

LIBERTY COMPOSTING INC.

Lost Hills Bio-Solids Mono-Composting Facility

projectFOCUS

ePTFE Micropore Cover Pilot Testing

During 2011 and 2012, Liberty Composting, Inc. (LCI) tested Managed Organic Recycling's (MOR) ePTFE micropore covers for compliance with San Joaquin Valley Air Pollution Control District's (SJVAPCD) Rule 4565 for biosolids composting. This rule states that composters must achieve a minimum of 80 percent capture of volatile organic compounds (VOCs). In addition, LCI's permit mandated that the VOC capture rate at Lost Hills Biosolids Mono-composting facility 90 percent of the VOCs since they were not in compliance when the rule was promulgated in 2007

Lost Hills Mono-Composting Phase 1 Project

Armed with the knowledge that the MOR GEN1 micropore covers could achieve the SJVAPCD's Rule 4565 (90 percent capture of VOC emissions), LCI contracted with MOR for the supply of Covered Aerated Static Pile equipment (ePTFE covers, blowers & aeration management controls) for the Lost Hill Biosolids Mono-composting Facility. Construction completed in September 2012, consists of thirteen (13) 26 ft. wide x 80 ft. long (footprint) x 10.5 ft high active composting phase piles, precisely matching the tests completed for the Source Testing (SJVAPCD's permit to operate). Since the start up in 2012, LCI processed over 240,000 gate tons (2012 and 2013) of anaerobically digested biosolids and some food (poultry) waste. In 2014 LCI continued to process LA anaerobically digested biosolids (140,000 gate tons) and pass its first two year-annual Source Test achieving 95 percent reduction of VOCs.

LCI plans to build additional large capacity piles as incoming feedstock warrants. This expansion will include MOR's Aeration Management System (AMS) which will allow control of aeration rates with variable speed drives and ReoTemp® radio frequency temperature probes. The ASM will provide for complete data logging and status reporting through human machine interface (HMI) computer network so operators can make adjustment in the aeration rates directly at the pile, in the compost facility control room or even remotely at the LCI's main office at Lost Hills.



TECH SPECS PHASE 1 PROJECT

- Thirteen (13) 30ft x 90ft MOR ePTFE micropore covers
- Thirteen (13) 7.5Hp variable speed blowers
- Twenty-eight radio-frequency temperature probes
- Aeration Management System (AMS) with human machine interface (HMI) features and data logging
- CPM 30 (2013)



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