

UNDERGRADUATE PROFILE

Name: **DANIEL FARROW**

University: **BIRMINGHAM**

Course: **BEng CIVIL ENGINEERING**

Year: **3rd YEAR**

Placement: **SUMMER 2009**

Division: **CIVIL ENGINEERING**

Site based: **MINWORTH STW**



2009 is the first year Daniel has joined NMC for a summer placement. Daniel attended a RESPECT Careers Fair at The University of Birmingham and it was there that the family values of the Company were something he admired. He said that as a Company we were very approachable and the culture of NMC was appealing to him.

Daniel is a very 'hands on' individual and after a number of years spent within the Construction Industry, prior to commencing University, contracting is where he feels his long term career will lie.

Daniel is very fortunate to be placed on one of our larger sites at Minworth STW. Minworth is a £45m project over 125 weeks and is split into various phases.

The Enabling Works, Advanced Earthworks includes the excavation of 200,000m³ material above the existing filter beds, cart to drying beds and spread and compact material to form a temporary stockpile. Excavate existing concrete structures crush the concrete and stockpile in the local storage area. Excavate below existing structure cart the material to a temporary stockpile to the area immediately south of the excavation, spread and compact in layers to 2m.

*The Construction Works include the construction of 22 No. new primary settlement tanks (each 30 m internal diameter by 7.5 m total depth (to base of outlet cone) and provision of all associated M&E plant. Construction of new inlet works consisting of 8 No. new inlet screens and 4 No. detritors and provision of all associated M&E Plant. Construction of major inlet channel from existing sewer delivery chambers to new inlet works (approx. 360m*5m*4.5m deep base). Construction of major pumping station to transfer all flow from the inlet works into the existing activated sludge plants' feed channels and provision of all associated M&E Plant. Modification to 30 existing primary and storm tanks to tanks to be operated as quarantine tanks and storm tanks and operation to be fully automated. Work involves construction of major flow transfer culverts, return pumping stations and isolation control penstocks, including provision of all M&E Plant. Modifications to existing inlet screens and associated plant to convert them for use as storm screens. Major tie-ins to existing plant at existing sewers' reception chamber and existing activated sludge plant feed channels. Automation of all plant and integration into existing Severn Trent Major Works Control System (MWCS)*

Although Daniel joined the site over half way through the programme he has spent his time assisting an experienced engineer with setting out, controlling works with individual employees, organising gangs to work, putting necessary paperwork in place.

Daniel has enjoyed being kept busy on site and learning how a site is managed but has disliked the distance he has had to travel each day although he says this has been overshadowed by the invaluable experience he has gained.

Daniel would like to join us again in 2010 and we look forward to meeting Daniel again when we visit the RESPECT Careers Fair at Birmingham. We wish Daniel well for his 3rd year at University and look forward to working with him again next year.