

Gasworks Arts Park Environmental Audit



Report Summary

Draft Remediation Action Plan (RAP)

- Title:** Remediation Action Plan for the Former South Melbourne Gasworks, Albert Park, Victoria, Version 4, March 2014
- Prepared by:** Environmental Earth Sciences (Environmental Assessor)
- Objective:** To explore available technologies and provide a strategy that best utilises the available resources to remediate Gasworks Park and South Community Residential Home. The RAP documents the validation program for the remedial works. Must consider requirements under section 53v of the *Environment Protection Act 1970*.

Scope of works

- Present findings of site investigations.
- Develop a site conceptual model of contamination on the site including an assessment of soil and groundwater contamination sources, receptors of contamination and how they are exposed to contamination, and likelihood and consequences of exposure.
- Available remediation technology review and recommendation.
- Prepare a remediation works strategy and procedure.

Findings

- Isolation and capping is considered to be the most appropriate control measure to manage soil contamination due to the heterogeneity of historical capping and various gasworks waste across the site.
- Remediation technologies reviewed included:
 - Do nothing / institutional controls – soil contamination management plan in the short term.
 - Offsite treatment – excavation, transport, treatment via bioremediation and/or thermal treatment, disposal.
 - Onsite treatment –excavation, treatment, re-use/disposal.
 - Capping and isolation – capping of site.
- Groundwater risk posed by the current groundwater status is considered to be low and implementation of remediation (i.e. groundwater treatment) is considered to be impractical and not necessary.

Recommendations

- Site will need to be capped to restrict direct contact.
- Update the interim contamination management plans to provide current site status and framework for addressing the required management for the soil contamination of the site.

NOTE: Whilst the test results in this report will remain unchanged, the analysis and recommendations of all technical documents concerning Gasworks Arts Park are still subject to the review of the Independent EPA appointed Environmental Auditor. The Independent Auditor's 'Environmental Audit Report' is then subject to review by the Environmental Protection Authority (EPA).