

SOLID AND HAZARDOUS WASTE LANDFILL

Projects where there has been a major involvement in and overall responsibility for all aspects of project planning, management and reporting.

- 2000 – 02 Lithgow Solid Waste Depot.** Hydrogeological assessment and leachate generation modelling using HELP. Installation and sampling of additional monitoring wells, assessment of natural attenuation of leachate plume – for Lithgow Council
- 1998 - 99 Review of EIS for Long-Term Rehabilitation of Lucas Heights Landfill, Sydney.** Technical review of a major Development Application, EIS and Environmental Management Plan dealing with groundwater, surface water and landfill gas issues – for the Waste Service of NSW and Sutherland Shire Council.
- 1997 Hydrogeological Assessment of Proposed Landfill Site, Coonamble, NSW.** Review of local and regional hydrogeology, investigation drilling and test pitting on site, geotechnical testing to assess material suitability for liner and cover, piezometer construction and sampling – for Coonamble Shire Council.
- Hydrogeological and Landfill Gas Assessment of Existing Landfill, Dubbo, NSW.** Review of hydrogeological conditions, assessment of landfill gas migration through cover, installation and sampling of piezometers – for Dubbo City Council.
- Hydrogeological Assessment of Existing Landfill Site, Orange, NSW.** Review of hydrogeological conditions, installation, testing and sampling of piezometers, recommendations for addressing groundwater contamination – for Orange City Council.
- Review of Impact of Landfill on Adjacent Property, Junee, NSW.** Independent expert appointed by Supreme Court, NSW.
- 1996 Review of Impact of Unanderra Landfill on Adjacent Property, NSW.** Independent expert appointed by Supreme Court, NSW.
- Assessment of Landfill Gas Migration, Dubbo, NSW.** Assessment of landfill gas migration from completed and capped landfill into adjacent residential blocks – for Terra Sciences Pty Ltd.
- 1995 Hydrogeological Assessment of Proposed Landfill Site, Bourke, NSW.** Assessment of site hydrogeology including drilling and review of geophysics. Design of leachate collection system.
- Hydrogeological Assessment of Municipal Landfill Site, Bundanoon, NSW.** Appraisal of the risk of groundwater contamination affecting municipal water supply and other boreholes - for Yarrowlumla Shire Council.
- Hydrogeological Assessment of Municipal Landfill Site, Blaxland, NSW.** Hydrogeological assessment, design of leachate management system for extension area, design of remedial measures for existing landfill - for Thiess Environmental Services and Blue Mountains City Council.
- Groundwater Monitoring, Proposed Landfill, Bowral, NSW.** Hydrogeological assessment and installation of groundwater monitoring boreholes at a proposed non-putrescible landfill - for a confidential client.
- 1994 Homebush Bay / Newington Stage 2 Contamination Assessment, NSW.** The second stage of this major investigation of the Sydney Olympic site, involving finalisation of the Risk Assessment and Remediation Strategy. Providing project management services as a member of a multi-disciplinary consortium including CH₂MHill, ICF, GHD and Douglas Partners - for the Department of Defence and NSW Property Services Group.

- Lucas Heights Landfill, NSW.** Provision of hydrogeological advice concerning adequacy of leachate control and groundwater monitoring programs - for Sutherland Shire Council.
- 1993** **Assessment of Groundwater Inflow to Leachate Collection System, Homebush Bay, NSW.** Modelling of the inflow to a leachate collection drain to be constructed as part of the remediation of the former landfill sites at Homebush Bay - for Thiess Environmental Services.
- 1992** **Review of Hydrogeological Conditions, Lucas Heights, NSW.** A review of the groundwater aspects of the Environmental Impact Statement for the proposed extension and overtopping of the WRPS Lucas Heights Landfill Depot. The project extended to a full review of hydrogeological conditions in the area - for the NSW Department of Planning.
- Hydrogeological Assessment, Lucas Heights, NSW.** Following the above review, commissioned to carry out additional hydrogeological studies at the landfill site, including geological mapping, geophysics, hydrochemical sampling and analysis, and a review of landfill management technology. Carried out basic design of a landfill liner and leachate collection system - for the NSW Waste Recycling and Processing Service.
- Roughwood Park Quarry, Penrith, NSW.** Hydrogeological assessment of proposed use of shale quarry for waste disposal - for R.W. Corkery & Co.
- 1990 - 92** **Assessment of Former Landfill, Tempe, NSW.** Re-evaluation of an area classified as unhealthy building land, with respect to landfill gas and leachates - for Marrickville Council.
- Little Forest Contaminated Lands Investigation, West Menai, NSW.** Hazard assessment of adjacent municipal, industrial and radioactive waste disposal sites in relation to proposed development of housing on adjoining land. A major study involving assessment of wastes, leachate and landfill gas - for the Ministry of Housing, NSW.
- Homebush Bay Soil and Groundwater Contamination Investigation, Sydney, NSW.** Assessment of heavy metal, asbestos and organochlorine contamination, including dioxins, over a large area of landfill in Western Sydney. The largest investigation of its type so far commissioned in Australia, involving a review of landfill history, soil vapour and landfill gas surveying, and some 5000 soil and groundwater samples - for the Public Works Department, NSW.
- Mugga Lane Landfill, ACT.** Investigation of leachate migration from a municipal landfill - for Scott & Furphy Ltd.
- Clay Liner Assessment, Kurri-Kurri, N.S.W.** Study of the suitability of a clay liner for retaining alkaline-cyanide cathode waste in a landfill - for Alcan Australia Ltd.