

## RELEASES TO WATER

## RELEASE SUMMARY FOR THE MONTH OF

January 2023

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	1,197	14	7.1				
2	2,136	13	7.0		3	<0.1	<1
3	2,061	13	7.1	3			
4	2,801	11	7.0				
5	2,868	10	7.0	3	4		
6	1,725	8	7.2				
7	2,929	7	6.8				
8	6,045	7	6.9				
9	4,105	9	7.2		6	<0.1	<1
10	1,980	11	7.1	6			
11	3,891	10	7.0				
12	3,762	7	7.0	4	8		
13	3,007	10	7.2				
14	1,407	10	7.0				
15	3,837	10	6.9				
16	989	6	6.9		5	<0.1	<1
17	1,789	12	7.2	4			
18	1,397	5	7.0				
19	1,024	5	6.9	4	4		
20	1,085	12	7.2				
21	586	5	6.9				
22	467	5	7.0				
23	721	5	7.0		4	<0.1	<1
24	631	14	7.3	2			
25	311	8	7.0				
26	252	7	7.0	5	4		
27	225	10	7.1				
28	185	10	7.0				
29	157	8	6.9				
30	595	7	7.1		4	<0.1	<1
31	1,256	7	7.0	7			
Maximum	6,045	14	7.3	7	8	0.1	1
Minimum	157	5	6.8	2	3	0.1	1
Flow- Weighted Average	-	9	7.0	4	5	0.1	1

Signed on behalf of the Operator  
Name

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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	2	<0.1	<0.1	<0.01
3				
4				
5				
6				
7				
8		<0.1	<0.1	<0.01
9	26			
10				
11				
12				
13				
14				
15				
16	34	<0.1	<0.1	<0.01
17				
18				
19				
20				
21				
22				
23	33	<0.1	<0.1	<0.01
24				
25				
26				
27				
28				
29				
30	24	<0.1	<0.1	<0.01
31				
Maximum	34	0.1	0.1	0.01
Minimum	2	0.1	0.1	0.01
Flow- Weighted Average	21	0.1	0.1	0.01

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Date	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>
		<b>(kg/mth)</b>		<b>(kg/mth)</b>						
Week 1	<0.05	0.1068	<0.1	0.214	<1.0	<3	269	1.3	111	3.7
Week 2	<0.05	0.2053	<0.1	0.411	1.5	<3	382	1.6	110	<2.0
Week 3	<0.05	0.0495	<0.1	0.099	1.0	<3	326	1.4	79	2.2
Week 4	<0.05	0.0361	<0.1	0.072	<1.0	<3	279	1.4	91	2.3
Week 5	<0.05	0.0298	<0.1	0.060	<1.0	5	299	2.1	147	3.5
Maximum	0.05	0.2053	0.1	0.411	1.5	5	382	2.1	147	3.7
Minimum	0.05	0.0298	0.1	0.060	1.0	3	269	1.3	79	2.0
Total		0.0026		0.0053						
Flow-Weighted Average	0.05		0.1		1.2	3	333	1	108	3

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Permit Number: EPR/BK1341IN Variation Number: EPR/BK1341IN/V007 Release Point: D

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		2,635						
2		2,367						
3		2,372	6	2	<0.1	14	6.7	<1
4		2,298						
5		2,297	21			5	7.1	
6		2,142						
7		2,094						
8		2,472						
9		2,636						
10		2,566	7	4	<0.1	14	7.1	<1
11		2,592						
12		2,621	4			6	6.9	
13		2,614						
14		2,932						
15		2,019						
16		2,341						
17		2,358	2	3	<0.1	14	7.0	<1
18		2,167						
19		1,877	12			1	6.8	
20		348						
21		508						
22		745						
23		851						
24		991	1	3	<0.1	15	7.0	<1
25		906						
26		1,159	2			7	7.0	
27		1,196						
28		1,248						
29		1,183						
30		1,208						
31		2,388	2	4	<0.1	6	7.1	<1
Maximum		2,932	21	4	0.1	15	7.1	1
Minimum		348	1	2	0.1	1	6.7	1
Flow- Weighted Average		-	7	3	0.10		7.0	1

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Permit Number: EPR/BK1341IN

Variation Number: EPR/BK1341IN/V007

**Release Point: D**

Date	Cadmium		Mercury	
	(ug/l)	(g/day)	(ug/l)	(g/day)
<b>Limit</b>	<b>14</b>	<b>0.46</b>		<b>0.06</b>
		<b>(kg/mth)</b>		<b>(kg/mth)</b>
Week 1	<0.05	2.372	<0.1	0.237
Week 2	<0.05	2.566	<0.1	0.257
Week 3	<0.05	2.358	<0.1	0.236
Week 4	<0.05	0.991	<0.1	0.099
Week 5	<0.05	0.906	<0.1	0.091
Maximum	0.05	2.566	0.1	0.257
Minimum	0.05	0.906	0.1	0.091
Total		0.0570		0.006
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						Results to follow.	
2							
3		1.3	3	92	0.9		3.90
4							
5							
6							
7							
8							
9							
10		1.3	<3	120	0.7		3.30
11							
12							
13							
14							
15							
16							
17		<1.0	<3	35	<0.5		3.1
18							
19							
20							
21							
22							
23							
24		<1.0	<3	71	<0.5		3.3
25							
26							
27							
28							
29							
30							
31		<1.0	<3	51	<0.5		2.8
Maximum		1.3	3	120	0.9	3.9	
Minimum		1.0	3	35	0.5	2.8	
Total (kg/mth)		0.075	0.20	4.97	0.042	0.22	
Flow-Weighted Average		1	3	75	0.6	3	

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