Services

- Desk studies and due diligence appraisals
- Ground investigation and monitoring
- Quantitative risk assessment and modelling
- Ground gas appraisals
- Remediation design and supervision
- Sustainability appraisals
- Waste classification and management
- Validation and verification
- Specialist surveys

CampbellReith provide an integrated consultancy service to appraise and remediate brownfield land. We combine both scientific and engineering disciplines and where appropriate also offer ‘turnkey’ site remediation and infrastructure in a joint venture with specialists Heijmans Blackwell Remediation. HBCR
CampbellReith is a leading firm of consulting engineers providing development planning, regeneration, transportation, environmental, geotechnical, civil and structural consultancy services throughout the UK and overseas.

The practice has a reputation for the creative use of specialist technical knowledge and for providing innovative and efficient engineering designs. The multidisciplinary nature of the practice allows our environmental engineering group to develop appropriate and effective solutions.

A member firm of the Association for Consultancy and Engineering, CampbellReith undertakes feasibility studies, surveys and appraisals, design and construction monitoring, as well as providing specialist report and advisory services including expert witness work.

The practice has extensive experience of working in project teams and ensuring co-ordination between internal and external engineering disciplines. CampbellReith’s innovative and ‘hands-on’ approach to working means that the practice has an enviable track record for delivering a service of the highest quality, on time, and on budget.

Operating out of offices in London, Redhill, Manchester, Birmingham in the UK and Dubai in the UAE, the Practice provides services within a Quality Management System accredited for design services and contract supervision, across a broad range of development sectors.
CampbellReith has an extensive track record in the delivery of successful regeneration projects and masterplans for a range of private and public sector clients including regional development agencies and local authorities.

Disciplines
- Contaminated land specialists
- Environmental engineers
- Geologists and hydrogeologists
- Geochemists
- Quantitative risk assessors
- Environmental management auditors and surveyors
- Geographical information system specialists
- Accreditation: AGS, CGeol, CIWEM, IEMA, RICS, MICE, CEnv
- Software: CLEA UK, RBCA, EA RTW 3.1, Consim, ArcView, Holebase
We have utilised our expertise to facilitate the successful regeneration of sites as diverse as shipyards, collieries, mining sites, munition works, power stations, contaminated industrial land and military establishments for a range of end uses including residential, commercial amenity, leisure and industrial.

Frameworks

We hold a number of framework appointments for national, regional and local government. We are environmental consultants for both South East England Development Authority (SEEDA) and the London Development Agency. In addition we are a framework consultant to English Partnerships for environmental impact assessments (which embraces all of our geo-environmental and engineering disciplines) and drainage services. The English Partnerships framework allows local authorities and regional development agencies to access our services on a framework basis.

Royal Albert Basin

Redevelopment of the former Beckton Gas Works and Petroleum Wharf. With HBR we provided full investigation, risk assessment and remedial (civil and geotechnical) design and delivery services. The rapid remediation of the site incorporated soil stabilisation, bioremediation, complex screening and extensive groundwater treatments.

Woolston Riverside

Redevelopment of Vosper Thornycroft shipyard. We provided advice in respect of geotechnical, marine, transport, environmental and civil engineering. Phased intrusive investigations and risk assessments were subsequently enhanced with treatability trials for the removal of asbestos in soils and a twelve month groundwater assessment programme. The forthcoming remediation works will include soil bioremediation, screening/washing, stabilisation and groundwater treatment. Other remedial options considered include bioaugmentation, permeable reactive barriers and MNA.

Centre of Engineering and Manufacturing Excellence (CEME)

Redevelopment of a raised landfill historically associated with Ford Dagenham for a landmark further education college. We were responsible for the investigation of the site using conventional borehole and the CPT-MIP contamination detection system. We subsequently designed and procured the geotechnical and environmental remediation of the site using a combination of complex and thermal sorting, hot spot identification and removal.
Our services commence with the site acquisition process, advising on the potential liabilities and financial risks of the purchase and preplanning stages, through to complete remediation and site validation. We strive to offer added value and sustainability by providing an integrated service combining our geotechnical, environmental and engineering disciplines in one team.

**Ridgeway Trading Estate, Iver Heath**

We completed an extensive appraisal, investigation, remediation and validation of the Ridgeway Trading Estate, which has been contaminated by oil leaks dating from a former manufacturing usage. Extensive remediation for soil and groundwater included free product vacuum enhanced recovery and pioneering UK use of Enhanced Thermal Conduction (whereby soils are heated to temperatures of between 250°C and 450°C). Asbestos-contaminated soils were subjected to a waste minimisation exercise, being sorted and screened under a strict health and safety regime.

