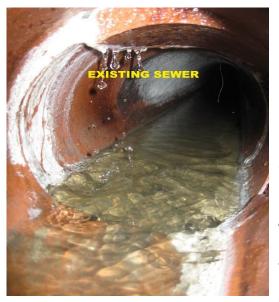


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Why is Smoke Testing Necessary?

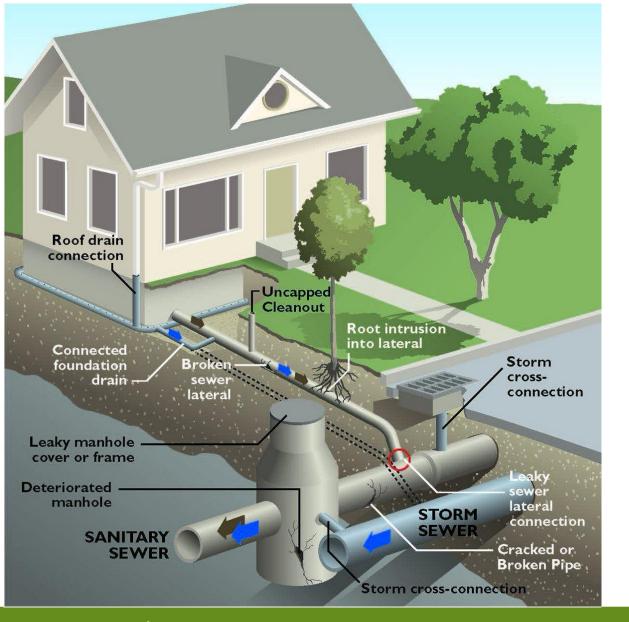
The sewer system was designed to collect waste WATER from homes and businesses, not rain water or ground water.

When rain or ground water enters the sewer system through wrong connections, cracked pipes, it takes up needed capacity in the sewer system, especially during heavy rain events.

To prevent this unwanted infiltration and inflow into the sewer system, we develop the equipment to find where are these problems.

By using smoke testing Equipment and taking the correct actions we'll be able to remove millions of liters per day of extraneous flow that represents high values for an annual cost savings







Smoke testing is an economical and fast method for identifying the location of structural damage and undocumentation /connections.

The equipment needs a big capacity to test specific zones and do the work in a fast way







The FASTSMOKER, an electrical equipment is built with strong ventilator of blow capacity over 600m3/min of smoke, power suplier for full working 3Kva.

- Is easy to be moved from one point to another;
- New Hight pressure smoke production boiler;
- New position of the hot point;
- Remote control;







The FASTSMOKER have an INNOVATIVE building points:

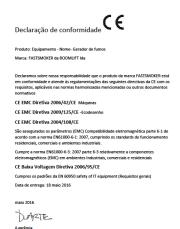
- Big capacity motor on the vent system;
- Regulation of velocity;
- New chassi;
- Cover of the tank location;



The FASTSMOKER have an INNOVATIVE building points:

- Removal tank;
- New smoke liquid distilled water and liquid glycerin;
- CE certification EMC 2006/42; 2008/125















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What is exactly a Smoke Test?

A two/tree man crew place a Smoke Machine over manholes and smoke is blow through the piping sewer system. Anywhere the smoke exits, there is potential for rain water to enter the sewer pipe system.

The smoke is non-toxic, harmless and has no odor.

If the line has defects, the smoke will find the break and try to escape trough the break.

If we have one drain trap, that creates a type seal and blocks gases from rising up through the drain into the home that also keep the smoke from entering



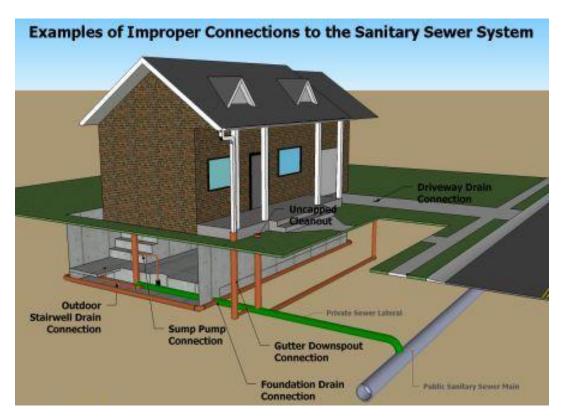




What exactly is the cost of Smoke Test and the recommended equipment?







Normally each test consists of two sections line 250 meters long of pipe with 300mm diameter, require 5 to 6 minutes of smoke to walk the test area.

The smoke Machine need to have capacity of 566 m3/min.

Other items required include line plugs etc.

A crew can easily test 3000meters of sewer line in 8h/work









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