



A Grave Situation



Kemnal Park Cemetery

A Greater London cemetery which was opened just five years ago to provide much needed burial space, is expanding again with behind-the-scenes assistance from HBPW.

The 55-acre Kemnal Park Cemetery and Memorial Gardens on Sidcup By-Pass is a privately-owned facility, which was officially unveiled in October 2013 with the promise of 30,000 plots, accompanied by memorial gardens for cremated ashes.

And, whilst it was intended to provide much needed burial space for Bromley, Bexley and the surrounding boroughs, it is already clear that demand has rapidly outstripped supply.

HBPW Senior Engineer Shaun Strugnell, said: "At the time it was said to be the capital's biggest cemetery development in a century. Clearly it is a large site, however, London is an even larger city, which means that demand for burial and cremation space in this part of the world is exceedingly high.

"We were invited to get involved with the project by contractor Faircloth and have worked with them to complete all the design engineering for Phase II drainage works, attenuation ponds and

roadways designed to create greater access to new plots of land."

Although the site was privately acquired in 2009, extensive tests were made ahead of further investment. At the time of opening, the then Operations Director said: "When you acquire a site, drainage is the first thing. Working in conjunction with the Environment Agency, we went through a whole series of soil and ground tests looking for nitrogen and areas of landfill."

Shaun added: "This now completed phase of work will extend the life of the cemetery in the short-term, however, Kemnal will only have space for a few decades because of high demand in this area."

Contractor: Faircloth Construction
Architect: Buraloo
Photos: Courtesy of Bromley Times



Non-demoninational Chapel

RISQS

HBPW has maintained a perfect 5* rating in its most recent audit under the Railway Industry Supplier Qualification Scheme (RISQS).



Paul Jacklin

RISQS is the supplier pre-qualification service used by buyers of all products and services throughout the British rail industry.

And, as part of the scheme, companies like HBPW must undergo a rigorous annual inspection lasting up to three days, to ensure that their delivery processes and systems are up to scratch.

Associate Paul Jacklin, who has responsibility for quality standards within HBPW, said: "RISQS plays an important role in maintaining industry-wide standards, however, adhering to the Scheme also means each team member has to self-police standards and that requires a lot of individual discipline.

"It is only at inspection time that we can truly confirm how we've done over the preceding 12 months, so this latest 5* rating is for the entire HBPW team whose members have been instrumental in maintaining internal quality standards."

The accreditation not only allows professionals to work trackside for the likes of Network Rail, but also enables them to complete all aspects of engineering design within the rail sector.

"RISQS is, without doubt, a collective effort which not only maintains and raises professional standards, but also compels people to think at a more detailed level in the name of safety, quality and first-class engineering," added Paul.



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Owlerton Greyhound Stadium where we are playing our part in bringing a £5m banqueting suite to fruition.

We have also been learning about the world of bereavement as we assist Kemnal Park Cemetery to cope with the pressures of London's mortality rate.

However, all of this would most likely not be possible but for the various accreditations we maintain annually. Every year we are assessed to ensure that we are deemed 'fit for purpose' both as a business and in our ability to safely work in a range of environments.

I am pleased to report, therefore, that we have again achieved a 5* rating – the highest possible score – after our most recent audit under the Railway Industry Supplier Qualification Scheme (RISQS). You can read about all of these stories in this edition.

Undoubtedly this is a fascinating profession. With the continuing drive to get more people into engineering – particularly women – maybe it should be as much about the exciting projects we do as it is about the technical. Universities increasingly sell the cities in which they are located as much as they do their courses. Food for thought?

For now we continue to work on some great (and diverse!) projects so please keep an eye on the HBPW blog to see what we've been up to (www.hbpw.co.uk).

Meanwhile enjoy the read!

PAUL WITHERS
MANAGING PARTNER
HBPW LLP

Welcome



Paul Withers - Managing Partner

Whenever I overview the quarterly newsletter I never cease to be amazed by the diverse range of projects HBPW continues to be involved with.

