



## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 06:45:19AM, 30/07/2020

Receipt No: RR018088

ID No: 33226

### Search Results

This response relates to a search request received for:

Lot 301 On Plan 49594  
Fremantle, WA, 6160

This parcel belongs to a site that contains 3 parcel(s).

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

|                     |   |
|---------------------|---|
| Address             | Lot 301 On Plan 49594<br>Fremantle, WA, 6160  |
| Lot on Plan Address | Lot 301 On Plan 49594   |
| Parcel Status       | <p><b>Classification:</b> 09/06/2010 - <i>Possibly contaminated - investigation required</i></p> <p><b>Nature and Extent of Contamination:</b></p> <p>Hydrocarbon-impacted groundwater (such as from petrol and diesel) is present beneath the site.</p> <p><b>Restrictions on Use:</b></p> <p>Please refer to Reasons for Classification for further information on the contamination present at the site.</p> <p>Due to the nature and extent of groundwater contamination identified to date, the abstraction of groundwater for any use is not recommended.</p> <p><b>Reason for Classification:</b></p> <p>This site was reported to the Department of Environment and Conservation (DEC) prior to the commencement of the 'Contaminated Sites Act 2003'. The site classification is based on information submitted to DEC by April, 2010.</p> <p>The site was reported because a large fuel spill (i.e. hydrocarbons such as fuel oil) occurred at the site in 2004 when underground fuel pipes beneath the site leaked. The volume of the spill is not known.</p> <p>Some of the fuel spilled into the Swan River estuary immediately adjacent to the site. Remedial works were undertaken to contain and remove the fuel from the estuary.</p> <p>It is understood that hydrocarbon-impacted soils on the site were excavated and removed from the site in 2005, however, evidence that the remedial works were successful has not yet been submitted to DEC.</p> <p>The groundwater beneath the site has been monitored on a bi-annual basis since the spill occurred.</p> |

### Disclaimer

This Summary of Records has been prepared by Department of Water and Environmental Regulation (DWER) as a requirement of the Contaminated Sites Act 2003. DWER 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 DWER, 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.



## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

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Over this time period the concentrations of hydrocarbons within the groundwater beneath the site have significantly decreased. From 2005 until September 2009, the concentration of dissolved-phase hydrocarbons in groundwater beneath the site indicated that free-phase hydrocarbons (i.e. undissolved fuel floating on top of the watertable) were present at the site. However, during the most recent groundwater monitoring, in March 2010, hydrocarbons were detected at much lower concentrations with no free-phase hydrocarbons present. The March 2010 results found hydrocarbons in groundwater at concentrations exceeding Groundwater Intervention Values (Netherlands Ministry for Housing, Spatial Planning and Environment, 2000).

The full extent of the groundwater plume has not been properly delineated and no risk assessment has been carried out to determine the risk to human health, the environment and environmental values from hydrocarbons on the site.

As a Health Risk Assessment has not been carried out, DEC cannot comment on the suitability of the site for its current use.

Further investigation is required to determine the risk to human health, the environment and environmental values from hydrocarbons on the site.

As there are grounds to indicate possible contamination of the site, and since a suitable investigation of soil and groundwater and a risk assessment to determine the risk to human health, the environment, or any environmental value has not been carried out, further works are required to determine the contamination status of the site and the site is therefore classified as 'possibly contaminated - investigation required'.

When the results of further investigations are submitted to DEC, these will be reviewed, and the site may be re-classified.

Any investigation of the site should include a detailed survey to clearly delineate the extent of the area affected by soil and/or groundwater contamination.

Due to the nature of the contamination identified to date, DEC recommends that groundwater from beneath the site is not used for garden irrigation or any other purpose.

DEC, in consultation with the Department of Health, has classified this site based on the information available to DEC 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 DEC, 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, DEC recommends that analytical testing should be carried out to determine whether the groundwater is suitable for its intended use.

#### **Certificate of Title Memorial**

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 the Contaminated Sites section of the Department of Environment & Conservation.

#### **Current Regulatory Notice Issued**

**Type of Regulatory Notice:** Nil

**Date Issued:** Nil

#### **Disclaimer**

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## ***Contaminated Sites Act 2003*** **Basic Summary of Records Search Response**

Report generated at 06:45:20AM, 30/07/2020

### **General**

No other information relating to this parcel.

### **Disclaimer**

This Summary of Records has been prepared by Department of Water and Environmental Regulation (DWER) as a requirement of the Contaminated Sites Act 2003. DWER 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 DWER, 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.



Thomas Boyd Ferguson  
RPS Australian West  
PO Box 170  
West Perth WA 6872

Your ref: EEC20078.002  
Our ref: DMO 1138  
Enquiries: Registrar  
Phone: 1300 762 982  
Fax: (08) 6364 7001  
Email: [info@dwer.wa.gov.au](mailto:info@dwer.wa.gov.au)

Dear Sir/Madam

### **BASIC SUMMARY OF RECORDS REQUEST**

Thank you for your Basic Summary of Records (BSR) request for the site consisting of the following parcel(s) of land:

- LOT 500 ON PLAN 59377 as shown on certificate of title LR3154/710 known as 500 Stirling Hwy, Mosman Park WA 6012

which Department of Water and Environmental Regulation (the department) received on 27/07/2020

A search of the department's records of known and suspected contaminated sites was undertaken and the results of the search are attached for your information.

A guide on how to interpret the BSR response is also attached for your information.

General information on a Summary of Records and associated request forms is available from the department's website on [www.der.wa.gov.au/contaminatedsites](http://www.der.wa.gov.au/contaminatedsites) or by contacting the Contaminated Sites Information Line on 1300 762 982.

Yours sincerely

**Paul Newell, Manager**

CONTAMINATED SITES REGULATION  
Delegated Officer under section 91  
of the *Contaminated Sites Act 2003*

30/07/2020

Enc. Basic Summary of Records  
[How to interpret information on contaminated sites](#)  
Receipt Number RR018071



## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 06:28:34AM, 30/07/2020

Receipt No: RR018071

ID No: 21976

### Search Results

This response relates to a search request received for:

500 Stirling Hwy  
Mosman Park, WA, 6012

This parcel belongs to a site that contains 4 parcel(s).

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

|                     |   |
|---------------------|---|
| Address             | 500 Stirling Hwy<br>Mosman Park, WA, 6012   |
| Lot on Plan Address | Lot 500 On Plan 59377   |
| Parcel Status       | <p><b>Classification:</b> 01/12/2006 - <i>Contaminated - remediation required</i></p> <p><b>Nature and Extent of Contamination:</b></p> <p>Petroleum hydrocarbons, such as from diesel, lead, chromium and copper in surface soils at concentrations exceeding Ecological and Health Investigation Levels as published in draft "Assessment Levels for Soil, Sediment and Water" (Department of Environment, November 2003) in ten discrete areas across the Site. Petroleum hydrocarbons, such as from diesel in superficial groundwater at concentrations exceeding assessment criteria as published in draft "Assessment Levels for Soil, Sediment and Water" (Department of Environment, November 2003) beneath the Site.</p> <p><b>Restrictions on Use:</b></p> <p>Groundwater should not be abstracted or used until further analysis indicates that the groundwater is of a quality suitable for the proposed use.</p> <p><b>Reason for Classification:</b></p> <p>The site was reported to the Department of Environment and Conservation prior to the commencement of the Contaminated Sites Act 2003. The site classification is based on information submitted to the Department of Environment and Conservation (DEC) by 1 September 2006.</p> <p>The site was historically used as railway marshalling yards and associated commercial activities, a land use that has the potential to cause contamination.</p> <p>The site was subject to soil and groundwater investigations carried out as part of the on-going decommissioning and redevelopment of the railway yards that commenced in 1998. The investigations identified hydrocarbons including fuel and lubricating oils, organic contamination, pesticides, lead, chromium and copper contamination in soils at concentrations in soils exceeding Ecological Investigation Levels and Health Investigation Levels as published in draft "Assessment Levels for Soil, Sediment and Water" (Department of Environment, November 2003). The investigations also identified hydrocarbon contamination including diesel oils, within the underlying groundwater at concentrations exceeding assessment criteria published in draft "Assessment Levels</p> |

### Disclaimer

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 06:28:35AM, 30/07/2020

for Soil, Sediment and Water" (Department of Environment, November 2003).

An ecological and health risk assessment was carried out to derive appropriate remediation objectives.

Soil contamination within Lot 3000 and the southern part of Lot 3001 is being remediated in accordance with a Soil Remediation and Validation Plan (June 2006) and Soil Contamination Management Plan (August 2006) although soil remedial works and validation investigations have not yet been completed. Remediation involves excavation and off-site disposal of contaminated soils. Groundwater contamination is being remediated by Monitored Natural Attenuation, in accordance with a MNA Management Plan (February 2006).

Remediation and redevelopment works have not yet commenced at the remainder of Lot 3001 to the north, along the former rail reserve corridor.

As previous soil and groundwater investigations have identified and delineated contamination within the site remediation is still progressing, the site has been classified as "Contaminated - Remediation Required". A comment cannot be made on the suitability of the site as a whole for the existing or future land use until remediation and validation works have been completed.

The DEC has classified this site based on the information available at the time of classification. It is acknowledged that the contamination status may have changed since this time, and as such the usefulness of this information may be limited. If groundwater is likely to be abstracted, in accordance with Department of Health advice, the DEC recommends that analytical testing of groundwater should be undertaken to confirm that it is suitable for its intended use.

#### **Certificate of Title Memorial**

Under the Contaminated Sites Act 2003, this Site has been classified as "Contaminated - remediation required". For further information on the contamination status of this Site, please contact the Contaminated Sites section of the Department of Environment & Conservation.

#### **Current Regulatory Notice Issued**

**Type of Regulatory Notice:** *Nil*

**Date Issued:** *Nil*

#### **General**

No other information relating to this parcel.

#### **Disclaimer**

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Thomas Boyd Ferguson  
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Your ref: EEC20078.002  
Our ref: DMO 2225  
Enquiries: Registrar  
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Fax: (08) 6364 7001  
Email: [info@dwer.wa.gov.au](mailto:info@dwer.wa.gov.au)

Dear Sir/Madam

### BASIC SUMMARY OF RECORDS REQUEST

Thank you for your Basic Summary of Records (BSR) request for the site consisting of the following parcel(s) of land:

- LOT 2158 ON PLAN 58649 as shown on certificate of title LR3159/719 known as Fremantle WA 6160

which Department of Water and Environmental Regulation (the department) received on 27/07/2020

A search of the department's records of known and suspected contaminated sites was undertaken and the results of the search are attached for your information.

A guide on how to interpret the BSR response is also attached for your information.

General information on a Summary of Records and associated request forms is available from the department's website on [www.der.wa.gov.au/contaminatedsites](http://www.der.wa.gov.au/contaminatedsites) or by contacting the Contaminated Sites Information Line on 1300 762 982.

Yours sincerely

**Paul Newell, Manager**

CONTAMINATED SITES REGULATION  
Delegated Officer under section 91  
of the *Contaminated Sites Act 2003*

30/07/2020

Enc. Basic Summary of Records  
[How to interpret information on contaminated sites](#)  
Receipt Number RR018089





## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 07:00:24AM, 30/07/2020

Receipt No: RR018089

ID No: 41785

### Search Results

This response relates to a search request received for:

Lot 2158 On Plan 58649  
Fremantle, WA, 6160

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

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

|                     |   |
|---------------------|---|
| Address             | Lot 2158 On Plan 58649<br>Fremantle, WA, 6160   |
| Lot on Plan Address | Lot 2158 On Plan 58649  |
| Parcel Status       | <p><b>Classification:</b> 30/05/2008 - <i>Possibly contaminated - investigation required</i></p> <p><b>Nature and Extent of Contamination:</b></p> <p>Hydrocarbons (such as from petrol/diesel/oil) and heavy metals are present in soils.</p> <p><b>Restrictions on Use:</b></p> <p>Please refer to Reasons for Classification for further information on the contamination present at the Site.</p> <p><b>Reason for Classification:</b></p> <p>This Site was reported to the Department of Environment and Conservation (DEC) as per reporting obligations under section 11 of the 'Contaminated Sites Act 2003', which commenced on 1 December 2006. The Site classification is based on information submitted to DEC by May 2008.</p> <p>The Site comprises a large area of land that has been occupied and used for a variety of industrial and commercial uses. Investigations have been submitted to DEC regarding two locations at the Site. One location was used as a former taxi depot and petrol storage and dispensing facility (situated within Lot 2158 on Deposited Plan 58649), the second location was railway reserve land (Section of Lot 2157 on Deposited Plan 58649 shown as Subject J). Both land uses have the potential to cause contamination as per the guideline "Potentially Contaminating Activities, Industries and Land Uses" (Department of Environment, October 2004).</p> <p>The two areas were the subject of environmental investigations carried out in 2006.</p> <p>In October 2006 an investigation was conducted at the former taxi depot which identified the presence of hydrocarbons (such as from petrol/diesel/oil) in soils at concentrations exceeding Ecological Investigation Levels and Health-based Investigation Levels for commercial and industrial land uses, as published in 'Assessment Levels for Soil, Sediment and Water' (Department of Environment, 2003). Groundwater investigations conducted at the same time did not detect any contamination above published screening guideline levels beneath the Site.</p> |

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 07:00:25AM, 30/07/2020

Remedial works were conducted at the former taxi depot in November 2006 comprising excavation and off-Site disposal of impacted soil. Impacted soils identified at the former taxi depot were successfully remediated.

In October 2007 an investigation was conducted at the railway reserve area which identified the presence of hydrocarbons (such as from petrol/diesel/oil) and heavy metals in soils at concentrations exceeding Ecological Investigation Levels and Health-based Investigation Levels for residential Sites, as published in 'Assessment Levels for Soil, Sediment and Water' (Department of Environment, 2003). No groundwater investigations were undertaken and the quality of the groundwater beneath this area of the Site is unknown.

Based on the findings of the investigations, a Screening Risk Assessment was carried out that indicated that the levels of contamination within the investigated areas did not pose an unacceptable risk to human health (based on a commercial and industrial land use). However, as the Site has only been partially investigated, a comment cannot be made on the suitability of the Site as a whole for any land use.

As there are grounds to indicate possible contamination of the Site, and since a suitable investigation of soil, groundwater and a risk assessment to determine the risk to human health, the environment, or any environmental value has not been carried out over the Site as a whole, further works are required to determine the contamination status of the Site. The Site is therefore classified as 'possibly contaminated - investigation required'.

A memorial stating the Site's classification has been placed on the Certificate of Title, and will trigger the need for further investigations and risk assessment.

When the results of further soil and groundwater investigations are submitted to DEC, these will be reviewed, and the Site may be re-classified. Any further investigation, remediation and validation of the Site should include a detailed survey to delineate the area affected by soil or groundwater contamination, so that the boundary of the contaminated area can be clearly defined.

DEC, in consultation with Department of Health, has classified this Site based on the information available to DEC 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 DEC, 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, DEC recommends that analytical testing should be carried out to determine whether the groundwater is suitable for its intended use.

#### **Certificate of Title Memorial**

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 the Contaminated Sites section of the Department of Environment & Conservation.

#### **Current Regulatory Notice Issued**

**Type of Regulatory Notice:** Nil

**Date Issued:** Nil

#### **General**

No other information relating to this parcel.

