

Operator: Valero Energy Ltd.

Installation Location: Pembroke Refinery, Pembroke, SA71 5SJ

Parameters: Oxides of Nitrogen

Reporting period: 2021

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	151.8	182.3	137.3	190.6	204,308	220.4	147,993	101.9	247,058	62.8	87,643	52.4	79,418	201.6	274,177	104.4	64,127	77.9	32,930	56.9	46,664
Feb	146.2	150.0	19.9	148.5	144,983	113.0	53,395	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mar	155.8	150.0	17.4	156.0	120,437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apr	125.5	150.0	66.2	183.4	139,488	194.2	98,602	95.9	199,712	51.8	102,476	-	-	-	-	87.3	74,434	56.4	38,892	-	-
May	136.8	162.2	108.3	190.6	199,925	210.2	132,250	95.9	261,747	54.3	99,949	56.6	70,195	250.7	275,385	93.7	72,959	65.4	35,368	53.8	42,224
Jun	133.0	186.0	152.0	180.6	198,784	215.2	173,093	92.5	296,874	55.9	92,797	46.3	82,384	165.0	308,040	96.6	81,790	67.4	34,809	49.4	49,471
Jul	151.9	191.8	186.6	179.8	188,491	220.9	179,072	111.1	275,625	66.6	77,993	55.1	76,182	200.0	368,632	115.0	74,671	80.2	31,619	58.8	45,769
Aug	171.2	193.0	220.4	173.1	196,111	222.9	174,166	119.0	285,026	73.4	87,507	60.8	81,858	259.8	398,195	126.8	83,952	88.4	28,109	64.8	49,965
Sep	166.4	187.5	198.6	172.2	221,879	234.1	162,643	125.7	290,709	86.2	82,346	71.4	80,396	231.4	358,448	148.9	86,642	103.9	33,181	76.0	50,917
Oct	171.1	186.0	215.1	192.4	235,420	249.4	166,162	158.1	278,361	91.5	95,803	75.8	78,156	197.4	329,961	157.9	90,750	110.3	32,774	80.7	48,567
Nov	158.8	188.7	188.9	199.0	186,478	225.0	153,848	169.2	283,188	97.5	102,077	80.9	79,276	150.2	341,746	169.9	95,208	117.5	43,562	86.1	49,778
Dec	187.7	191.0	226.0	189.6	166,807	224.9	156,410	172.0	285,635	102.3	98,546	84.7	79,348	254.7	355,792	172.8	89,836	123.3	44,691	90.3	50,611

Note 1: Bubble emission limits suspended from 21st January 2021 to 1st June as per Job Aid PP-HES-JBA-0051

Signed : RDLivock Name : Richard Livock

On behalf of the Operator Valero Energy Ltd.

Date : 18/01/2022