

LANDFILL GAS SAMPLING PLAN

Procedures

Prior to sampling the landfill gas the following procedures should be followed:

- Record the following information:
 - Date and time of sampling event
 - Date and amount of precipitation of most recent event
 - Weather conditions - temperature, wind speed & variability, humidity, etc.
 - Hourly barometric pressure for 12 hours before & during sampling event ground cover and soil conditions.
- Gas screening monitors shall be calibrated.

During landfill gas sampling the following procedures should be followed:

- Gas samples to be analyzed in the field using:
 - PID Meter - Monitor landfill gas for Volatile Organic Compounds (VOCs) in parts per million (ppm).
 - LandTec Gem 200Plus Meter – Monitor landfill gas for percent methane {and Lower Explosive Limit (LEL)}, percent carbon dioxide, percent oxygen and hydrogen sulfide in parts per million (ppm). Note: LEL is determined by multiplying % methane reading by 20. Triggers for MassDEP are 10% LEL in underground sewers, conduits, storm drains etc. and 25% LEL in SP-MW.
- Sample collected gas for initial screening value - less than 5 seconds.
- Sample collected gas for final screening value - until gas meter reading stabilizes, 30 seconds or greater.
- Repeat field screening for using each type of meter and record values for VOCs in ppm, percent carbon dioxide, percent oxygen and hydrogen sulfide in ppm.