

Operator: Valero Energy Ltd.

Installation Location: Pembroke Refinery, Pembroke, SA71 5SJ

Parameters: Oxides of Nitrogen

Reporting period: 2022

Release point	Monthly Bubble Conc	Monthly Emission Limit Value	Total Monthly Emissions	LCP371		LCP373		LCP375		LCP372		LCP374		A5A		A11		A13		A19	
	All units	All units	All units	Stack 1 (Boilers)		Stack 6 (Boilers)		Stack 8 (CDU/VDU/VBU)		Platformer		C&O		FCCU		HTU1/Unifiner		HTU2		ULSG	
Month	Emission Concentration mg/Nm3	mg/Nm3	Tonnes/month	Emission Concentration mg/Nm3	Flue gas flow rate Nm3/hr	Emission Concentration mg/Nm3	Flue gas flow rate Nm3/hr	Emission Concentration mg/Nm3	Flue gas flow rate Nm3/hr	Emission Concentration mg/Nm3	Flue gas flow rate Nm3/hr	Emission Concentration mg/Nm3	Flue gas flow rate Nm3/hr	Emission Concentration mg/Nm3	Flue gas flow rate Nm3/hr	Emission Concentration mg/Nm3	Flue gas flow rate Nm3/hr	Emission Concentration mg/Nm3	Flue gas flow rate Nm3/hr	Emission Concentration mg/Nm3	Flue gas flow rate Nm3/hr
Jan	198.9	300.5	227.8	186.9	173,677	228.0	151,896	194.4	272,603	113.6	90,794	94.1	81,480	270.4	337,458	193.8	87,174	136.9	42,109	100.3	46,992
Feb	167.5	291.0	177.1	198.7	199,840	243.7	158,559	185.8	260,019	108.1	93,813	89.6	78,329	140.7	324,517	198.2	91,136	130.4	42,048	96.8	46,197
Mar	169.6	295.9	209.8	203.9	189,387	252.8	149,252	184.8	272,312	118.2	100,511	97.9	88,708	144.9	353,890	205.9	91,729	142.4	47,758	104.3	46,957
Apr	151.8	304.0	181.1	208.5	199,867	215.3	119,765	174.6	273,548	117.2	99,734	97.1	87,772	106.4	373,153	202.0	89,250	141.3	47,971	103.5	46,071
May	153.1	312.8	182.7	208.4	162,917	239.2	130,597	161.9	275,656	110.7	104,732	91.7	81,903	125.4	380,493	191.3	83,619	133.4	44,145	97.7	44,820
Jun	197.7	307.2	229.5	218.5	175,440	240.3	124,233	165.4	271,448	114.5	105,052	94.8	77,336	266.4	376,374	196.9	81,095	138.0	47,016	101.1	42,493
Jul	192.2	305.0	207.9	224.2	223,006	248.8	133,080	160.5	246,127	96.2	104,410	79.7	75,366	231.9	340,907	170.5	73,863	116.0	36,326	84.9	43,379
Aug	159.6	304.2	183.1	210.2	191,174	215.3	113,947	167.3	267,216	102.7	105,483	85.0	76,542	154.1	348,362	177.2	79,603	123.7	35,974	90.6	42,698
Sep	151.8	302.2	174.0	205.7	202,776	194.9	110,139	158.3	272,952	96.2	112,910	79.6	86,530	154.0	354,125	165.5	84,896	115.9	41,768	84.9	44,868
Oct	149.9	297.4	186.4	196.4	214,307	222.6	103,841	159.4	283,455	103.3	108,905	85.6	87,734	130.4	359,221	178.4	88,977	124.5	41,263	91.2	46,612
Nov	163.2	296.6	186.6	191.1	229,895	227.1	80,257	155.9	284,788	95.0	91,693	78.6	80,277	190.6	348,094	164.1	80,543	114.5	37,362	83.8	46,517
Dec	168.1	297.2	201.8	197.1	202,466	246.6	105,513	171.0	273,102	105.1	100,694	87.0	91,002	183.4	346,487	180.7	83,294	126.7	42,932	92.8	51,065

Signed : SLGregory Name : Sabrina Gregory

On behalf of the Operator Valero Energy Ltd.

Date : 11/01/2023