



# HydroSolutions Pty Ltd

Hydrogeological & Environmental Consultants

## PROJECTS

### ENVIRONMENTAL AUDIT

Audit22

#### Redevelopment of former market gardening site for residential use, Private Developer, Wanneroo Road, Woodvale, WA.



A mandatory audit report (MAR) was required for this site as part of a WAPC planning approval for a residential redevelopment of a former market garden site. The audit covered the preliminary and detailed site investigation (PSI/DSI).

Locally sensitive environments included Walluburnup swamp, Lake Goolleal and downgradient groundwater users.

Soil samples found that the potential contaminants of concern (pesticides, metals, hydrocarbons, glyphosphate) and validation samples were all below laboratory detection limits or less than ecological and health investigation levels. Asbestos containing materials which were also potential contaminants of concern, were found on the site from imported fill material, but were subsequently removed.



Groundwater samples found that pesticides, nutrients, reactive hydrocarbons and some dissolved metals were below laboratory detection limits or at concentrations less than the WA drinking water guidelines (DWG), long term irrigation guidelines (IWG) and freshwater guidelines (FWG).

Cadmium, chromium and zinc concentrations in groundwater exceeded the FWG in one or more monitoring bores. The Consultant attributed this to naturally elevated metal concentrations in the subregion.



The sites were deemed suitable for residential development with groundwater suitable for irrigation purposes but not for domestic use of groundwater.

Lot 200 was classified as not contaminated - unrestricted use and lot 1 was classified as decontaminated by the DEC in November 2010.

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