

GAS MIGRATION INVESTIGATION
SUMTER COUNTY LANDFILL
C 103

The purpose of measuring gas generated on the Sumter County Landfill site is to determine if landfill gas is moving laterally and possibly causing a threat of explosion by gas buildup in nearby structures or migration to off site locations

Porous soils on site do not indicate the probability of gas buildup or lateral movement off site. It is anticipated that all gas generated will be liberated by vertical movement through porous soil particles.

A grid system was developed and is represented on the attached aerial of the Sumter County Landfill indicating twenty four (24) gas investigation locations. This approach was used to obtain sufficient areal information over the active portion of the landfill, inactive portions of the landfill, and adjacent undisturbed areas.

The following locations of gas probe vents are represented on the above mentioned aerial. Please refer to the aerial for location of each numbered reading.

D E R
MAR 09 1988
COJUVESI DISTRICT
TAMPA

FIELD TEST FOR GAS GENERATION
SUMTER COUNTY LANDFILL
C 103

February 2 1988

MMP 0 - 1988

Test holes were prepared several days in advance of LEL readings being observed. Each hole was excavated to a depth of two (2) feet with annulus area of six (6) inches. Holes were left open to the ambient for maximum gas liberation benefit. Mr Dale Pariett utilized a gas detection device manufactured by Control Power System Model 780 to determine the presence of landfill gas. The gas meter probe was inserted into each hole and readings observed. The following is a report of Mr Pariett's findings.

LOCATION OF GAS PROBE VENTS

GAS DETECTION READINGS

GI 1	None Detected
GI 2	None Detected
GI 3	None Detected
GI 4	None Detected
GI 5	None Detected
GI 6	None Detected
GI 7	None Detected
GI 8	None Detected
GI 9	None Detected
GI 10	Active Area of Landfill
GI 11	None Detected
GI 12	None Detected
GI 13	None Detected
GI 14	None Detected
GI 15	None Detected
GI 16	None Detected
GI 17	None Detected
GI 18	None Detected
GI 19	None Detected
GI 20	None Detected
GI 21	None Detected
GI 22	None Detected
GI 23	None Detected
GI 24	None Detected

Based on negative readings observed it can be assumed that the landfill gas being generated by decomposing materials is being liberated vertically through porous soils and not migrating laterally to off landfill site locations.