



2008 LMOP PROJECT EXPO

MAGNOLIA LANDFILL

SUMMERDALE, ALABAMA



LANDFILL OVERVIEW

Open Year: 1997

Waste in Place: 431,400 tons

Annual Acceptance: 133,300 tons (2007)

**Landfill Area: 36 acres
(96 acres permitted)**

Waste Depth: 10 feet

Number of Wells Installed: 7

Flare in Place: No (Planned for Spring 2008)

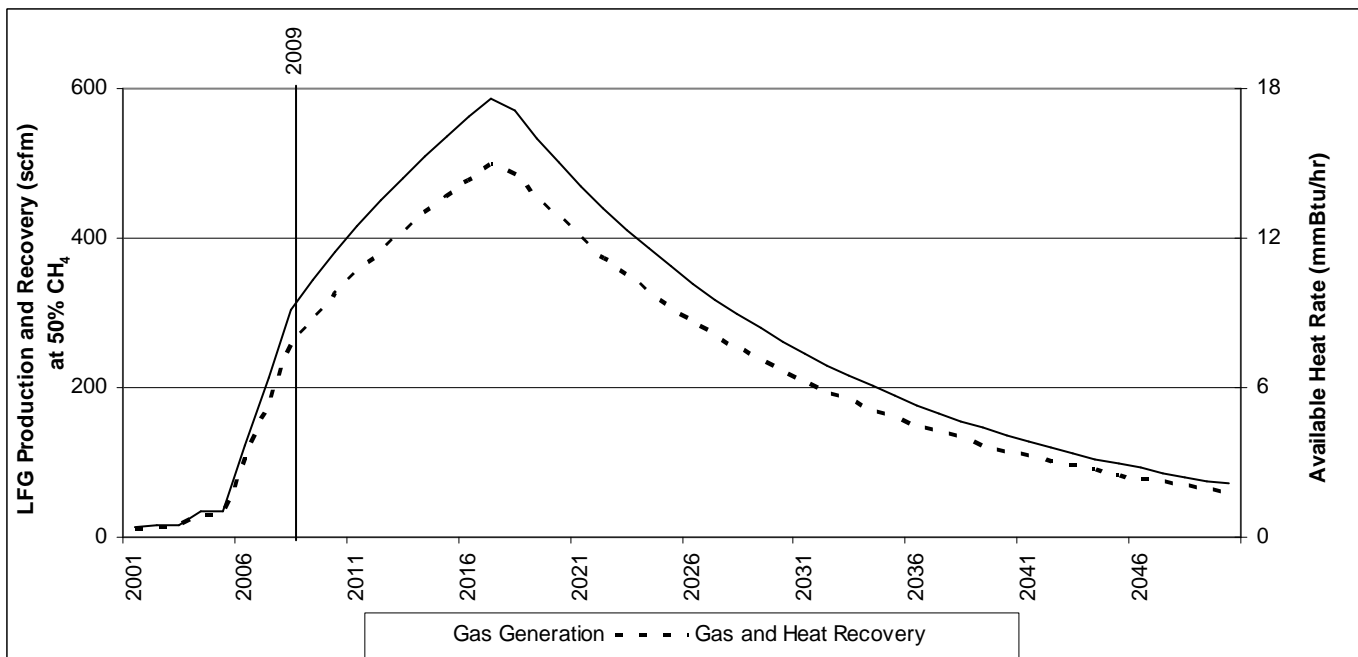
Methane Content of Gas: Estimated 50%

ENVIRONMENTAL BENEFITS

Magnolia Landfill reports that it is currently required to collect and combust landfill gas under the Landfill NSPS/EG. Collection and control of the landfill gas would provide an estimated extraction rate of 292 scfm in 2009. Utilizing the gas to generate electricity would result in the avoidance of 4,900 metric tons of CO₂e emissions due to displaced electricity generation from conventional fossil fuel sources. These emission reductions are equivalent to any one of the following annual environmental benefits for 2009:

