

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF

May 2022

Operator: Valero Pembrokehire Oil Terminal Limited

Location: Main Road, Waterston, Pembrokehire, SA73 1DR

Permit Number: EPR/BK1341IN

Variation Number: EPR/BK1341IN/V007 Release Point: C

	Flow (m <sup>3</sup> /day)	Temperature (°C)	pH	BOD (mg/l)	Suspended Solids (mg/l)	Ammoniacal Nitrogen (mg/l)	Total Oil (mg/l)
Limit	10,000	30	max 9.0 min 6.0	50	70	5	30
Day							
1	0						
2	0						
3	0						
4	0						
5	0						
6	0						
7	0						
8	0						
9	0						
10	0						
11	0						
12	0						
13	0						
14	0						
15	0						
16	0						
17	0						
18	498						
19	189	14	6.9	10	18		
20	6	15	7.3				
21	89	15	7.2				
22	89	15	7.2				
23	77	13	7.1		9	0.2	<1
24	80	14	7.1	20			
25	77	14	7.3				
26	267	15	7.2	11	10		
27	446	15	7.3				
28	148	19	7.0				
29	67	19	7.1				
30	48	17	7.3		8	<0.1	<1
31	104	10	7.3	7			
Maximum	498	19	7.3	20	18	0.2	1
Minimum	0	10	6.9	7	8	0.1	1
Flow-Weighted Average	-	15	7.2	11	12	0.2	1

Repairs to the water draw off tower required emptying the East Catch Basin in March. Low rainfall has resulted in water levels remaining below normal operation levels throughout April. When water level is below normal operation level, there is no flow and no effluent samples are collected for analysis.

Water level returned to normal operation levels on 18 May 2022 and sampling and analysis resumed.

Signed on behalf of the Operator  
Name

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	COD (mg/l)	Sulphide (mg/l)	Total Phenols (mg/l)	Cyanide (mg/l)
<b>Limit</b>	<b>50</b>	<b>1</b>	<b>7.5</b>	<b>0.25</b>
Day				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23	11	<0.1	<0.1	<0.01
24				
25				
26				
27				
28				
29				
30	8	<0.1	<0.1	<0.01
31				
Maximum	11	0.1	0.1	0.01
Minimum	8	0.1	0.1	0.01
Flow- Weighted Average	10	0.1	0.1	0.01

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	Cadmium		Mercury		Lead	Copper	Iron	Nickel	Zinc	Chromium
	(ug/l)	(g/day)	(ug/l)	(g/day)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
<b>Limit</b>	<b>14</b>	<b>0.46</b>	<b>2</b>	<b>0.06</b>	<b>120</b>	<b>30</b>	<b>1200</b>	<b>30</b>	<b>150</b>	<b>10</b>
Date	No flow, no effluent samples analysed									
Week 1										
Week 2										
Week 3	<0.05	0.0039	<0.1	0.008	<1	<3	590	2.2	7	<2
Week 4	<0.05	0.0024	<0.1	0.005	<1	<3	1240	2.5	7	2.0
Maximum	0.05		0.1		1.0	3	1240	2.5	7	2.0
Minimum	0.05		0.1		1.0	3	590	2.2	7	2.0
Total		0.00005		0.0001						
Flow-Weighted Average	0.05		0.1		1.0	3	840	2	7	2

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Day	Limit	Flow (m <sup>3</sup> /day)	Suspended Solids (mg/l)	BOD (mg/l)	Ammoniacal Nitrogen (mg/l)	Temperature (°C)	pH	Oil (mg/l)
		<b>3500</b>	<b>35</b>	<b>50</b>	<b>0.4</b>	<b>27</b>		
1		348						
2		395						
3		366	3	9	<0.1	15	7.4	<1
4		186						
5		155	2			18	6.9	
6		140						
7		192						
8		251						
9		264						
10		266	2	10	<0.1	15	7.1	<1
11		370						
12		777	2			18	8.5	
13		824						
14		879						
15		70						
16		71						
17		305	3	7	<0.1	18	8.4	<1
18		364						
19		476	2			18	7.7	
20		674						
21		674						
22		617						
23		248						
24		241	1	7	<0.1	17	7.0	<1
25		229						
26		223	1			18	7.1	
27		213						
28		209						
29		198						
30		193						
31		395	1	5	<0.1	15	7.3	<1
Maximum		879	3	10	0.1	18	8.5	1
Minimum		70	1	5	0.1	15	6.9	1
Flow-Weighted Average		-	2	7	0.1		7.5	1

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**Release Point: D**

Date	Cadmium		Mercury	
	(ug/l)	(g/day)	(ug/l)	(g/day)
	<b>Limit</b>	<b>14</b>		<b>0.06</b>
		<b>0.46</b>		<b>0.06</b>
		<b>(kg/mth)</b>		<b>(kg/mth)</b>
Week 1	<0.05	0.366	<0.1	0.037
Week 2	<0.05	0.266	<0.1	0.027
Week 3	<0.05	0.305	<0.1	0.031
Week 4	<0.05	0.241	<0.1	0.024
Week 5	<0.05	0.395	<0.1	0.040
Maximum	0.05	0.241	0.1	0.024
Minimum	0.05	0.395	0.1	0.040
Total		0.0098		0.001
Flow-Weighted Average	-	0.05		0.1

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Day	Limit	Lead (ug/l)	Copper (ug/l)	Iron (ug/l)	Nickel (ug/l)	Zinc (ug/l)	Chromium (ug/l)
		50	40	1400	10	40	
1							
2							
3		<1.0	<3	181	0.8	8	2.30
4							
5							
6							
7							
8							
9							
10		<1.0	<3	270	<0.5	4	2.60
11							
12							
13							
14							
15							
16							
17		<1.0	<3	278	<0.5	5	2.5
18							
19							
20							
21							
22							
23							
24		<1.0	<3	575	<0.5	<4	2.2
25							
26							
27							
28							
29							
30							
31		<1.0	<3	337	<0.5	<4	<2.0
Maximum		1.0	3	575	0.8	8	2.6
Minimum		1.0	3	181	0.5	4	2.0
Total (kg/mth)		0.010	0.03	3.07	0.006	0.05	0.02
Flow-Weighted Average		1	3	314	0.6	5	2

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