



Technical Inspection of Mains Rehabilitation

Operations Activity on Distribution System

Location: **Haddington 23 July 2021**

Repair to split on UPVC - not under pressure

Quality of Water

Is work being undertaken in a way that avoids a deterioration in water quality?
Are approved products and processes being used?
Is this evidenced by clear sample results / chlorine residuals / visual appearance?

n/a - only van inspected as job had finished

Asset Robustness

Is work being undertaken by SW employees or Contractor?
Any issues / risks with work site? Have these been mitigated adequately?
Does the main have adequate points to enable flushing and disinfection to take place?
Is the depth of excavation appropriate?
Is adequate de-watering equipment available and used?
Is all equipment appropriate to the task?
Are staffing levels adequate? (**check training and blue cards**)
Is the method of repair appropriate to the situation?
Are hygiene standards in van acceptable? (tidy / storage of fuel / clothing / handwashing / fittings bagged / pipe off floor)
Are equipment and fittings being stored correctly on site?
Is there an off-site storage area? Is it appropriately located? Any risks? Tidy? Fittings & chemicals stored correctly?
Van was tidy and well designed for hygienic storage. All fittings bagged and stored on shelving. Equipment stowed tidily. No obvious fuel carried. Handwashing facilities excellent - water in dispenser and scrubbing brush.
Blue card for Keith Roberts 13/3/22 was in date. Fraser Eddington's was later discovered to have expired in June 2020 - although re-assessment was delayed by the pandemic, opportunities to update this were not identified by the individual or the company.

Operational Practices

Effort being made to keep tools and equipment clean?
Chlorous spray available, made up correctly (1000mg/l or 250mg/l) and used?
Is suitable (calibrated) equipment available and used to measure chlorine?
Is main repaired under pressure? (should aim for this if at all possible)
Is the depth of excavation appropriate?
Is adequate de-watering equipment available and used?
Is all equipment appropriate to the task?
Effort made to keep dirty water out of pipe?
End caps (or other protection) used on pipe ends
Has appropriate disinfection taken place? (Check Cl and time being measured and recorded, flushed appropriately)
Has flushing taken place to remove any air?
Are burst repair samples taken as appropriate? (DOMS)
Is sampling undertaken appropriately? (correct bottles, locations, training)
Chlorous spray made up freshly every day - correctly labelled and instachlor 1000 tablets available.

Management of Risk

Has a risk assessment been done and is it available on site?
Is it clear who may operate valves and which valves are to be operated?
Are staff aware of risks to water quality and their role in managing these? (DOMS & Hygiene, valve operation, Flushing)
Is the choice of method appropriate to the risks involved?
Are measures taken to protect consumers (eg from drinking from depressurised main or high chlorine concentrations)
Are boil notices used and issued appropriately?
Who reviews sample data from mains repairs?
Risk assessment / IAF reviewed on handheld device - appeared thoroughly completed and fully available to squad. Valves to be operated clearly marked on site

Recording Information

Are DOMS procedures available to site staff?
What work detail/customer information is available to squad/NSO in work pack?
Are on-site water quality checks (Cl, T&O, pH) being recorded and stored appropriately?

	Are disinfection residuals and times recorded?
	Is sample paperwork in order? (ensure sample locations are clearly documented)
	If Carella used, has it been authorised by Scottish Water and are appropriate measurements being made?
	Is information on mains material recorded and checked against GIS?
	n/a
General Comments	
	This appeared to be a very diligent squad, with everything kept safely and hygienically. Although it was not possible to witness much of the job itself, I had every confidence that it was being undertaken to a high standard.