



## FIELD NOTE

Loci Controls automatically optimizes gas collection, adjusting to changing weather conditions in order to reduce fugitive emissions

### Customer Problem:

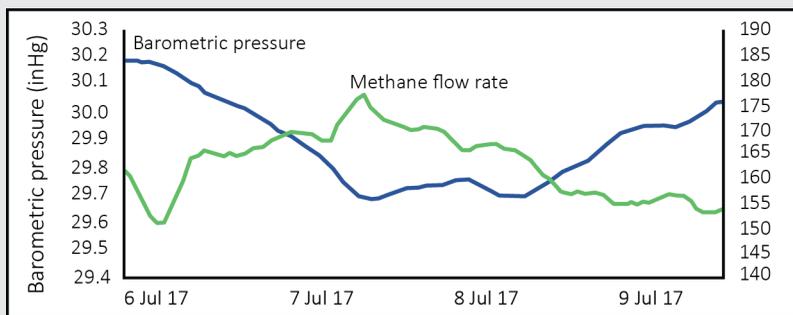
During low-pressure weather events that stimulate LFG activity, a landfill in the northeastern United States would routinely experience elevated levels of fugitive surface emissions during storms and other inclement weather.

### Loci Solution:

Loci's automated landfill gas-collection solution used Controllers, WellWatcher® analytics, and control algorithms to automatically tune the wellfield 24/7. By deploying Loci's automated gas collection products and services, the landfill was able to capitalize on periods of declining barometric pressure by increasing flow through incremental valve adjustments. The goal was to capture a higher volume of available methane gas (particularly in off-hours when staff was unavailable at the site), rather than experience elevated surface emissions.

### Results

Loci was able to collect an additional 10% of methane during the peak of the low-pressure events, driving additional revenue to the power plant and preventing fugitive emissions. Making regular valve adjustments 24/7, particularly in inclement weather, overnight, and on weekends, resulted in increased collection of landfill gas, particularly in off-hours when staff was unavailable at the site.



Peak low pressure corresponds with peak gas collection with Loci's automated gas-collection system

All Loci-optimized installations are supported by both LFG analysts, who remotely review data and alerts, and on-the-ground field technicians, who perform routine calibration, maintenance, and customer support.

### WHY LOCI?

With financial, operational, and environmental benefits, Loci Controls' product / service suite helps streamline and optimize facility management and gas collection for power-plant operators and landfill owners alike.



#### INCREASE REVENUE

- Maximize methane gas flow
- Optimize gas composition
- Automate real-time wellhead adjustment and data collection
- Boost plant uptime



#### DECREASE COSTS

- Lower labor costs for wellfield tuning and O&M
- Reduce equipment maintenance costs



#### REDUCE RISKS

- Reduce fugitive LFG emissions
- Prevent significant maintenance issues



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