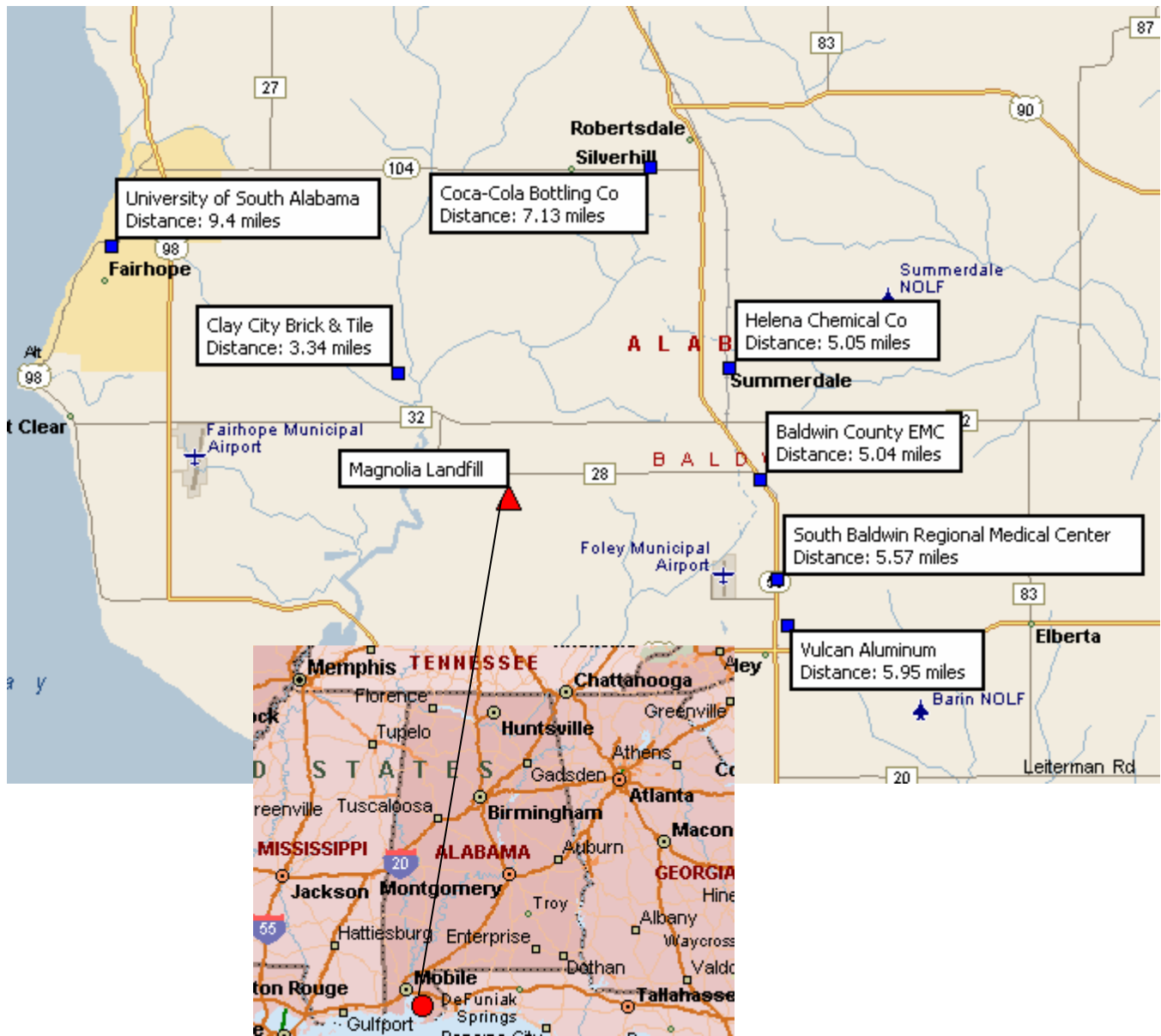
- Annual greenhouse gas emissions from 900 passenger vehicles
- Carbon sequestered annually by 1,100 acres of pine or fir forests
- CO₂ emissions from burning 25 railcars' worth of coal
- CO₂ emissions from 11,400 barrels of oil consumed

LANDFILL GAS AND ENERGY POTENTIAL



- LandGEM 2009 LFG Recovery: 292 scfm
- LandGEM Peak Recovery Estimation: 499 scfm (in 2017)

LANDFILL LOCATION AND POTENTIAL END USERS



ADDITIONAL INFORMATION

Currently, Alabama Department of Economic and Community Affairs (ADECA) administers the Biomass Energy Interest Subsidy Program which offers up to \$75,000 in interest subsidy payments on loans to install qualified biomass projects. Technical assistance and feasibility studies may also be provided through the program.

The landfill's gas collection and control system is currently under construction and will begin operating in the Spring 2008. In addition, the landfill expects to significantly increase its waste acceptance rate in the near future.

FOR MORE INFORMATION

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