



Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 09:57:51AM, 13/01/2016

Receipt No: DER46619

ID No: 43317

Search Results

This response relates to a search request received for:

34 Clementson St
Minyirr, WA, 6725

This parcel belongs to a site that contains 1 parcel(s).

According to Department of Environment Regulation records, this land has been reported as a known or suspected contaminated site.

Address	34 Clementson St Minyirr, WA, 6725
Lot on Plan Address	Lot 1639 On Plan 184761
Parcel Status	<p>Classification: 28/04/2015 - Contaminated - remediation required</p> <p>Nature and Extent of Contamination:</p> <p>Elevated concentrations of nutrients are present in groundwater beneath the site and extending off-site to the south-east.</p> <p>Restrictions on Use:</p> <p>The land use of the site is restricted to commercial/industrial use which excludes sensitive uses with accessible soil such as childcare centres, kindergartens, pre-schools and primary schools. The site should not be developed for a more sensitive use such as recreational open space; residential use or childcare centres without further contamination assessment and/or remediation.</p> <p>Reason for Classification:</p> <p>This site was reported to the Department of Environment Regulation (DER) as per reporting obligations under section 11 of the 'Contaminated Sites Act 2003'(the Act), which commenced on 1 December 2006. The site was first classified under section 13 of the Act based on information submitted to DER by April 2012. The site has been classified again under section 13 of the Act to reflect additional technical information submitted to DER by March 2015.</p> <p>The site is used for the treatment of wastewater, a land use that has the potential to cause contamination as specified in Appendix B of the guideline 'Assessment and Management of Contaminated Sites' (Department of Environment Regulation, 2014). The site is currently licensed under Part V of the Environmental Protection Act 1986.</p> <p>The site was reported because routine groundwater monitoring, carried out to comply with conditions of the Part V license, found that elevated concentrations of nutrients were present in groundwater beneath the site boundaries.</p> <p>A Hydrogeological Assessment of Nutrient Flux from the wastewater treatment plant was submitted to DER in November 2013. The assessment found that nutrients (total nitrogen and phosphorus) were</p>

Disclaimer

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present in groundwater beneath the site at concentrations exceeding local background concentrations, and exceeding the Tropical Australian aquatic ecosystems guidelines as published in Table 3.3.4 in the "Australian and New Zealand Guidelines for Fresh and Marine Water Quality" (Australian and New Zealand Environment and Conservation Council (ANZECC) & Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ, 2000). These are relevant criteria given the proximity of Roebuck Bay within 150 metres of the site's south-eastern boundary. The plume of nutrient-impacted groundwater was found to extend beyond the site boundaries beneath adjacent crown reserve land to the south-east and beneath the adjacent golf course to the west and south-west.

Concentrations of total nitrogen and total phosphorus remained above the relevant guideline levels in groundwater monitoring data for the site submitted to DER in September 2014.

Soil investigations have not been carried out and the quality of soil at the site is unknown.

Based on the available information, the site appears suitable for continued use as a wastewater treatment plant. However, further assessment of potential contamination should be undertaken before any change to a more sensitive land use.

As the site has been shown to be contaminated, and remediation is required to reduce unacceptable risks to human health, the environment or any environmental value to acceptable levels, the site is classified as 'contaminated - remediation required'.

DER, in consultation with the Department of Health, has classified this site based on the information available to DER at the time of classification. It is acknowledged that the contamination status of the site may have changed since the information was collated and/or submitted to DER, and as such, the usefulness of this information may be limited.

In accordance with Department of Health advice, if groundwater is being, or is proposed to be abstracted, DER recommends that analytical testing should be carried out to determine whether the groundwater is suitable for its intended use.

Other Relevant Information

Additional information included herein is relevant to the contamination status of the site and includes DER's expectations for action that should be taken to address potential or actual contamination described in the Reasons for Classification.

Based on the available information, contamination present on this site has also been identified beyond the site boundary on adjacent land, and as such, DER considers this site meets the definition of a "source site" as specified in Part 1, Section 3 of the Act.

In accordance with Regulation 31(1)(b) of the Contaminated Sites Regulations 2006, any reports or information submitted to DER that are relevant to the investigation, assessment, monitoring or remediation of a "source" site are required to be accompanied by a mandatory auditor's report (MAR) prepared by an accredited contaminated sites auditor.

Action Required

This site is considered to be high priority for action to be taken to address contamination, as described below.

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As remediation of the site is required, a remediation action plan should be developed for the site.

As a component of such a plan, further site investigations are required to inform appropriate remedial actions and to support environmental risk assessment.

Investigations should include, but should not necessarily be limited to,

a) further groundwater investigations and assessment of local hydrogeological conditions, to adequately delineate and characterise the nature and extent of groundwater contamination at the site and offsite towards Roebuck Bay;

b) an assessment of levels of estrogenic endocrine disrupting compounds (EDCs) in tidal flat sediments and porewater within groundwater discharge zones along the Roebuck Bay foreshore, so that the potential risks to the nearby marine environment can be assessed;

c) Ecological Risk Assessment (ERA) to determine potential risks to the ecological values of Roebuck Bay by contaminant migration from this site. The ERA should consider potential impacts of nutrient flux, EDCs, metals and metalloids (such as selenium and arsenic).

Investigations should meet the standards outlined in DER's 'Contaminated Sites Guidelines' (2014) and the 'National Environment Protection (Assessment of Site Contamination) Measure 1999'.

Certificate of Title Memorial

Under the Contaminated Sites Act 2003, this site has been classified "contaminated - remediation required". For further information on the contamination status of this site, please contact Contaminated Sites at the Department of Environment Regulation.

Current Regulatory Notice Issued

Type of Regulatory Notice: Nil

Date Issued: Nil

General

No other information relating to this parcel.

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