#### **Disclaimer**

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Your ref: EEC20078.002  
Our ref: DMO 4057  
Enquiries: Registrar  
Phone: 1300 762 982  
Fax: (08) 6364 7001  
Email: [info@dwer.wa.gov.au](mailto:info@dwer.wa.gov.au)

Thomas Boyd Ferguson  
RPS Australian West  
PO Box 170  
West Perth WA 6872

Dear Sir/Madam

### BASIC SUMMARY OF RECORDS REQUEST

Thank you for your Basic Summary of Records request for the site consisting of the following parcel(s) of land:

- LOT 406 ON PLAN 91139 as shown on certificate of title LR3137/945 known as 406 Queen Victoria St, North Fremantle WA 6159

which Department of Water and Environmental Regulation (the department) received on 27/07/2020.

A search of the department's records of known and suspected contaminated sites was undertaken however, our records indicate that as of 30/07/2020 this site has not been reported to the department as a known or suspected contaminated site either prior to or after the commencement of the *Contaminated Sites Act 2003*.

For general enquiries, please contact the Registrar on 1300 762 982.

Yours sincerely

**Paul Newell, Manager**

CONTAMINATED SITES REGULATION  
Delegated Officer under section 91  
of the *Contaminated Sites Act 2003*

30/07/2020

Enc. Receipt Number RR018087



Your ref: EEC20078.002  
Our ref: DMO 7726  
Enquiries: Registrar  
Phone: 1300 762 982  
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Email: [info@dwer.wa.gov.au](mailto:info@dwer.wa.gov.au)

Thomas Boyd Ferguson  
RPS Australian West  
PO Box 170  
West Perth WA 6872

Dear Sir/Madam

### BASIC SUMMARY OF RECORDS REQUEST

Thank you for your Basic Summary of Records request for the site consisting of the following parcel(s) of land:

- LOT 1972 ON DEPOSITED PLAN 214292 as shown on certificate of title LR3128/856 known as Elder Pl, Fremantle WA 6160

which Department of Water and Environmental Regulation (the department) received on 27/07/2020.

A search of the department's records of known and suspected contaminated sites was undertaken however, our records indicate that as of 30/07/2020 this site has not been reported to the department as a known or suspected contaminated site either prior to or after the commencement of the *Contaminated Sites Act 2003*.

For general enquiries, please contact the Registrar on 1300 762 982.

Yours sincerely

**Paul Newell, Manager**

CONTAMINATED SITES REGULATION  
Delegated Officer under section 91  
of the *Contaminated Sites Act 2003*

30/07/2020

Enc. Receipt Number RR018089



Your ref:

Our ref: DMO 9232

Enquiries: Registrar

Phone: 1300 762 982

Fax: (08) 6364 7001

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RPS Australian West  
PO Box 170  
West Perth WA 6872

Dear Sir/Madam

### **BASIC SUMMARY OF RECORDS REQUEST**

Thank you for your Basic Summary of Records request for the site consisting of the following parcel(s) of land:

- LOT 401 ON PLAN 182212 as shown on certificate of title LR3148/764 known as 15 Tydeman Rd, North Fremantle WA 6159
- LOT 394 ON DEPOSITED PLAN 213630 as shown on certificate of title LR3148/764 known as Queen Victoria St, North Fremantle WA 6159
- LOT 1908 ON DIAGRAM 31903 as shown on certificate of title LR3148/764 known as 199 Queen Victoria St, North Fremantle WA 6159
- LOT 395 ON DEPOSITED PLAN 213630 as shown on certificate of title LR3148/763 known as Queen Victoria St, North Fremantle WA 6159
- LOT 300 ON DEPOSITED PLAN 49594 as shown on certificate of title LR3140/595 known as North Fremantle WA 6159
- LOT 76 ON DIAGRAM 57658 as shown on certificate of title 1544/958 known as 94 Queen Victoria St, Fremantle WA 6160
- LOT 1941 ON DEPOSITED PLAN 213981 as shown on certificate of title LR3037/561 known as 123 Beach St, Fremantle WA 6160

which Department of Water and Environmental Regulation (the department) received on 27/07/2020.

A search of the department's records of known and suspected contaminated sites was undertaken however, our records indicate that as of 29/07/2020 this site has not been reported to the department as a known or suspected contaminated site either prior to or after the commencement of the *Contaminated Sites Act 2003*.

For general enquiries, please contact the Registrar on 1300 762 982.

Yours sincerely

A handwritten signature in black ink, appearing to read 'P. Newell', with a stylized, cursive script.

**Paul Newell, Manager**

CONTAMINATED SITES REGULATION  
Delegated Officer under section 91  
of the *Contaminated Sites Act 2003*

29/07/2020

Enc. Receipt Number RR018086, RR018087, RR018088 & RR018089



Your ref: EEC20078.002  
Our ref: DMO 10333  
Enquiries: Registrar  
Phone: 1300 762 982  
Fax: (08) 6364 7001  
Email: [info@dwer.wa.gov.au](mailto:info@dwer.wa.gov.au)

Thomas Boyd Ferguson  
RPS Australian West  
PO Box 170  
West Perth WA 6872

Dear Sir/Madam

### **BASIC SUMMARY OF RECORDS REQUEST**

Thank you for your Basic Summary of Records request for the site consisting of the following parcel(s) of land:

- LOT 507 ON DEPOSITED PLAN 59377 as shown on certificate of title LR3154/717 known as Irene St, North Fremantle WA 6159
- LOT 5 ON DIAGRAM 26998 as shown on certificate of title 1283/954 known as Congdon St, North Fremantle WA 6159
- LOT 66 ON DIAGRAM 5329 as shown on certificate of title 795/106 known as Congdon St, North Fremantle WA 6159
- LOT 502 ON DEPOSITED PLAN 28235 as shown on certificate of title 2219/133 known as 87 Stirling Hwy, North Fremantle WA 6159
- LOT 150 ON PLAN 17633 as shown on certificate of title 2219/133 known as 85 A Stirling Hwy, North Fremantle WA 6159
- LOT 2 ON DIAGRAM 4767 as shown on certificate of title 1102/535 known as 83 D Stirling Hwy, North Fremantle WA 6159
- LOT 1 ON DIAGRAM 4767 as shown on certificate of title 1102/536 known as 83 C Stirling Hwy, North Fremantle WA 6159
- LOT 91 ON PLAN 17633 as shown on certificate of title 1000/12 known as 81 Stirling Hwy, North Fremantle WA 6159
- LOT 13 ON DIAGRAM 13173 as shown on certificate of title 1096/138 known as 79 A Stirling Hwy, North Fremantle WA 6159
- LOT 14 ON DIAGRAM 13173 as shown on certificate of title 1096/139 known as 77 A Stirling Hwy, North Fremantle WA 6159
- LOT 151 ON PLAN 17633 as shown on certificate of title 2655/122 known as 21 Jackson St, North Fremantle WA 6159
- LOT 404 ON DEPOSITED PLAN 182261 as shown on certificate of title LR3154/619 known as Tydeman Rd, North Fremantle WA 6159

which Department of Water and Environmental Regulation (the department) received on 27/07/2020.



A search of the department's records of known and suspected contaminated sites was undertaken however, our records indicate that as of 29/07/2020 this site has not been reported to the department as a known or suspected contaminated site either prior to or after the commencement of the *Contaminated Sites Act 2003*.

For general enquiries, please contact the Registrar on 1300 762 982.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Paul Newell', with a stylized flourish at the end.

**Paul Newell, Manager**

CONTAMINATED SITES REGULATION  
Delegated Officer under section 91  
of the *Contaminated Sites Act 2003*

29/07/2020

Enc. Receipt Number RR018071 & RR018089



## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 01:49:16PM, 27/07/2020

### Search Results

Receipt No:

ID No: 67607

This response relates to a search request received for:

33 Tydeman Rd  
North Fremantle, WA, 6159

Lot 10 on Deposited Plan 69297 shown as Subject B on Deposited Plan 407853 on certificate of title 2786/652, North Fremantle WA 6159

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

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

### Address

33 Tydeman Rd  
North Fremantle, WA, 6159

Lot 10 on Deposited Plan 69297 shown as Subject B on Deposited Plan 407853 on certificate of title

### Parcel Status

**Classification:** 26/05/2016 - *Remediated for restricted use*

#### Nature and Extent of Contamination:

Petroleum hydrocarbon impacts have been detected in soils and groundwater beneath the site in discrete locations.

Residual asbestos containing material (ACM) is present in soil, confined within a sub-surface containment cell located adjacent to Port Beach Road and Rudderham Drive.

#### Restrictions on Use:

The land use of the site is restricted to commercial/industrial use. 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.

Due to the potential presence of asbestos in soil, a site-specific health and safety plan is required to address the risks to the health of any workers undertaking intrusive works until further notice.

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. Groundwater beneath three locations within the Port operating areas has been identified as being not suitable for domestic non-potable uses. These locations are depicted within Annex A of 'Fremantle Port, North Quay Fremantle WA Voluntary Auditor's Report' (ERM, November 2015).

#### Reason for Classification:

This site was first 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 has previously been classified under section 13 of the Act based on information submitted to DER by April 2008. The site has been classified again under section 13 of the Act to

### Disclaimer

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 01:49:16PM, 27/07/2020

reflect additional technical information submitted to DER by March 2016.

This site primarily comprises reclaimed land largely filled by dredged spoil, was developed prior to 1958 and has been in continued use as an operational port facility to the present time. The site was used for oil distribution, grain storage, a tannery, railway land, cement manufacturer and wool storage and treatment, and more recently for a variety of commercial and industrial uses including fuel storage, fuel transport, road tanker repairs, activities associated with container storage yards and a power substation. These land uses have the potential to cause contamination, as specified in the guideline 'Assessment and management of contaminated sites' (DER, 2014). A number of commercial and industrial buildings and structures on the site have been demolished and rebuilt throughout the operational life of the port.

From 2003 to 2015, the site has been subject to a series of contamination investigations. Independent review of the investigations was completed by an accredited contaminated sites auditor who provided a voluntary auditor's report (VAR) dated November 2015. An addendum to the VAR was received in March 2016. The overall purpose of the VAR was to assess the suitability of the site for ongoing commercial and industrial land uses.

Soil investigations have identified some areas of petroleum hydrocarbons impacts. One soil sample had a concentration of petroleum hydrocarbons exceeding the Health Screening Levels for industrial and commercial land uses.

Asbestos containing material (ACM) was detected within fill material underlying the area adjacent to Port Beach Road and Rudderham Drive. Remedial works, comprising the excavation, screening and off-site disposal of ACM contaminated material was conducted in 2015. At the completion of remedial works, residual ACM-impacted fill remained in a containment cell beneath layer of no-less than 300mm of clean fill and a hard stand. The containment cell has been surveyed and recorded on the Fremantle Port Authority Asbestos Register for future reference and all intrusive works will require an 'Excavation Licence' be obtained from the Fremantle Port Authority before works commence.

Petroleum hydrocarbons (such as from petrol, diesel or oil) have been detected in groundwater at discrete locations at concentrations exceeding assessment levels for non-potable use of groundwater, as published in the 'Assessment and management of contaminated sites' (DER 2014).

The VAR concluded that the site does not pose an unacceptable risk to human health and the environment provided the use of the land is restricted to commercial and industrial activities, ongoing site management is implemented to inform future development and intrusive works, and the quality of groundwater is assessed to determine its suitability for any intended use. DER has accepted the findings of the VAR.

As the site has been remediated such that it has been demonstrated to be suitable for the current commercial and industrial landuses, but may not be suitable for a more sensitive landuse (such as residential, childcare centres or primary schools), the site is classified as 'remediated for restricted use'.

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.

#### **Other Relevant Information:**

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 01:49:16PM, 27/07/2020

DER notes that the site continues to be used for commercial and industrial purposes, which includes land uses that have the potential to cause contamination, as specified in the guideline 'Assessment and management of contaminated sites' (DER, 2014). For this reason, DER recommends that further assessment of potential contamination should be undertaken before any change in land use to a more sensitive land use (such as residential, primary school or childcare centre) in the future.

Where the land is part of a transaction - sale, mortgagee or lease agreement, the land owners must provide written disclosure (on the prescribed Form 6) of the site's status to any potential owner, mortgagee (e.g financial institutions) or lessee at least 14 days before the completion of the transaction. A copy of the disclosure must also be forwarded to DER.

#### **Action Required:**

Due to the presence of asbestos-impacted soil in containment, a site-specific health and safety plan is required to address the risks to the health of any workers undertaking intrusive works until further notice.

#### **Certificate of Title Memorial**

Under the Contaminated Sites Act 2003, this site has been classified as "remediated for restricted use". 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.

#### **Disclaimer**

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## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 01:55:19PM, 27/07/2020

### Search Results

Receipt No:

ID No: 69254

This response relates to a search request received for:

1 Cliff St

Fremantle, WA, 6160

Lot 51 on Deposited Plan 70786 as shown as Subject A on Deposited Plan 407834, on certificate of title 2846/998 known as 1 Cliff Street, Fremantle WA 6160

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

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

### Address

1 Cliff St

Fremantle, WA, 6160

Lot 51 on Deposited Plan 70786 as shown as Subject A on Deposited Plan 407834, on certificate of

### Parcel Status

**Classification:** 12/08/2016 - *Remediated for restricted use*

#### Nature and Extent of Contamination:

Hydrocarbons (such as from petrol, oil or diesel) and heavy metals are present in soil.

Hydrocarbons (such as from petrol, oil or diesel) and heavy metals are present in groundwater beneath the site.

#### Restrictions on Use:

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 remediation.

Due to the presence of hydrocarbons in soil, a site-specific health and safety plan is required to address the risks to the health of any workers undertaking intrusive works until further notice.

Groundwater beneath the site is not suitable for use without treatment for the presence of hydrocarbons (such as from petrol, oil or diesel) contamination.

#### Reason for Classification:

The site was originally reported to the Department of Environment Regulation (DER) prior to the commencement of the 'Contaminated Sites Act 2003' (the Act). The site was first classified under section 13 of the Act based on information submitted to DER by January 2009. The site has been classified again under section 13 of the Act to reflect additional technical information submitted to DER by July 2016.

This site, defined as subject "A" on Interest Only Deposited Plan 407834, has historically been used

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 01:55:19PM, 27/07/2020

for port and railway related activities as part of the southern Fremantle Port operations, known as Victoria Quay. The historic port and railway activities at the site included underground fuel storage and fuel dispensing infrastructure. These are land uses that have the potential to cause contamination, as specified in the guideline 'Assessment and management of contaminated sites' (DER, 2014).

Limited remediation comprising the removal of fuel infrastructure and associated impacted soil was carried out in the 1980s. However, reports describing validation were not submitted to DER.

A number of soil and groundwater investigations were subsequently carried out at the site for characterisation and future redevelopment of Victoria Quay for commercial use.

Soil investigations in 2009 identified lead and hydrocarbons (such as from petrol, oil or diesel), including polycyclic aromatic hydrocarbons such as benzo(a)pyrene, in soils at concentrations exceeding the Ecological Investigation Levels (EILs) and the Health-based Investigation Levels for commercial and industrial uses as published in the 'National Environment Protection (Assessment of Site Contamination) Measure 1999' (the NEPM).

Soil impacts identified were sporadic in their vertical and horizontal distribution, indicating a diffuse source of contamination such as heterogeneous fill material or dredge spoils.

Further soil investigation in 2015 found concentrations of volatile hydrocarbons (such as from petrol or diesel) were above the limits of reporting, but below the relevant soil Health Screening Levels for vapour intrusion on commercial/industrial land in the NEPM.

A number of groundwater investigations have been carried out since 2009. The most recent groundwater investigation in 2014 found that hydrocarbons (such as from petrol/diesel) were present in groundwater at concentrations exceeding the relevant groundwater Health Screening Levels (HSLs) for vapour intrusion for residential land use, but below the HSLs for vapour intrusion for commercial/industrial land use, as published in the NEPM.

