

## SHAFT SINKING AT WYTHENSHAW

Client:

**Private Domestic Client**

Summary:

A new industrial process required a water storage vessel to be constructed below the floor level of a portal frame building.



View at Floor Level



Excavation of Shaft

## PROJECT DETAILS

### SHAFT SINKING

We were approached by the client who required us to undertake a feasibility study of the various options available. The Client chose a shaft lined with caisson rings and in-situ concrete base. We finalised the design and following Client approval we undertook the works.

After diamond sawing and removal of the existing structural concrete floor slab we built a DN3000 x 6.5m deep caisson shaft using full rings and proprietary steel cutting edge. A reinforced concrete base was cast and a second layer of in-situ concrete placed on the guide collar to suit the steel support frame required by the new process.

The completed shaft was tested to ensure it met the standards for an aqueous retaining structure before being put in to use.

### GROUND CONDITIONS

- Stiff Dry Clay