



FIELD NOTE

LOCI INCREASES SALES GAS AT MID-CONTINENT LANDFILL GAS TO HIGH BTU PROJECT BY 30% ON AVERAGE OVER AN 18 MONTH PERIOD



Customer Problem

A landfill gas to high BTU project operator has a project that has historically generated an average of 1,550 scfm of landfill gas flow from 129 collection wells, with approximately 55% methane. To meet pipeline specifications, nitrogen in the wellfield had to be limited to less than 2%. Historically, maintaining the gas quality has been challenging, and manual well tuning could not optimize the overall collection system due to the constantly changing environment. Because of this, gas quality often fell short of the pipeline specification, resulting in gas flaring with no revenue generation during these periods.

Loci Solution

The LFG to high BTU project operator engaged Loci to provide automated landfill gas collection at this project. In August 2017, Loci installed 50 Controllers, which represented approximately 65% of the overall gas flow. In mid-2018, based on improved revenue and project uptime, the Loci automated gas collection system was expanded to 100 wells, representing over 90% of the gas collection. Fifty (50) Loci Guardian product were installed in August 2018. The Guardian product was launched by Loci in 2018 to cost effectively automate collection wells that have less than 15 scfm flow. Since August 2018, Loci automated gas collection is operating on over 90% of the overall gas collection.

All Loci automated gas collection operations are supported by both Loci LFG collection analysts who remotely review data and alerts, as well as on-the-ground support from Loci's field service representatives, who perform routine maintenance and provide on-site customer support.

WHY LOCI CONTROLS?

With financial, operational, environmental, health, and safety benefits, Loci Controls' products and services help optimize facility management and gas collection for operators and landfill owners alike.



INCREASE REVENUE

- Maximize methane flow
- Control N₂ in the wellfield
- Automated valve adjustments
- Better collection system efficiency
- Reduce plant downtime



INCREASE PRODUCTIVITY

- For both plant and employees
- Lower labor costs for wellfield tuning and O&M
- Reduce plant maintenance costs



REDUCE ENVIRONMENT HEALTH & SAFETY RISKS

- Reduce man hours spent in wellfield
- Reduce fugitive gas emissions
- Reduce odors



Results

Loci Automated Gas Collection has resulted in a year over year increase in gas delivered to the pipeline and associated revenue by over 30% relative to the prior year when manual well-field tuning was used. Also, during these 18 months, there has been a dramatic reduction in downtime due to landfill gas not meeting specifications. The net return to the LFG project operator as a percent of Loci's service fee over this 18 month period exceeded 5x.