Benzo(a)pyrene and arsenic were also present in groundwater at concentrations exceeding domestic non-potable groundwater use guidelines as published in 'Assessment and management of contaminated sites' (DER 2014).

The investigations and risk assessment works were subject of an independent review by an accredited contaminated sites auditor who provided a mandatory auditor's report (MAR) dated June 2016. The MAR recommended that the site is suitable for the proposed commercial/industrial land use. DER accepts the findings of the MAR.

As the site is contaminated and has been remediated such that it is suitable for the proposed commercial landuse, but may not be suitable for a more sensitive landuse, the site is classified as 'remediated for restricted use'.

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

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 01:55:19PM, 27/07/2020

|   |   |
|---|---|
|   | <p>groundwater is suitable for its intended use.</p> <p><b>Action required:</b></p> <p>Due to the presence of hydrocarbons in soils and groundwater, DER recommends that a site-specific health and safety plan be developed to address the health risks associated with intrusive site works.</p>  |
| <b>Certificate of Title Memorial</b>    | <p>Under the Contaminated Sites Act 2003, this Site has been classified as "Contaminated - remediation required". For further information on the contamination status of this Site, please contact the Contaminated Sites section of the Department of Environment &amp; Conservation.</p> <p>Under the Contaminated Sites Act 2003, this site has been classified as "remediated for restricted use". For further information on the contamination status of this site, please contact Contaminated Sites at the Department of Environment Regulation.</p> |
| <b>Current Regulatory Notice Issued</b> | <p><b>Type of Regulatory Notice:</b> <i>Nil</i></p> <p><b>Date Issued:</b> <i>Nil</i></p>   |
| <b>General</b>                          | <p>No other information relating to this parcel.</p>  |

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## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 01:57:53PM, 27/07/2020

### Search Results

Receipt No:

ID No: 67612

This response relates to a search request received for:

33 Tydeman Rd  
North Fremantle, WA, 6159  
Lot 10 on Deposited Plan 69297 shown as Subject C on Deposited Plan 407853 on certificate of title 2786/652, North Fremantle WA 6159

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

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

### Address

33 Tydeman Rd  
North Fremantle, WA, 6159  
Lot 10 on Deposited Plan 69297 shown as Subject C on Deposited Plan 407853 on certificate of title

### Parcel Status

**Classification:** 26/05/2016 - *Contaminated - remediation required*

**Nature and Extent of Contamination:**

Petroleum hydrocarbons (such as from petrol or diesel) are present in groundwater beneath the site.

**Restrictions on Use:**

The land use of the site is restricted to commercial/industrial use. 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.

Due to the presence of petroleum hydrocarbons beneath the site, a site-specific health and safety plan is required to address the risks to the health of any workers undertaking intrusive works until further notice.

Other than for analytical testing or remediation, groundwater abstraction is not permitted at this site because of the nature and extent of groundwater contamination.

**Reason for Classification:**

This site was first 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 has previously been classified under section 13 of the Act based on information submitted to DER by April 2008. The site has been classified again under section 13 of the Act to reflect additional technical information submitted to DER by March 2016.

This site was developed prior to 1958 and has been in continued use as part of an operational port facility to the present time. The port facilities have been used for oil distribution, grain storage, a tannery, railway land, cement manufacturer and wool storage and treatment, and more recently for a variety of commercial and industrial uses including fuel storage, fuel transport, road tanker repairs, activities associated with container storage yards and a power substation. These land uses have the

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 01:57:53PM, 27/07/2020

potential to cause contamination, as specified in the guideline 'Assessment and management of contaminated sites' (DER, 2014). A number of commercial and industrial buildings and structures have been demolished and rebuilt throughout the operational life of the port.

From 2003 to 2015, the site has been subject to a series of contamination investigations. An independent review of the investigations was completed by an accredited contaminated sites auditor who provided a voluntary auditor's report (VAR) dated November 2015. An addendum to the VAR was provided in March 2016. The overall purpose of the VAR was to assess the suitability of the site for ongoing commercial and industrial land uses.

Light non-aqueous phase liquid (such as from petrol, diesel or oil) has been detected beneath the site. Dissolved petroleum hydrocarbons have also been detected in groundwater at concentrations exceeding assessment levels for non-potable use of groundwater, as published in the 'Assessment and management of contaminated sites' (DER 2014). The available information suggests that the detected impacts are associated with a source of contamination on adjacent land. However, further investigations are required to determine the source of the contamination.

The VAR concluded that provided intrusive works and access to groundwater is restricted, the petroleum hydrocarbons in groundwater are unlikely to pose an unacceptable risk to human health and/or the environment. However, more detailed assessment of the nature of the impacts and the potential risks are required to understand the contamination status of the site and appropriate future management requirements.

The auditor recommended that the site is classified 'contaminated - remediation required'. DER has accepted the findings of the VAR.

As light non-aqueous phase liquid (such as petrol or diesel) is present in groundwater which has the potential to present a risk to human health, the environment, or environmental values, 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.

#### **Other Relevant Information:**

DER notes that the site continues to be used for commercial and industrial purposes, which include land uses that may have the potential to cause contamination, as specified in the guideline 'Assessment and management of contaminated sites' (DER, 2014). For this reason, DER recommends that further assessment of potential contamination should be undertaken before any change in land use to a more sensitive land use (such as residential, primary school or childcare centre) in the future.

#### **Action Required:**

Further investigations are required to determine the nature, extent and source of petroleum hydrocarbon contamination beneath the site. This site is considered to be high priority for action to be taken to address contamination, that DER expects to be carried out by the person(s) responsible for the source site.

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 01:57:53PM, 27/07/2020

|   |   |
|---|---|
|   | As remediation of the site is required, remedial options must be assessed and a remediation action plan developed for the site.   |
| <b>Certificate of Title Memorial</b>    | Under the Contaminated Sites Act 2003, this site has been classified as "contaminated - remediation required". For further information on the contamination status of this site, please contact Contaminated Sites at the Department of Environment Regulation. |
| <b>Current Regulatory Notice Issued</b> | <b>Type of Regulatory Notice:</b> <i>Nil</i><br><b>Date Issued:</b> <i>Nil</i>  |
| <b>General</b>                          | No other information relating to this parcel.   |

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## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 02:02:27PM, 27/07/2020

### Search Results

Receipt No:

ID No: 33796

This response relates to a search request received for:

Lot 124 On Diagram 1211  
North Fremantle, WA, 6159

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

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

|                     |   |
|---------------------|---|
| Address             | Lot 124 On Diagram 1211<br>North Fremantle, WA, 6159  |
| Lot on Plan Address | Lot 124 On Diagram 1211   |
| Parcel Status       | <p><b>Classification:</b> 20/07/2010 - Contaminated - remediation required</p> <p><b>Nature and Extent of Contamination:</b></p> <p>Hydrocarbons (such as from petrol and diesel) are present in groundwater as a plume extending beneath the Source site in a southerly direction. Hydrocarbon-impacted soil remains in-situ in the vicinity of the product storage area, filling station and office in the southern portion of the site at a depth starting from surface level.</p> <p><b>Restrictions on Use:</b></p> <p>Access to soils below 0.2m depth is restricted without a health and safety plan.</p> <p>Other than for analytical testing or remediation, groundwater abstraction is not permitted at this site.</p> <p><b>Reason for Classification:</b></p> <p>Investigation reports for this site, have been provided to the Department of Environment and Conservation (DEC) prior to the commencement of the 'Contaminated Sites Act 2003'. The site classification is based on information submitted to DEC by January 2008.</p> <p>This site is currently used as a refinery, a land use that has the potential to cause contamination, as specified in the guideline 'Potentially Contaminating Activities, Industries and Landuses' (Department of Environment, 2004).</p> <p>The site has been the subject of investigations conducted on the site since 1993. The most recent investigation was documented in report held on DEC records is dated April 2006.</p> <p>Soil investigations conducted on the site in 1993 identified the presence of hydrocarbons (such as from petrol/diesel/oil) in soils at concentrations exceeding Health-based Investigation Levels for commercial and industrial sites and Ecological Investigation Levels, as published in 'Assessment Levels for Soil, Sediment and Water' (Department of Environment and Conservation, 2010). The</p> |

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 02:02:27PM, 27/07/2020

analysis of the soil however, did not included speciation of the hydrocarbons, therefore the hydrocarbon results were compared to the most sensitive hydrocarbon criteria for commercial and industrial sites.

Groundwater investigations conducted between August 1998 and September 1999 identified the presence of free-phase hydrocarbons (such as pure petrol and/or diesel) on the surface of the groundwater on the site and off-site.

Hydrocarbons (such as from petrol/diesel/oil) were present in groundwater at concentrations exceeding Aquatic Ecosystems-Marine, as published in 'Assessment Levels for Soil, Sediment and Water' (Department of Environment and Conservation, 2010) and exceeding Groundwater Intervention Values (Netherlands Ministry for Housing, Spatial Planning and Environment, 2000).

Available information suggests that hydrocarbon contamination is migrating offsite to the south and DEC considers the site to be a "source site".

DEC understands that remedial works have been proposed for the site, however, evidence that the remedial works have commenced and the results of the remedial works are yet to be submitted to DEC.

As free-phase hydrocarbons are present in the groundwater, which are acting as a significant source of dissolved phase groundwater contamination, which presents a risk to human health, the environment, or environmental values, the site is classified as 'contaminated - remediation required'.

As the refinery is a Source site, future reports on investigation, assessment, monitoring or remediation of the site which are submitted to DEC will need to be accompanied by a Mandatory Auditor's Report, in accordance with regulation 31(1)(b) of the Contaminated sites Regulations 2006.

DEC, in consultation with the Department of Health, has classified this site based on the information available to DEC 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 DEC, and as such, the usefulness of this information may be limited.

#### **Certificate of Title Memorial**

Under the Contaminated Sites Act 2003, this site has been classified as "contaminated - remediation required". An instrument affecting land which comprises all, or part of, this site will not be registered or accepted for registration, unless the CEO of the Department of Environment & Conservation consents to the registration in writing. For further information on the contamination status of this site, or this restriction, please contact the Contaminated Sites section of the Department of Environment & Conservation.

#### **Current Regulatory Notice Issued**

**Type of Regulatory Notice:** *Nil*

**Date Issued:** *Nil*

#### **General**

No other information relating to this parcel.

#### **Disclaimer**

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## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 09:26:17AM, 28/07/2020

### Search Results

Receipt No:

ID No: 6443

This response relates to a search request received for:

53 Bracks St  
North Fremantle, WA, 6159

This parcel belongs to a site that contains 59 parcel(s).

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

|                     |  |
|---------------------|--|
| Address             | 53 Bracks St<br>North Fremantle, WA, 6159  |
| Lot on Plan Address | Lot 53 On Plan 222459  |
| Parcel Status       | <p><b>Classification:</b> 09/02/2017 - <i>Remediated for restricted use</i></p> <p><b>Nature and Extent of Contamination:</b></p> <p>Hydrocarbons (such as from petrol and diesel) are present in groundwater beneath the northern portion of the site as a plume extending off-site to the west.</p> <p>Perfluoroalkyl and polyfluoroalkyl substances (such as from fire-fighting foam) is present in groundwater beneath the south-western portion of the site.</p> <p><b>Restrictions on Use:</b></p> <p>Groundwater should not be abstracted unless analytical testing demonstrates that it is suitable for its intended use.</p> <p><b>Reason for Classification:</b></p> <p>This site was reported to the Department of Environment Regulation (DER) prior to the commencement of the 'Contaminated Sites Act 2003' (the Act). The site was originally classified under section 13 of the Act based on information submitted to DER by November 2006. The reasons for classification were updated to reflect additional technical information submitted to DER by November 2011 and again by December 2016.</p> <p>This site was used as a fuel storage and distribution facility for approximately 76 years, from 1918 to 1994. This is a land use that has the potential to cause contamination, as specified in the guideline 'Assessment and management of contaminated sites' (DER, 2014).</p> <p>Several investigation reports have been prepared as part of on-going management of the site since 1993 and as part of decommissioning works between 2014 and 2016. The site had previously been investigated and classified as part of a larger site with the adjacent fuel terminal to the south.</p> <p>Investigations in 2014 identified metals (zinc and copper) present in soils at concentrations exceeding</p> |

### Disclaimer

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 09:26:18AM, 28/07/2020

the relevant Ecological Investigation Levels for urban residential land, public open space and commercial and industrial land specified in the 'National Environment Protection (Assessment of Site Contamination) Measure 1999' (the NEPM).

Lead was present in soils at concentrations exceeding Health Investigation Levels (HILs) for residential land with accessible soil specified in the NEPM.

Hydrocarbons (such as from petrol or diesel) were present in soils at concentrations exceeding Ecological Screening Levels for areas of urban residential land and public open space and the relevant soil Health Screening Levels (HSLs) for vapour intrusion on residential land and Management Limits for parkland and public open space as specified in the NEPM.

Decommissioning, demolition and remedial works were undertaken at the site in 2015 and 2016. This work involved the removal and off-site disposal of 80.2 tonnes of asbestos-containing material (ACM) and the excavation and off-site disposal of 5,515m<sup>3</sup> of metal or hydrocarbon-contaminated soils. All identified impacted soils have been successfully remediated to below the relevant HILs for residential land use specified in the NEPM. Retained subsurface infrastructure containing asbestos cement material is required to be managed through an asbestos management plan and register.

Groundwater monitoring has been undertaken at the site since at least 1993 including eight monitoring events between 2014 and 2016. The monitoring has identified a hydrocarbon plume in groundwater beneath the north-western portion of the site, migrating off-site to the west. The hydrocarbon plume has been delineated and it has been demonstrated that the plume is stable and attenuating.

The most recent results from 2016 found residual hydrocarbon concentrations in groundwater below the relevant groundwater HSLs for vapour intrusion on residential land as outlined in the NEPM. However, concentrations exceed the adopted non-potable use guideline derived from the World Health Organisation 'Petroleum Products in Drinking Water' 2008.

Perfluoroalkyl and polyfluoroalkyl substances (PFAS) (such as from fire-fighting foam) were identified in groundwater below the south-western portion of the site at concentrations exceeding the interim groundwater screening criteria for non-potable use as published in the 'Interim guideline for the assessment and management of perfluoroalkyl and polyfluoroalkyl substances (PFAS)' (DER, February 2016). The PFAS concentrations were stable and the plume clearly defined with no significant changes due to seasonal conditions.

A tier 1 risk assessment has indicated that the contamination present on the site does not currently pose an unacceptable risk to human health, the environment or environmental values under the potential future proposed residential land use. However, the contamination may present an unacceptable risk to human health if groundwater is abstracted and used on-site.

An accredited contaminated sites auditor (the auditor) reviewed the investigations and risk assessment for the site. The auditor's findings are documented in (mandatory auditor's report dated 14 November 2016 and in subsequent auditor's advice dated 23 January 2017. DER accepts the auditor's recommendation that the site is suitable for residential land use.

As the site is contaminated and has been remediated such that it is suitable for residential land use, subject to a restriction on groundwater abstraction, the site is classified as 'remediated for restricted use'.

#### **Disclaimer**

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 09:26:18AM, 28/07/2020

A memorial stating the site's classification has been placed on the certificate of title, and will trigger the need for further investigations and risk assessment should the site be proposed for a more sensitive land use.

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.

#### **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.

Where the land is part of a transaction - sale, mortgagee or lease agreement, the land owners **MUST PROVIDE WRITTEN DISCLOSURE** (on the prescribed Form 6) of the site's status to any potential owner, mortgagee (e.g financial institutions) or lessee at least 14 days before the completion of the transaction. A copy of the disclosure must also be forwarded to DER.

