

SMARTCOVER



FINDING FROGS IN HAWTHORNE, CA REDUCED SPILLS BY 99%

THE CHALLENGE

Hawthorne, CA -- home of SpaceX and the Beach Boys -- operates a small gravity-only system southwest of the Los Angeles airport. The sewer system includes 94 miles of gravity pipeline, no lift stations, no treatment and just two full-time collection staff.

Prior to 2006, Hawthorne was experiencing about 10 sewer overflows per year in their sanitary sewer collection system. After covering fines, clean-up, mitigation and legal costs, the City estimates these spills cost them \$400,000 annually.

THE SOLUTION

The City of Hawthorne contacted SmartCover to position 50 real time remote level monitoring sensors covering 66 of the "hot spots" in their collection system.

Through data analysis, SmartCover provides wastewater managers real time early warnings of overflow events through advisories, alerts and alarms to web-enabled devices. The system detects an accumulation of FROG (fat, roots, oil and grease) when the water flow pattern shows distinct changes and then issues notifications to the response team.

THE RESULTS

Since installing their system, the City of Hawthorne has experienced a 99% reduction in sewer spills with only one overflow at a location that was unmonitored.

Using its two-man crew, and SmartCover technology, the City of Hawthorne has virtually eliminated sewer overflows in its collection system, saving more than an estimated \$2 million in fines and litigation costs since 2006.

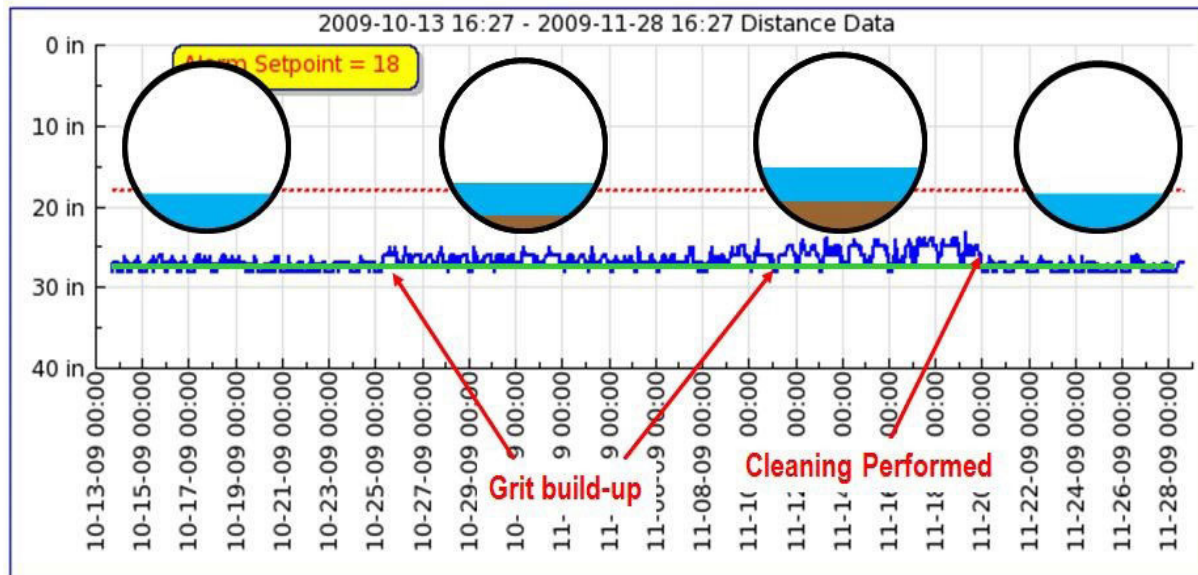
The City of Hawthorne was experiencing about 10 sewer spills per year, which have been virtually eliminated after deploying SmartCover.



REDUCTION IN OVERFLOWS ENABLES DRAMATIC COST SAVINGS

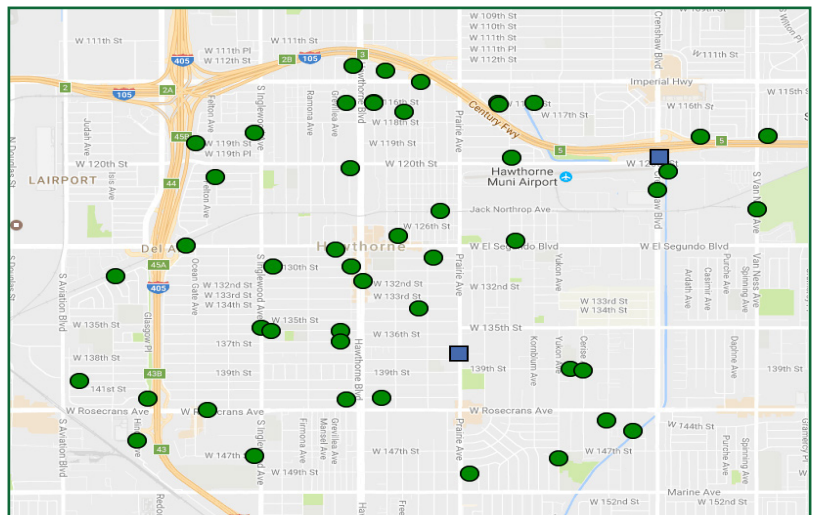
HAWTHORNE INSTALLED 50 SMARTCOVER UNITS IN THEIR COLLECTION SYSTEM - ABOUT 2.5% OF ALL MANHOLES - AND VIRTUALLY ELIMINATED ALL OVERFLOWS.

A 99% reduction in sewer overflows is saving millions of dollars.



SUMMARY:

Hawthorne uses SmartCover to detect FROG build-up in pipes and then cleans "as needed" before serious problems occur. This prescriptive approach is eliminating spills while saving significant time and money. Thus far, the City has been able to achieve over \$2 million in savings on fines, clean up, and legal costs - all without having to increase resources or staff and, at the same time, avoiding huge capital improvement expenses.



SMARTCOVER

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