

Remediation of Brownfield Land – soil contaminated by industrial processes, heavy lead concentrations

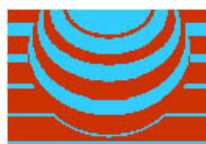


Environmental & Earth Sciences Pty Ltd was requested by an industrial client to review available investigation data prior to the subdivision and sale of a site. The objective was to demonstrate that the land was free of contamination and suitable for industrial uses.

Given that lead based paints were formerly manufactured on site, carefully focussed investigations were undertaken. This work delineated soils heavily contaminated with lead at concentrations of up to ten per cent. Based upon these findings a remediation action plan was designed and implemented. Analytical results were used to divide the soils in the backfilled areas of the site into three classes:

- clean soil that could remain on site;
- contaminated soil classified as solid/industrial waste to be removed to landfill; and
- contaminated soil classified as hazardous waste to be stabilised before removal to landfill.

The proprietary stabilisation technique resulted in a cost saving to the client of over \$AUD300/tonne. All remediation works were successfully completed within the timeframe to enable subdivision of the site. Site works were undertaken while the site was still operational.



Soil is the Foundation of Life

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- ✓ Removal of significant OH&S issues associated with lead contamination.
- ✓ Soil separation into three classes to minimise both disposal and treatment costs.
- ✓ Innovative EPA approved proprietary soil stabilisation technique.
- ✓ Significant cost savings.
- ✓ Site validated suitable for intended use.