

# **OXFORDSHIRE COUNTY COUNCIL**

## **Requirements for Fill Material in Highways for Adoption**

### **General requirements**

- All material testing is to be undertaken by a UKAS accredited laboratory
- CBR testing will be required to the existing ground at formation level where adoptable highway will be built over it
- If CBR results are less than 2.5%, a design for ground stabilisation or formation reinforcement will be required to be submitted to and approved by OCC Engineer
- All fill material shall be classified and comply with the general requirements of the Specification for Highway Works (SHW) Series 600 Earthworks

### **Prior to laying**

- All proposed fill material shall be classified in accordance with the SHW Series 600 clause 601 Table 6/1
- The following tests are required: -
  - Particle Size Distribution/ Grading
  - Maximum Dry Density/ Optimum Moisture Content Relationship
  - Plasticity Index/ Atterberg Limits
  - Specific gravity/ Particle Density
  - Moisture Condition Value Calibration

### **During laying**

- Testing on laid material shall be carried out at 30m intervals on each layer of fill, which should not exceed the permitted depths in table 6/4 SHW
- Compaction shall be carried out to achieve a minimum Nuclear Density Meter reading of 93%
- Physical moistures will be taken from each test location and oven dried to confirm gauge results
- Written and photographic records, clearly showing exact location of fill placement, shall be kept and submitted to OCC for approval prior to placement of capping/ sub base layers
- CBR tests shall be taken at formation level above fill material and shall achieve 5% or greater or ground stabilisation will be required
- CBR tests shall be carried out on top of capping layer and shall achieve not less than 15%
- CBR testing shall be carried out on top of type 1 and shall achieve not less than 30%
- Other testing may be required such as directed by OCC Engineer / Site Inspector
- If approval for fill material is sought after the issue of technical approval, the County Council may seek to recover its reasonable costs for officer time for reviewing information for that approval