



## Case Study: Water and sewerage mapping

### Scope

Investigation of water and sewerage services before expansion of holiday park;

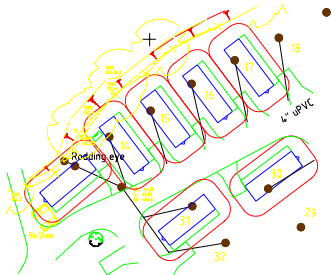
- Identification of water mains, services and sewers
- Identification of location of valves and meters
- Determination of operation of the system and the means to optimise
- Identification of system weaknesses

### The existing situation

The holiday park had been acquired by the Haufryn Group and very few records of the water and sewerage systems existed. The new owners were planning to re-develop the site and needed to know the capacity of the system to support the proposed development. In particular, the sufficiency of the mains water supply and water storage, the structural condition of the existing reservoir and the condition of the sewage treatment plant and ancillary pumping equipment.

### The scheme

A full survey was undertaken of the whole site, including pipes, pumps, valves, reservoir and sewage treatment plant. From these surveys remedial works for the reservoir, treatment plant, sewers and sewage pumping stations were identified. To provide for the future additional storm water storage was also planned and installed at the sewage pumping stations to reduce the risk of sewage flooding.



### Project outcomes

- separate CAD drawing records of water and sewerage system
- enhanced knowledge of operation of the system, simplifying operation, maintenance and repair activity and speeding response to emergencies
- improved planning for park re-development, including long-term planning for future asset replacement
- improved security of system operation, particularly the sewage treatment plant

*...clear thinking*