

US EPA ARCHIVE DOCUMENT

**Terminal end  
of HYEX  
conduit with  
liquid and gas  
lateral lines  
and optional  
CCTV  
insertion  
lateral.**



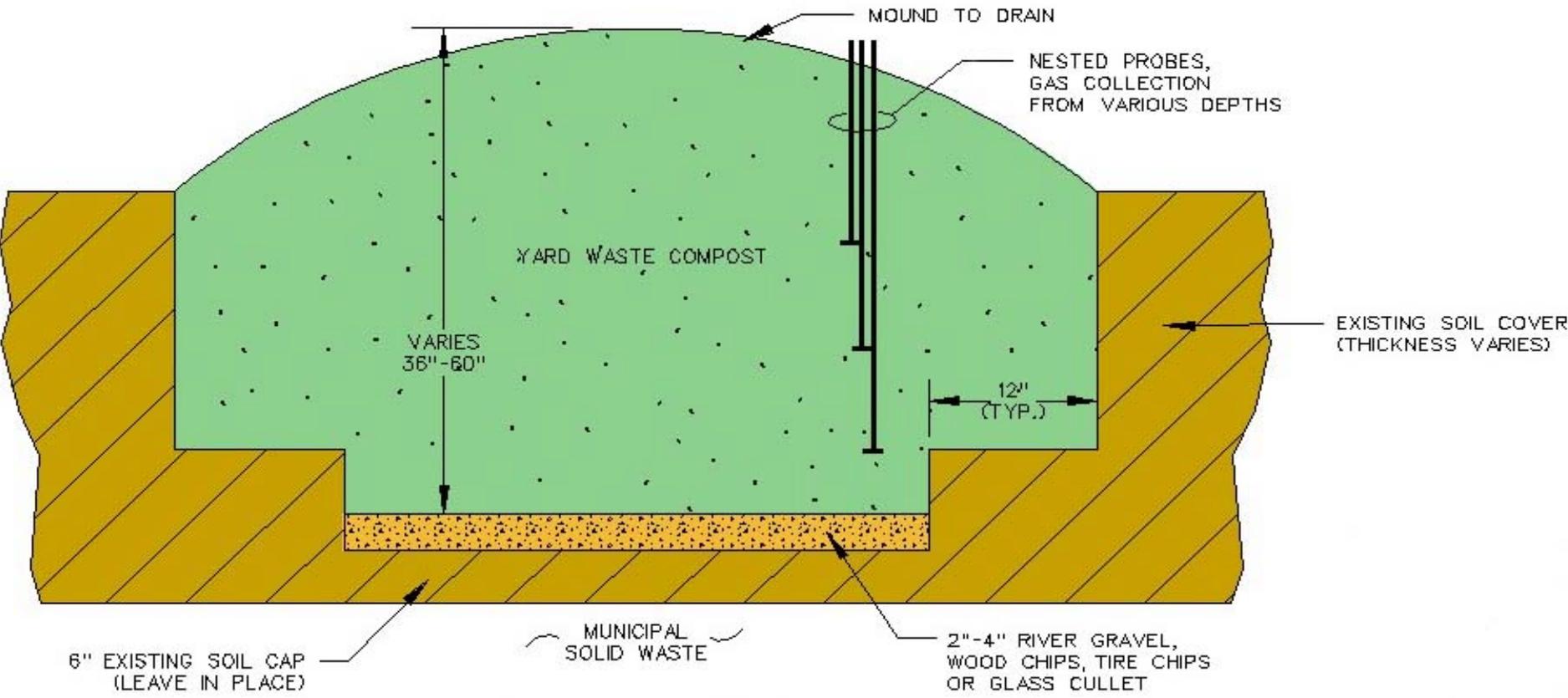


# SYSTEM MODIFICATIONS

- Model gas generation with higher  $k$  value
- Increase header pipe sizes accordingly
  - More flow
  - More settlement
- Larger well pipe diameter for pumping
- High temperature materials for wells - CPVC, Fiberglas

# OTHER TECHNIQUES

- **Emissions control via biocovers**
  - **Compost cover material**
  - **Oxidizes methane as gas passes through**
  - **Aerobic reaction**
  - **EREF Funded research ongoing at Outer Loop Landfill**



**BIOLOGICAL PERMEABLE COVER  
CROSS SECTION**

N.T.S.

# MACT RULE APPLICABILITY

- **NSPS sites with >50Mg NMOC**
- **Major Source or co-located with major source**
- **Additional requirements for bioreactors, defined as taking liquids besides leachate and achieving moisture content of 40%**

# MACT RULE REQUIREMENTS

## ➤ New Sources (after 11/7/2000)

- Install gas collection system prior to liquid addition.
- Start collecting gas within 180 days of liquid addition OR
- Within 180 days of reaching 40% moisture content.

# MACT RULE (CONT.)

## ➤ Existing Sources

- If already adding liquids, install gas collection system within 3 years of 1/16/2003.
- If not, install gas system before adding liquids.
- Start collecting gas within 180 days of liquid addition or achieving moisture content of 40%

# MACT Rule (cont.)

- **Prepare and maintain a SSM plan**
- **Comply with other NSPS requirements**
- **Extend gas collection into new cell or area of bioreactor before initiating liquids injection.**