

	Work Instruction	W0035
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Work instruction:	Date Raised
Open Cut Pipework Replacement (Water Mains)	14/09/2017

Work Description
Process to replace a section of water supply pipe
Instruction
<p>Refer to W0002.</p> <ol style="list-style-type: none"> 1. Identify the location where the pipework has to be cut. 2. If you for any reason believe that the ground in the area where you are working is contaminated with, hydrocarbons please contact the office immediately as it may be necessary to use Barrier Pipe. 3. Prior to cutting the pipe complete one last check with the CAT Scanner in power mode (in rare cases, Black Alkathene pipe can look like an electrical cable and vice versa), isolate the service at the ESV 4. Again prior to cutting the pipe, check the pipework diameter to ensure that you have the correct fittings to connect to this style of pipe. If you don't have the correct fittings, contact the office immediately. 5. If the ground is still saturated after the ESV has been isolated for some time, it may be necessary to excavate a sump. If it is safe to do so and if required, dig past the depth of the service that you are working on and create a deeper section of the excavation approximately 400mm x 400mm that the water will naturally drain. Use your 2" pump to overpump this residual water to a dry area where the water will not flow back into your excavation. This should give you enough space to work without the threat of dirty water entering the exposed pipe. 6. For Copper, Plastic, and Lead Water supply pipes, you will most likely be able to cut the pipework with pipe shears or pipe slices. 7. For galvanised iron or steel pipes, you will need to use a disk cutter. 8. Universal Plasson or Philmac Fittings only are to be used to reconnect existing sections of below ground supply pipe. 9. Prior to reconnection, the exposed ends of the water supply pipe are to be chlorine treated through spraying to prevent the risk of contamination in accordance with WRAS guidelines. 10. As the External Stop Valve has been isolated and the system depressurised. It will be necessary to bleed off any water that has entered the supply pipe during the works, as this will prevent any debris or sediment affecting the internal services following works. Open the nearest cold feed to the ISV prior to recharging the system and leave the ISV open. Bear in mind that the closest cold feed on the internal plumbing may be a garden tap. 11. Re-pressurise the system and allow any water from the service to flow clear through the open cold feed prior to isolating this. Now that the system is re-pressurised test, go and check your external fittings in your excavation to ensure that these are watertight. 12. Once it has been confirmed that there are no further leaks on the service, follow W031 Backfill, compaction and reinstatement following the works.
Responsibilities
Water Mains Investigations
Key Objectives
To replace a section of below ground water supply pipe of any length and to re-pressurise this in such a way that limits risk to the customer's service.