

Schedule 5 - Notification

NOTIFICATIONS OF UNAUTHORISED RELEASES in accordance with condition 4.3

Authorisation Reference EPR/BK1341IN

Operator Valero Pembrokeshire Oil Terminal Limited

Reference Number 03/22

PART B

Additional information on the matters for notification under Part A

Name of the prescribed substance or other substance which might cause harm

Effluent from oil storage terminal - oil

Time, date and location of the release

12:00 - 13:00 hrs 05-10-22
East Catch Basin

Location

Grid Reference SM 93907 04238, Lat: 51.698943N Long: 4.983724W

MHPA launch contacted VPOT informing that an oily sheen had been observed near VPOT's effluent outfall (Release Point C). MCA Incident: 2207338 states Grid Reference SM 90587 04167. VPOT's outfall diffuser is at Grid Reference SM 93907 04238, Lat: 51.698943N Long: 4.983724W.

Oil sheen observed extending approximately 500 m from VPOT outfall diffuser towards Pembroke Dock (red line on images below is to scale, direction is for illustrative purposes only).



Reference or description of the location of the event.

Description of where any release into the environment took place



Substances(s) potentially released

pH, BOD, ammoniacal nitrogen, total oil, COD, sulphide, total phenols, cyanide, cadmium, mercury, lead, copper, iron, nickel, zinc and chromium.
These substances are normally within permit limits.

Measured value and uncertainty

The unauthorised release is estimated to have occurred between 12:00 and 13:00 hrs on 5 Oct 2022, based on observation and grab samples. Duration of release, approx. 1 hr continuous. Sporadic short duration releases may have occurred outside of this time frame.

The 18 hr composite sample (05/10/2022 14:00 - 00:00 hrs) had elevated concentrations of total oil (10 mg/l). This may be due to contamination of the auto sampler or sporadic short duration releases. MCA email, 05 October 2022 16:14, "the release has petered off to trace amounts and that no pooling or accumulation of hydrocarbon was observed at slack water (1520L) which would be expected with an ongoing release".

Grab sample of effluent from VPOT by pass channel collected approx. 13:00 hrs 05-10-22. <1mg/l total oil
Composite effluent sample 08:00 - 14:00 hrs, 05-10-22 Release Point C, 45 mg/l total oil
Surface water sample collected by MCA close to VPOT's outfall diffuser, 1.5 mg/l total oil

The total release of oil is estimated as 8.4 kg (c. 10 litres).

Date / time	m ³ /day	total oil mg/l	kg oil
04/10/2022 24 hr	187	1	0.2
05/10/2022 08:00 - 14:00 hrs	90	45	4.1
05/10/2022 14:00 - 00:00 hrs	415	10	4.2
Total release			8.4 kg

Environmental medium into which the release took place

Milford Haven Estuary, mid tide (flooding)

Tide Times		
Time	Height	
High	02:37	5.27m
Low	09:15	2.57m
High	15:22	5.62m
Low	21:59	2.17m

<p>Measures taken, or intended to be taken, to prevent a recurrence of the incident.</p>	<p>The emergency bypass channel is in operation because of a leak in the clay liner of the East Catch Basin (Part A notification July 22, ref 22/01). The East Catch Basin Reservoir liner repair will commence 17 October 2022. The East Catch Basin is an important part of VPOT's tertiary containment infrastructure and provides containment of oil 'carry over' from VPOT's drainage network. The submerged 'letter box' arrangement of the catch basin draw off tower prevents oil from discharging.</p> <p>In normal operation, the by pass channel should not be the primary effluent discharge route.</p> <p>On 6 Oct, VPOT temporarily re-directed the Site's effluent stream back into the East Catch Basin to prevent reoccurrence of this incident. VPOT will manage and control this operation to prevent an unauthorised release from the identified defect in the clay liner.</p> <p>Water drawing operations will be minimised and when essential will be carried out using VPOT vacuum tanker.</p> <p>Skimming of oil from API Interceptor will be carried out more frequently to collect oil from terminal's oily water drainage network.</p>
<p>Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.</p>	<p>MHPA "Dynevor" (pollution response boat) mobilised to assess the extent of pollution and conduct propeller wash to break up oil sheen.</p> <p>MCA email, 05 October 2022 16:14, '<i>the release has petered off to trace amounts and that no pooling or accumulation of hydrocarbon was observed at slack water (1520L) which would be expected with an ongoing release</i>'.</p> <p>MCA email, 06 October 2022 11:57, '<i>No further reports received over night and the pilot launch has attended the area of the outfall and no further pollution has been sighted</i>'.</p>
<p>The dates of any unauthorised emissions from the facility in the preceding 24 months</p>	<p>2018: 22-07-18 (pH), 08-11-08 (flow) 2019: 22-10-19 (flow) 2022: 18-07-22 (flow), 05-10-22 (effluent and oil)</p>

<p>Name</p> <p>H Morgan HES Supervisor</p>	
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