HydroSolutions Pty Ltd

Hydrogeological & Environmental Consultants

PROJECTS

HYDROGEOLOGY

Hydro38

Private Syndicate, Bridgetown, Western Australia
Preliminary Site Investigation & Groundwater Validation

The proponent was required by the Department of Environmental Regulation to validate previous groundwater contamination detected during the historic remediation of a fuel depot on their site.

A Preliminary Site Investigation was undertaken, involving a desktop analysis and a gap analysis of previous environmental work. This was followed by a re-installation of legacy monitoring bores to ensure validation of previously contaminated groundwater at the site.

Published geology, aerial photographs, and historical land use data were reviewed along with previous consultants' reports to establish any potential areas of concern. Three new monitoring bores were installed on site and one previous bore was redeveloped for geochemical analysis of the groundwater, and determination of a groundwater table. Slug tests were performed on three bores to establish approximate hydrogeological parameters.

Results of the groundwater monitoring were compared with NEPM 2013 assessment criteria for contaminated sites, and indicated that only low-level residual hydrocarbon contamination remained on site.

However, a risk assessment concluded that no complete exposure pathways remained, and that there was no expected migration of contaminants due to their location, degree, and immobility due to the very low permeability on site.

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