

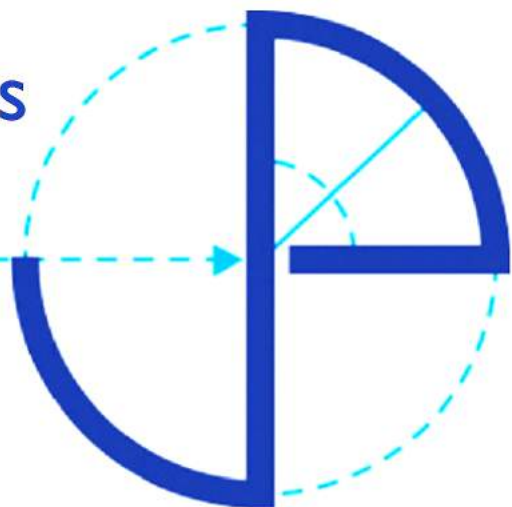


JPC Environmental Services

a division of JP Chick & Partners Ltd



IPSWICH | WITHAM | NORWICH
chick.co.uk/environmental-services



FLOOD RISK ASSESSMENT

We provide site specific FRAs to accompany planning applications for both small domestic projects and larger commercial developments...

In many cases the requirement to produce a flood risk assessment is triggered by the site's location, possibly within the Environment Agency's indicative flood plain, while in others this may have been requested as a means of documenting the absence of any additional risk associated with increased surface water run-off. All planning applications involving a site greater than 1 hectare must be accompanied by an FRA.

The starting point for all FRAs are the Environment Agency's indicative flood maps. These maps identify the 'worst case' extent of current flood risk associated with coastal, river and surface water flood events. While these offer an indication of potential risk it should be noted that they do not take into account the protection afforded by some flood defence structures or the predicted effects of climate change over the design life of the development.

The type of assessment required will depend on a number of factors, including the source of flooding and the severity of risk, the sensitivity of the proposed development and availability of existing data on which to base the risk assessment. There are 3 main levels of FRA:

LEVEL

01

Screening Study

Essentially a desk-based assessment using publicly available information.

LEVEL

02

Scoping Study

A more site specific, detailed investigation that includes the purchase of flood levels and site surveys.

LEVEL

03

Detailed Study

Similar to the Level 2, but includes bespoke hydraulic modelling to establish site / development specific flood levels.

Drainage
Calculations

Sustainable
Solutions

Sustainable
Drainage
Design

Infiltration
Testing

SuDS Design
Statements

**FLOOD RISK
ASSESSMENT**

Sustainable Drainage Design

We are able to accompany FRAs with the design of a sustainable urban drainage system (SuDS). All developments are required to consider their potential impact on the local hydrology in order to minimise the risk of surface water flooding. Where infiltration-based solutions are proposed, we are able to carry out infiltration testing to BRE365 and design features using specialist software.



CONTAMINATED LANDASSESSMENT

Desk Study
& Walkover Survey

Intrusive Site
Investigations

Remediation
Method
Statements

Site
Validation

CONTAMINATED LAND

We provide guidance and expert advice throughout all four phases of the assessment and treatment process...

Most local authorities are now using an all-inclusive planning condition that covers each phase, on an 'as necessary basis' so that all bases are covered. However, it is possible to discharge the condition at three separate points depending on the condition of the site. This could be at Phase I, II or IV. While such conditions were historically limited to Brownfield sites, these are now routinely applied to residential developments and other sites where the proposed land use is considered to be particularly sensitive.

JPC Environmental Services can act as liaison between the client / developer and the local authority to ensure that regulatory requirements are met at every step of the process.

PHASE
I

Desk Study & Walkover Survey

A combination of visual assessment and historical / regulatory research used to make a somewhat conservative assessment of the possible presence of potential sources of contamination.

PHASE
II

Intrusive Investigation

Having identified potential sources of contamination on or adjacent to the site you are then required to explore whether the on-site soil / groundwater has been impacted.

PHASE
III

Remediation Strategy

If contamination is present, how are you going to clean it up to a condition suitable for the proposed end use. We provide bespoke, cost-effective remediation strategies for approval by the local authority.

PHASE
IV

Validation Report

A thorough and concise record of the remediation process to show that all works have been completed successfully and in line with regulatory requirements.

Geotechnical Investigation

In addition to our geo-environmental services, we can design and undertake bespoke geotechnical investigations tailored to individual site requirements. Qualified and experienced staff routinely undertake and supervise a wide range of investigations, from hand excavated boreholes and trial pits to mechanically excavated trial pits and deep percussive boreholes.

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JPC Environmental Services have been operating as a division of JP Chick & Partners Ltd since 2006. We specialise in providing cost-effective solutions and technical expertise in the fields of Contaminated Land and Flood Risk Assessment.

With offices in Ipswich, Witham and Norwich, JPC Environmental Services cover a range of domestic and commercial projects throughout East Anglia, London and further afield.

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Get in touch:

Please do not hesitate to contact your nearest office for a free quotation, or for an informal discussion on how we can best help you.