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:**

DER notes that the site is in an area zoned 'industrial' under the metropolitan region scheme. It is therefore possible that a potentially contaminating activity, industry or land use may take place at the site after December 2016. For this reason, DER recommends that further assessment of potential contamination should be undertaken before any change in land use to a more sensitive land use (such as residential, primary school or childcare centre) in the future.

Please refer to the Restrictions on Use applicable to the site.

#### **Certificate of Title Memorial**

Under the Contaminated Sites Act 2003, this site has been classified as "remediated for restricted use". 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.

#### **Disclaimer**

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## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 08:19:15AM, 28/07/2020

### Search Results

Receipt No:

ID No: 21976

This response relates to a search request received for:

500 Stirling Hwy  
Mosman Park, WA, 6012

This parcel belongs to a site that contains 4 parcel(s).

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

|                     |   |
|---------------------|---|
| Address             | 500 Stirling Hwy<br>Mosman Park, WA, 6012   |
| Lot on Plan Address | Lot 500 On Plan 59377   |
| Parcel Status       | <p><b>Classification:</b> 01/12/2006 - <i>Contaminated - remediation required</i></p> <p><b>Nature and Extent of Contamination:</b></p> <p>Petroleum hydrocarbons, such as from diesel, lead, chromium and copper in surface soils at concentrations exceeding Ecological and Health Investigation Levels as published in draft "Assessment Levels for Soil, Sediment and Water" (Department of Environment, November 2003) in ten discrete areas across the Site. Petroleum hydrocarbons, such as from diesel in superficial groundwater at concentrations exceeding assessment criteria as published in draft "Assessment Levels for Soil, Sediment and Water" (Department of Environment, November 2003) beneath the Site.</p> <p><b>Restrictions on Use:</b></p> <p>Groundwater should not be abstracted or used until further analysis indicates that the groundwater is of a quality suitable for the proposed use.</p> <p><b>Reason for Classification:</b></p> <p>The site was reported to the Department of Environment and Conservation prior to the commencement of the Contaminated Sites Act 2003. The site classification is based on information submitted to the Department of Environment and Conservation (DEC) by 1 September 2006.</p> <p>The site was historically used as railway marshalling yards and associated commercial activities, a land use that has the potential to cause contamination.</p> <p>The site was subject to soil and groundwater investigations carried out as part of the on-going decommissioning and redevelopment of the railway yards that commenced in 1998. The investigations identified hydrocarbons including fuel and lubricating oils, organic contamination, pesticides, lead, chromium and copper contamination in soils at concentrations in soils exceeding Ecological Investigation Levels and Health Investigation Levels as published in draft "Assessment Levels for Soil, Sediment and Water" (Department of Environment, November 2003). The investigations also identified hydrocarbon contamination including diesel oils, within the underlying groundwater at concentrations exceeding assessment criteria published in draft "Assessment Levels</p> |

### Disclaimer

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 08:19:15AM, 28/07/2020

for Soil, Sediment and Water" (Department of Environment, November 2003).

An ecological and health risk assessment was carried out to derive appropriate remediation objectives.

Soil contamination within Lot 3000 and the southern part of Lot 3001 is being remediated in accordance with a Soil Remediation and Validation Plan (June 2006) and Soil Contamination Management Plan (August 2006) although soil remedial works and validation investigations have not yet been completed. Remediation involves excavation and off-site disposal of contaminated soils. Groundwater contamination is being remediated by Monitored Natural Attenuation, in accordance with a MNA Management Plan (February 2006).

Remediation and redevelopment works have not yet commenced at the remainder of Lot 3001 to the north, along the former rail reserve corridor.

As previous soil and groundwater investigations have identified and delineated contamination within the site remediation is still progressing, the site has been classified as "Contaminated - Remediation Required". A comment cannot be made on the suitability of the site as a whole for the existing or future land use until remediation and validation works have been completed.

The DEC has classified this site based on the information available at the time of classification. It is acknowledged that the contamination status may have changed since this time, and as such the usefulness of this information may be limited. If groundwater is likely to be abstracted, in accordance with Department of Health advice, the DEC recommends that analytical testing of groundwater should be undertaken to confirm that it is suitable for its intended use.

#### **Certificate of Title Memorial**

Under the Contaminated Sites Act 2003, this Site has been classified as "Contaminated - remediation required". For further information on the contamination status of this Site, please contact the Contaminated Sites section of the Department of Environment & Conservation.

#### **Current Regulatory Notice Issued**

**Type of Regulatory Notice:** *Nil*

**Date Issued:** *Nil*

#### **General**

No other information relating to this parcel.

#### **Disclaimer**

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## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 08:59:25AM, 28/07/2020

### Search Results

Receipt No:

ID No: 18602

This response relates to a search request received for:

Lot 3004 On Plan 55273  
North Fremantle, WA, 6159

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

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

|                     |   |
|---------------------|---|
| Address             | Lot 3004 On Plan 55273<br>North Fremantle, WA, 6159   |
| Lot on Plan Address | Lot 3004 On Plan 55273  |
| Parcel Status       | <p><b>Classification:</b> 20/06/2008 - Remediated for restricted use</p> <p><b>Nature and Extent of Contamination:</b></p> <p>No soil contamination remains on Site.</p> <p>Groundwater investigations show no evidence of groundwater contamination underlying the Site, however hydrocarbon contamination (such as diesel and oil) is present in groundwater to the southeast of the Site.</p> <p><b>Restrictions on Use:</b></p> <p>The abstraction and use of groundwater at this Site is not permitted in order to minimise the disturbance of groundwater contamination and remediation by Monitored Natural Attenuation (MNA) being carried on in Sub-Lots 3, 5 and 6.</p> <p><b>Reason for Classification:</b></p> <p>The Site was reported to the Department of Environment and Conservation (DEC) prior to the commencement of the Contaminated Sites Act 2003. The Site classification is based on information submitted to DEC by May 2008.</p> <p>The Site is part of land, historically used as railway marshalling yards and associated commercial activities, a land use that has the potential to cause contamination as per the guideline "Potentially Contaminating Activities, Industries and Land Uses" (Department of Environment, October 2004).</p> <p>The Site comprises Lot 3003 and Lot 3004 and forms part of a larger development area approved for high density residential development in accordance with Western Australian Planning Commission (WAPC) approval 127244. The Site is to be developed and used as a road reserve, drainage basins and public open space, associated with an approved residential development.</p> <p>The Site was subject to a number of soil and groundwater investigations carried out in accordance with planning conditions set by Western Australian Planning Commission (WAPC) approval 127244.</p> |

### Disclaimer

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 08:59:25AM, 28/07/2020

The investigations identified hydrocarbons including fuel and lubricating oils, organic contamination, pesticides and heavy metal contamination including lead, chromium and copper in soils at concentrations exceeding Ecological Investigation Levels and Health Investigation Levels for residential land use as published in "Assessment Levels for Soil, Sediment and Water" (draft Department of Environment, November 2003).

An ecological and health risk assessment was carried out to derive appropriate remediation objectives.

Soil remediation works, comprised the excavation of impacted soils and the removal of asbestos contamination, were completed and validated in April 2007 in accordance with a Soil Remediation and Validation Plan (June 2006), Soil Contamination Management Plan (August 2006) and Asbestos Management Plan (September 2006).

Groundwater monitoring identified a hydrocarbon and nutrient contamination plume extending from an off-Site source in land to the southeast, underlying other parts of the approved development area (Sub-Lots 3, 5 and 6). Groundwater contamination was present at concentrations exceeding assessment criteria published in draft "Assessment Levels for Soil, Sediment and Water" (Department of Environment, November 2003). The remediation of the contamination plume is being managed by the former Site owner using Monitored Natural Attenuation (MNA) in accordance with a MNA Management Plan (February 2006).

The most recent groundwater monitoring data obtained in 2008 indicates that although contamination remains in groundwater beneath other parts of the approved development area (Sub-Lots 3, 5 and 6); this Site (i.e. Lots 3003 and 3004) is not impacted by the groundwater contamination.

A Screening Risk assessment demonstrates that the Site is suitable for a road reserve and drainage basins and public open space associated with the proposed high density residential development as proposed by WAPC approval 127244.

As previous soil and groundwater investigations have identified and delineated contamination within the Site and remediation and validation works have been satisfactory completed to a condition suitable for the proposed land use, the Site has been classified as "Remediated for Restricted Use".

As a precautionary measure, whilst MNA remediation is being undertaken in Sub-Lots 3, 5 and 6 of the approved development area, abstraction of groundwater is to be restricted within this Site so as to minimise the disturbance to the groundwater remediation works (MNA).

DEC has classified this Site based on the information available at the time of classification. It is acknowledged that the contamination status may have changed since this time, and as such the usefulness of this information may be limited.

#### **Certificate of Title Memorial**

Under the Contaminated Sites Act 2003, this Site has been classified as "Remediated for restricted use". For further information on the contamination status of this Site, please contact the Contaminated Sites section of the Department of Environment & Conservation.

#### **Current Regulatory Notice Issued**

**Type of Regulatory Notice:** Nil

**Date Issued:** Nil

#### **Disclaimer**

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## ***Contaminated Sites Act 2003*** **Basic Summary of Records Search Response**

Report generated at 08:59:25AM, 28/07/2020

### **General**

No other information relating to this parcel.

### **Disclaimer**

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## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 09:30:25AM, 28/07/2020

### Search Results

Receipt No:

ID No: 31036

This response relates to a search request received for:

2 Lime St  
North Fremantle, WA, 6159

This parcel belongs to a site that contains 19 parcel(s).

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

|                     |  |
|---------------------|--|
| Address             | 2 Lime St<br>North Fremantle, WA, 6159   |
| Lot on Plan Address | Lot 201 On Plan 63556  |
| Parcel Status       | <p><b>Classification:</b> 10/03/2009 - <i>Remediated for restricted use</i></p> <p><b>Nature and Extent of Contamination:</b></p> <p>Asbestos in the form of cemented asbestos containing material fragments are present in soils below 500mm of clean fill and a geosynthetic marker. Metals were present in soil and groundwater at the Site.</p> <p><b>Restrictions on Use:</b></p> <p>Access to soils below the geosynthetic marker layer is restricted.</p> <p><b>Reason for Classification:</b></p> <p>A contamination assessment was carried out on the Site in order to comply with a condition that was placed by the Western Australian Planning Commission (WAPC) and City of Fremantle as part of the planning approval process, to assess the Site's suitability for the proposed change of land use from commercial/industrial to medium to high density residential. The Site classification is based on information submitted to the Department of Environment and Conservation (DEC) by October 2008.</p> <p>The Site was reported because this contamination assessment found metals and asbestos in soils and metals in groundwater.</p> <p>The assessment found that cemented asbestos containing material (ACM) fragments were present in soils across the Site. Metals were also present in soils at concentrations exceeding Ecological Investigation Levels, as published in 'Assessment Levels for Soil, Sediment and Water' (Department of Environment, 2003). Metals were present in groundwater at concentrations exceeding Aquatic Ecosystems - Freshwater and Aquatic Ecosystems - Marine, as published in 'Assessment Levels for Soil, Sediment and Water' (Department of Environment, 2003).</p> <p>Remedial works, comprising excavation and off-site disposal of 282 cubic metres of soil containing</p> |

### Disclaimer

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 09:30:25AM, 28/07/2020

ACM fragments and hand-picking and off-site disposal of ACM fragments, have been carried out, however some ACM fragments remain in soil on the Site. A white grid geosynthetic marker layer and a minimum 500 millimetre thick cap of clean fill has been placed on Lots 500, 6, 7, 8, 9, 10, 103 and 102 to minimise the likely contact with remaining ACM fragments within the Site. Lot 50 has been excavated to limestone bedrock and a 150 to 200 millimetre thick layer of imported road base and surface asphalt paving has been installed to extend the existing Lime Street road reserve.

An Intermediate Risk Assessment and completion of the risk management works, as specified above, indicates that the levels of metals present in soil and groundwater and the occurrence of ACM fragments in soil on the Site do not pose a risk to human health, the environment or any environmental value under the proposed medium to high density land use.

Based on the information provided, the Site is suitable for medium to high density residential use as long as soils below the geosynthetic marker layer are not disturbed. An on-going management plan has been developed to manage the remnant ACM fragments at the Site.

As the Site has been remediated such that it is suitable for the proposed land use, the Site is classified as 'remediated for restricted use'.

As the potential contaminants of concern at the Site are contained on the Site such that disturbance and exposure is restricted, periodic monitoring of the marker layer is required to ensure that the integrity of the containment is maintained.

A memorial stating the Site's classification has been placed on the Certificate of Title, and will notify any prospective owners of the contamination status of the Site.

DEC, in consultation with the Department of Health, has classified this Site based on the information available to DEC 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 DEC, and as such, the usefulness of this information may be limited

#### **Certificate of Title Memorial**

Under the Contaminated Sites Act 2003, this Site has been classified as "Remediated for restricted use". For further information on the contamination status of this Site, please contact the Contaminated Sites section of the Department of Environment & Conservation.

#### **Current Regulatory Notice Issued**

**Type of Regulatory Notice:** *Nil*

**Date Issued:** *Nil*

#### **General**

No other information relating to this parcel.

#### **Disclaimer**

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## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 09:31:29AM, 28/07/2020

### Search Results

Receipt No:

ID No: 26811

This response relates to a search request received for:

Port Beach Rd  
Fremantle, WA, 6160

Lot 10 on Deposited Plan 69297 shown as Subject A on Deposited Plan 76546 on certificate of title 2786/652, North Fremantle WA 6160

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

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

### Address

Port Beach Rd  
Fremantle, WA, 6160

Lot 10 on Deposited Plan 69297 shown as Subject A on Deposited Plan 76546 on certificate of title

### Parcel Status

**Classification:** 21/05/2012 - *Remediated for restricted use*

#### Nature and Extent of Contamination:

Metals including cobalt, copper, nickel and zinc are present in groundwater beneath the site.

A capped containment cell containing dredged material is present on the site.

#### Restrictions on Use:

The land use of the site is restricted to commercial/industrial use; which excludes 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 remediation.

Excavation at the site should be restricted as far as practicable, and any excavation undertaken should ensure that the integrity of the containment cell on site is maintained.

#### Reason for Classification:

This site was reported to the Department of Environment and Conservation (DEC) as per reporting obligations under section 11 of the 'Contaminated Sites Act 2003', which commenced on 1 December 2006. The site classification is based on information submitted to DEC by February 2012.

This site, known as the Rous Head Reclamation area, is an area of reclaimed land located within the Fremantle Port area and comprises the northern portion of 467 Port Beach Road, North Fremantle (Lot 467 on Plan 218636). Bound by a limestone sea wall, the site has been historically used for stockpiling of material from a variety of sources within Fremantle Port area, as well as dredged material contained within a capped cell on the site.

A Preliminary Site Investigation (PSI) in 2007 indicated that the bulk of the stockpiled material originated from dredging of shipping channels, rubble from demolition works at the former grain silo and excavated soil from construction sites in the area.

### Disclaimer

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 09:31:30AM, 28/07/2020

A Detailed Site Investigation (DSI) in 2007 found total recoverable hydrocarbons, polycyclic aromatic hydrocarbons, benzene, toluene, ethylbenzene and xylene in excavated material derived from the North Quay Rail Loop site.

Remedial works comprising excavation and off-site disposal of hydrocarbon impacted soils have been carried out on the site, and all identified impacted soils have been successfully remediated for the commercial/industrial land use. No potential contaminants were detected above Health Investigation Levels for commercial and industrial land use in soil investigations carried out at the site in 2011.

Heavy metals (cobalt, copper, nickel and zinc) were present in groundwater at concentrations slightly exceeding Marine guidelines, as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010). However, the elevated concentrations are largely representative of the broader groundwater quality across much of the North Quay site.

