



Interchange 26, Oakenshaw

**Temporary Surface Water Drainage Strategy
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Author(s):	Dr. J. Crossley
(Signature & Date)	 21/07/20
Project Manager	Dr. J. Crossley
(Signature & Date)	 17/07/20
QA Approved:	A Shepherd
(Signature & Date)	19/08/20

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Temporary Drainage Strategy

Temporary discharge may be required (depending on rainfall conditions) for surface water accumulating on site during the demolition (of residual structures) and subsequent earthworks (necessary to prepare the site for the subsequent development).

Discharge may be to the following:

- Hunsworth Beck (which forms the eastern boundary to the site), where consent will be required from the Environment Agency
- Foul sewer (located in the east of the site) where consent will be required from Yorkshire Water

Where discharge consent is required, consent will be obtained from the relevant regulator prior to waters being discharged from site. Furthermore, any methods of filtration required (by regulators) will ultimately be stated in the discharge consent, but it is considered that the following will be required (depending on the parameters for water classification required by any consent):

- Silt fencing to direct water to the collection point
- Temporary water storage lagoon (please note that it may be possible depending on the timing of the works, to utilise adjacent (existing) filtration systems remaining from the water treatment works prior to discharge (to watercourse).
- Kelly Tank and silt bags fitted to discharge point (drain) to receive water from the storage lagoon and transfer to the discharge point.

The rate and water quality of any discharge will ultimately be confirmed by the regulator granting the consent – no waters will be discharged from site without testing demonstrating compliance with these requirements (including flow rates). However, in the interim, it is proposed that a greenfield run-off rate of 5 litres per second be adopted.

The following mitigation measures will be provided to prevent any surface water run-off entering either Hunsworth Beck or existing site drainage:

- Installation of a temporary bund and/or 'cut off' trench in 'low areas' (in the south east of the site) to direct any run-off away from the watercourse to temporary storage areas
- Grading of earthworks surfaces away from the watercourse on the eastern boundary to prevent run-off entering the watercourse.
- Provision of bunds, straw bales, silt fencing etc as required to prevent surface water run off entering the adjacent watercourse.
- Provision of drain pipes and silt bags (in conjunction with the silt fencing) to control surface water run-off.
- Removal of redundant site drainage where it connects with the existing beck/sewers to be retained
- No works undertaken during inclement weather, notably due to the requirements of the earthworks specification.
- All stockpiles sealed and located away from watercourses.
- Silt protection fencing installed in accordance with the Construction Ecology Management Plan - note existing silt fencing is already in place to protect Hunsworth Beck
- Provision of temporary surface water storage lagoon if required prior to any discharge, which would only be undertaken in accordance with a secured discharge consent.
- Retention of topsoil where possible to mitigate earthworks surfaces whereby silt can be collected by excessive surface water run off.

Plans showing the location of existing drainage and the watercourse are presented in Appendix A to this report.

A plan showing treatment to existing outfalls and positions of temporary surface water management features are presented in Appendix B

Appendix A

Appendix B