

Basic Standards

The following standards represent the minimum standards that are acceptable to Irish Water to consider the takeover of a scheme as and from 1st January 2014. Schemes will only be taken over when fit for purpose and free from significant defects that would impact on customer service, water quality or asset longevity.

1. THRESHOLD LEVELS

1.1 Quality

- a. Scouring facility at all low points and terminal points of mains.
- b. Air Valves at high points such that full network can be drained down/recharged.
- c. Sluice valves at maximum spacing of 800 metres.
- d. Leakage target $<0.4 \text{ m}^3/\text{km}/\text{hr}$.
- e. Where practicable at reasonable cost, dead ends shall be eliminated.

1.2 Service

- a. It shall be possible to determine bulk usage /leakage levels either through provision of bulk meter on scheme or step testing.
- b. Individual customers should have separate connections.
- c. Pressure at highest connection point $>15\text{m}$.
- d. Pipe diameter: - network shall be configured such that pipelines serving any element of same shall comply with following minimum pipe sizes:
 - 1-10 properties not $<50\text{mm}$ Nominal Bore;
 - 10-40 Properties not $<80\text{mm}$ Nominal Bore;
 - 40-100+ Properties not $< 100\text{mm}$ Nominal Bore.

A scheme can include a combination of pipe sizes listed above.

Upgrading will be mandatory where excessive upstream pressures are required to maintain levels of service as this will impact on leakage and wastage levels.

1.3 Assets

- a. Minimum Cover to pipelines not less than 600mm in grasslands.
- b. Minimum Cover to pipelines not less than 750mm in verges or on surfaced roads.
- c. All valves and fittings have suitable marker posts.
- d. All valves and fittings are operable.

Any deviation from the above standards will require approval of Irish Water and shall only be considered on receipt of technical report justifying same.

2. AS-CONSTRUCTED DRAWINGS

2.1 Information Required:

Drawings shall be supplied for the water supply system.

The plans submitted should indicate the following:

- a. GWS Name, North point, Ordnance Grid reference for the centre of the GWS.
- b. Line and layouts of water mains (including diameter and material of watermain), hydrants, sluice valves, scour valves, air valves, pressure reducing valves, booster stations, chlorine dosing, reservoirs, bulk meters.
- c. Locations of stop cock or meter box with reference number linked to Connections List.
- d. Where available locations of service pipes showing size of service pipe above 25mm
- e. Confidence rating to be included on watermain information (1= High 5= No Confidence).
- f. Location of connection to public supply.
- g. Wayleaves should be indicated on layout map and indexed to Wayleave Schedule.

2.2 Submission of Drawings

- a. Drawings should be prepared using an electronic system and submitted in standard Autocad (dwg) or Mapinfo file format. Drawings can be uploaded to Irish Water ECM system (link to be set up for LA contact), or;
- b. Hard copy drawings should be emailed to Irish Water GWS Nominated contact in pdf format.

Plan scales should be in common use, i.e., 1:200, 1:500, 1:250, 1:1000 or 1:2500 as appropriate. Site layout drawings for all Reservoirs, Pumping Stations and Chlorine Boosters to be to at least 1:500 scale, showing building details and extent of site ownership.