Based on the information provided, the site appears suitable for continued commercial/industrial use, but may not be suitable for more sensitive land uses (such as residential housing, child care centres).

The investigations and risk assessment works were the subject of an independent review by an accredited contaminated sites auditor who provided a Voluntary Auditor's Report (VAR) dated February 2012. The VAR recommended that the site is suitable for commercial/industrial land use. DEC accepts the findings of the VAR.

As the site has been remediated such that it is suitable for the current commercial land use, but may not be suitable for a more sensitive land use, the site is classified as 'remediated for restricted use'.

DEC, in consultation with the Department of Health, has classified this site based on the information available to DEC 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 DEC, 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, DEC recommends that analytical testing should be carried out to determine whether the groundwater is suitable for its intended use.

#### **Certificate of Title Memorial**

Under the Contaminated Sites Act 2003, this site has been classified as "remediated for restricted use". For further information on the contamination status of this site, please contact the Contaminated Sites Branch of 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.

#### **Disclaimer**

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## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 09:19:36AM, 28/07/2020

Receipt No:

ID No: 14596

### Search Results

This response relates to a search request received for:

8 Queen Victoria St  
Fremantle, WA, 6160

This parcel belongs to a site that contains 4 parcel(s).

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

|                     |  |
|---------------------|--|
| Address             | 8 Queen Victoria St<br>Fremantle, WA, 6160   |
| Lot on Plan Address | Lot 310 On Plan 222424   |
| Parcel Status       | <p><b>Classification:</b> 14/09/2017 - <i>Remediated for restricted use</i></p> <p><b>Nature and Extent of Contamination:</b></p> <p>Residual metal and hydrocarbon impacts are present in soil in the west of the site. These impacts are limited and not considered to represent an on-going source of groundwater impacts (i.e. the site is to be fully paved and used for high density residential).</p> <p>Although the site is visually free of asbestos-containing material (ACM) on the surface of the site possible remnant ACM may be present across the site.</p> <p>Arsenic, Copper, Iron, Lead, Zinc and Ammonia are present in groundwater beneath the site.</p> <p><b>Restrictions on Use:</b></p> <p>Groundwater should not be abstracted for any potential beneficial use on the site.</p> <p>The land use of the site is restricted to high density residential and commercial/industrial with no access to soils across the site which excludes sensitive uses such as childcare centres, kindergartens, pre-schools and primary schools.</p> <p>The site must be fully paved prior to and during future occupancy to ensure that site users have no on-going access to site soils.</p> <p>The site should not be developed for a more sensitive use such as recreational open space; lower density residential use or childcare centres without further contamination assessment and/or remediation.</p> <p><b>Reason for Classification:</b></p> <p>This site was reported to the Department of Water and Environmental Regulation (DWER) 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 in July 2007. The reasons for classification were updated in February 2008 following the submission of additional information. The site has been classified again taking into account more recent information submitted to DWER by 4 September 2017.</p> |

### Disclaimer

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 09:19:36AM, 28/07/2020

This Site was used as a foundry that carried out engineering activities and an asbestos processing factory with associated storage and distribution of final products for both industries. Both of these industries are a land use that has the potential to cause contamination, as specified in the guideline 'Assessment and management of contaminated sites' (Department of Environment Regulation, 2014).

Contamination investigations were carried out on the site between 2007 and 2017 as part of the proposed sale and change of land use from industrial to high density residential of the site. The investigations found residual metal and hydrocarbon contamination in the superficial soils in the western portion the site. These exceedances were limited and considered unlikely to represent on-going sources of groundwater impacts.

Metals (zinc and copper) were present in soils at concentrations exceeding the relevant Ecological Investigation Levels for urban residential land and public open space as specified in the 'National Environment Protection (Assessment of Site Contamination) Measure 1999' (the NEPM). Hydrocarbons (such as from petrol or diesel) were present in soils at concentrations exceeding Ecological Screening Levels for urban residential land and public open space as specified in the 'National Environment Protection (Assessment of Site Contamination) Measure 1999' (the NEPM).

Groundwater investigations found elevated metals (arsenic, copper, iron, lead and zinc) and Ammonia were present in groundwater beneath the site at concentrations exceeding assessment levels for marine waters and non-potable use of groundwater as specified in the 'Assessment and Management of contaminated sites' (Department of Environment Regulation, 2014).

Hydrocarbons (such as from diesel) were present in groundwater in the western portion of the site however are not considered to represent a potential risk to human health given the nature and chemical properties of the hydrocarbon contamination.

The investigations and risk assessment works were the subject of an independent review by an accredited contaminated sites auditor. The auditor's review is documented in a mandatory auditor's report (MAR) dated 1 September 2017. The MAR recommended that the site is suitable for the proposed high density residential land use. DWER accepts the findings of the MAR.

Demolition of site buildings and infrastructure was undertaken in September 2013, followed by remedial works comprising of excavation and off-site disposal of soils. Asbestos-containing material was removed for the site however the potential for residual asbestos-impacted soils remains at the site. Therefore a Construction and Environmental Management Plan has been prepared and needs to be implemented for the site. The Construction and Environmental Management Plan dated May 2017 has been reviewed and endorsed by the contaminated sites auditor.

Based on the information provided, the site is suitable for high density residential land use as long as groundwater is not abstracted, soils remain paved and not disturbed and the auditor endorsed Construction and Environmental Management Plan is implemented.

The site is contaminated and has been remediated such that it is suitable for the proposed high density residential and commercial land use which excludes sensitive uses such as childcare centres, kindergartens, pre-schools and primary schools with access to soils, but may not be suitable for a more sensitive land use. Therefore, the site is classified as 'remediated for restricted use'.

A Construction Environmental Management Plan (dated May 2017) outlines management measures

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 09:19:36AM, 28/07/2020

for any activity (such as excavation) that may disturb the residual asbestos-impacted fill across the site.

DWER, in consultation with the Department of Health, has classified this site based on the information available to DWER 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 DWER, 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, DWER recommends that analytical testing should be carried out to determine whether the groundwater is suitable for its intended use.

#### **Action Required:**

Adoption of the Construction Environmental Management Plan (dated May 2017) for any activity (such as excavation) that may disturb the residual asbestos-impacted fill across the site.

#### **Certificate of Title Memorial**

Under the Contaminated Sites Act 2003, this site has been classified as "remediated for restricted use". For further information on the contamination status of this site, please contact Contaminated Sites at the Department of Water and Environmental Regulation.

#### **Current Regulatory Notice Issued**

**Type of Regulatory Notice:** *Nil*

**Date Issued:** *Nil*

#### **General**

No other information relating to this parcel.

#### **Disclaimer**

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## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 09:21:52AM, 28/07/2020

### Search Results

Receipt No:

ID No: 30055

This response relates to a search request received for:

12 Parry St  
Fremantle, WA, 6160

This parcel belongs to a site that contains 3 parcel(s).

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

|                     |  |
|---------------------|--|
| Address             | 12 Parry St<br>Fremantle, WA, 6160   |
| Lot on Plan Address | Lot 1 On Diagram 9418  |
| Parcel Status       | <p><b>Classification:</b> 16/01/2012 - <i>Remediated for restricted use</i></p> <p><b>Nature and Extent of Contamination:</b></p> <p>Hydrocarbons (such as from diesel or oil), the polycyclic aromatic hydrocarbons benzo(a)pyrene and pyrene and the heavy metal zinc are present in soils within the central portion of the site.</p> <p><b>Restrictions on Use:</b></p> <p>The land use of the site is restricted to high-density residential and commercial/industrial use which excludes childcare centres, kindergartens, pre-schools and primary schools. The site should not be developed for a more sensitive use such as recreational open space or childcare centres without further contamination assessment and remediation.</p> <p>Excavation or disturbance of soils beneath the Regional Power Area and Main Turbine Hall is restricted until further chemical testing and an assessment of the risk to site users is undertaken.</p> <p><b>Reason for Classification:</b></p> <p>This site was reported to the Department of Environment and Conservation (DEC) as per reporting obligations under section 11 of the 'Contaminated Sites Act 2003', which commenced on 1 December 2006. The Site classification is based on information submitted to DEC by September 2011.</p> <p>The site is comprised of Lot 1, 2 and 3 Parry Street, Fremantle and had historically been used as an electricity sub-station, involving the use and storage of electrical transformers. This is a land use that has the potential to cause contamination, as specified in the guideline 'Potentially Contaminating Activities, Industries and Landuses' (Department of Environment, 2004).</p> <p>The site has been subject to environmental investigations between 2010 and 2011, including soil and groundwater investigations and a remediation and validation report.</p> <p>The March and July 2010 soil investigations, identified hydrocarbons (such as from diesel or oil), polycyclic aromatic hydrocarbons (PAH's) and the pesticide chlordane within surface fill soil beneath</p> |

### Disclaimer

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 09:21:53AM, 28/07/2020

structures or pavement at concentrations exceeding Ecological Investigation Levels as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010). Hydrocarbons (such as from petrol or diesel) and PAH's also exceeded Health-based Investigation Levels for high density residential and commercial/industrial landuse, as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010).

The March and July 2010 groundwater investigations, identified the heavy metals zinc, copper and lead in groundwater beneath the site at concentrations exceeding 'Marine Water Aquatic Ecosystem' guidelines, as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010). Hydrocarbons (such as from diesel or oil) were previously identified in groundwater below adopted assessment criteria.

Between April and May 2011, remedial works were undertaken, involving the excavation of 264m<sup>3</sup> of soil and transportation to landfill. However, some impacted soil remains onsite buried beneath concrete floor and other building structures.

Following remedial works, hydrocarbons (such as from diesel or oil) and the polycyclic aromatic hydrocarbon (PAH) benzo(a)pyrene remained in soils at concentrations exceeding Health-based Investigation Levels for high density residential and commercial/industrial landuse, as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010). The PAH's benzo(a)pyrene and pyrene and the heavy metal zinc remained in soils exceeding Ecological Investigation Levels as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010). These soil impacts were localised to the former Main turbine Hall on Lot 1 and are located beneath a concrete pad.

The PAH benzo(a)pyrene also remained in groundwater at a neighbouring off-site bore at concentrations exceeding Australian Drinking Water Guidelines, as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010).

An Intermediate Risk Assessment has indicated that the contamination present on the site does not currently pose an unacceptable risk to human health, the environment or environmental values under the proposed commercial or high density residential landuse. However, the contamination may present an unacceptable risk to human health under a more sensitive land use such as primary schools and childcare centres.

As the site is contaminated but has been remediated such that it is suitable for the proposed commercial or high density residential landuse, but may not be suitable for a more sensitive landuse, the site is classified as 'remediated for restricted use'.

A memorial stating the site's classification has been placed on the Certificate of Title, and will trigger the need for further investigations and risk assessment should the site be proposed for development to a more sensitive land use.

DEC, in consultation with the Department of Health, has classified this site based on the information available to DEC 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 DEC, 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, DEC recommends that analytical testing should be carried out to determine whether the groundwater is suitable for its intended use.

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## ***Contaminated Sites Act 2003*** **Basic Summary of Records Search Response**

Report generated at 09:21:53AM, 28/07/2020

### **Certificate of Title Memorial**

Under the Contaminated Sites Act 2003, this site has been classified as "remediated for restricted use". For further information on the contamination status of this site, please contact the Contaminated Sites Branch of the Department of Environment & Conservation.

### **Current Regulatory Notice Issued**

**Type of Regulatory Notice:** *Nil*

**Date Issued:** *Nil*

### **General**

No other information relating to this parcel.

### **Disclaimer**

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## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 09:09:20AM, 28/07/2020

Receipt No:

ID No: 69253

### Search Results

This response relates to a search request received for:

1 Cliff St

Fremantle, WA, 6160

Lot 51 on Deposited Plan 70786 as shown as Subject C on Deposited Plan 407834, on certificate of title 2846/998 known as 1 Cliff Street, Fremantle WA 6160

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

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

### Address

1 Cliff St

Fremantle, WA, 6160

Lot 51 on Deposited Plan 70786 as shown as Subject C on Deposited Plan 407834, on certificate of

### Parcel Status

**Classification:** 12/08/2016 - *Contaminated - remediation required*

#### Nature and Extent of Contamination:

Hydrocarbons (such as from petrol, oil or diesel) and heavy metals are present in soil.

Hydrocarbons (such as from petrol, oil or diesel) and heavy metals are present in groundwater beneath the site.

#### Restrictions on Use:

Groundwater beneath the site is not suitable for use without treatment for the presence of hydrocarbons (such as from petrol, oil or diesel) contamination.

#### Reason for Classification:

The site was originally reported to the Department of Environment Regulation (DER) prior to the commencement of the 'Contaminated Sites Act 2003' (the Act). The site was first classified under section 13 of the Act based on information submitted to DER by January 2009. These reasons for classification have been updated to reflect additional technical information submitted to DER by July 2016.

This site, defined as subject "C" on Interest Only Deposited Plan 407834, has historically been used for port and railway related activities as part of the southern Fremantle Port operations, known as Victoria Quay. The historic port and railway activities at the site included underground fuel storage and fuel dispensing infrastructure. These are land uses that have the potential to cause contamination, as specified in the guideline 'Assessment and management of contaminated sites' (DER, 2014).

Victoria Quay has been subject to a number of soil and groundwater investigations from 2002 to 2014.

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 09:09:20AM, 28/07/2020

Soil investigations in 2009 identified lead and hydrocarbons (such as from petrol, oil or diesel), including polycyclic aromatic hydrocarbons such as benzo(a)pyrene, in soils at concentrations exceeding the Ecological Investigation Levels (EILs) and Health-based Investigation Levels for commercial and industrial uses as published in the 'National Environment Protection (Assessment of Site Contamination) Measure 1999' (the NEPM).

Groundwater investigations, carried out since 2009, observed light non-aqueous phase liquid (LNPL) floating on the surface of groundwater. The most recent groundwater investigation in 2014 found that LNPL (such as from petrol/diesel) continue to be present on the surface of groundwater beneath the site.

The investigations and associated risk assessment works were the subject of an independent review by an accredited contaminated sites auditor who provided a mandatory auditor's report (MAR) dated June 2016. The MAR recommended that the site is contaminated and remediation is required for future redevelopment of the site. DER accepts the findings of the MAR.

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.

#### **Action required:**

As remediation of the site is required, remedial options must be assessed and a remediation action plan developed for the site.

Due to the presence of hydrocarbons in soils and groundwater, DER recommends that a site-specific health and safety plan be developed to address the health risks associated with intrusive site works.

An environmental risk assessment is required to determine the risk to the marine environment of Inner Harbour from contaminants at the site.

#### **Certificate of Title Memorial**

Under the Contaminated Sites Act 2003, this Site has been classified as "Contaminated - remediation required". For further information on the contamination status of this Site, please contact the Contaminated Sites section of the Department of Environment & Conservation.

#### **Current Regulatory Notice Issued**

**Type of Regulatory Notice:** *Nil*

**Date Issued:** *Nil*

#### **General**

No other information relating to this parcel.

#### **Disclaimer**

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## Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report generated at 09:06:28AM, 28/07/2020

### Search Results

Receipt No:

ID No: 62283

This response relates to a search request received for:

1 Cliff St

Fremantle, WA, 6160

Lot 51 on Deposited Plan 70786 as shown as Subject B on Deposited Plan 407834, on certificate of title 2846/998 known as 1 Cliff Street, Fremantle WA 6160

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

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

### Address

1 Cliff St

Fremantle, WA, 6160

Lot 51 on Deposited Plan 70786 as shown as Subject B on Deposited Plan 407834, on certificate of

### Parcel Status

**Classification:** 12/08/2016 - *Remediated for restricted use*

#### Nature and Extent of Contamination:

Hydrocarbons (such as from petrol, oil or diesel) and heavy metals are present in soil.

