

RELEASES TO AIR

QUARTERLY RETURN

MONTHLY MEAN, MAXIMUM DAILY MEAN AND ANNUAL PERCENTILE CONCENTRATIONS (a),(b),(c)

OPERATING MODE: RFG

Operator: Valero Energy Limited

Form: LCP Concentrations

Location: Pembroke Refinery, Pembroke, SA71 5SJ

Permit/Variation Number: YP3930EX

Year 2022	LCP 371 (A1 & A2)													
	NO <sub>x</sub> (mg/Nm <sup>3</sup> )				SO <sub>2</sub> (mg/Nm <sup>3</sup> )				Dust (mg/Nm <sup>3</sup> )				CO (mg/Nm <sup>3</sup> )	
Month	Monthly Mean	Max Daily Mean	Daily ELV	Days > ELV	Monthly Mean	Max Daily Mean	Daily ELV	Days > ELV	Monthly Mean	Max Daily Mean	Daily ELV	Days > ELV	Monthly Mean	Monthly ELV
January	187	206	330	0	5	6.9	38.5	0	1	1.0	5.5	0	2	100
February	199	216	330	0	4	14.3	-	-	1	1.6	5.5	0	2	100
March	204	229	330	0	4	5.5	-	-	0	0.7	5.5	0	1	100
April	209	225	330	0	18	145.7	38.5	3	0	0.9	5.5	0	1	100
May	208	218	330	0	9	10.5	38.5	0	1	0.8	5.5	0	1	100
June	219	232	330	0	11	13.6	38.5	0	0	0.8	5.5	0	1	100
July	224	241	330	0	13	17.2	38.5	0	0	0.8	5.5	0	0	100
August	210	226	330	0	13	16.1	38.5	0	0	0.3	5.5	0	1	100
September	206	220	330	0	15	85.2	38.5	0	0	0.4	5.5	0	0	100
October	196	209	330	0	12	13.5	38.5	0	0	0.8	5.5	0	1	100
November	191	201	330	0	11	12.4	38.5	0	0	0.5	5.5	0	1	100
December	191	215	330	0	6.9	11.8	38.5	0	0	0.8	5.5	0	1	100
Monthly ELV Daily ELV (f)														
Annual 95th Percentile (g)	228 (439)	226			15 (439)	15.1			0.8 (439)	0.8			2 (439)	
Annual Percentile ELV (h)														

Note 1: LCP SO<sub>2</sub> emission limits suspended from 26th January to 7th April as per Job Aid PP-HES-JBA-0004

Note 2: LCP SO<sub>2</sub> emission limits suspended from 13th June to 26th June as per Job Aid PP-HES-JBA-0004

Note 3: LCP SO<sub>2</sub> emission limits suspended from 23rd September to 27th September as per Job Aid PP-HES-JBA-0004

Signed: SLGregory

Name: Sabrina Gregory

On behalf of the Operator Valero Energy Ltd

Date: 11/01/2023