

# M57-24

Cathryn Spain, Senior Harbour Master

Published: 05/08/2024

Expires: 31/12/2025

Lower Pool



## King Edward Memorial Park CSO Diversion

### NOTICE TO MARINERS

## King Edward Memorial Park CSO Diversion

Mariners are advised of the continued interim operation of the Tideway Tunnel Combined Sewer Outfall (CSO) at the King Edward Memorial Park site.

The CSO may discharge rain-water and untreated sewage into the river whenever there is, or has recently been, rain in the local catchment area. The discharge amount and velocity will vary, but during a storm this could be around 6 knots, lessening further from the outfall. Lower powered and less manoeuvrable vessels should be aware of the possibility of cross currents and adjust their passage accordingly (example modelled flow velocities are included at the end of this Notice). Manoeuvrable motorised vessels travelling within the navigable channel will likely feel little effect.

The Tideway Tunnel is now partly in operation pending further storm testing and this site is connected to the tunnel, meaning the expected number of discharges into the river is reduced to roughly 6-8 a year. These will only occur if the tunnel becomes full or it is not available.

The approximate location of the CSO on the King Edward site is shown in red on the chartlet below.

Telephone calls, VHF radio traffic, CCTV and radar traffic images may be recorded in the VTS Centre



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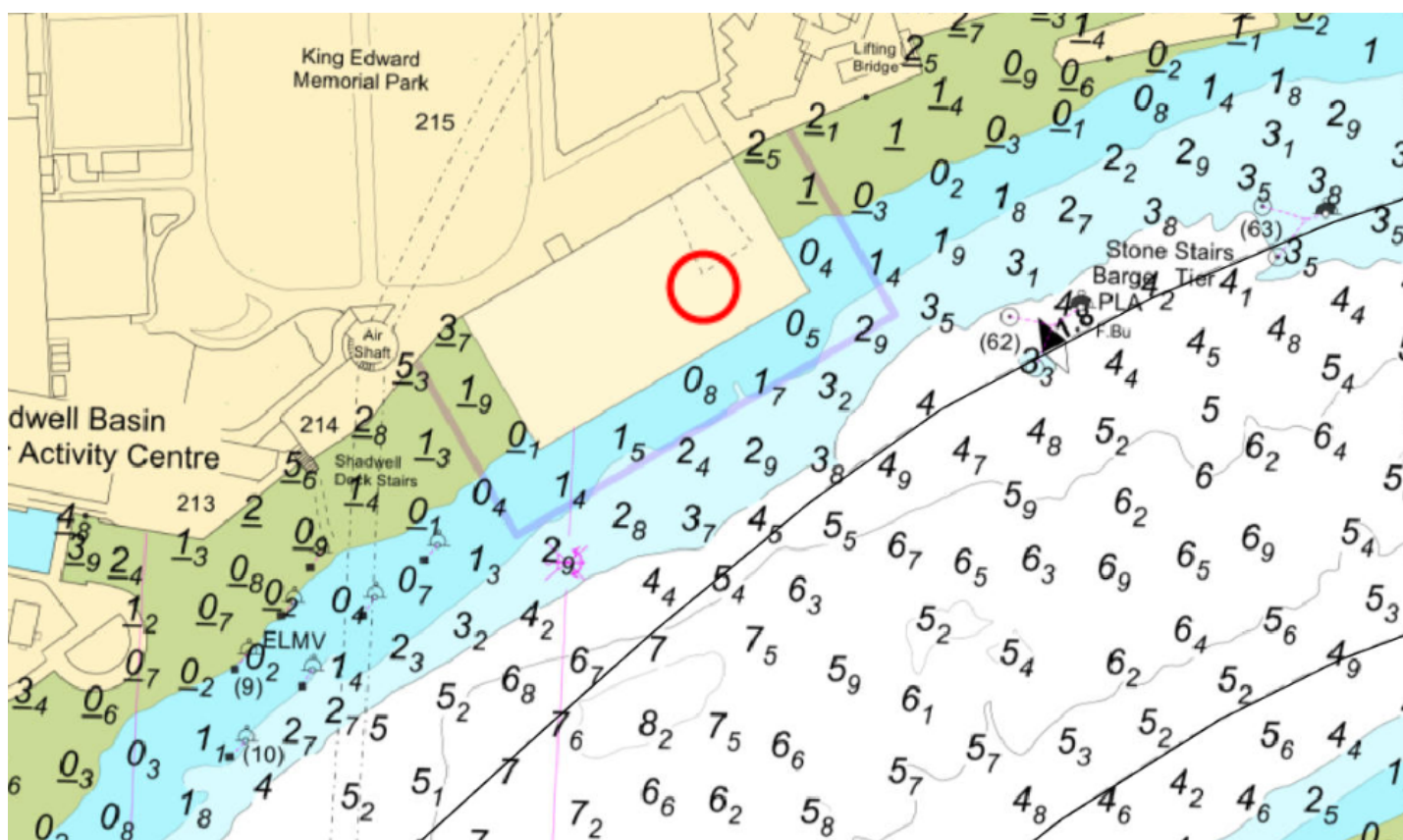
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A set of warning lights will be mounted vertically in front of a black backboard above the CSO. The lights will flash a yellow alternating 1 second pattern, visible day and night at a range of up to 200m, whenever the CSO is discharging or likely to discharge.

