

Southport Hospital Leak Repair Report

8th November 2012

We attended site on 25th October to repair a leak that had been located underneath a fire hydrant on the Southport Hospital site.

We began to excavate the area the area of leakage that had been marked during earlier leak detection. During the period of excavation, it came to our attention that the branch valve was faulty and as a result, we were no longer able to continue with the excavation work that day.

We liaised with Southport Hospital and it was agreed that a return visit would have to be made in the evening of 1st November to complete the excavation when we were able to isolate the supply.



Picture 1 – The area of leakage in the fire hydrant pit



Picture 2 – The Fire Hydrant

The excavation was successful and we returned to site on 4th November. It had been planned with the Hospital that during this visit, all water supplies would be turned off (including fill tanks) to enable us to carry out the full installation of the new hydrant.

During the installation, extra excavation work was required to enable us to re-position the new fire hydrant and still leave the redundant fire hydrant in place. This was checked with the hospital and they were happy for us to leave the dormant fire hydrant in place. The leak which is clearly indicated on a branch feed to the underground hydrant (see picture 1) was repaired. During this repair procedure, it was brought to our attention that the pipe work is not covered by any form of pipe protection. The pipe material is 6" ductile iron; the branch feed is 3" and is feeding the fire hydrant.



Picture 3 – The area of excavation on our evening visit



The installation work was completed fully on the 4th November 2012 and the reinstatement was completed on the 5th November 2012.

The water leak loss was 8,800 gallons per day which is equivalent to 3,212,000 gallons per year at a cost of £ 40,000 per year.