

Title: Developing a Guidance Manual for reducing greenhouse gas emission, odors, and non-methane hydrocarbons from landfills.

Principle Investigators: Tarek Abichou FAMU-FSU College of Engineering
Jeff Chanton, Florida State University

Update:

- Project contract was finalized only in December 2007. A TAG Group was selected and a website was established for the project.
- A one year no-cost extension was requested because of the delay of the start of the contract and to extended out of the country assignment of Dr. Abichou
- The TAG group met via a conference call in July 2008

Based on the literature review, the following are the activities that the guidance manual will address:

Design-Related BMPs for LFG Collection Components

Use of Horizontal Collectors
Use of Surface Collectors
Tighter Spacing of Vertical LFG Wells
Mixed Horizontal/Vertical Well Systems
Connection of LCRS Layer to LFG Collection System
Deep Multi-Depth Vertical Wells
Maximize Borehole and Well Diameters
Enhanced Seals on LFG Wells/Boreholes
Dewatering of Gas Wells

Enhanced Monitoring, Modeling, and Testing BMPs

Enhanced Surface Emissions Monitoring----
Improved Modeling and Testing for LFG Design
Designing for Closure and Post Closure

Landfill Cover Systems

Designing Covers for LFG Collection---
Biocovers
Biofilters

Project Website: <http://www.eng.fsu.edu/~abichou/guidance>