

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF

June

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 ³ /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	92	15	7.4				
2	71	18	7.0	5	8		
3	51	17	6.9				
4	50	16	7.2				
5	86	16	7.3				
6	225	14	7.2		8	<0.1	<1
7	163	15	7.4	8			
8	116	10	7.1				
9	94	9	7.1	5	10		
10	87	17	7.5				
11	76	16	7.2				
12	40	16	7.1				
13	25	9	7.2		4	<0.1	<1
14	15	14	7.6	3			
15	11	11	7.6				
16	1,290	10	7.6	5	28		
17	65	17	7.5				
18	8	18	7.3				
19	29	18	7.7				
20	22	14	7.6		6	<0.1	<1
21	1	15	7.5	5			
22	0						
23	1	13	7.3	3	6		
24	1	13	7.3				
25	1	15	7.1				
26	1	15	7.1				
27	1	10	7.1		5	<0.1	<1
28	0						
29	164	14	7.4				
30	323	10	7.6	6	14		
Maximum	1,290	18	7.7	8	28	0.1	1
Minimum	0	9	6.9	3	4	0.1	1
Flow- Weighted Average	-	14	7.3	5	22	0.1	1

Signed on behalf of the Operator
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Release Point: C

	COD (mg/l)	Sulphide (mg/l)	Total Phenols (mg/l)	Cyanide (mg/l)
Limit	50	1	7.5	0.25
Day				
1				
2				
3				
4				
5				
6	43	<0.1	<0.1	<0.01
7				
8				
9				
10				
11				
12				
13	26	<0.1	<0.1	<0.01
14				
15				
16				
17				
18				
19				
20	33	<0.1	<0.1	<0.01
21				
22				
23				
24				
25				
26				
27	22	<0.1	<0.1	<0.01
28				
29				
30				
31				
Maximum	43	0.1	0.1	0.01
Minimum	8	0.1	0.1	0.01
Flow- Weighted Average	41	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)
Limit	14	0.46	2	0.06	120	30	1200	30	150	10
		(kg/mth)		(kg/mth)						
Date										
Week 1	<0.05	0.0113	<0.1	0.023	<1.0	<3	10	0.6	<4	2.6
Week 2	<0.05	0.0013	<0.1	0.003	<1.0	<3	10	<0.5	<4	<2.0
Week 3	<0.05	0.0011	<0.1	0.002	<1.0	<3	10	<0.5	<4	4.2
Week 4	<0.05	0.0001	<0.1	0.000	<1.0	<3	243	<0.5	<4	<2.0
Maximum	0.05		0.1		1.0	3	243	0.6	4	4.2
Minimum	0.05		0.1		1.0	3	10	0.5	4	2.0
Total		0.00010		0.0002						
Flow-Weighted Average	0.05		0.1		1.0	3	11	1	4	3

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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	203						
2	208	1			18	7.1	
3	179						
4	194						
5	277						
6	546						
7	811	1	7	<0.1	19	7.3	<1
8	753						
9	717	2			16	7.3	
10	713						
11	285						
12	226						
13	227						
14	73	1	2	<0.1	17	6.8	<1
15	69						
16	70	1			15	6.8	
17	58						
18	63						
19	503						
20	515						
21	476	1	4	<0.1	18	7.3	<1
22	484						
23	430	3			18	7.2	
24	423						
25	405						
26	396						
27	341						
28	66	1	4	<0.1	14	6.8	<1
29	112						
30	89	1			17	6.7	
Maximum	811	3	7	0.1	19	7.3	1
Minimum	58	1	2	0.1	14	6.7	1
Flow- Weighted Average	-	2	6	0.1		7.0	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	0.811	<0.1	0.081
Week 2	<0.05	0.073	<0.1	0.007
Week 3	<0.05	0.476	<0.1	0.048
Week 4	<0.05	0.066	<0.1	0.007
Week 5				
Maximum	0.05	0.066	0.1	0.007
Minimum	0.05	0.811	0.1	0.081
Total		0.0107		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						
3						
4						
5						
6						
7	<1.0	<3	55	<0.5	<4	<2.0
8						
9						
10						
11						
12						
13						
14	<1.0	<3	26	<0.5	<4	<2.0
15						
16						
17						
18						
19						
20						
21	<1.0	<3	11	<0.5	5	<2.0
22						
23						
24						
25						
26						
27						
28	<1.0	<3	21	<0.5	<4	<2.0
29						
30						
31						
Maximum	1.0	3	55	0.5	5	2.0
Minimum	1.0	3	11	0.5	4	2.0
Total (kg/mth)	0.011	0.03	0.41	0.006	0.05	0.02
Flow-Weighted Average	1	3	37	0.5	4	2

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