Contrary to popular belief I do not have an A-Z knowledge of every single contract that passes through our offices, however, I do enjoy reading about those assignments of which I have a fleeting knowledge, whenever my periodic role as newsletter editor comes around!

In previous editions we have featured everything from biscuit manufacturing plants to skydiving simulators and even a top secret security complex for elite sports cars.

This time its greyhounds and cemeteries!

We can't really claim to be 'Northerners' in rural Retford any more than we can be found sporting cloth caps or racing a certain type of mutt, however, HBPW has come to the assistance of Sheffield's

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£13m College Build Gets HBPW Stamp



Leeds College of Building's New Development

A unique college exclusively dedicated to construction and the built environment is undergoing a massive expansion, and HBPW is firmly at the helm alongside Clugston Construction.

Leeds College of Building is nationally recognised as a leader in its field and has now begun work on Phase Two of its Hunslet campus development in the city's South Bank district, with the promise of a 57,000 sq. ft, four-storey building by the end of this year.

HBPW Partner, Emyr Parry, said: "We are really pleased to be involved in this sizeable project which will see the delivery of new classrooms, workshops and an impressive central atrium, alongside the College's existing South Bank campus between



Clugston Construction on Phase 1

Cudbear Street and Black Bull Street.

"It is being built on land formerly occupied by Yorkshire Chemicals and Clugston's asked us to produce the steelwork and upper floor design for this prestigious development, which has already received wide recognition and £12m in support grants via the Leeds City Region Enterprise Partnership Growth Deal. As part of the funding £1m will also be spent refurbishing the North Street campus."

Once complete a large proportion of Leeds College of Building's 7,000 students will attend the two South Bank sites, with the remainder using the College's North Street campus.

Leeds College of Building will be offering a wide range of traditional courses within the facilities including mechanical and electrical and plumbing and heating programmes, as well as being able to provide more courses in the ever-expanding area of BIM technology.

The building will also provide purpose designed classrooms for its Higher Education courses.



Complements Existing Buildings

Steve Radcliffe, Managing Director of Clugston Construction, said: "The project is especially notable because it will play such a crucial role in contributing to the future talent of the construction sector at a time when there are clear skills shortages."

Emyr added: "This win is another feather in the cap of the HBPW team and proof, yet again, that we continue to work on some of the most prestigious and complicated engineering jobs in the UK."

Client: Leeds College of Building
Contractor: Clugston Construction

Water Treatment Upgrade For Sheffield



MIEX Facility Taking Shape

A pioneering water treatment facility, instrumental to the further upgrade of Sheffield's drinking water, will feature HBPW's engineering hallmark when it is finished next year.

Langsett Water Treatment Works in South Yorkshire receives its raw water from a nearby reservoir and, traditionally, has cleansed it using the Rapid Gravity Filter system (RGF).

However, more state-of-the-art methods, with considerably improved outcomes, are now available as Senior Engineer

Shaun Strugnell explained: "We are working with Clugston to build a new Magnetic Ion Exchange (MIEX) facility on the same site, close to the existing one.

"MIEX processes have the ability to reduce the Dissolved Organic Carbon (DOC) from water which, in turn, reduces the formation of harmful Disinfection By-products (DBPs) in the drinking water treatment plant."

The new facility, measuring 38m x 22m, features a 7m deep basement containing the MIEX process

equipment along with contactor storage chambers used for the treatment of water. "When the MIEX process centre is up and running," said Shaun, "the two treatment facilities will work in tandem to ensure Langsett WTW is running at optimum output capacity."

HBPW is leading the civil & structural engineering design on behalf of Clugston who are delivering the project for the Morgan Sindall and SWECO Joint Venture (MS2JV), created to complete the contract for end client, Yorkshire Water.



