BISHOPSFORD ROAD BRIDGE DEMOLITION

Land & Water was instructed by clients London Borough of Merton Council to demolish the existing bridge which spanned the River Wandle at Mitcham.

Project Delivery

- The tender stage demolition sequence was reviewed with Land & Water putting forward an alternative proposal by introducing protective measures to minimise the duration of the works, reduced man-entry requirements into the partially collapsed arches of the bridge and reduce the impacts on the river.
- In order to allow the river to continue to flow, whilst protecting demolition debris from entering the watercourse, Land & Water had to carry out important temporary works.
- Before any works commenced, a silt curtain was installed across the full width of the river. This was visually inspected prior to the start of each shift and any repairs / adaptations were carried out before work started. This included the removal of any debris.
- Land & Water installed dams made using a one tonne bag system which was attached to the arches of the bridge in sequence both upstream and downstream. This created a cofferdam in which to work.
- Timber hoarding was installed to the downstream side of the bridge to protect members of public from the works.
- A temporary services gantry was installed across the river in order to divert the live services that were present within the deck of the existing bridge.
- Demolishing arch structures was complex and required detailed analysis to ensure that during the demolition works there was not any unintended collapse. The innovative methodology included installing a series of flumes through the central arch and then filling the arch with foamed / marine concrete. The central arch acted effectively like a block, enabling the arches either side to be removed, whilst maintaining a balance of forces, therefore reducing the risk of unintended collapse.

Find us on the internet at
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Project Particulars

- Client: London Borough of Merton Council
- March - July 2020

PROJECT VALUE: **£477,000**