

	Work Instruction	W0026
		Version 2
		1 of 1

Work instruction:	Date Raised
Find and Fix (water mains)	10.11.14

Work Description
Tracing, locating and repairing leaks on water supply pipes
Instruction
<ol style="list-style-type: none"> 1. Refer to W0001 & W0002 2. Complete the same process as in W0010 Water Mains Investigation and confirm that there is a leak present. 3. If the leak is visible, trace this out and excavate in this area in order to expose the leaking water supply pipe. Ensure that WI0034 is adhered to and follow the guidance contained within HSG47 to ensure that all care is taken to avoid danger from buried services. Be mindful of the fact that on sloping properties the water may not be emerging where the leak is located. 4. Once the leaking section of water supply pipe is exposed, repair the section of leaking pipe following W0035 Open Cut Pipework Replacement (Water Mains). 5. Retest the system following the repair. Regardless of whether any further leaks are found or not, contact the office to advise on the steps taken and whether any further leaks have been encountered. 6. If the leak is not visible, use your listening stick to listen on the ESV and the ISV. You should be able to determine at which end the leak is loudest. If this is on the ESV then excavate and cut and cap/squeeze off the supply at the boundary, if this is on the ISV then excavate and cut and cap/squeeze off the supply external to the Point of Entry. 7. If the leak is off the property boundary to the highway, contact the office immediately as this is the responsibility of the Local Water Authority and not the responsibility of our customer. 8. If the leak is beneath the property and past the point of entry, contact the office immediately as a new POE/re-route may be discussed in order to prevent an internal dig. 9. If the leak is at neither of these positions then it will be between the external wall of the property and the property boundary. The supply from this position will have to be traced either away from the property boundary or towards the property boundary dependent upon the start point. Follow WI – 016 for guidance on how to trace the supply. 10. The supply is to be exposed every 5m and the pipework cut and capped/squeezed off to determine where the leak is located. 11. Once the leak is directly exposed or isolated to one 5m length of pipe, contact the office for authorisation on a repair or to install 5m of new 25mm Blue MDPE pipework via impact moling to bypass the leak. If this approach is adopted please refer to W0029 Impact Moling 12. As per Step 5, contact the office once the system has been retested following the repair/re-route. 13. Once repairs are complete refer to WI0031 Backfill Compaction and Surface Reinstatement.
Responsibilities
Water Mains repair Engineers
Key Objectives
To repair damaged leaking water mains and restore water supply back to the homeowner.