

RESPONSE 74

7.0 METHANE MONITORING

7.1 Monitoring Frequency and Methods

Methane monitoring during landfill operations will be performed quarterly using portable equipment, which can be used to detect methane concentrations. The methane monitoring will continue on a quarterly schedule for the operating life of the landfill and the post-closure care period, unless directed otherwise by the Executive ~~Director~~ Director of the TCEQ. During this period, the facility will monitor more frequently those locations where monitoring results indicate that LFG migration is occurring or is accumulating in structures.

In accordance 30 TAC §330.371(e), the methane gas monitoring and control program shall continue for a period of 30 years after certification of final closure of the facility. Authorization to reduce gas monitoring and control shall be based on a demonstration by the owner or operator that there is no potential for gas migration beyond the property boundary or into on-site structures. Demonstration of this proposal shall be supported by data collected and additional studies as required.

7.2 Sampling

The type of gas monitoring equipment utilized at the facility will vary over the operational life and post-closure periods; therefore, manufacturers' specifications are not included with this plan.

A hand-held Landtec GA-90 Infra-Red Gas Analyzer, a Landtec Gem 2000, or a similar instrument, which is capable of measuring methane gas concentrations in an oxygen deficient environment, may be used to measure methane gas concentrations at the site. The calibration of the methane monitoring equipment will be verified using standard calibration gas.

Methane monitoring will be performed at each probe and the methane concentration will then be recorded on the typical form shown in Appendix III-6B.

Methane readings will also be performed in enclosed structures. As with the methane probe readings, the methane concentrations will be recorded on the typical form shown in Appendix III-6B.

In accordance 30 TAC §330.371(i), sampling of specified trace gas will be performed if required by the Executive Director.

7.3 Reporting

Routine quarterly gas monitoring data will be maintained in the SOR during the lifetime of the landfill and post-closure care period of the facility, and will be made available to the TCEQ upon request. Record retention will consist of either electronic storage of data in proprietary software and/or in electronic or hardcopy form in the SOR. The TCEQ will be notified in the event that methane gas