**Big Yellow Self Storage**

Each scheme comprises due diligence environmental audits, desk studies and intrusive site investigations for geotechnical and environmental purposes combined with the provision of geotechnical, civil, transportation, flood risk and structural engineering services. Quantitative risk assessments and remediation are also required in some cases. Subsequent to our investigations, interpretation and supporting surveys (e.g. asbestos, ecology, unexploded ordinance, Japanese Knotweed) site remediation and validation is provided to fulfill planning requirements.

**London 2012 Olympic Park**

As part of a team with HBR we have been successful in being appointed as one of the Tier 2 contractors who can undertake remediation of the London 2012 Olympic Park and relocation sites. We will provide full environmental, geotechnical, civil and structural design services required to deliver site remediation within the Tier 2 contract held by HBR. HBR have been appointed to provide the northern treatment hub on the London 2012 Olympic Park and the joint venture team is also in the process of remediating eight Olympic business relocation sites on behalf of the London Development Agency.

**Crewsdon Works**

Redevelopment of an electroplating works and warehouse with issues including cyanide and solvent contamination. Full risk assessment was followed by remediation to protect human and controlled water receptors. The remediation included the installation of an impermeable barrier cut-off-wall, removal of existing drainage runs, excavation of contamination, groundwater extraction and perched water treatment.
We provide a full engineering service for housing redevelopment schemes. Additional key considerations on these projects include NHBC validation and Building Regulation approval for the remediation and construction design.

**Yallops Yard**

We were commissioned to provide full site remedial, transport and structural design services for the residential development of Yallops Yard in the London Borough of Tower Hamlets. The site was previously railway land and work involved the appraisal of an in-situ groundwater treatment operation for oils combined with the provision of capping solutions for proposed garden areas. This £35m development comprises 262 residential units consisting of a mixture of houses and apartments and a community centre. The remediation strategy required long-term and close liaison with our client to ensure full validation for NHBC purposes.

**Leopold Estate**

The project involved the redevelopment and intensification of the existing Leopold residential estate in the London Borough of Tower Hamlets. Remediation has included the resolution of historic hydrocarbon contamination of the existing and proposed soft landscape areas. The scheme involved the refurbishment of 330 units, demolition of 166 units and construction of 480 new units and community and office buildings.

A key objective of the development proposals was to ensure the ideas for the new build housing were integrated with the retained housing, so that a seamless sustainable community and environment could be created. We implemented site investigations, provided advice with respect to surface water drainage requirements and prepared an EIA scoping report, with associated detailed consultation.

**Brodlove Lane**

The Brodlove Lane site had a long industrial history including glass works, knitting works, fur and skin dressers and other miscellaneous industrial works. Phased investigations at the site identified contamination of the soils and underlying groundwater. Soil strips were implemented to remove asbestos and hot spots were excavated in areas including a former sump. Risk assessments indicated the requirement for a groundwater pump and treat remediation for hydrocarbons and solvents and this was achieved by the installation of abstraction wells and treatment system comprising a phased separation unit and granular activated carbon filtration system.
Nene Waterfront Regeneration, Wisbech

Nene Waterfront regeneration area consists of a group of sites that have been vacant for over 20 years. Initially involved in the development of the masterplan, we are providing multidisciplinary engineering services including environmental, geotechnical, transportation planning and modelling, marine engineering, flood defence engineering, flood risk assessment, highway engineering, infrastructure design, structural engineering and production of the environmental impact assessment.

The environmental works include quantitative risk assessments for both controlled waters and human health and the specification of a remediation strategy including a full gas works site remediation, screening of soils for asbestos contamination and provision of validated service corridors.

Northern Beckton Alp, London Borough of Newham

Beckton Alp is a raised area of gas works waste that was engineered and capped in the 1980’s and which dominates the area landscape. Subsequent development of a ski slope, left areas of exposed contaminants in areas of public access and a proposed commercial development. We developed a site specific assessment model for human health to quantify the risk presented by the contaminated soils and to determine the remedial requirements. Remediation designs and costings were prepared considering contamination, geotechnical stability and gas generation.

Spring Quarry, Corsham

Spring Quarry is an underground bathstone mine that was converted as a wartime underground aircraft engine factory and naval store. The legacy left from these uses included asbestos, munitions and hydrocarbons lying directly within a major aquifer. The site was extremely sensitive due to the presence of strategic Government nuclear bunkers on the adjacent site.

