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*ICA Site Surveys – 3D Laser Scanning*

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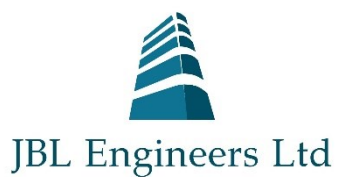


**Project Value: £9,672**

**Project Start Date: 18<sup>th</sup> January 2018**

**Project End Date: 1<sup>st</sup> February 2018**

**Client: NMCN Ltd**





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## *ICA Site Surveys*

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JBL Engineers were sub-contracted by Tier 1 contractor North Midland Construction Nomenca (NMCN) Ltd to provide 3D Laser Scanning of multiple assets across Derbyshire and Warwickshire to enable the production of As Built records.

Typically, asset surveys of this nature would involve confined space entry, this carries additional risk and costs to ensure that the work is carried out safely.

JBL Engineers proposed utilising inverted line shaft scanning techniques such that entry to the confined space assets would not be required. This approach was accepted and as a result mitigated significant costs and labour resources that would typically be required.

The Assets to be scanned were associated with On-Site Secondary Chlorination and line assets such as flow control at stop valves located both below and above ground, remote sites, reservoirs, and pumping stations.



Using a combination of upright and inverted scanning methods JBL Engineers were able to capture the asset geometry, environment, and condition. This allowed a prioritisation by the client team to assess and instigate works where required. The availability of the point cloud allowed detailed design for the upgrade of assets such as the installation of flow control valves within below ground chambers.



Furthermore, by capture of the access and environment associated with the asset the projects team were able to detail the construction management.

JBL Engineers completed the scanning work and undertook the registration of the scans, utilising Autodesk software the point clouds

were registered and issued to the client team with the registration reports detailing the scan collation accuracy. All scans were completed with accuracy levels within the contracted tolerance.

JBL Engineers were proud to support Tier 1 contractor NMCN completing the project to programme and budget.

