

CAN CAUSE WATER MAIN BREAKS

THE CITY OF CALGARY | WATER SERVICES



Changes in water pressure within the pipes





Breakdown of pipe due to age, wear and tear.

Vibration from

heavy traffic,

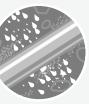
construction

or ground

shifting



Changes in ambient water temperature



Corrosion from soil type and ground conditions

HELPS REPAIR WHO WATER MAIN BREAKS?

Foreman

Responsible for crew and site safety, organizing the job and directing the crew to complete the repair.

Intermediate/Senior Operator

Responsible for assessing the break and executing the repair—from the bottom of the excavation, in any weather.

Backhoe Operator

Responsible for excavating with precision around all utilities.

Labourer

Responsible for assisting the intermediate/senior operator repair and acting as their eyes and ears at the ground level.

Tandem driver/labourer

Responsible for removal of wet excavated soil and replacement with dry backfill soil and gravel, as well as assisting with many worksite tasks.

Planner

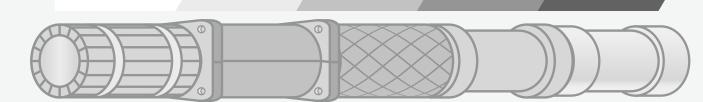
Creates repair plan, including organizing emergency locates and assists with traffic setup.

TYPES OF PIPE USED IN WATER MAINS

Wooden pipes Pre-1910 (no longer in service)

Cast Iron 1910 – 1968 **AC Pipe** 1955 – 1978 **Ductile Iron** 1963 – 2010

PVC 1976 – Now





THE STEPS OF A WATER MAIN REPAIR



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