



Contaminated Sites Act 2003

Basic Summary of Records Search Response

Report generated at 10:14:29AM, 13/01/2016

Receipt No: DER46619

ID No: 12930

Search Results

This response relates to a search request received for:

1198 Port Dr
Minyirr, WA, 6725

This parcel belongs to a site that contains 2 parcel(s).

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

Address	1198 Port Dr Minyirr, WA, 6725
Lot on Plan Address	Lot 1199 On Plan 213540
Parcel Status	<p>Classification: 31/03/2015 - <i>Possibly contaminated - investigation required</i></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>Please refer to Reasons for Classification for further information on the contamination present at the site.</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', which commenced on 1 December 2006. The site was first classified under section 13 of the Act based on information submitted to DER by January 2007. 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>This site comprises two lots that are used as a golf course. Adjacent land to the east of this 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.). Treated wastewater from the adjacent Wastewater Treatment Plant (WWTP) has been used for many years to irrigate the golf course, and a holding pond for treated wastewater is located on the north-eastern portion of this site.</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 present in groundwater beneath the WWTP, and beneath this 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) &</p>

Disclaimer

This Summary of Records has been prepared by Department of Environment Regulation (DER) as a requirement of the Contaminated Sites Act 2003. DER makes every effort to ensure the accuracy, currency and reliability of this information at the time it was prepared, however advises that due to the ability of contamination to potentially change in nature and extent over time, circumstances may have changed since the information was originally provided. Users must exercise their own skill and care when interpreting the information contained within this Summary of Records and, where applicable, obtain independent professional advice appropriate to their circumstances. In no event will DER, its agents or employees be held responsible for any loss or damage arising from any use of or reliance on this information. Additionally, the Summary of Records must not be reproduced or supplied to third parties except in full and unabridged form.



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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 east of the WWTP beneath crown reserve land and beneath the golf course, indicating that irrigation of the golf course with treated wastewater is acting as a source of elevated nutrient concentration in groundwater beneath the site, and off-site to the east beneath adjacent crown reserve land.

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

The lateral and vertical extent of groundwater investigations at the site to date has been limited, and further groundwater investigations are required to fully delineate the extent of nutrient impacts. Additional potential contaminants of concern, such as endocrine disrupting compounds (EDCs), metals and metalloids should also be investigated.

A risk assessment has not been carried out to determine the potential risk posed by the substances of concern at the site to human health, the environment or any environmental value.

As there are grounds to indicate possible contamination of the site and groundwater has not been fully investigated, and a risk assessment to determine the risk to human health, the environment, or any environmental value has not been carried out, the site is classified as 'possibly contaminated - investigation 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

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	<p>This site is considered to be high priority for action to be taken to address potential contamination, as described below.</p> <p>Due to the presence of elevated nutrients in groundwater beneath the site, a Nutrient Irrigation Management Plan must be developed and implemented for the site as a matter of urgency to ensure that ongoing irrigation of the site with treated wastewater does not contribute any additional nutrient load to the underlying aquifer.</p> <p>Further groundwater investigations and assessment of local hydrogeological conditions are required to adequately delineate and characterise the nature and extent of groundwater contamination at the site, and off-site to the south-east, and to assess the potential risks to ecological values of the adjacent Roebuck Bay tidal flats.</p> <p>Investigations should meet the standards outlined in DER's 'Contaminated Sites Guidelines' (2014) and the 'National Environment Protection (Assessment of Site Contamination) Measure 1999'.</p>
Certificate of Title Memorial	<p>Under the Contaminated Sites Act 2003, this site has been classified as "possibly contaminated - investigation required". For further information on the contamination status of this site, please contact Contaminated Sites at the Department of Environment Regulation.</p>
Current Regulatory Notice Issued	<p>Type of Regulatory Notice: <i>Nil</i></p> <p>Date Issued: <i>Nil</i></p>
General	<p>No other information relating to this parcel.</p>

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