



CONTAMINATED LAND - HAZARDOUS WASTE

OUR SERVICES

- Identification of Hazardous Activities and Industries List (HAIL) land uses
- Detailed Site Investigations (DSI) involving intrusive site investigations of air, soil, soil gas and/or water conditions
- Monitoring of air, (including for asbestos) groundwater and surface water
- Assessment of Environmental Effects (AEE)
- Preparation of remedial action plans and site management plans
- Design, construction and supervision of remedial works
- Preparation of resource consent applications under the NES-Soil Regulations, territorial and regional authorities
- Provision of expert evidence for hearings, District Court and the Environment Court
- Asbestos investigations, building surveys and inspections, management plans and risk assessments associated with asbestos containing material in buildings/soils
- Preliminary Site Investigation (PSI) to determine contamination sources from land use activities

ABOUT US

Our highly skilled Engineers and Scientists are 'suitably qualified and experienced practitioners' (SQEPs) who can provide you with technical advice that is at the forefront of legislation, guidance and the industry's best practice. Our team also includes a group of licensed asbestos assessors and trained surveyors.

PDP was one of the first to specialise in contaminated land, and as a result we are at the leading edge of practice in New Zealand. We will find cost effective solutions for your contaminated land issues.



CONTAMINATED LAND - HAZARDOUS WASTE

PROJECTS

PETROLEUM STORAGE FACILITIES

- Investigation (tank removal, drilling, etc.)
- Design and construction of remedial measures
- Design and implementation of air quality monitoring programme
- Consent acquisition and compliance

GASWORKS

- Investigation of BTEX, PAH, phenols, cyanide, spent uranium and metals in soil and water
- Design and costing of remedial options
- Pilot trial of bioremediation

ADVICE TO GOVERNMENT

- Technical advice on contaminated sites
- Advice on management of contaminated sites
- Policy and Guideline development

SITE DEVELOPMENT REMEDIAL WORKS

- Preparation of comprehensive site management / monitoring / remedial plan relating to extensive post-earthquake redevelopment works
- Detailed engineering design and construction management of HDPE liner and gas venting system

INDUSTRIAL SITES / CHEMICAL STORES

- Soil and groundwater sampling, human and ecological risk assessment for an industrial site
- Investigation of aldrin, dieldrin, HCB, and lindane in ground and groundwater, risk assessment and cleanup of contaminated soil and contaminated buildings
- Fate and Transport computer modelling of volatile organic compounds in groundwater and indoor air

ASBESTOS

- Undertaking asbestos identification and building assessments for management and pre-demolition purposes
- Identification and subsequent removal of the asbestos containing material, including issuing of clearance certificates
- Assessments and management plans regarding asbestos in soil/buildings

LANDFILLS

- Investigation of a wide range of organic and inorganic chemicals in air, soil and water
- Leachate studies, odour studies and engineering assessment
- Development of waste acceptance criteria

**ENGINEERING & ENVIRONMENTAL
CONSULTANTS**

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