

## **TESTING REQUIREMENTS**

### **PRESSURE TESTING:**

- **WATERMAIN** (Potable)  
1600 kPa. to be held for 30 minutes. **RESPONSIBILITY SA Water**
- **WATERMAIN** (Non potable)  
1200 kPa to be held for 30 minutes **RESPONSIBILITY SA Water**
- **SEWER PUMPING MAIN PRESSURE TEST.**  
Double maximum pump output held for 30 minutes (or as specified by superintendent's representative) **RESPONSIBILITY SA Water**
- **SEWER GRAVITY MAIN AIRTEST**  
50 kPa to be maintained for 3 mins then shut off the air and the pressure is not to fall below 35 kPa after 15 mins **RESPONSIBILITY Consulting Engineer**

### **COMPACTION TESTING:**

By NATA accredited Laboratory

To be to Consultant Engineer's or the relevant Road Authorities specification if higher.  
**Minimum density requirements shown.**

- **WATER MAIN** (Potable and non potable) **REQUIRED = 100% SMDD**  
**REFER SECTION B IN BLUE BOOK**  
All testing to be carried out **in sand only** for water main and connections.  
One test per 50m zone. Service connection tests required = 20% (**one per group of five service connections**), to be carried out in road pavement up to 300mm behind kerb line or road shoulder to road pavement compaction requirements.
- **SEWER PRESSURE MAIN** **REQUIRED = 100% SMDD**  
Same as water main.
- **SEWER** **REQUIRED = 95% SMDD**  
**REFER SECTION G IN RED BOOK**  
One test per one metre layer of fill (or part there of) for each 50m zone and between structures if less than 50m.  
One test per one metre layer of fill at each chamber.  
Connection tests required = 20% (**one per group of five connections**). To be carried out in road pavement up to 300mm behind kerb line or road shoulder to road pavement compaction requirements.

### **SEWER BACKFILL IN EXISTING ROADWAYS**

- a) PM2/20 = 100% SMDD or
- b) TS4 sand = 100% SMDD

**NOTE:** When using TS4 sand, one of the following is required: -  
either a 300mm core of compacted fill over screenings or  
geotextile membrane between screenings and sand.

**ALL TEST RESULTS TO RELEVANT FIELD OPERATIONS OFFICER A MINIMUM OF 10 WORKING DAYS PRIOR TO LAYING OF BITUMEN.**