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The technical drawings illustrate the dimensions and components of the LED lighting fixture assembly:

- Side Elevation (Left):** Shows the overall height of the fixture as 4100 mm. The top panel is 900 mm high and 1000 mm wide (two 500 mm sections). The base is 900 mm high and 442 mm wide.
- Top View of LED Array (Top Center):** A detailed view of the 2x2 LED array. The array is 500 mm wide and 300 mm high. It features a "Matte Black Backboard With White Border" and "Shielding on landward side of LED 160". The LEDs are labeled "LED 160". The mounting structure includes a "Flange and web from 5mm sheet" and a "76 dia shaft".
- Plan View (Right):** A top-down view of the mounting structure. It shows the "76 dia shaft" and "Backboards" at a 120-degree angle. The LEDs are labeled "LED 160". The overall width of the mounting structure is 236 mm.

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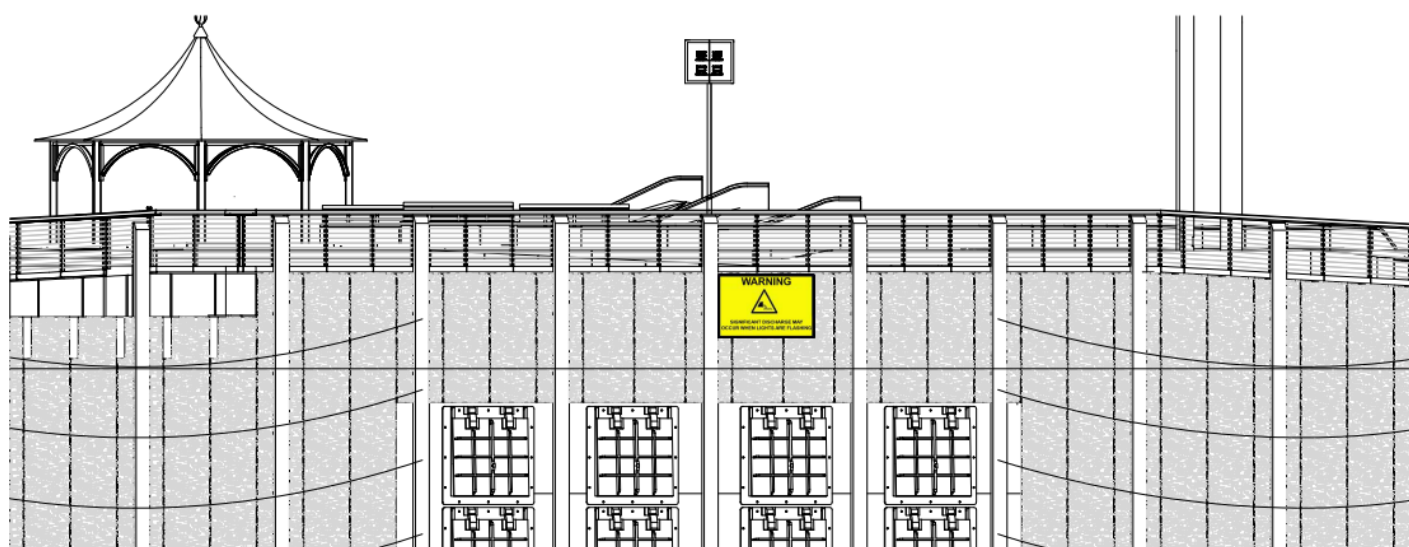
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CSO discharge alerts and warnings will be broadcast by London VTS on Ch 14. Additionally, the live status of each CSO is available on the PLA website: <https://pla.co.uk/cso-status>

Routine VTS broadcasts will also include a warning if Tideway inform us there is a likelihood there will be a discharge within the next hour from the site.

