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Pipe Bridge Removal

View of canal after project completion.

Ultimate client:	UKOP/WLPS
Project Location	
Country / region :	UK
Project Dates:	July 2018 – March 2019
Project Phase:	Detail design/Project and Construction Management/ Recommissioning
Overall Project Value :	£1.5M

BPA manages major hydrocarbon transmission pipeline systems and bulk storage assets in the United Kingdom on behalf of their owners. We offer over 40 years of experience in setting up, operating and maintaining facilities, reducing operating costs, increasing system capacity and extending the operational life of oil and gas infrastructure.

Background:

BPA is the Statutory Operator of the UKOP pipeline system. As part of the “operational risk reduction” programme of works on the 750km multiproduct pipeline the pipe bridge at Nash Mills in Kings Langley was removed and replaced with a new underground crossing below the canal. This eliminated the risk of potential environmental damage resulting from the Grand Union Canal traffic, criminal activity on the aboveground installation, or injury linked to un-authorised access by members of the general public.

The solution:

The pipe bridge at Nash Mills was a single overhead crossing of three multiproduct pipelines. BPA produced the detail design, managed the construction and recommissioning of three tunnel crossings beneath the canal and the installation of the three pipelines from the single launch pit to a single reception pit. All works were completed within a tight schedule of planned shutdown works on the UKOP pipeline.

Fast facts:

The three tunnel design reduced risk to the canal infrastructure and made the construction process safer.

Works also included the tie in of the new crossing to the existing pipelines, removal of the redundant overhead crossing (incl. concrete bridge supports) and capping and grouting of the redundant buried sections of pipeline. The three pipelines were installed consecutively over 3 weeks. The tight schedule of 1 week per each pipeline included nitrogen clearance.



Single launch pit for the three pipelines.



View of canal before project start.