further information.

Yours sincerely,

[REDACTED]

[REDACTED]

CC: [REDACTED]  
[REDACTED]

Month	Total Elevated Flare Tonnes Flared in Month	Total Ground Flares Tonnes Flared in Month	Flaring Event					
			Date & Time Elevated Event Flaring Started	Date & Time Elevated Event Flaring Stopped	Estimated quantity of hydrocarbons flared in Elevated Flare (tonnes)	Estimated quantity of hydrocarbons flared in Ground Flares (tonnes)	Reason for Elevated Event Flaring	Duration of any black smoke > Ringlemann 2 for >15min
January	0	706	11/01/2021 01:52	11/01/2021 02:31	0	4	Quench drum open to cold drain header to blow down level	-
			16/01/2021 09:32	16/01/2021 09:47	<1	0	Shell restricted access to ground flare	-
February	36	616	02/02/2021 15:35	02/02/2021 16:22	21	14	Process upset: Refridge Trip	47 min
			15/02/2021 10:45	16/02/2021 13:15	5	0	Debutaniser start-up, composition not suitable for ground flare	-
			18/02/2021 08:30	18/02/2021 09:30	<1	0	Shell restricted access to ground flare	-
			23/02/2021 09:57	23/02/2021 10:10	<1	0	Shell restricted access to ground flare	-
			28/02/2021 09:15	28/02/2021 13:30	10	0	Debutaniser shut-down, composition not suitable for ground flare	-
March	0	464	N/A	N/A	N/A	N/A	No elevated flaring	N/A
Q1 Total	36	1,787						

Month	Total Elevated Flare Tonnes Flared in Month	Total Ground Flares Tonnes Flared in Month	Flaring Event					
			Date & Time Elevated Event Flaring Started	Date & Time Elevated Event Flaring Stopped	Estimated quantity of hydrocarbons flared in Elevated Flare (tonnes)	Estimated quantity of hydrocarbons flared in Ground Flares (tonnes)	Reason for Elevated Event Flaring	Duration of any black smoke > Ringlemann 2
April	422	1,173	04/04/2021 23:57	05/04/2021 02:48	1	0	Shell restricted access to ground flare	-
			07/04/2021 00:00	07/04/2021 00:30	<1	0	Composition not suitable for ground flare	-
			07/04/2021 01:35	07/04/2021 03:15	3	0	Composition not suitable for ground flare	-
			10/04/2021 02:38	10/04/2021 07:32	2	0	Shell restricted access to ground flare	-
			10/04/2021 23:15	11/04/2021 08:09	9	0	Composition not suitable for ground flare	-
			12/04/2021 08:34	12/04/2021 16:27	79	378	Planned plant shut-down	-
			15/04/2021 10:17	25/04/2021 11:00	328	6	Shell utilising ground flares during plant deinventory	-
May	0	559	N/A	N/A	N/A	N/A	Shell restricted access to ground flare	-
June	0	8,322	18/06/2021 23:00	30/06/2021 23:59	0	7,921	No elevated flaring	N/A
Q2 Total	422	10,054					Planned plant start-up	-

Month	Total Elevated Flare Tonnes Flared in Month	Total Ground Flares Tonnes Flared in Month	Flaring Event					
			Date & Time Elevated Event Flaring Started	Date & Time Elevated Event Flaring Stopped	Estimated quantity of hydrocarbons flared in Elevated Flare (tonnes)	Estimated quantity of hydrocarbons flared in Ground Flares (tonnes)	Reason for Elevated Event Flaring	Duration of any black smoke > Ringlemann 2
July	29	10,935	01/07/2021 00:00	11/07/2021 02:00	29	10597	Planned plant start-up	-
			12/07/2021 08:00	12/07/2021 08:16	<1	0	Shell restricted access to ground flare during start-up	-
			13/07/2021 16:57	13/07/2021 17:28	0	3	Gas compressor fuel switch	-
August	0	309	N/A	N/A	N/A	N/A	No elevated flaring	N/A
September	2	422	16/09/2021 10:37	16/09/2021 12:18	2	0	Shell ground flare trip	-
			21/09/2021 15:04	21/09/2021 15:20	<1	0	Shell ground flare trip	-
			23/09/2021 05:22	23/09/2021 05:48	<1	0	Shell ground flare trip	-
			24/09/2021 08:55	24/09/2021 09:33	<1	0	Shell ground flare trip	-
Q3 Total	31	11,667						

Month	Total Elevated Flare Tonnes Flared in Month	Total Ground Flares Tonnes Flared in Month	Flaring Event					
			Date & Time Elevated Event Flaring Started	Date & Time Elevated Event Flaring Stopped	Estimated quantity of hydrocarbons flared in Elevated Flare (tonnes)	Estimated quantity of hydrocarbons flared in Ground Flares (tonnes)	Reason for Elevated Event Flaring	Duration of any black smoke > Ringlemann 2
October	58	587	25/10/2021 12:04	25/10/2021 12:30	<1	0	Shell ground flare trip	-
			26/10/2021 09:40	30/01/2021 13:08	58	0	Shell ground flare planned maintenance	-
November	35	453	16/11/2021 09:31	16/11/2021 10:58	<1	0	Shell restricted access to ground flare	-
			25/11/2021 06:53	25/11/2021 13:20	<1	0	Shell restricted access to ground flare	-
			26/11/2021 22:14	28/11/2021 08:15	35	0	Shell ground flare planned maintenance	-
December	12	454	09/12/2021 04:45	09/12/2021 14:10	8	0	Shell restricted access to ground flare	-
			15/12/2021 08:02	15/12/2021 14:38	5	0	Shell ground flare planned maintenance	-
Q4 Total	106	1,494						

TOTAL	595	25,002
	TONNES	