Human powered recreational craft, lower powered vessels and craft engaged in towing are advised to avoid the area over the slack water period (around two hours over low water and an hour over high water) if there has been heavy rain or 'if there is a Met Office weather warning for rain or storms in force for the London area.

The CSO is partly connected to the tunnel which will intercept most of the discharges, but any larger storms and rain downpours may result in a discharge directly into the river. The Tunnel is expected to be in full service later in 2025. A new Notice will be issued at a later date to advise of permanent Tideway Tunnel

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operations.

All mariners are advised to exercise caution when passing the site and to pay attention to warnings given.

Further information on the characteristics of the CSO discharges, assessments of risk and potential impacts on mariners which were undertaken by Tideway's designers are available on their website

[www.tideway.london/contact-us/document-library](http://www.tideway.london/contact-us/document-library) and follow the link to [CSO DISCHARGES - RISK TO NAVIGATION](#). Mariners should consult these documents when passage planning.

*(These links will take you to a third-party website which does not belong to the Port of London of Authority and may have different security, privacy and accessibility standards.)*

#### **Example discharge plumes and velocities in m/sec for a 5 year return period discharge**

**(1 m/sec = 1.94 knots)**

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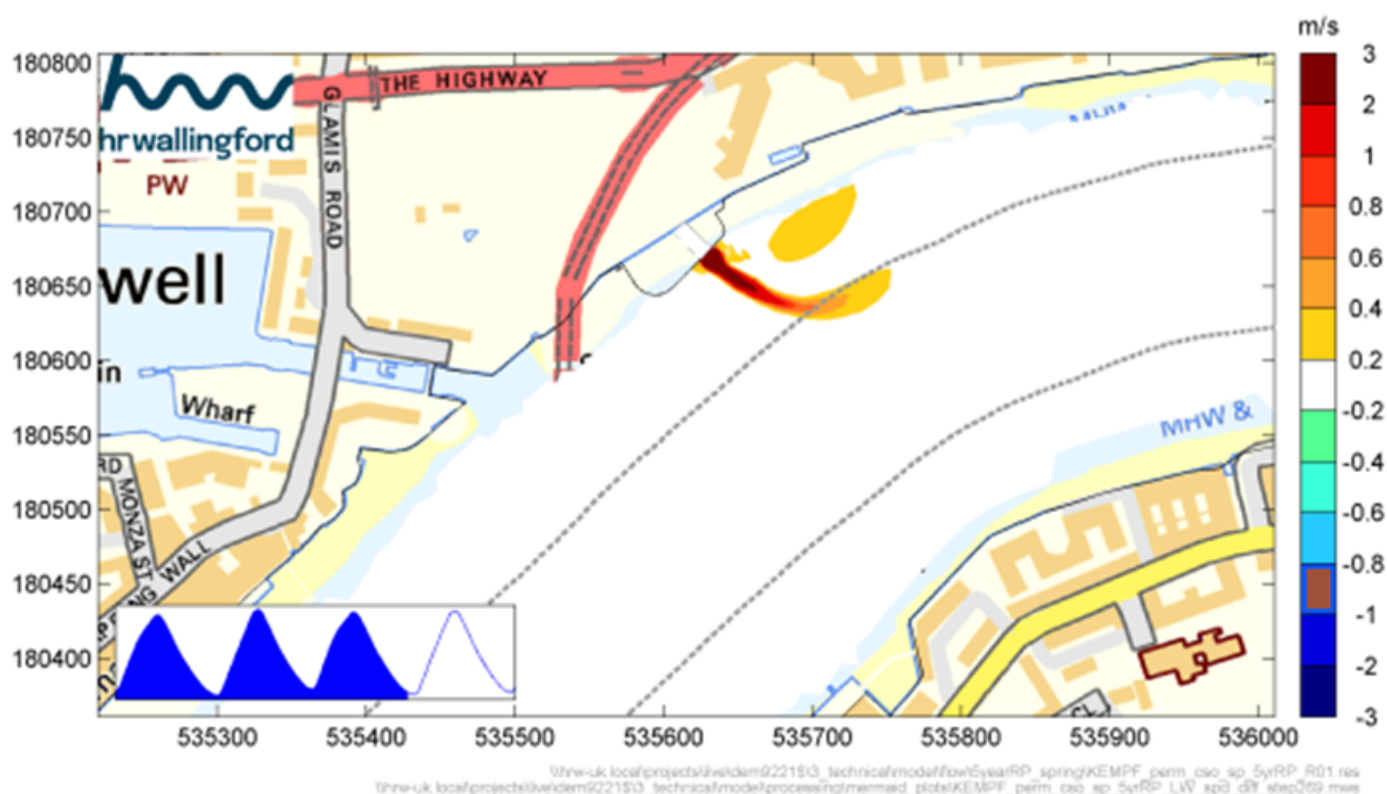


