Black & Veatch has a multi-disciplinary technical environment and engineering team who can assess your development and community needs and provide innovative solutions in the form of green infrastructure.

We have provided green infrastructure solutions to a wide variety of clients, including Local Authorities, Regional Development Agencies, Developers, Statutory Authorities, large landowners and non-Governmental Organisations.

We are adept at gaining community buy-in through a range of measures such as workshops and public meetings, producing targeted public documentation.

Our solutions provide the benefits of good green infrastructure, such as:
- Improved human wellbeing
- Inclusion of diverse/marginal social groups
- Flood control through water storage
- Bio-infiltration
- Air cooling (to provide microclimates)
- Minimisation of urban runoff pollution, air pollution
- Carbon sequestration
- Food production
- Decreased noise
- Higher property values

Our Geographical Information Systems (GIS) team is experienced in spatial modeling and landscape-scale mapping. We can map existing infrastructure and carry out ‘Gap Analysis’ to inform future planning.

Our Environmental economists evaluate ecosystem services, informing priority-setting in conservation and land management, as well as regional planning and valuing coastal & marine environmental services.

Black & Veatch’s Landscape Architects ensure strong landscape design and GI principles are woven into multidisciplinary projects. From small scale green space improvements to large scale landscape restoration, we can apply the latest innovations in sustainable design, plan interconnected green infrastructure including green routes, green open spaces, green roofs, green walls, and Sustainable Urban Drainage Schemes (SUDS).

Our Ecologists have a breadth of experience and technical knowledge on habitat design and creation for wildlife, including incorporation into flood alleviation schemes and SUDS.

Our Water Quality Specialists can analyse baseline conditions, identify the needs of the project and provide detailed advice through consultation.

We deliver a variety of invaluable, sustainable, green infrastructure design and engineering solutions:
- Open community spaces
- Natural flood risk & storm water management
- Access to the surrounding landscape & sustainable landscape design
- Improvements to green spaces within new developments
- Wildlife gardens/bio-diverse design
- Rain gardens
- SUDS
- Opportunities for improvements to public access routes
- Orchards and allotments
- Green roofs and walls
- Promotion of improved understanding and interpretation of landscape, cultural heritage and wildlife
SELECTED PROJECT EXAMPLES

GLENCORSE WATER TREATMENT WORKS | Scottish Water
Black & Veatch designed a sustainable legacy in the new facility which provides Edinburgh with more than 70 percent of its water requirements. The 10-hectare site houses a low-aspect treatment plant camouflaged under Scotland’s largest green roof, which harvests rainwater into wetlands surrounding the site.

REGIONAL HABITATS CREATION PROJECT | Environment Agency
Development of a habitat modelling tool to assist in identifying, mapping and prioritising biodiversity opportunities for medium to large scale Biodiversity Action Plan (BAP) habitat creation and river restoration.

FAIRBOURNE FLOOD RISK MANAGEMENT SCHEME | Environment Agency
Black & Veatch designed a new flood relief channel to manage flooding of Fairbourne Village and the Arthog Bog SSSI & SAC.

DERBY MASTERPLAN | Derby City Council
The biodiversity benefit of some habitat creation is clear (e.g. creating new coastal and intertidal habitats), however the value of such habitat beyond this cannot be fully quantified using standard approaches. Black & Veatch Economists are currently placing a value on heritage/amenity resources associated with Derby masterplan, which includes green corridor enhancements.

NOTTINGHAM TRENT LEFT BANK FLOOD ALLEVIATION SCHEME | Environment Agency
Black & Veatch was engaged to design flood defences along approximately 27km of the left bank of the River Trent. The scheme included the creation of an extensive area of wetland habitats within the Attenborough SSSI comprising fen swamp, reed beds, wet grassland, water scrapes and wet woodland. In addition to mitigation, we enhanced the riverside areas through the city including: creating wetland areas at Sawley; enhancing the river and adjacent habitat for fisheries; improved access and amenity throughout Nottingham; enhancing the local wildlife sites; and improving the area for specific species, including otters.

CORPORATE HEADQUARTERS GREEN PAVILION | Black & Veatch
Black & Veatch’s commitment to sustainable design is demonstrated through the renovation of our Corporate Headquarters. One feature includes a 1300-square-meter, stand alone entrance pavilion that showcases a green roof, independent heating/cooling system through a geothermal well field, and a solar garden.

LOWER SWANSEA FLOOD RISK MANAGEMENT SCHEME | Galliford Try
Enhancement of a strategic green corridor and cycle route following the River Tawe towards the city centre. Black & Veatch is working to identify the most sustainable way of providing topsoil for the project; exploring opportunities to ‘manufacture’ topsoil using locally recycled green waste and other materials, with potential savings of >£200K.

CORPORATE RAIN GARDEN | Black & Veatch
Kansas City, Missouri has dedicated itself to being on the cutting edge of stormwater best management practices through the development of its “10,000 Rain Gardens” initiative. The 1st corporate rain garden was constructed at Black & Veatch’s “W” building where we specified the biological components and designed the hydrological solutions.

The largest grass-covered roof in Scotland helps Glencorse blend into the landscape.

The village of Fairbourne is at risk from fluvial (river) flooding from the Afon Henddol and from tidal flooding from the Mawddach Estuary.

For more information contact
Emma Stevens, Chester
01244 304100 | StevensE@BV.com
Vicky Lutyens, Redhill
01737 774155 | LutyensV@BV.com

© Black & Veatch Corporation, 2013. All Rights Reserved. The Black & Veatch name and logo are registered trademarks of Black & Veatch Holding Company. REV 2013-10