Hydrocarbons (such as from petrol, oil or diesel) and heavy metals are present in groundwater beneath the site.

#### Restrictions on Use:

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 remediation.

Due to the presence of hydrocarbons in soil, a site-specific health and safety plan is required to address the risks to the health of any workers undertaking intrusive works until further notice.

Groundwater beneath the site is not suitable for use without treatment for the presence of hydrocarbons (such as from petrol, oil or diesel) contamination.

#### Reason for Classification:

The site was originally reported to the Department of Environment Regulation (DER) prior to the commencement of the 'Contaminated Sites Act 2003' (the Act). The site was first classified under section 13 of the Act based on information submitted to DER by December 2013. These reasons for classification have been updated to reflect additional technical information submitted to DER by July 2016.

This site, defined as subject "B" on Interest Only Deposited Plan 407834, has historically been used

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 09:06:28AM, 28/07/2020

for port and railway related activities as part of the southern Fremantle Port operations, known as Victoria Quay. The historic port and railway activities at the site included underground fuel storage and fuel dispensing infrastructure. These are land uses that have the potential to cause contamination, as specified in the guideline 'Assessment and management of contaminated sites' (DER, 2014).

Fuel infrastructure and associated soils impacts were removed in 1980s. A number of soil and groundwater investigations have subsequently been carried out for characterisation and future redevelopment of broader Victoria Quay for commercial use.

Soil investigations in 2009 identified lead and hydrocarbons (such as from petrol, oil or diesel), including polycyclic aromatic hydrocarbons such as benzo(a)pyrene, in soils at concentrations exceeding the Ecological Investigation Levels (EILs) and the Health-based Investigation Levels for commercial and industrial uses as published in the 'National Environment Protection (Assessment of Site Contamination) Measure 1999' (the NEPM).

Non aqueous phase hydrocarbons (such as from petrol, oil or diesel) and an associated dissolved phase hydrocarbon plume were identified in the groundwater beneath the site. Polycyclic aromatic hydrocarbons were present in groundwater at concentrations exceeding Aquatic Ecosystem Marine Water Quality guidelines, as published in 'Assessment and management of contaminated sites' (DER 2014).

Groundwater was subject to remediation between December 2009 and June 2010, using a combination of in situ oxidation and extraction of hydrocarbons, to reduce the hydrocarbon concentrations to below relevant screening levels for commercial/industrial land use. Subsequent groundwater monitoring demonstrated that remediation was successful.

The most recent groundwater monitoring round in October 2014 found that hydrocarbons (such as from petrol/diesel) were present in groundwater at concentrations exceeding the relevant groundwater Health Screening Levels (HSLs) for vapour intrusion for residential land use, but below the HSLs for vapour intrusion for commercial/industrial land use, as published in the NEPM.

Benzo(a)pyrene and arsenic were also present in groundwater at concentrations exceeding domestic non-potable groundwater use guidelines as published in 'Assessment and management of contaminated sites' (DER 2014).

A multi storey commercial precinct, with hardstand, is proposed at the site as part of Victoria Quay Waterfront Redevelopment.

An intermediate risk assessment has indicated that the contamination present on the site does not currently pose an unacceptable risk to human health, the environment or environmental values under the proposed commercial/industrial land use. However, the contamination may present an unacceptable risk to human health under a more sensitive land use.

Based on the available information, the site appears suitable for continued commercial/industrial land use. However, further assessment of potential contamination should be undertaken before any change to a more sensitive land use (e.g. residential housing, childcare centres).

The investigations and risk assessment works were subject of an independent review by an accredited contaminated sites auditor who provided a mandatory auditor's report (MAR) dated June 2016. The MAR recommended that the site is suitable for the proposed commercial/industrial land

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## **Contaminated Sites Act 2003**

### **Basic Summary of Records Search Response**

Report generated at 09:06:28AM, 28/07/2020

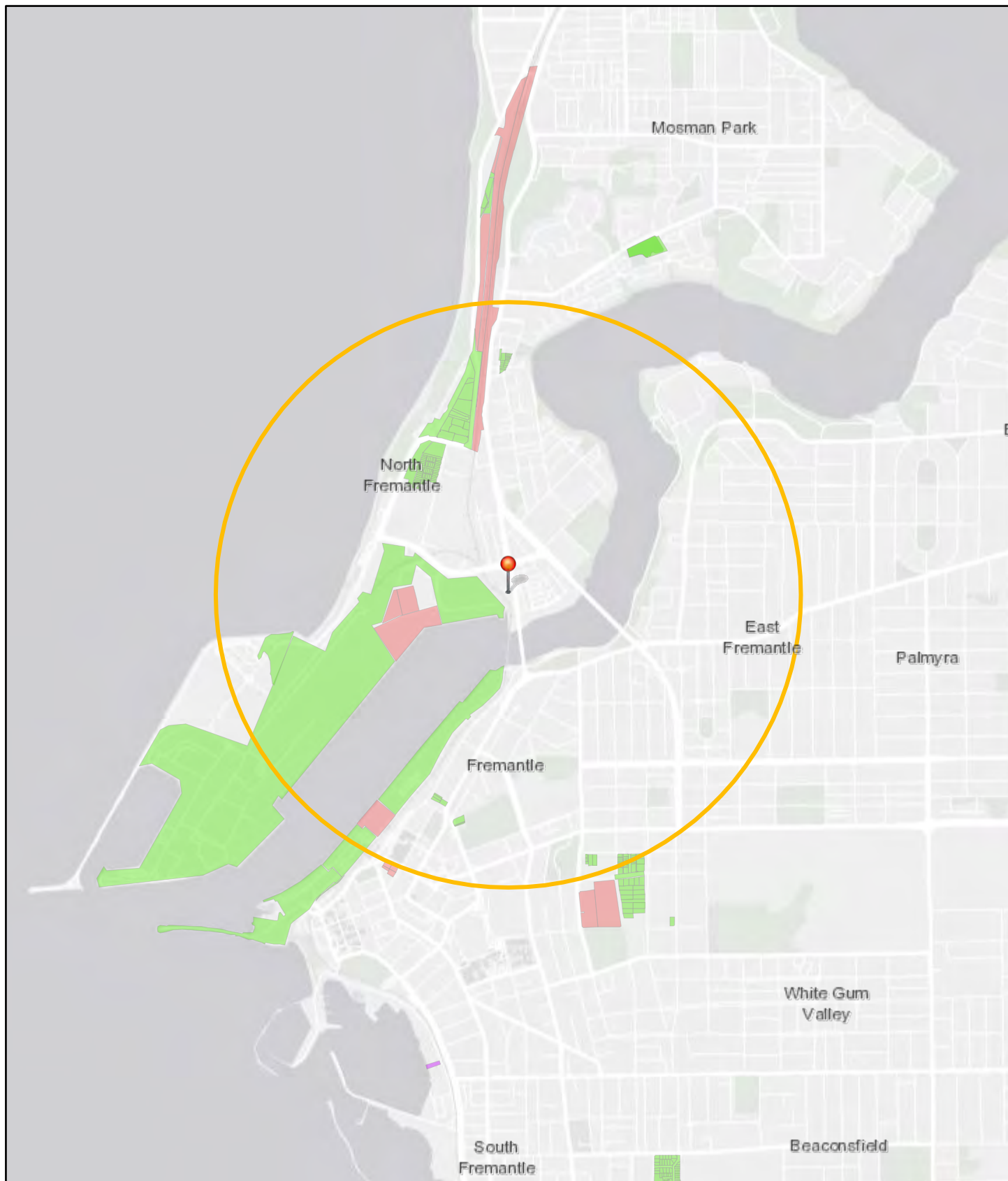
|   |  |
|---|--|
|   | <p>use. DER accepts the findings of the MAR.</p> <p>As the site is contaminated and has been remediated such that it is suitable for the proposed commercial landuse, but may not be suitable for a more sensitive landuse, the site is classified as 'remediated for restricted use'.</p> <p>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.</p> <p>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.</p> <p><b>Action required:</b></p> <p>Due to the presence of hydrocarbons in soils and groundwater, DER recommends that a site-specific health and safety plan be developed to address the health risks associated with intrusive site works.</p> |
| <b>Certificate of Title Memorial</b>    | <p>Under the Contaminated Sites Act 2003, this site has been classified as "remediated for restricted use". For further information on the contamination status of this site, please contact the Contaminated Sites Branch of the Department of Environment Regulation.</p>  |
| <b>Current Regulatory Notice Issued</b> | <p><b>Type of Regulatory Notice:</b> <i>Nil</i></p> <p><b>Date Issued:</b> <i>Nil</i></p>  |
| <b>General</b>                          | <p>No other information relating to this parcel.</p>   |

#### **Disclaimer**

This Summary of Records has been prepared by Department of Water and Environmental Regulation (DWER) as a requirement of the Contaminated Sites Act 2003. DWER 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 DWER, 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.



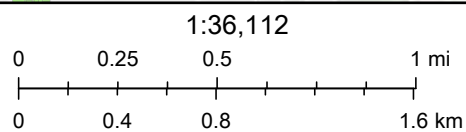
# Contaminated sites



27/07/2020, 1:12:12 pm

## Contaminated Sites Database

- Contaminated - remediation required
- Contaminated - restricted use
- Remediated for restricted use



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community



## Appendix H

### Prescribed Premises



Mr Scott Olsen  
State Manager  
SAMI Bitumen Technologies Pty Ltd  
PO Box 167  
NORTH FREMANTLE WA 6159

Dear Mr Olsen

**ENVIRONMENTAL PROTECTION ACT 1986: LICENCE GRANTED**

**Premises:**

SAMI Bitumen North Fremantle Bitumen Plant  
Part Lot 1 on Plan 23900 (Lot N75) Port Beach Road, North Fremantle  
**Licence Number:** L8886/2015/1

A licence under the *Environmental Protection Act 1986* (the Act) has been granted for the above premises. The Department of Environment Regulation will advertise the issuing of this licence in the public notices section of *The West Australian* newspaper.

The licence includes attached conditions. Under section 58(1) of the Act, it is an offence to contravene a condition of a licence. This offence carries a penalty of up to \$125,000 and a daily penalty of up to \$25,000.

In accordance with section 102(1)(c) of the Act, you have 21 days to appeal the conditions of the licence. Under section 102(3)(a) of the Act, any other person may also appeal the conditions of the licence. To lodge an appeal contact the Office of the Appeals Convenor on 6467 5190 or by email at [admin@appealsconvenor.wa.gov.au](mailto:admin@appealsconvenor.wa.gov.au).

Where a licence is issued for more than one year it requires payment of an annual fee and will cease to have effect if the fee is unpaid. It is the occupier's responsibility to lodge a fee application and pay the annual fee in sufficient time to avoid incurring a late payment fee and for processing to be completed before the licence anniversary date.

If you have any queries regarding the above information, please contact Peter Johns on 9333 7522.

Yours sincerely

Ed Schuller  
Officer delegated under section 20  
of the *Environmental Protection Act 1986*

21 April 2015



## LICENCE FOR PRESCRIBED PREMISES

### *Environmental Protection Act 1986*

LICENCE NUMBER: L8886/2015/1

FILE NUMBER DER2013/002350

#### LICENSEE AND OCCUPIER OF PREMISES

SAMI Bitumen Technologies Pty Ltd  
12 Grand Avenue  
CAMELLIA NSW 2142  
ACN: 001 089 416

#### NAME AND LOCATION OF PREMISES

SAMI North Fremantle Bitumen Plant  
Part of Lot 1 (Lot N75) on Plan 23900  
Port Beach Road  
NORTH FREMANTLE, WA 6159

#### PRESCRIBED PREMISES CATEGORY

Schedule 1 of the *Environmental Protection Regulations 1987*

| CATEGORY | DESCRIPTION  | CAPACITY  |
|----------|--|---|
| 36       | Bitumen Manufacturing: premises on which bitumen is mixed or prepared for use at places or premises other than those premises. | More than 10,000 but not more than 50,000 tonnes per year |

#### CONDITIONS OF LICENCE

Subject to the conditions of licence set out in the attached pages.

Officer delegated under Section 20  
of the *Environmental Protection Act 1986*

ISSUE DATE Tuesday, 21 April 2015

COMMENCEMENT DATE: Tuesday, 21 April 2015

EXPIRY DATE: Monday, 20 April 2020

# CONDITIONS OF LICENCE

## *Environmental Protection Act 1986*

LICENCE NUMBER L8886/2015/1

FILE NUMBER DER2013/002350

### DEFINITIONS

AS 1940:2004 - The storage and handling of flammable and combustible liquids.

"Director" means Director, Environmental Regulation Division of the Department of Environment and Conservation for and on behalf of the Chief Executive Officer as delegated under Section 20 of the *Environmental Protection Act 1986*;

"Director" or "Department of Environment and Conservation" for the purpose of correspondence means-

Manager Licensing (Greater Swan)  
Department of Environment Regulation  
Locked Bag 33  
CLOISTERS SQUARE WA 6850  
Telephone: (08) 9333 7510  
Facsimile: (08) 9333 7550  
Email: grswanbooragoon@der.wa.gov.au;

"Manual odour source monitoring program" means a monitoring program for odour source assessment based on point-in-time measurements and sampling, contrary to a continuous monitoring program;

"NATA" means National Association of Testing Authorities;

"Normal Operating Conditions" means normal operations of the bitumen plant, including the production of batches of Polymer Modified Bitumen (PMB) and the natural respiration of the storage tanks at the premises, excluding Worst Case Scenario Conditions;

"premises" means SAMI North Fremantle Bitumen Plant on Part of Lot 1 (Lot N75) on Plan 23900, Beach Road, North Fremantle as depicted in **Attachment1**;

"Worst-Case Scenario Conditions" means non- standard operations of the bitumen plant, including start-up, shut-down, maintenance, emergency response and tank refilling activities all of which result in an increase to the emissions from the premises.

### GENERAL CONDITIONS

#### COMPLAINTS RECORDING

1. The licensee shall accurately record all complaints received concerning the environmental impact arising from activities at the premises and submit a complete copy of these records with the Annual Monitoring Report required by condition 2. The record must be in a form of a bound volume with numbered pages and must record the following:
  - (i) the date and time of the complaint;
  - (ii) location from which the problem arose (if known);
  - (iii) a general description/nature of the complaint;
  - (iv) any on-site activities (if any) that may have led to the complaint;
  - (v) wind direction, wind speed and temperature at the time of the complaint;
  - (vi) likely source of the reported problem; and
  - (vii) action taken in response to the complaint.

# CONDITIONS OF LICENCE

## *Environmental Protection Act 1986*

LICENCE NUMBER L8886/2015/1

FILE NUMBER DER2013/002350

### ANNUAL MONITORING REPORT

2. The licensee shall submit to the Director, by **1 February** each year, an Annual Monitoring Report containing all records required by any condition of this licence obtained during the period beginning **1 January** the previous year and ending on **31 December** in that year.

### ANNUAL AUDIT COMPLIANCE REPORT

3. The licensee shall by **1 February** in each year, provide to the Director an Annual Audit Compliance Report in the form in **Attachment 2** to this licence, signed and certified in the manner required by Section C of the form, indicating the extent to which the Licensee has complied with the conditions of this licence, and any previous licence issued under Part V of the Act for the premises, during the period beginning **1 January** the previous year and ending on **31 December** in that year.

### EMISSION TO AIR

#### ODOUR CONTROL

4. The licensee shall ensure that odour emitted from the premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the premises.