Figure B.144: 5 year RP event spring tide current differences, 60 mins before LW slack

Source: HR Wallingford Ltd

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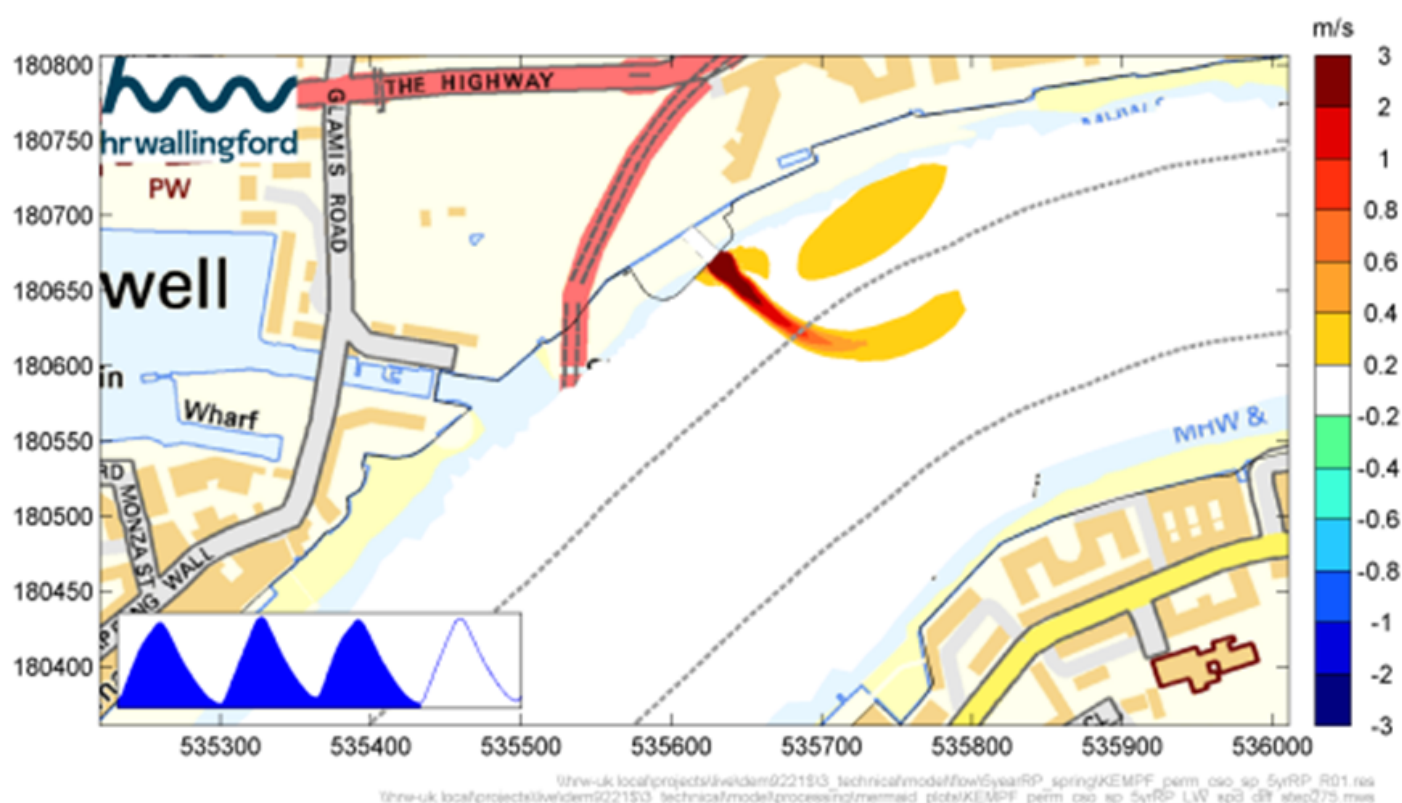
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## King Edward Memorial Park CSO Diversion

