



# Performance Focus

Bulletin #0210121



## Combined Sanitary Sewer Overflows (SSO) Performance Focus: Fats, Oil and Grease (FOG) Reduction

*In-Pipe Technology® Company, Inc., drastically accelerates the natural degradation of fats, oil and grease (FOG) in the collection system, thereby removing blockages and occlusions from the pipe and significantly reducing the occurrence of FOG-related sewer overflows, as well as the requisite equipment and manpower required for the physical removal of these blockages.*

### Summary at a Glance

**Project Location:** Sarasota, FL

**Plant Type:** Bardenpho

**Project Installed:** August, 2006

**Plant Size:** 7.50 MGD

**Performance Summary:**

**90% Reduction in FOG-related SSO Events**

Below are stills from an video sewer survey done by the City demonstrating the reduction in FOG over time. Please visit our website to view the complete video.



Initial Conditions 05/22/2009

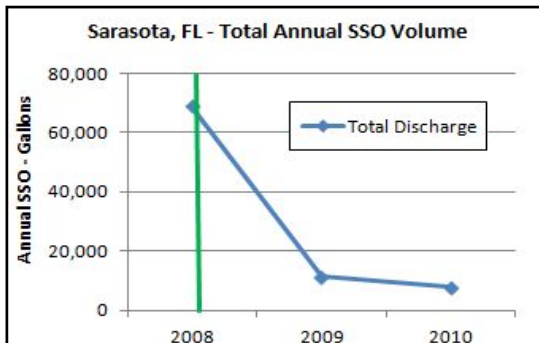


After 8 Months of In-Pipe Treatment 01/22/2010



After 15 months of In-Pipe Treatment 08/22/2010

Since In-Pipe started treating the City of Sarasota's collection system, the City has recorded a 90% reduction in FOG-related SSO events. In-Pipe records the condition of the lift stations that are covered by treatment and routinely assesses performance to insure adequate treatment of the entire system.



## Summary at a Glance

**Project Location:** Crown Point, IN

**Plant Type:** Activated Sludge—Extended Aeration

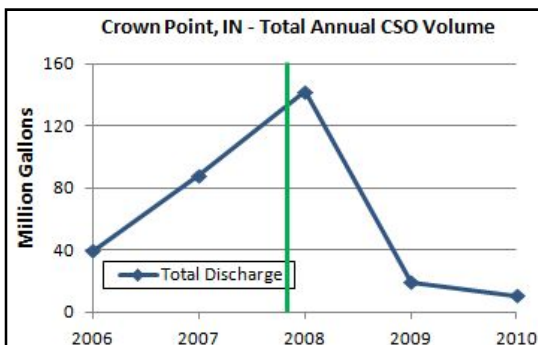
**Project Installed:** August, 2007

**Plant Size:** 5.2 MGD

**Performance Summary:**

**88% Reduction in Total Annual CSO Volume**

At the City of Crown Point, which manages a combined sewer system, IPT reduced total annual CSO volume by 88% compared to the year prior to IPT. See Figures below, the green line represents the approximate start date of the In-Pipe program.



In-Pipe clients also report reduced frequency of required collection system cleanings/vacuuming at problematic

locations following IPTC treatment. Federal and state regulators have renewed their focus on minimizing CSO and SSO events through stricter reporting requirements and heavier fines. Implemented as a part of a municipality's SWPP (Source Water Protection Program) In-Pipe service will aid in protecting the public health, the environment and the utility's budget.



Crown Point, IN Lift Station Prior to IPT Treatment



Crown Point, IN Lift Station With IPT Treatment

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## Service Offering

*In-Pipe provides engineered wastewater treatment services to municipalities and industries worldwide. In-Pipe engineers a solution for each customer based on a full system review and includes turnkey installation, service and maintenance.*

### Proven Improvements

- Reduce Influent Loading
  - TSS 30%
  - BOD 30%
  - Total Nitrogen 50%
- Reduce Sludge Disposal 50%
- Reduce Energy Consumption 30% to 60% (kWh)
- Control H<sub>2</sub>S Odor & Corrosion
- Control Fats, Oils, & Grease (FOG)
- Increase Plant Capacity

### Unmatched Expertise

- Process Engineering
- Wastewater Treatment Plant Design Optimization
- Microbiology Laboratory
- Project Management
- Control Systems (SCADA) Programming and Remote Monitoring
- Microbial Production

**Please contact us for additional information including full project profiles, references, or technical information.**