We provided environmental engineering and consultancy advice for redevelopment including a thorough appraisal of the potential environmental risks pertaining to the site, procurement and management of specialist asbestos and radioactivity surveys, intrusive surface contamination investigations, consultations with the relevant statutory and regulatory authorities and the presentation of a land quality statement detailing a full risk assessment and appraisal of liabilities and indicative abnormal costings. This was followed by the specification of remedial works to remove existing stored fuel oil and asbestos wastes both above and below ground.
The adoption of site based remediation strategies that minimise waste, site traffic, energy consumption and material movements are always prioritised. We make appropriate use of risk assessment tools and available remedial technologies to promote sustainable remediation schemes and also offer CEEQUAL assessment to audit this aspect in addition to the construction element.

Royal Arsenal, Woolwich

We were commissioned to advise and implement appropriate works on this historic former munitions factory resulting in a comprehensive remediation design including the treatment of explosives. The remediation strategy was based upon a soil washing and waste minimisation process which at the time was the UK’s largest application of soil washing.

The Royal Albert Basin - Gallions One

The ‘Gallions One’ site is included within the GLA Zero Carbon housing initiative and forms part of the Royal Albert Basin remediation site. Below ground sustainability was considered from project inception where the remedial feasibility assessment considered waste minimisation, remediation longevity and risk based decision making to permit the reuse of treated soils on-site.

Woolston Remediation

From the outset of the project a strategy to minimise waste has been an integral objective of the masterplan in conjunction with the remediation strategy. A major land remediation is in progress at present with ongoing remedial trials to develop robust technologies and validation tools to treat difficult soil pollutants including asbestos. Extensive hydraulic and contaminant monitoring using multi-level sampling systems has been used to define risk assessments and offer best value for remedial schemes.

Centre of Engineering and Manufacturing Excellence (CEME)

The CEME scheme incorporates one of Europe’s largest photovoltaic panels and includes extensive uses of sustainable urban drainage. The remediation minimised the off-site disposal of hazardous materials by using ‘real time’ investigation to delineate contamination.
The provision of innovative solutions to technical problems plays an important role in finding sustainable solutions beyond ‘traditional constraints’ and these are evaluated and disseminated by the practice sustainability committee.

For individual projects, remedial techniques are selected based upon individual feasibility assessments. We have used the following remediation technologies commercially:

- Enhanced Thermal Desorption
- Soil washing
- Soil stabilisation and solidification
- Complex sorting and separation
- Monitored Natural Attenuation
- Bioremediation (in-situ and ex-situ)
- Soil Vapour Extraction
- Horizontal and vertical barriers
- Multi level hydraulic modelling
- Risk analysis
- Trials for removal of asbestos via soil screening and washing

Research Projects

We have co-authored the Best Practice Note for English Partnerships which sets out guidance on assessing the cost of remediation of contamination on previously developed land. We are also currently engaged in a research project with the Environment Agency and HSL with respect to the treatment of asbestos in soils.
Environmental Services Provided to:

Associated British Ports
Atisreal UK
Austin Smith: Lord
AYH Plc
Basepoint Plc
Big Yellow Self Storage
Bournville Village Trust Group
C A Blackwell
Canterbury City Council
Canterbury College
Carillion Services Limited
Catalyst Housing Group
Chancengate Group Plc
City & West End Developments Ltd
Community Housing Group
Como Group Ltd
Corporation of London
Costain Ltd
Defence Estates
Durkan Group
English Partnerships
EPR Architects
Fenland District Council
Fitzwilliam Museum
Foreign & Commonwealth Office
Fraser Brown MacKenna Architects
Galiford Try
Genesis Housing Group
Hampshire County Council
Hastings Borough Council
HBR
Higgins
Inspace Partnership
John Laing Partnership
John McAslan & Partners
John Sisk & Sons Ltd
Kent County Council
Kier Group
Kingston Hospital NHS Trust
Laing O’Rourke
London Borough of Hillingdon
London Borough of Islington
London Borough of Newham
London Borough of Southwark
London Borough of Tower Hamlets
London Development Agency
Lovells Partnerships
Manchester United FC
Mansell Plc
McLaren Construction
Metropolitan Housing Trust
MILL Group
Morley Fund Management
Norwich Union
Notting Hill Housing Trust
Octavia Housing and Care
Olympic Delivery Authority
PCHA
PFP Developments Ltd
Poplar Harca
PPG Southern
PRP Project Services
Reading Football Club
Renaissance Land Regeneration Ltd
Royal Mail Property Holdings
SEEDA
Sir Robert McAlpine
Southern Housing Group
Tameside Metropolitan Borough Council
Tasis School
Tate Gallery
Thanet District Council
The Big Yellow Self Storage Co Ltd
The Crown Estates
TRAK Construction
University of Cambridge
University of Kent
Whitbread Hotel Company