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## **Project – Bristol Water AMP4**

**Location – Bristol**

**Client – Bristol Water PLC**

### **Project Description**

Costain Limited is employed by Bristol Water PLC to undertake the Capital Works Programme for the AMP4 period. Under this framework Costain are undertaking the construction, testing and commissioning of the Northern Relief Main. The works include the construction of a 13km pipeline and associated provision of access roads, drainage and pipe work connecting the pipeline to the supply network.

### **Introduction**

To construct the Northern Relief Main 13km of 5.5m ductile iron pipe work was required. The delivery of this material to site involved vast amount of packaging, in the form of pallets and chocks, to ensure the stability of materials during transit. The packaging was necessary to avoid damage of materials leading to unnecessary waste. However, this posed the question what to do with the packaging?

### **The Problem**

Traditionally on sites, these chocks and pallets are considered as waste and sent for disposal either to transfer stations or in some cases to landfill. The project identified the materials as unnecessary waste and wanted to find an alternative to waste disposal to eliminate the impact on the environment and save costs associated with waste disposal.

### **The Solution**

The project team engaged with the pipe supplier to ascertain a solution beneficial to both parties. A take-back scheme was implemented where, upon delivery the packaging was segregated and stored separately from other project waste streams. Periodically these were returned to the supplier on an empty delivery truck returning to the supplier's depot. The supplier then re-used the pallets and chocks for future deliveries.

### **Benefits**

The take-back scheme had benefits for both the project and the supplier. For Costain the benefits included diverting waste from landfill and reducing the project costs associated with waste disposal. The supplier benefited through the re-use of materials rather than purchasing virgin materials.

The overall environmental benefits included:

- Diverting waste from landfill
- Conservation of resources, energy and CO2 emissions
- Reduction in transport



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### **Key Learning's**

- Working with the supplier to identify alternative working practices that are beneficial to all parties and the environment
- Increased awareness of the principles of the waste management hierarchy i.e. elimination of waste stream, re-use of materials.

### **Contact Details**

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