

CASE STUDY

PIT TOILETS & SANITATION

Diepsloot day care centres — pit toilet sanitation

Diepsloot, Gauteng



RESULT

By the third week, accumulated solid waste had been digested into grey water and carbon dioxide, leaving a residue that is easier and cheaper to pump out, and safe for irrigating plants. The system is closed, so nothing drains into the surrounding soil.

OVERVIEW

A sponsored project at five day care centres in Diepsloot, applying Baczyme Sewage Powder weekly to pit toilets to digest accumulated solid waste.

THE CHALLENGE

Dense solid waste in the pit toilets made conventional pumping difficult and costly. This project tested whether weekly biological dosing could digest the waste into an easier, cheaper-to-pump residue.

TREATMENT

Baczyme Sewage Powder

Baczyme Sewage Powder was applied weekly over a two-week treatment period at the five sites' pit toilets.

Duration: Two-week programme

OBJECTIVES

- Digest accumulated solid pit-toilet waste
- Produce a residue safe for irrigating plants
- Reduce pumping cost and difficulty

SITE CONDITIONS

- Five day care centres in Diepsloot were involved.
- The system is closed — nothing drains into surrounding soil.
- No laboratory verification is available for this project; evidence is photographic.

RESULTS IN DETAIL



Before

Full pit toilets with dense solid waste.



By week three



Solid waste digested to grey water and carbon dioxide, leaving a residue safe for irrigation.

VERIFICATION

This project has no laboratory verification. Evidence is photographic. It should be presented as a demonstration project, not a measured result — no percentages, no lab references.

WHY THIS MATTERS

This is a strong social/demonstration story precisely because it is community-facing — the photographs should carry it rather than quantified claims. No identifiable faces of children should be used without written parental consent.

DISCLAIMER

No laboratory results are available for this project. Present as a demonstration project only, without percentages or lab claims. Centres are identified by area only, not by name.

Managing a similar sanitation challenge?

Book a site assessment to discuss the system and appropriate treatment approach.

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