

WaPUG MEETING 11 - 13 NOVEMBER 1987

Points Raised at Workshop on Modelling Ancillaries

The workshop was attended by 25 delegates, although more expressed an interest but were prevented from attending by the limit on numbers. This reflects the importance of this topic in WASSP modelling.

Several delegates brought specific problems to discuss, but many wanted a general discussion on how ancillaries should be modelled. There was insufficient time for the discussion to cover the full range of ancillaries in the detail required, even after an overrun of 20 minutes.

The following conclusions were reached:-

General

1. More information is required on modelling ancillaries.
2. Such information should be orientated towards new users, so that everyone does not have to climb the same learning curve.
3. The WASSP User Manual provides some useful information, but the structure of the manual makes it difficult to find, and an index is not provided.
4. Help is also required for the more experienced user who is having difficulty modelling more complex ancillaries.
5. The present method of checking ancillary and other data in WASSP-SIM is long winded, dealing with errors on a one by one basis. An updated version of WASSP-CHK which could identify all potential problems in an SSD file prior to a WASSP-SIM run would be helpful.

Specific

1. The on-line tank model has limited use in modelling storm sewage overflows. It is not particularly suitable for modelling leaping weir and low side weir overflows for example. For certain types, e.g. high side weir, stilling pond, and hole in manhole, it does work well.
2. The pumping station model does not allow for the effects of varying levels in the sewer to which the rising main discharges.
3. Difficulties are experinced in modelling off-line tanks, particularly with short circuiting of the return flow.
4. It is not possible to model an on-line tank with a closed top and no overflow.
5. Lack of free surface backwater computations can lead to errors in calculating the storage volume in tank sewers.

There were comments that the workshop sessions could have been extended to allow delegates to attend more than one.

D.J.Balmforth 13/11/87