

## RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF

**January 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	<b>10,000</b>	<b>30</b>	<b>max 9.0 min 6.0</b>	<b>50</b>	<b>70</b>	<b>5</b>	<b>30</b>
Day							
1	956	11	7.0				
2	940	12	7.1				
3	1,506	13	7.2		9	<0.1	<1
4	2,271	13	7.3	7			
5	2,414	7	7.1				
6	1,257	6	7.2	4	4		
7	1,339	5	7.2				
8	614	9	7.1				
9	2,998	11	7.2				
10	814	10	7.4		6	<0.1	<1
11	14	6	7.2	10			
12	69	6	7.2				
13	721	5	7.1	5	2		
14	612	5	7.2				
15	976	5	7.1				
16	779	5	7.3				
17	621	5	7.3		2	<0.1	<1
18	546	7	7.3	10			
19	464	10	7.2				
20	401	7	7.3	3	3		
21	350	13	7.3				
22	335	6	7.2				
23	303	6	7.3				
24	324	7	7.4		2	<0.1	<1
25	491	5	7.3	7			
26	511	10	7.4				
27	522	12	7.5	1	4		
28	409	6	7.4				
29	280	9	7.2				
30	226	9	7.4				
31	1,237	6	7.6		2	<0.1	<1
Maximum	2,998	13	7.6	10	9	0.1	1
Minimum	14	5	7.0	1	2	0.1	1
Flow- Weighted Average	-	8	7.3	6	4	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				
3	21	<0.1	<0.1	<0.01
4				
5				
6				
7				
8				
9				
10	20	<0.1	<0.1	<0.01
11				
12				
13				
14				
15				
16				
17	4	<0.1	<0.1	<0.01
18				
19				
20				
21				
22				
23				
24	1	<0.1	<0.1	<0.01
25				
26				
27				
28				
29				
30				
31	1	<0.1	<0.1	<0.01
Maximum	21	0.1	0.1	0.01
Minimum	1	0.1	0.1	0.01
Flow- Weighted Average	16	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>50</b>	<b>1400</b>	<b>150</b>	<b>150</b>	<b>50</b>
		<b>(kg/mth)</b>		<b>(kg/mth)</b>						
Week 1	<0.05	0.0753	<0.1	0.151	<1.0	<3	115	<0.5	<4	<2.0
Week 2	<0.05	0.0407	<0.1	0.081	<1.0	<3	38	<0.5	<4	2.7
Week 3	<0.05	0.0311	<0.1	0.062	<1.0	<3	235	<0.5	<4	<2.0
Week 4	<0.05	0.0162	0.6	0.032	<1.0	<3	134	0.6	<4	3.7
Week 5	<0.05	0.0246	<0.1	0.049	<1.0	<3	133	0.6	<4	3.1
Maximum	0.05	0.0162	0.6	0.032	1.0	3	235	0.6	4	3.7
Minimum	0.05	0.0753	0.1	0.151	1.0	3	38	0.5	4	2.0
Total		0.0012		0.002						
Flow-Weighted Average	0.05		0.1		1.0	3	122	1	4	2

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

Day	Flow (m <sup>3</sup> /day)	Suspended Solids (mg/l)	BOD (mg/l)	Ammoniacal Nitrogen (mg/l)	Temperature (°C)	pH	Oil (mg/l)
	Limit	3500	35	50	27	max 8.5 min 6.0	5
1	400						
2	926						
3	1,035						
4	894	1	1	<0.1	14	7.1	<1
5	763						
6	757	<1			10	7.1	
7	767						
8	929						
9	1,008						
10	868						
11	855	1	1	<0.1	10	7.1	<1
12	897						
13	800	1			8	7.1	
14	805						
15	897						
16	881						
17	923						
18	893	1	1	<0.1	9	7.1	<1
19	894						
20	827	<1			11	7.1	
21	753						
22	763						
23	726						
24	723						
25	725	1	4	<0.1	8	7.3	<1
26	705						
27	711	1			15	7.2	
28	694						
29	703						
30	668						
31	621						
Maximum	1,035	1	4	0.1	15	7.3	1
Minimum	621	1	1	0.1	8	7.1	1
Flow- Weighted Average	-	1	2	0.1		7.1	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>0.46</b>		<b>0.06</b>
		<b>(kg/mth)</b>		<b>(kg/mth)</b>
Week 1	<0.05	0.894	<0.1	0.089
Week 2	<0.05	0.855	<0.1	0.086
Week 3	<0.05	0.893	<0.1	0.089
Week 4	<0.05	0.725	<0.1	0.073
Week 5				
Maximum	0.05	0.725	0.1	0.073
Minimum	0.05	0.894	0.1	0.089
Total		0.0261		0.003
Flow-Weighted Average	-			

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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	<1.0	<3	<20	<0.5	<4	3.2
5						
6						
7						
8						
9						
10						
11	<1.0	<3	<20	<0.5	5	<2.0
12						
13						
14						
15						
16						
17						
18	<1.0	<3	<20	<0.5	<4	2.1
19						
20						
21						
22						
23						
24						
25	<1.0	<3	<20	<0.5	<4	2.2
26						
27						
28						
29						
30						
31						
Maximum	1.0	3	20	0.5	5	3.2
Minimum	1.0	3	20	0.5	4	2.0
Total (kg/mth)	0.026	0.08	0.52	0.013	0.11	0.06
Flow-Weighted Average	1	3	20	0.5	4	2

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