### MONITORING CONDITIONS

#### MONITORING OF VOLATILE ORGANIC COMPOUNDS (VOCs) and ODOURS

- 5(a) The licensee shall undertake an air emission monitoring program of volatile organic compounds (VOCs) and odours at the locations specified in Column 1 of Table 1 which measures all the parameters specified in Column 2 of Table 1 using the respective sampling and analysis methods specified in Column 3 of Table 1 in the units specified in Column 4 of Table 1.

**Table 1. Monitoring of Volatile Organic Compounds (VOCs) and Odours**

| Column 1                                 | Column 2   | Column 3                       | Column 4          |
|--|--|--------------------------------|-------------------|
| Source/sampling location                 | Parameters to be measured  | Sampling/Analysis method       | Units             |
| Vapour Recovery Unit Inlet               | Benzene, Toluene, Xylenes (as a total of ortho, meta and para isomers) and Total VOC (as n-hexane) | USEPA Method 18 <sup>(2)</sup> | mg/m <sup>3</sup> |
| Vapour Recovery Unit Outlet              |  |                                |                   |
| Emulsion Tank Vent <sup>(1)</sup>        | Odour concentration  | AS 4323.3:2001                 | ou                |
| Bitumen Storage Tank Vent <sup>(1)</sup> | Volumetric flow rate   | USEPA Method 2                 | m <sup>3</sup> /s |
| Kerosene Tank Vent <sup>(1)</sup>        |  |                                |                   |

(1) Sampling required for one tank only for each emulsion, bitumen and kerosene product.

(2) Measurement of Gaseous Organic Compound Emissions by Gas Chromatography (USEPA, 2000)

# CONDITIONS OF LICENCE

## *Environmental Protection Act 1986*

LICENCE NUMBER L8886/2015/1

FILE NUMBER DER2013/002350

- 5(b) The licensee shall ensure the air emission monitoring program required by condition 5(a) is carried out at the monitoring frequency specified in Column 2 of Table 2 for the respective sampling location specified in Column 1 of Table 2.

**Table 2. Frequency of monitoring**

| Column 1                                 | Column 2             |
|--|----------------------|
| Source/sampling location                 | Monitoring Frequency |
| Vapour Recovery Unit Inlet               | Annually             |
| Vapour Recovery Unit Outlet              |                      |
| Emulsion tank vent <sup>(1)</sup>        |                      |
| Bitumen Storage Tank vent <sup>(1)</sup> |                      |
| Kerosene Tank vent <sup>(1)</sup>        |                      |

- 6(a) The licensee shall calculate the odour abatement efficiency of the Vapour Recovery Unit in accordance with section 12.5 of the Australian Standard AS4323.3.2001, using the odour emission rates (OER) measured at the inlet and at the outlet of the Vapour Recovery Unit required to be monitored by condition 5(a) with the monitoring frequency required by condition 5(b).
- 6(b) The licensee shall demonstrate that the odour abatement efficiency of the Vapour Recovery Unit is not less than 95% at any time.

### REPORTING OF VOLATILE ORGANIC COMPOUNDS(VOCs) AND ODOURS MONITORING

- 7 The licensee shall provide a complete copy of the report, required by conditions 5(a), 5(b), 6(a) and 6(b) to the CEO in the Annual Monitoring Report as required by condition.

### WASTE MINIMISATION / REMOVAL / STORAGE

#### CHEMICAL STORAGE

- 11 The licensee shall store all environmentally hazardous chemicals including process waste waters, chemical solutions, fuel, oil or other hydrocarbons (where the total volume of each substance stored on the premises exceeds 250 litres) within low permeability ( $1 \times 10^{-9}$  metres per second or less) compound(s) designed to contain not less than 110% of the volume of the largest storage vessel or inter-connected system, and at least 25% of the total volume of substances stored in the compound.
- 12 The compound described in condition 11 shall:
- (i) be graded or include a sump to allow recovery of liquid;
  - (ii) be chemically resistant to the substances stored;



# CONDITIONS OF LICENCE

## *Environmental Protection Act 1986*

LICENCE NUMBER L8886/2015/1

FILE NUMBER DER2013/002350

- (iii) include valves, pumps and metres associated with transfer operations wherever practical. Otherwise the equipment shall be adequately protected (e.g. bollards) and contained in an area designed to permit recovery of spilled chemicals;
  - (iv) be designed such that jetting from any storage vessel or fitting will be captured within the bunded area in accordance with Australian Standard 1940-2004;
  - (v) be designed such that chemicals which may react dangerously if they come into contact, are in separate bunds in the same compound or in different compounds; and
  - (vi) be controlled such that the capacity of the bund is maintained at all times (e.g. regular inspection and pumping of trapped uncontaminated rain water).
- 13 The licensee shall recover, or remove and dispose of, any liquid resulting from spills or leaks of chemicals including process wastewaters, chemical solutions, fuel, oil or other hydrocarbons, whether inside or outside the low permeability compound(s).

### DISCHARGE TO WATER

#### WASTEWATER MANAGEMENT

- 14(a) The licensee shall ensure all wastewater from the premises is directed to the wastewater treatment system, as depicted in **Attachment 3**, for treatment prior to its discharge to the sewer.
- 14(b) The licensee shall not discharge any untreated wastewater to the environment.

#### STORMWATER MANAGEMENT

- 15(a) The licensee shall ensure all stormwater at the premises is collected in the stormwater collection sumps.
- 15(b) The licensee shall direct all captured stormwater to the oil/water separator for treatment.
- 15(c) The licensee shall ensure that all water stored prior to discharge to the environment is sampled and monitored for the parameters stated in Column 2 of Table 3, at the sample location stated in Column 1 of Table 3.

**Table 3. Treated effluent discharge monitoring**

| Column 1  | Column 2                                | Column 3          |
|---|---|-------------------|
| Sample Location   | Parameter                               | Discharge Limit   |
| Final containment prior to discharge to the environment | pH                                      | Between 6 and 8   |
|   | TSS                                     | Less than 80 mg/L |
|   | Hydrocarbons (including oil and grease) | Less than 10 mg/L |

- 15(d) The licensee shall ensure all water samples are collected and preserved in accordance with Australian/New Zealand Standard AS/NZS 5667.1:1998.

# **CONDITIONS OF LICENCE**

## ***Environmental Protection Act 1986***

**LICENCE NUMBER** L8886/2015/1

**FILE NUMBER** DER2013/002350

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- 15(e) The licensee shall submit all water samples, required to be sampled by condition 15(c), to a laboratory with current NATA registration for the analyses specified and analysed in accordance with the current "Standard Methods for Examination of Water and Wastewater-APHA-AWWA-WEF".

### **MAINTENANCE OF DRAINAGE SYSTEM**

- 15(f) The licensee shall maintain and clean out any drains, oil traps and sumps as appropriate to ensure the continued effective operation of the system.
- 15(g) The licensee shall ensure that contaminated water is not discharged from the premises unless it meets the discharge limit criteria stated in Column 3 of Table 3 for the parameter stated in Column 2 of Table 3.

# CONDITIONS OF LICENCE

## *Environmental Protection Act 1986*

LICENCE NUMBER L8886/2015/1

FILE NUMBER DER2013/002350

### Plan of Premises

#### Attachment 1



## ATTACHMENT 2 – ANNUAL AUDIT COMPLIANCE REPORT

LICENCE NUMBER L8886/2015/1

FILE NUMBER DER2013/002350

### **SECTION A**

#### **LICENCE DETAILS**

|                                  |                      |
|----------------------------------|----------------------|
| Licence Number:                  | Licence File Number: |
| Company Name:                    | ABN:                 |
| Trading as:                      |                      |
| Reporting period: _____ to _____ |                      |

#### **STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS**

1. Were all conditions of licence complied with within the reporting period? (please tick the appropriate box)

Yes ☐ Please proceed to Section C  
No ☐ Please proceed to Section B

Each page must be initialed by the person(s) who signs Section C of this annual audit compliance report

INITIAL: \_\_\_\_\_

## ATTACHMENT 2 – ANNUAL AUDIT COMPLIANCE REPORT

LICENCE NUMBER L8886/2015/1

FILE NUMBER DER2013/002350

### **SECTION B - DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.**

Please use a separate page for each licence condition that was not complied with.

|   |                             |
|---|-----------------------------|
| a) Licence condition not complied with?   |                             |
|   |                             |
| b) Date(s) when the non compliance occurred, if applicable?   |                             |
|   |                             |
| c) Was this non compliance reported to DEC?   |                             |
| <input type="checkbox"/> Yes <input type="checkbox"/> Reported to DEC verbally    Date _____<br><input type="checkbox"/> Reported to DEC in writing    Date _____ | <input type="checkbox"/> No |
| d) Has DEC taken, or finalised any action in relation to the non compliance?  |                             |
|   |                             |
| e) Summary of particulars of non compliance, and what was the environmental impact?   |                             |
|   |                             |
| f) If relevant, the precise location where the non compliance occurred (attach map or diagram)  |                             |
|   |                             |
| g) Cause of non compliance  |                             |
|   |                             |
| h) Action taken or that will be taken to mitigate any adverse effects of the non compliance   |                             |
|   |                             |
| i) Action taken or that will be taken to prevent recurrence of the non compliance   |                             |
|   |                             |

Each page must be initialed by the person(s) who signs Section C of this annual audit compliance report

INITIAL: \_\_\_\_\_

## ATTACHMENT 2 – ANNUAL AUDIT COMPLIANCE REPORT

LICENCE NUMBER L8886/2015/1

FILE NUMBER DER2013/002350

### SECTION C - SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report may only be signed by a person(s) with legal authority to sign it. The ways in which the Annual Audit Compliance Report must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this Annual Audit Compliance Report is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

| If the licence holder is                           |                          | The Annual Audit Compliance Report must be signed and certified:   |
|--|--------------------------|--|
| an individual                                      | <input type="checkbox"/> | by the individual licence holder, or   |
|  | <input type="checkbox"/> | by a person approved in writing by the Chief Executive Officer of the Department of Environment and Conservation to sign on the licensee's behalf.                       |
| A firm or other unincorporated company             | <input type="checkbox"/> | by the principal executive officer of the licensee; or   |
|  | <input type="checkbox"/> | by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment and Conservation. |
| A corporation                                      | <input type="checkbox"/> | by affixing the common seal of the licensee in accordance with the Corporations Act 2001; or   |
|  | <input type="checkbox"/> | by two directors of the licensee; or   |
|  | <input type="checkbox"/> | by a director and a company secretary of the licensee, or  |
|  | <input type="checkbox"/> | if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or  |
|  | <input type="checkbox"/> | by the principal executive officer of the licensee; or   |
|  | <input type="checkbox"/> | by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment and Conservation. |
| A public authority (other than a local government) | <input type="checkbox"/> | by the principal executive officer of the licensee; or   |
|  | <input type="checkbox"/> | by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment and Conservation. |
| a local government                                 | <input type="checkbox"/> | by the chief executive officer of the licensee; or   |
|  | <input type="checkbox"/> | by affixing the seal of the local government.  |

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

NAME: (printed) \_\_\_\_\_

NAME: (printed) \_\_\_\_\_

POSITION: \_\_\_\_\_

POSITION: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

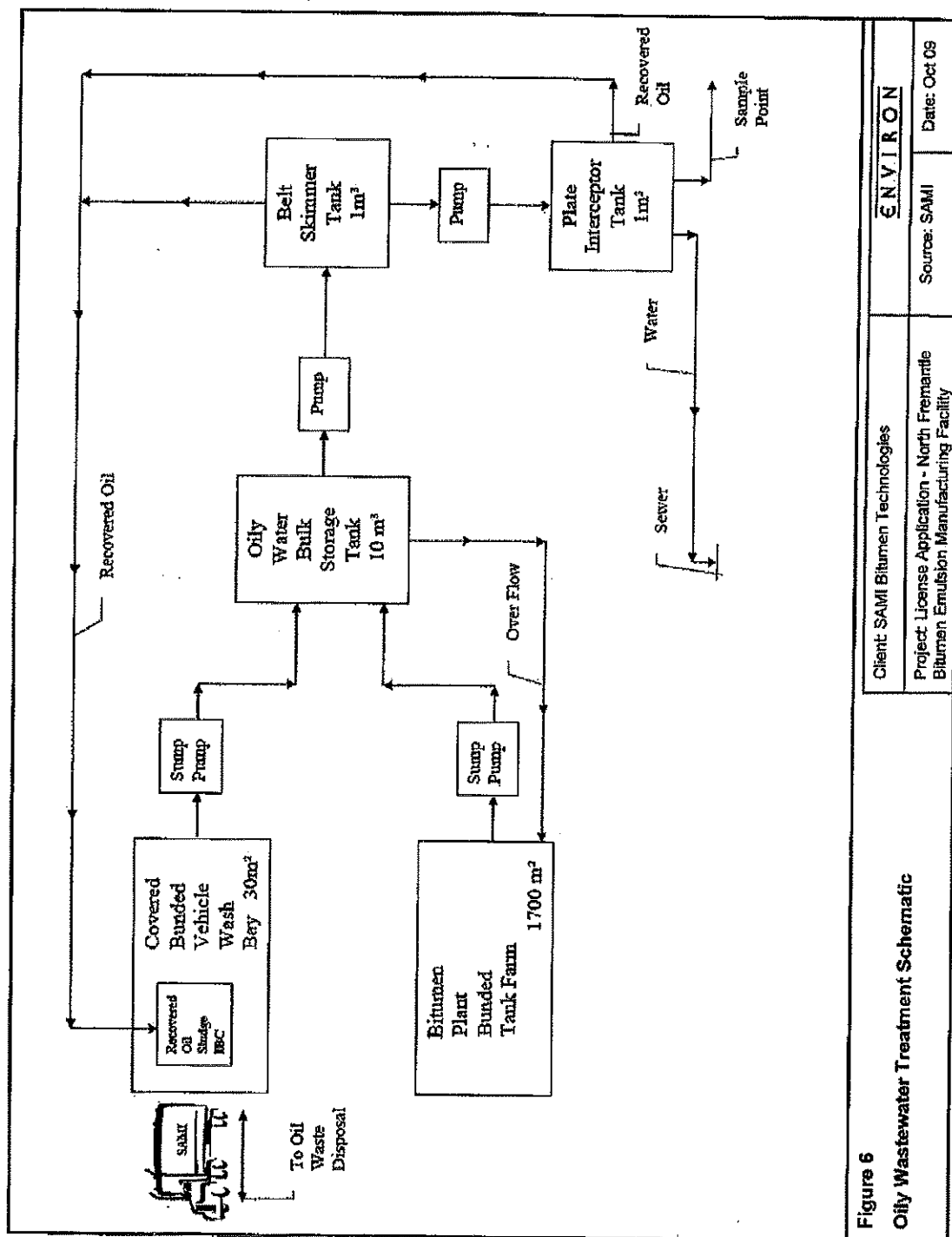
DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

SEAL (if signing under seal)



## Attachment 3: Wastewater Treatment System

Attachment 4





# Decision Document

## *Environmental Protection Act 1986, Part V*

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**Proponent:** SAMI Bitumen Technologies

**Licence:** L8886/2015/1

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**Registered office:** 3-5 Gibson Road  
WINSTON HILLS NSW 2153

**ACN:** 001 089 416

**Premises address:** North Fremantle Bitumen Plant  
Cnr Birksgate and Port Beach Road  
NORTH FREMATLE WA 6159  
Being Lot 123 on Plan 12345

**Issue date:** Tuesday, 21 April 2015

**Commencement date:** Tuesday, 21 April 2015

**Expiry date:** Monday, 20 April 2020

### Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER), has decided to issue licence. DER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by: Peter Johns  
Licensing Officer

Decision Document authorised by: Ed Schuller  
Manager Licensing



## Contents

|  |                              |
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| 3 Executive summary of proposal and assessment | 4                            |
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| 6 Risk Assessment                              | 8                            |
| Appendix A                                     | Error! Bookmark not defined. |

## 1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

### Works approval and licence conditions

DER has three types of conditions that may be imposed on works approvals and licences. They are as follows;



## 2 Administrative summary

| Administrative details   |   |   |
|--|---|---|
| Application type   | Works Approval <input type="checkbox"/><br>New Licence <input checked="" type="checkbox"/><br>Licence amendment <input type="checkbox"/><br>Works Approval amendment <input type="checkbox"/> |   |
| Activities that cause the premises to become prescribed premises   | Category number(s)  | Assessed design capacity  |
|  | 36  | 15 000 tonnes per year  |
|  |   |   |
|  |   |   |
| Application verified   | Date: 8 April 2015  |   |
| Application fee paid   | Date: 9 April 2015  |   |
| Works Approval has been complied with  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>  |   |
| Compliance Certificate received  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>  |   |
| Commercial-in-confidence claim   | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>   |   |
| Commercial-in-confidence claim outcome   | N/A   |   |
| Is the proposal a Major Resource Project?  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>   |   |
| Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>   | Referral decision No:<br>Managed under Part V <input type="checkbox"/><br>Assessed under Part IV <input type="checkbox"/> |
| Is the proposal subject to Ministerial Conditions?   | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>   | Ministerial statement No:<br>EPA Report No:   |
| Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i> )?   | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                      |   |
| Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>If Yes include details of which EPP(s) here.                                 |   |   |
| Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>If Yes, include details here, eg Site is subject to SO <sub>2</sub> requirements of Kwinana EPP. |   |   |





### 3 Executive summary of proposal and assessment

SAMI Bitumen technologies Pty Ltd manufactures bitumen based road surfacing products. The company was incorporated in 1973 and is based in Camellia, Australia.

