Environmental Statement

Chapter 12: Road Drainage and the Water Environment

Appendix 12.3: Water Framework Directive Assessment

Sub Appendix C: Foxburrow Stream Geomorphology Assessment

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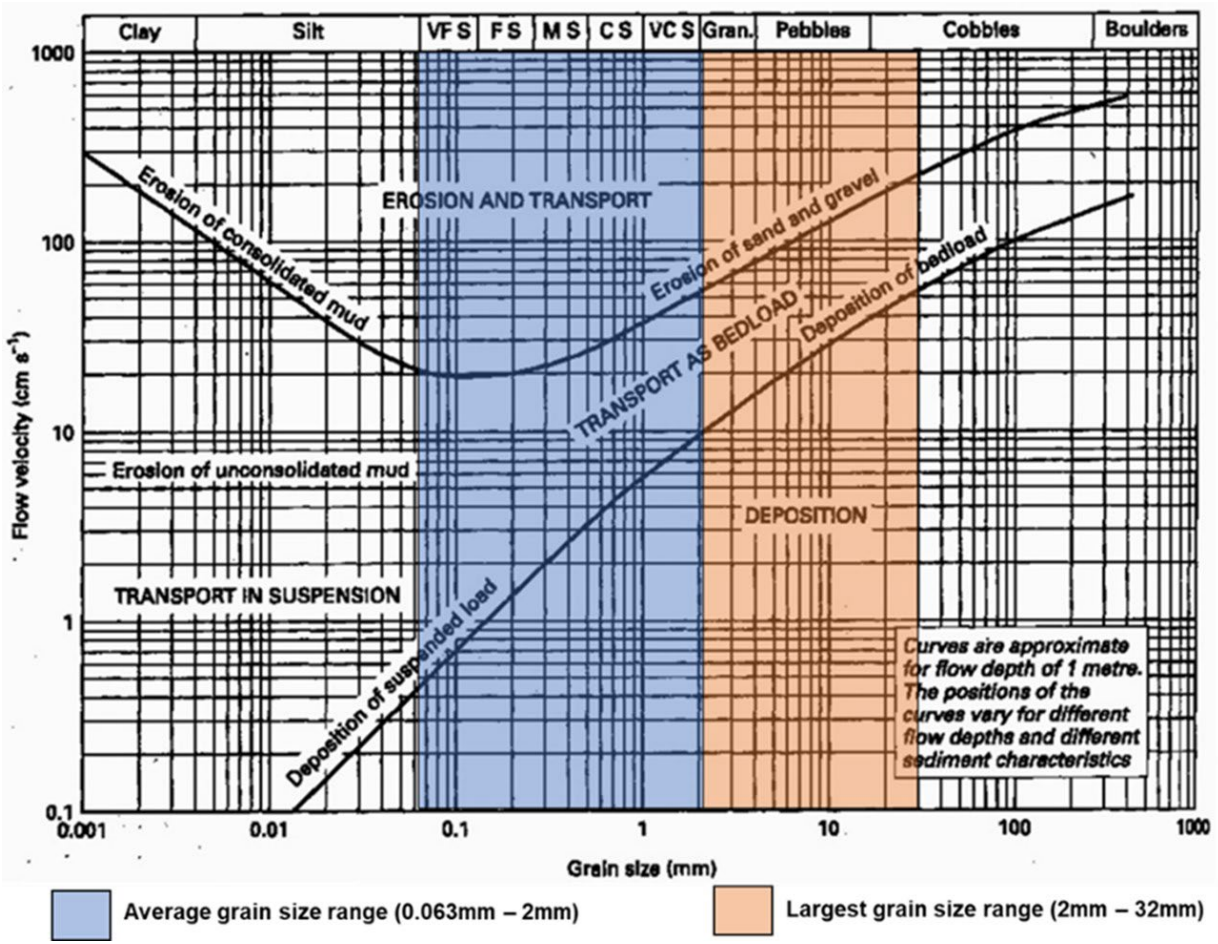
Introduction

1.1.1 We have included a summary of key information shown in this document in an accessible format. However, some users may not be able to access all technical details. If you require this document in a more accessible format please contact norwichwesternlink@norfolk.gov.uk

Foxburrow Stream Geomorphology Assessment

1.1.2 The potential for sediment transport within the Foxburrow Stream is inferred through the results of the sediment sampling data collected on-site, the velocity results generated from the hydraulic model, and the Hjulström curve plot (**Ref C.1**).

Figure C-1 Hjulström curve showing the average grain size (in blue) and the largest grain size class (in orange) of the Foxburrow Stream. Hjulström curve plot is adapted from Ref C.1



Stream Power

1.1.3 Stream power can define if, and how, a Proposed Scheme may be affected by geomorphic processes of erosion or deposition (and vice-versa). Given that geomorphic processes are modulated by hydraulic parameters (e.g., flow velocity and depth), any change in hydraulics is expected to impact geomorphology receptors.

Figure C-1 Relationship between stream power and channel adjustment. Adapted from Brookes (Ref C.4)