

2002 LMOP Project Expo



Salinas Valley SWA Johnson Canyon Landfill Gonzales, California

January 6, 2003

6th Annual LMOP Conference & Project Expo

Washington, DC

Who is the Salinas Valley Solid Waste Authority?



- Joint Powers Agreement between Salinas Valley cities & Monterey County
- Responsible for the management of existing landfills in the region
 - Lewis Road – North County
 - Crazy Horse – North of Salinas
 - Johnson Canyon – Gonzales
 - Jolon Road – King City



Landfill Sites & Jurisdiction



Landfill Overview



- Owner – Salinas Valley Solid Waste Authority
- Physical Location – Gonzales, CA
- Open Year – 1976
- Closure Year – Expected in 2043
- Waste in Place – 430,000 tons
- Design Capacity – 3,000,000 tons
- Annual Acceptance – 60,000 tons per year
- Landfill Area – 80 acres
- Landfill Depth – Between 30 to 40 feet

Landfill Location Map



Landfill Gas Generation

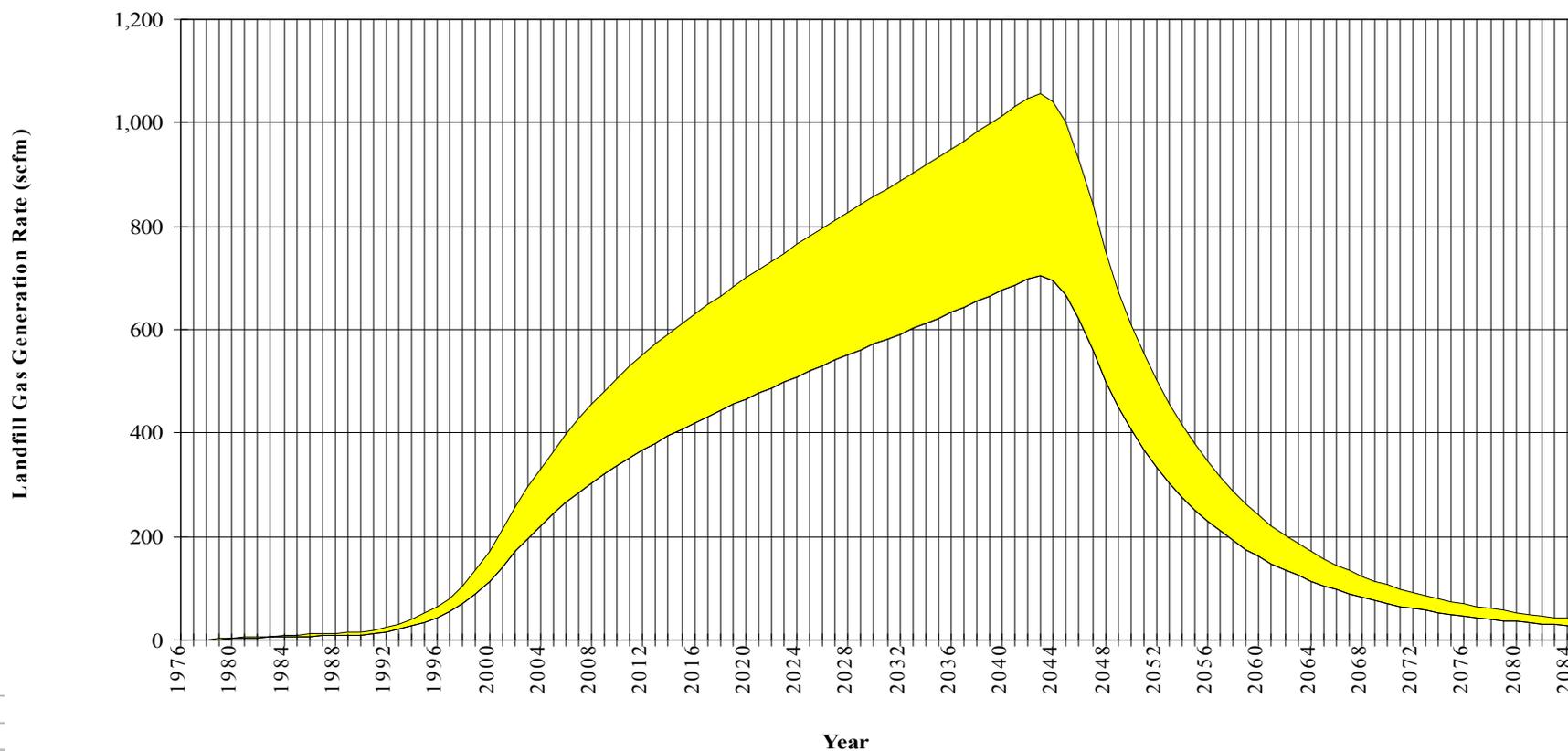


- Wells in Place – 30
- Flare – Enclosed Flare
- LFG Flow – Approximately 250 scfm
- Methane Content – Between 40-45%
- EMCON Estimation – 1,000+ scfm (2040)
- NSPS Status – EG due to NMOC emissions
- Section 29 Credits – N/A

EMCON Model Curve



Johnson Canyon Landfill 0202 - Current Conditions
Landfill Gas Generation Rate



EMCON Model Estimate

Analysis Completed



- Subject to Emission Guidelines
- EMCON Model
- Incorporates rate of waste intake, the component characteristics of the waste stream, the gas generation potential of the individual waste stream components, moisture, temperature and associated climactic factors of the disposal area.
- A national average MSW characterization (Franklin Associates, 1994) has been incorporated into the model:

■ Food Waste		9%
■ Garden Waste		19%
■ Paper Waste		33%
■ Other Organics		7%
■ Inorganics	32%	
■ TOTAL		100%

Potential End Users



- A Request for Proposals (RFP) is currently being drafted for LFG utilization.
- Currently, Pacific Gas & Electric (PG&E) is supplying electricity to the facility.
- The Town of Gonzales is the closest town to the landfill.
- The Soledad State Prison is also a potential end user (5 miles).

Crazy Horse Landfill



- Existing Covanta electricity recovery project
- 900 scfm of LFG not utilized by Covanta
- An additional 500 scfm expected with current system expansion



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