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**Figure B.150: 5 year RP event spring tide current differences at LW slack**

*Source: HR Wallingford Ltd*

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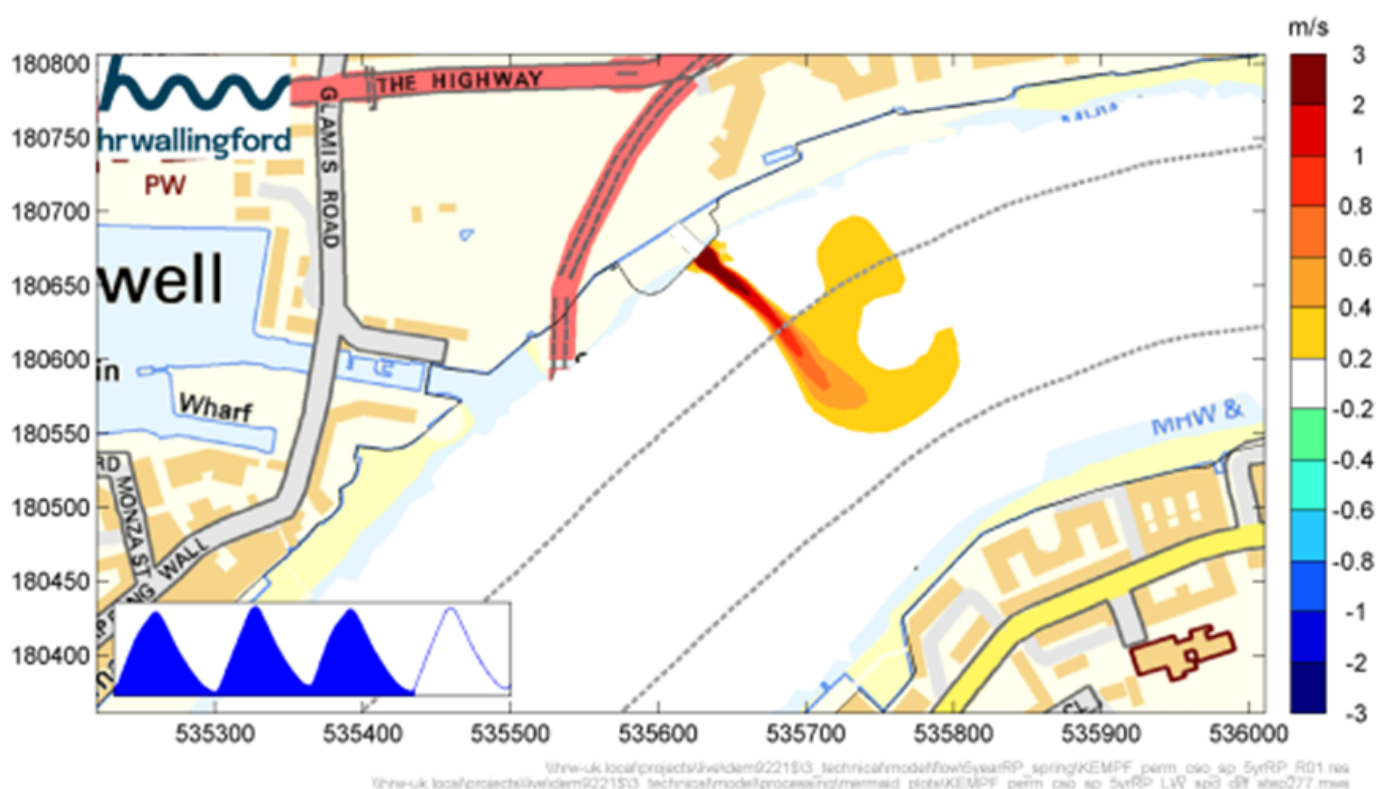
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**Figure B.152: 5 year RP event spring tide current differences, 20 mins after LW slack**

Source: HR Wallingford Ltd

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