

RELEASES TO AIR

QUARTERLY RETURN

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

OPERATING MODE: VDU off gas in combination with RFG

Operator: Valero Energy Limited

Form: LCP Concentrations

Location: Pembroke Refinery, Pembroke, SA71 5SJ

Permit/Variation Number: YP3930EX

Year 2022	LCP 375 (A7, A8, A9 & A10)													
	NO _x (mg/Nm ³)				SO ₂ (mg/Nm ³)				Dust (mg/Nm ³)				CO (mg/Nm ³)	
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	194	213	330	0	8	24	1100	0	4	5.4	5.5	0	1	100
February	186	203	330	0	23	66	-	-	3	4	5.5	0	0	100
March	185	202	330	0	19	29	-	-	4	4	5.5	0	0	100
April	175	202	330	0	31	155	1100	0	4	4.5	5.5	0	0	100
May	162	174	330	0	21	28	1100	0	3	3.9	5.5	0	0	100
June	165	177	330	0	22	29	1100	0	3	4.1	5.5	0	1	100
July	161	200	330	0	29	53	1100	0	3	4.6	5.5	0	1	100
August	167	190	330	0	53	64	1100	0	4	4.1	5.5	0	0	100
September	158	183	330	0	50	103	1100	0	4	4.8	5.5	0	1	100
October	159	172	330	0	49	62	1100	0	4	4.8	5.5	0	0	100
November	156	175	330	0	46	60	1100	0	5	5.3	5.5	0	0	100
December	156	197	330	0	43	68	1100	0	4	4.4	5.5	0	0	100
Monthly ELV Daily ELV (f)														
Annual 95th Percentile (g)	201 (432)	199			60 (432)	58.6			5 (432)	4.8			1 (432)	
Annual Percentile ELV (h)														

Note 1: LCP SO₂ emission limits suspended from 26th January to 7th April as per Job Aid PP-HES-JBA-0004

Note 2: LCP SO₂ emission limits suspended from 13th June to 26th June as per Job Aid PP-HES-JBA-0004

Note 3: LCP SO₂ 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