**Contemporary Urban Environment Review Notes**

**Booklet 11 Urban Drainage**

**What is River Restoration? How do large and small scale projects differ?**

**Case study - River restoration and conservation– Cheonggycheon River Project:**

**Reasons for the project**

**What did they do?**

**Who was involved, what did they do and what were their attitudes to the project?**

**How successful has it been (include economic sustainability, traffic, environment and inclusive design)**

**Photos and images**

**What are the hard and soft engineering strategies used in urban areas? What are the costs and benefits of using them?**

**What are SuDS? What do they aim to achieve?**

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| --- | --- |
| **Techniques** | **Benefits** |
|  |  |

**Mini case study – Lamb Drove SuDS:**

**What were the aims of the project, what techniques have they used and how successful has it been?**

**How do urban areas become polluted from urban runoff?**

**What impact might this pollution have?**

**Why is urban drainage an issue?**

**Why does it rain more in urban areas?**

**How does urbanisation affect rates of infiltration, run off and evapotranspiration? (Quote average figures)**

**What are storm hydrographs? What do they show and why are they useful in managing urban drainage?**

**Draw a sketch to include the main features including precipitation, peak discharge, lag time, base flow and rising and descending limbs.**

**Define each of the terms above.**

**Why are storm hydrographs in urban areas described as ‘flashy’?**