

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF

August 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	Temperature	pH	BOD	Suspended Solids	Ammoniacal Nitrogen	Total Oil
	(m ³ /day)	(°C)		(mg/l)	(mg/l)	(mg/l)	(mg/l)
Limit	10,000	30	max 9.0 min 6.0	50	70	5	30
Day							
1	149	11	7.1		5	<0.1	<1
2	136	18	7.3	7			
3	143	10	7.4				
4	123	15	7.3	4	5		
5	100	17	7.3				
6	95	17	7.4				
7	91	17	7.2				
8	88	19	7.2		8	<0.1	<1
9	102	13	7.4	3			
10	21	16	7.0				
11	73	20	6.9	2	5		
12	77	19	7.1				
13	66	19	6.9				
14	91	19	7.1				
15	66	18	7.2		6	<0.1	<1
16	71	15	7.3	2			
17	76	18	7.3				
18	72	14	7.4	1	5		
19	73	15	7.4				
20	72	18	7.5				
21	69	18	7.4				
22	72	17	7.4		6	<0.1	<1
23	69	12	7.3	2			
24	75	14	7.4				
25	76	14	7.5	2	5		
26	78	18	7.4				
27	80	18	7.1				
28	75	18	7.2				
29	73	19	7.3		6	<0.1	<1
30	72	16	7.3	2			
31	146	16	7.4				
Maximum	149	20	7.5	7	8	0.1	1
Minimum	21	10	6.9	1	5	0.1	1
Flow-Weighted Average	-	16	7.3	3	6	0.1	1

Signed on behalf of the Operator
Name

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	COD (mg/l)	Sulphide (mg/l)	Total Phenols (mg/l)	Cyanide (mg/l)
Limit	50	1	7.5	0.25
Day				
1	46	<0.1	<0.1	<0.01
2				
3				
4				
5				
6				
7				
8	21	<0.1	<0.1	<0.01
9				
10				
11				
12				
13				
14				
15	15	<0.1	<0.1	<0.01
16				
17				
18				
19				
20				
21				
22	18	<0.1	<0.1	<0.01
23				
24				
25				
26				
27				
28				
29	23	<0.1	<0.1	<0.01
30				
31				
Maximum	46	0.1	0.1	0.01
Minimum	15	0.1	0.1	0.01
Flow- Weighted Average	28	0.100	0.100	0.0100

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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)
Limit	14	0.46	2	0.06	120	30	1200	30	150	10
		(kg/mth)		(kg/mth)						
Date										
Week 1	<0.05	0.0075	<0.1	0.015	<1.0	4	1200	<0.5	5	2.1
Week 2	<0.05	0.0044	<0.1	0.009	<1.0	<3	417	<0.5	<4	<2.0
Week 3	<0.05	0.0033	<0.1	0.007	<1.0	<3	328	0.8	<4	<2.0
Week 4	<0.05	0.0036	<0.1	0.007	<1.0	<3	150	<0.5	<4	<2.0
Week 5	<0.05	0.0037	<0.1	0.007	<1.0	3	720	<0.5	11	<2.0
Maximum	0.05	0.0075	0.1	0.015	1.0	4	1200	0.8	11	2.1
Minimum	0.05	0.0033	0.1	0.007	1.0	3	150	0.5	4	2.0
Total		0.00014		0.0003						
Flow-Weighted Average	0.05		0.1		1.0	3	671	1	5	2

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	Flow (m ³ /day)	Suspended Solids (mg/l)	BOD (mg/l)	Ammoniacal Nitrogen (mg/l)	Temperature (°C)	pH	Oil (mg/l)
Day	Limit 3500	35	50	0.4	27		
1	154						
2	125	1	4	<0.1	19	6.8	<1
3	254						
4	249	1			18	6.7	
5	934						
6	152						
7	180						
8	175						
9	119	1	7	<0.1	18	6.6	<1
10	156						
11	167	1			25	6.5	
12	160						
13	161						
14	137						
15	159						
16	132	1	7	<0.1	18	6.5	<1
17	163						
18	169	1			18	6.6	
19	142						
20	160						
21	174						
22	167						
23	167	2	6	<0.1	18	6.6	<1
24	180						
25	195	1			18	6.6	
26	199						
27	152						
28	160						
29	312						
30	333	1	5	<0.1	19	6.8	<1
31	628						
Maximum	934	2	7	0.1	25	6.8	1
Minimum	119	1	4	0.1	18	6.5	1
Flow- Weighted Average	-	1	6	0.1		6.6	1

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Release Point: D

	Cadmium		Mercury	
	(ug/l)	(g/day)	(ug/l)	(g/day)
Limit	14	0.46		0.06
		(kg/mth)		(kg/mth)
Date				
Week 1	<0.05	0.125	<0.1	0.013
Week 2	<0.05	0.119	<0.1	0.012
Week 3	<0.05	0.132	<0.1	0.013
Week 4	<0.05	0.167	<0.1	0.017
Week 5	<0.05	0.333	<0.1	0.033
Maximum	0.05	0.119	0.1	0.012
Minimum	0.05	0.333	0.1	0.033
Total		0.0054		0.001
Flow-Weighted Average	-	0.05		0.1

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	Lead (ug/l)	Copper (ug/l)	Iron (ug/l)	Nickel (ug/l)	Zinc (ug/l)	Chromium (ug/l)
Limit	50	40	1400	10	40	
Day						
1						
2	<1.0	<3	105	<0.5	<4	3.1
3						
4						
5						
6						
7						
8						
9	<1.0	<3	406	<0.5	5	3.6
10						
11						
12						
13						
14						
15						
16	<1.0	4	568	<0.5	<4	4.1
17						
18						
19						
20						
21						
22						
23	<1.0	4	508	<0.5	6	3.6
24						
25						
26						
27						
28						
29						
30	<1.0	<3	246	0.9	10	3.1
31						
Maximum	1.0	4	568	0.9	10	4.1
Minimum	1.0	3	105	0.5	4	3.1
Total (kg/mth)	0.005	0.02	1.88	0.004	0.04	0.02
Flow-Weighted Average	1	3	346	0.7	7	3

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