

# **Rochdale Municipal Offices FRA**

**Addendum Report**

**January 2010**

**Rochdale Metropolitan Borough Council  
Floor 10  
Municipal Offices  
Smith Street  
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## Revision History

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| V1.0 / January 2010        |            | Andrew Bain (Mouchel)<br>Christine Jones (RMBC)<br>Dominic Hunt (RMBC)<br>John Holt (FaulknerBrowns)<br>Ian Bramble (FaulknerBrowns) |
|                            |            |  |
|                            |            |  |

## Contract

This report describes work commissioned by Rochdale Metropolitan Borough Council in August 2009. Rochdale Metropolitan Borough Council's representative for the contract was Andrew Bain of Mouchel Management Consulting. Richard Roebuck of JBA Consulting carried out the work.

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## Purpose

This document has been prepared as a FRA addendum for Rochdale Metropolitan Borough Council. JBA Consulting accepts no responsibility or liability for any use that is made of this document other than by the Client for the purposes for which it was originally commissioned and prepared.

JBA Consulting has no liability regarding the use of this report except to Rochdale Metropolitan Borough Council.

## Acknowledgments

JBA would like to thank Christine Jones (Rochdale MBC), John Moxham (Curtins Consulting) and Steve McIntyre of FaulknerBrowns Architects.

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## Executive Summary

In August 2009 Rochdale Metropolitan Borough Council (Rochdale MBC) commissioned JBA Consulting to undertake a Flood Risk Assessment (FRA) for a 1.8ha proposed development site in Rochdale town centre. In a letter dated 20<sup>th</sup> November 2009 the Environment Agency stated that the FRA was broadly acceptable, however any application for planning permission would need to be supported by additional information.

The required additional information consisted of:

1. Documentation relating to the Sequential Test.
2. Details regarding the proposed surface water drainage system for the site.
3. Information relating to the intended river side treatment.

This addendum report presents the available information in relation to the above requirements.

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# 1. INTRODUCTION

## 1.1 Requirements

Rochdale Metropolitan Borough Council commissioned JBA in August 2009 to undertake a Flood Risk Assessment (FRA) for a proposed commercial development off Smith Street in Rochdale town centre. Following review of the report by the Environment Agency it was stated that before planning permission could be granted the following information would have to be supplied in support of the FRA:

1. Documentation showing the site passes the Sequential Test.
2. Details regarding the proposed surface water drainage system for the site, including information relating to how excess volumes of runoff will be stored/accommodated on the site.
3. Information relating to the intended river side treatment.

A copy of the letter requesting this information can be found in Appendix A.

## 1.2 Data Sources

The required information was supplied to JBA from the following people:

- Sequential Test report – Christine Jones at Rochdale MBC.
- Surface water drainage system – John Moxham of Curtins Consulting.
- River side treatment details – Steve McIntyre of FaulknerBrowns Architects.

## 1.3 Disclaimer

The information regarding the Sequential Test, surface water drainage system and river side treatment has been supplied to JBA Consulting by various organisations as explained in section 1.2. The accuracy of the supplied data is the sole responsibility of the associated organisations which JBA Consulting has included in this addendum report in good faith. Any queries regarding the supplied information should be directed to the appropriate organisation.

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## 2. OVERVIEW OF SUPPORTING DATA

### 2.1 Sequential Test

The Sequential Test has been undertaken by Rochdale MBC and has been supplied to JBA for inclusion in this report. A copy of the Sequential Test has been provided in Appendix B

### 2.2 Proposed Surface Water Drainage System

A proposed surface water drainage system has been designed by Curtins Consulting. A plan showing the layout of the proposed system is given in Appendix C.

The surface water attenuation is based upon a pass forward flow of 54.1 litres per second. The volume of attenuation required has been calculated as 221m<sup>3</sup>. The attenuation will be provided using a lined permeable paving system, Formpave or similar. The drawing shown in Appendix C shows 1,410m<sup>2</sup> of permeable paving. This is capable of providing 210m<sup>3</sup> of attenuation with a 500mm thick layer of permeable sub-base. The remaining attenuation will be provided within the piped system. Attenuation will be provided for storms with return periods up to 1 in 100 years plus a 30% increase in existing rainfall intensities to take into account climate change effects.

### 2.3 River Side Treatment

The river side treatment design is being undertaken by FaulknerBrowns Architects. The design of the river side treatment is currently at the preliminary stage and so it is not possible to provide a detailed overview. The currently available information states that:

- the river's edge will be maintained, and
- a number of level changes will be introduced adjacent to the river in order to permit views of the river from the site.

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## Appendices

### A. Environment Agency Correspondence

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## B. Sequential Test

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## C. Proposed Surface Water Drainage Plans

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