

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF

November 2022

Operator: Valero Pembrokeshire Oil Terminal Limited

Location: Main Road, Waterston, Pembrokeshire, 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	4,100	11	7.1	13			
2	4,570	11	7.1				
3	4,265	10	7.0	12	20		
4	5,443	12	7.1				
5	3,403	15	6.7				
6	2,324	15	6.9				
7	3,581	10	7.0		12	<0.1	<1
8	2,596	17	7.2	8			
9	3,496	10	7.0				
10	2,943	10	6.8	10	14		
11	1,832	13	7.2				
12	2,639	15	6.9				
13	5,988	15	7.1				
14	4,920	9	6.8		12	<0.1	<1
15	9,372	15	7.3	7			
16	8,404	10	7.1				
17	7,154	11	7.2	7	10		
18	8,811	12	7.3				
19	9,840	15	6.8				
20	9,342	12	7.0				
21	9,709	10	7.0		10	<0.1	<1
22	9,526	11	7.2	9			
23	8,732	10	7.0				
24	2,309	7	7.0	17	28		
25	3,056	10	7.0				
26	3,840	10	6.9				
27	5,089	10	7.0				
28	5,540	10	7.0		12	<0.1	<1
29	6,029	12	7.1	4			
30	7,022	7	6.9				
Maximum	9,840	17	7.3	17	28	0.1	1
Minimum	1,832	7	6.7	4	10	0.1	1
Flow-Weighted Average	-	12	7.0	9	13	0.1	1

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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				
2				
3				
4				
5				
6				
7	26	<0.1	<0.1	<0.01
8				
9				
10				
11				
12				
13				
14	46	<0.1	<0.1	<0.01
15				
16				
17				
18				
19				
20		<0.1	<0.1	<0.01
21	20			
22				
23				
24				
25				
26				
27				
28	30	<0.1	<0.1	<0.01
29				
30				
31				
Maximum	46	0.1	0.1	0.01
Minimum	20	0.1	0.1	0.01
Flow- Weighted Average	29	0.098	0.098	0.0098

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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)
Limit	14	0.46	2	0.06	120	30	1200	30	150	10
		(kg/mth)		(kg/mth)						
Week 1	<0.05	0.1791	<0.1	0.358	<1.0	<3	520	2.0	5	2.6
Week 2	<0.05	0.2460	<0.1	0.492	1.7	<3	702	3.3	8	7.0
Week 3	<0.05	0.4855	<0.1	0.971	<1.0	<3	733	2.9	7	3.0
Week 4	<0.05	0.2770	<0.1	0.554	<1.0	<3	358	2.0	6	2.3
Week 5										
Maximum	0.05	0.4855	0.1	0.971	1.7	3	733	3.3	8	7.0
Minimum	0.05	0.1791	0.1	0.358	1.0	3	358	2.0	5	2.3
Total		0.0089		0.0178						
Flow-Weighted Average	0.05		0.1		1.1	3	607	3	7	4

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

Day	Limit	Flow (m ³ /day)	Suspended Solids (mg/l)	BOD (mg/l)	Ammoniacal Nitrogen (mg/l)	Temperature (°C)	pH	Oil (mg/l)
		3500	35	50	0.4	27		
1		1,455	8	1	<0.1	17	6.9	<1
2		1,831						
3		2,273	<1			15	6.8	
4		2,306						
5		2,175						
6		2,399						
7		2,289						
8		2,133	<1	3	<0.1	14	6.9	<1
9		2,188						
10		2,241	1			15	6.7	
11		2,085						
12		1,360						
13		839						
14		1,696						
15		1,862	1	3	<0.1	18	7	<1
16		1,882						
17		2,139	<1			13	6.9	
18		1,720						
19		945						
20		919						
21		1,219						
22		1,454	<1	2	<0.1	15	6.6	<1
23		2,794						
24		3,169	1			10	7.0	
25		2,864						
26		2,764						
27		2,641						
28		1,958						
29		3,057	1	1	<0.1	12	7.1	<1
30		2,243						
31								
Maximum		3,169	8	3	0.1	18	7.1	1
Minimum		839	1	1	0.1	10	6.6	1
Flow- Weighted Average		-	2	2	0.10		6.9	1

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Variation Number: EPR/BK1341IN/V007

Release Point: D

Date	Cadmium		Mercury	
	Limit (ug/l)	(g/day) (kg/mth)	(ug/l)	(g/day) (kg/mth)
	14	0.46		0.06
Week 1	<0.05	1.455	<0.1	0.146
Week 2	<0.05	2.133	<0.1	0.213
Week 3	<0.05	1.862	<0.1	0.186
Week 4	<0.05	1.454	<0.1	0.145
Week 5	<0.05	3.057	<0.1	0.306
Maximum	0.05	1.454	0.1	0.145
Minimum	0.05	3.057	0.1	0.306
Total		0.0618		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		<1.0	<3	122	0.5	6	<2.0
2							
3							
4							
5							
6							
7							
8		<1.0	<3	48	<0.5	4	2.8
9							
10							
11							
12							
13							
14							
15		<1.0	4	56	<0.5	<4	2.8
16							
17							
18							
19							
20							
21							
22		<1.0	<3	40	<0.5	<4	2.1
23							
24							
25							
26							
27							
28							
29		<1.0	<3	69	0.5	<4	2.4
30							
31							
Maximum		1.0	4	122	0.5	4	2.8
Minimum		1.0	3	40	0.5	4	2.0
Total (kg/mth)		0.062	0.20	4.05	0.031	0.25	0.15
Flow-Weighted Average		1	3	66	0.5	4	2

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