Concrete Piped Onto The Site



Steelworks

"Space restrictions on site have meant that concrete has had to be pumped in some considerable distance," added Shaun. "However, despite many short-term technical challenges, all parties have worked well together to deliver what will clearly be a major asset for the people of Sheffield."

Contractor: Clugston (for the Morgan Sindall & SWECO Joint Venture)

Client: Yorkshire Water

It's A Dog's Dinner!

The stereotypical image of the 'Northerner' and his greyhound will take a serious battering soon as Sheffield's Owlerton Greyhound Stadium prepares to build one of South Yorkshire's finest hospitality facilities, a £5m banqueting suite.

And it has extended a 'Come Dine With Me' offer to HBPW's engineering team who have been helping shape the early-stage project.

The significant investment by stadium owners A & S Leisure Group Ltd is part of a wider company restructure with the

500-capacity facility earmarked for opening next Easter.

HBPW Partner, Emyr Parry, said: "We have done the phase one and two ground investigations and preparation of tender designs for the civil and structural elements, so that the client can go out for competitive tenders.

"A&S recently closed its iconic Napoleons casino on Ecclesall Road in Sheffield, however, this investment clearly illustrates the company's on-going commitment to the city and we are excited to be part of it."

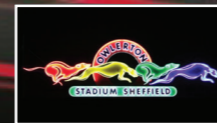
The banqueting suite will be built on the site of the Hare and Hounds bar with the terraced area at the finish line end of the track also making way for the new development. As one of the largest entertaining and conference spaces in the city it will create up to 200 jobs.

Owlerton Managing Director John Gilburn said: "This is an important development in the long history of Owlerton Greyhound Stadium. For some time, Sheffield has lacked a venue with the flexibility that this will provide. The new facility will

give us the ability to host weddings, conferences, large banquets, indoor sporting events and concerts."

The planned design will allow for the top floor suite to be open to 500 guests or split into separate rooms with 250, 150 and 100 people capacities, all with fantastic views across the track. On the same level there will also be five brand new executive boxes catering for 20 people each.

Client: Sheffield Sports Stadium



Grundon's Banbury Site Under Development

Talking Rubbish – Major Contract

HBPW has secured the contract to help develop a major waste transfer station in Banbury, Oxfordshire, just two years on from a successful partnership with one of the world's leading waste recovery companies.

In 2015 a value engineering approach meant HBPW was able to help French owned firm, Veolia, make significant savings following challenges at two sites in Nottinghamshire.

Now, that expertise has come to the fore once more and has been key to winning this latest contract with Grundon, the UK's largest family-owned supplier of integrated waste management and environmental solutions.

Senior Engineer, Shaun Strugnell, said: "Once again we are working with Clugston and, to some extent, it does feel like a slight re-run of the Nottinghamshire project because so many of the considerations are similar.

"In this instance we have delivered the civil and structural engineering for a 57m x 45m steel portal framed shed which will replace their existing waste transfer facility. It features 4m high insitu concrete push walls used in the retention and separation of the waste."

However, as with the Veolia project, there was also the need to consider Sustainable Drainage Systems (SuDS). Planning Conditions for the scheme meant that any water

flowing from the site would need to be restricted to less than the existing flows, through use of water attenuation.

"Typically this involves excavating soil to install large underground attenuation tanks. In the case of Grundy one large 1400m3 tank was fitted so that in the event of a heavy downpour, water can be collected, stored and subsequently drained away into the existing water course, in this instance, a nearby stream."

However, before water is released into the stream it is first passed through an interceptor to remove any contaminants such as oil, added Shaun.

"Experience counts for everything in the world of engineering and there's no doubt that our experience on the Veolia job was key to informing our approach on the Grundy contract which went seamlessly," he said.

Founded in 1929, Grundon operates from depots across the south of England and partners with customers to help minimise the financial and environmental impacts of their waste. At the time of going to press, the project was due to complete.

Client: Grundon Waste Management
Contractor: Clugston



MIEX Facility Taking Shape