Bulk bitumen is imported from Asia and stored by SAMI Bitumen Technologies at the North Fremantle Bitumen Plant. Depending on client requirements, the bitumen is exported from the site as unmodified product or may be processed onsite into various grades of bitumen emulsion or polymer modified bitumen (PMB).

The prescribed premises is located within land vested in the Fremantle Port Authority (FPA) under the *Port Authorities Act 1999*. The site is located on Lot N75 Port Beach Rd, alongside Berth 1 of the inner harbour in the industrial area of Rous Head in North Fremantle. The site is also zoned "Port Installations" under the Metropolitan Region Scheme (MRS) and "Public Utility" under the Fremantle, Local Planning Scheme No 4. The nearest sensitive receptors for odour are commercial premises 650 metres to south in Philmore Street Fremantle.

Processes on site are:

- Bitumen is off loaded from ships and pumped to storage vessels on the premises,
- Bitumen may be transferred directly to the load out truck gantry or the bitumen emulsion plant or PMB plant,
- Manufacture of PMB by addition of thermoplastic synthetic rubbers to bitumen in a mixing vessel where it is then transferred to one of six PMB storage tanks.
- Manufacture of bitumen emulsion by dispersion of finely divided bitumen in water using emulsifying agents.
- Road tanker load out of PMB and bitumen emulsion.

The site is paved of bitumised across its whole area and administered by the Fremantle Port Authority. The bitumen plant is located within a 1 metre high concrete bund wall and the six PMB tanks and six emulsion tanks are located within additional bunds inside the compound.

Tanker loading gantries are cocated over gradet concrete hardstand.

Potentially contaminated stormwater and wastewater from the bunded areas and a covered vehicle wash down area are collected and directed to a wastewater tank. The water is treated with a belt skimmer and plate separator before being discharged under licence to the Water Corporation sewer. Waste oil is collected by a licensed contractor.

This licence is the successor of licence L8393/2009/1 which expired. The previous licence was risk assessed by an Environmental Assessment Report.

This is a partial decision document for the issue of this licence and DER has not re-assessed all the emissions from the site. Some conditions from the previous licence have been amended because they are no longer applicable and the decision document addresses these changes. The licence will reviewed and amended to the REFIRE format within the next 2 months.

## 4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987*, DEC's Policy Statement - Limits and targets for prescribed premises (2006), and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

### DECISION TABLE

| Licence section                                    | Condition number  | OSC or NSC | Justification (including risk description & decision methodology where relevant)   | Reference documents                  |
|--|---|------------|--|--------------------------------------|
| Point source emissions to air including monitoring | Amendment to condition 5(b) of previous licence.<br><br>Deletion of conditions 6 and 7 of previous licence. | NSC        | <p><b>Operation</b></p> <p><u>Emission Description</u><br/> <i>Emission:</i> Emissions of Volatile Organic Compounds (VOCs) from the tanks and reaction vessels. Emissions during filling and transfer of organic liquids.<br/> <i>Impact:</i> Reduced local air quality including odour nuisance and contribution to overall photochemical smog.<br/> <i>Controls:</i> Most bitumen compounds have low volatility at normal temperatures however some of the tanks are heated to keep the products liquid. Heated tanks have thermostatic controls to prevent bitumen products overheating causing volatilisation of VOCs. Thermostatic controls are monitored and checked at least twice daily.<br/> In addition to thermostatic controls a vapour recovery system is in place directing displaced and captured vapours to an activated carbon recovery system prior to stack release.</p> <p><u>Risk Assessment</u><br/> <i>Consequence:</i> Minor<br/> <i>Likelihood:</i> Unlikely<br/> <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u><br/> Condition 5(b) in the previous licence required that VOC emissions from a number of possible sources on the premises be monitored monthly. Conditions 6 and 7 in the previous licence required that SAMI bitumen prepare a report with</p> | Application supporting documentation |



# DECISION TABLE

| Licence section | Condition number | OSC or NSC | Justification (including risk description & decision methodology where relevant)  | Reference documents |
|-----------------|------------------|------------|---|---------------------|
|                 |                  |            | <p>modelling based on the measured emissions to determine the possible impacts of the VOC emissions.<br/> DER received the final report 28 September 2012 and is satisfied that the VOC emissions are low enough to have minimal impact providing the VOC recovery systems are maintained.<br/> Condition 5(b) has been amended to reduce the VOC emissions monitoring from monthly to annually.<br/> Conditions 6 and 7 of the previous licence have been removed as they are no longer applicable since the report was submitted.</p> <p><u>Residual Risk</u><br/> Consequence: Minor<br/> Likelihood: Unlikely<br/> Residual Risk Rating: Moderate</p> |                     |



## 5 Advertisement and consultation table

| Date      | Event   | Comments received/Notes | How comments were taken into consideration |
|-----------|---|-------------------------|--|
| 13/4/2015 | Application advertised in West Australian (or other relevant newspaper) | No Comments received    | Not applicable.                            |



## 6 Risk Assessment

*Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management*

**Table 1: Emissions Risk Matrix**

| Likelihood     | Consequence   |          |          |          |         |
|----------------|---------------|----------|----------|----------|---------|
|                | Insignificant | Minor    | Moderate | Major    | Severe  |
| Almost Certain | Moderate      | High     | High     | Extreme  | Extreme |
| Likely         | Moderate      | Moderate | High     | High     | Extreme |
| Possible       | Low           | Moderate | Moderate | High     | Extreme |
| Unlikely       | Low           | Moderate | Moderate | Moderate | High    |
| Rare           | Low           | Low      | Moderate | Moderate | High    |

## Appendix I

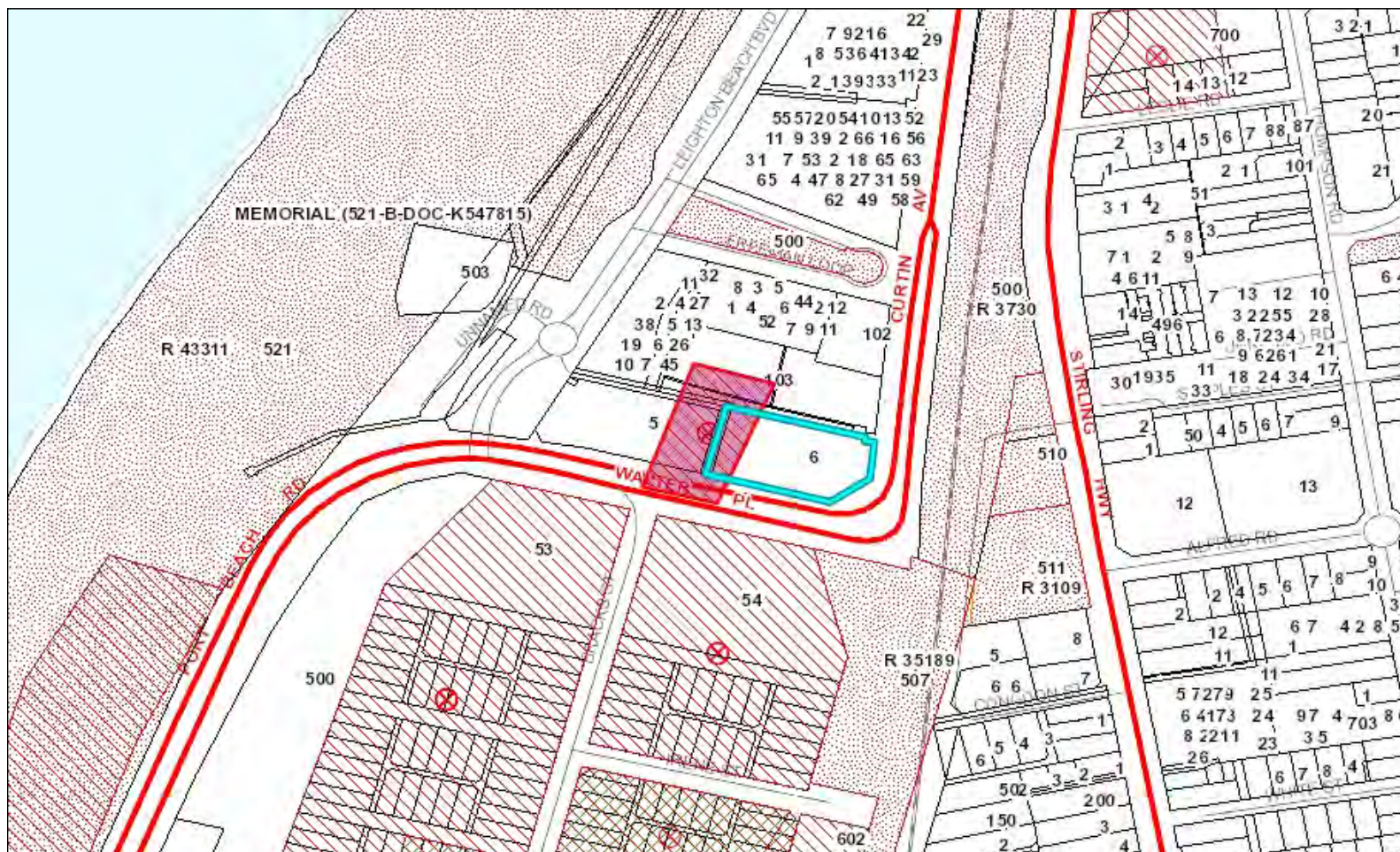
### Dangerous Goods





## Dangerous goods site licence register report

This report is an excerpt of the register of dangerous goods site licences related to the area of interest you searched.



### Search Details

Site address (if applicable)

9 WALTER PL NORTH FREMANTLE 6159

Licence location (as recorded on the licence)

DGS010959 9 WALTER PL (CNR BRACK ST) NORTH FREMANTLE WA 6159

### Dangerous goods licences held

| Period of licence       | Licence number | Products stored (see legend) | Licence holder      |
|-------------------------|----------------|------------------------------|---------------------|
| 20/07/1995 - 15/04/2003 | DGS010959      | 2.1, 3                       | KWIK & SWIFT CO P/L |

This report is an excerpt of the register of dangerous goods site licences related to the searched area of interest.

- It reports products currently stored at a site, or in the case of a closed licence, the products stored at the site at the time of its closure.
- Additional information may be available. If you wish to obtain additional information, please email [cso@dmirs.wa.gov.au](mailto:cso@dmirs.wa.gov.au) stating the specific information you require.
- If you want detailed information such as copies of licences, a Freedom of Information (FOI) application is required. To submit an FOI application, go to the Applying for Access to Resources Safety Documents page of the DMIRS website.

## Legend

2.1 - Flammable gases

2.2 - Non-Flammable gases non-toxic gases

2.3 - Toxic gases

3 - Flammable liquids

4.1 - Flammable solids

4.2 - Spontaneously combustible substances

4.3 - Dangerous when wet

5.1 - Oxidizing agents

5.2 - Organic peroxides

6 - Toxic substances

8 - Corrosive substances

9 - Miscellaneous dangerous goods

C1 - Combustible liquids

\* - Incomplete data available. Please contact Dangerous Goods Licensing at [cso@dmirs.wa.gov.au](mailto:cso@dmirs.wa.gov.au) for more information.

Note 1. DMIRS does not regulate

- Division 6.2 Infectious Substances
- Class 7 - Radiactive Substances

These products are regulated by the Department of Health





## Dangerous goods site licence register report

This report is an excerpt of the register of dangerous goods site licences related to the area of interest you searched.



### Search Details

Site address (if applicable)

22 BRACKS ST NORTH FREMANTLE 6159

Licence location (as recorded on the licence)

DGS017015 22 BRACKS ST NORTH FREMANTLE WA 6159

### Dangerous goods licences held

| Period of licence       | Licence number | Products stored (see legend) | Licence holder                |
|-------------------------|----------------|------------------------------|-------------------------------|
| 12/08/2003 - 30/09/2005 | DGS017015      | 3, 8, 9, C1                  | THE SHELL CO OF AUSTRALIA LTD |

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## Legend

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5.2 - Organic peroxides

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8 - Corrosive substances

9 - Miscellaneous dangerous goods

C1 - Combustible liquids

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Note 1. DMIRS does not regulate

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- Class 7 - Radiactive Substances

These products are regulated by the Department of Health





## Dangerous goods site licence register report

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### Search Details

Site address (if applicable)

22 BRACKS ST NORTH FREMANTLE 6159

Licence location (as recorded on the licence)

|           |   |
|-----------|---|
| DGS014275 | 22 BRACKS ST (NORTH FREMANTLE TERMINAL) NORTH FREMANTLE WA 6159 |
| DGS014275 | 22 BRACKS ST (NORTH FREMANTLE TERMINAL) NORTH FREMANTLE WA 6159 |

### Dangerous goods licences held

| Period of licence       | Licence number | Products stored (see legend) | Licence holder                |
|-------------------------|----------------|------------------------------|-------------------------------|
| 20/07/1995 - 30/09/2021 | DGS014275      | 2, 3, CL                     | VIVA ENERGY AUSTRALIA PTY LTD |
| 20/07/1995 - 30/09/2021 | DGS014275      | 2, 3, CL                     | VIVA ENERGY AUSTRALIA PTY LTD |

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4.1 - Flammable solids

4.2 - Spontaneously combustible substances

4.3 - Dangerous when wet

5.1 - Oxidizing agents

5.2 - Organic peroxides

6 - Toxic substances

8 - Corrosive substances

9 - Miscellaneous dangerous goods

C1 - Combustible liquids

\* - Incomplete data available. Please contact Dangerous Goods Licensing at [cso@dmirs.wa.gov.au](mailto:cso@dmirs.wa.gov.au) for more information.

Note 1. DMIRS does not regulate

- Division 6.2 Infectious Substances
- Class 7 - Radiactive Substances

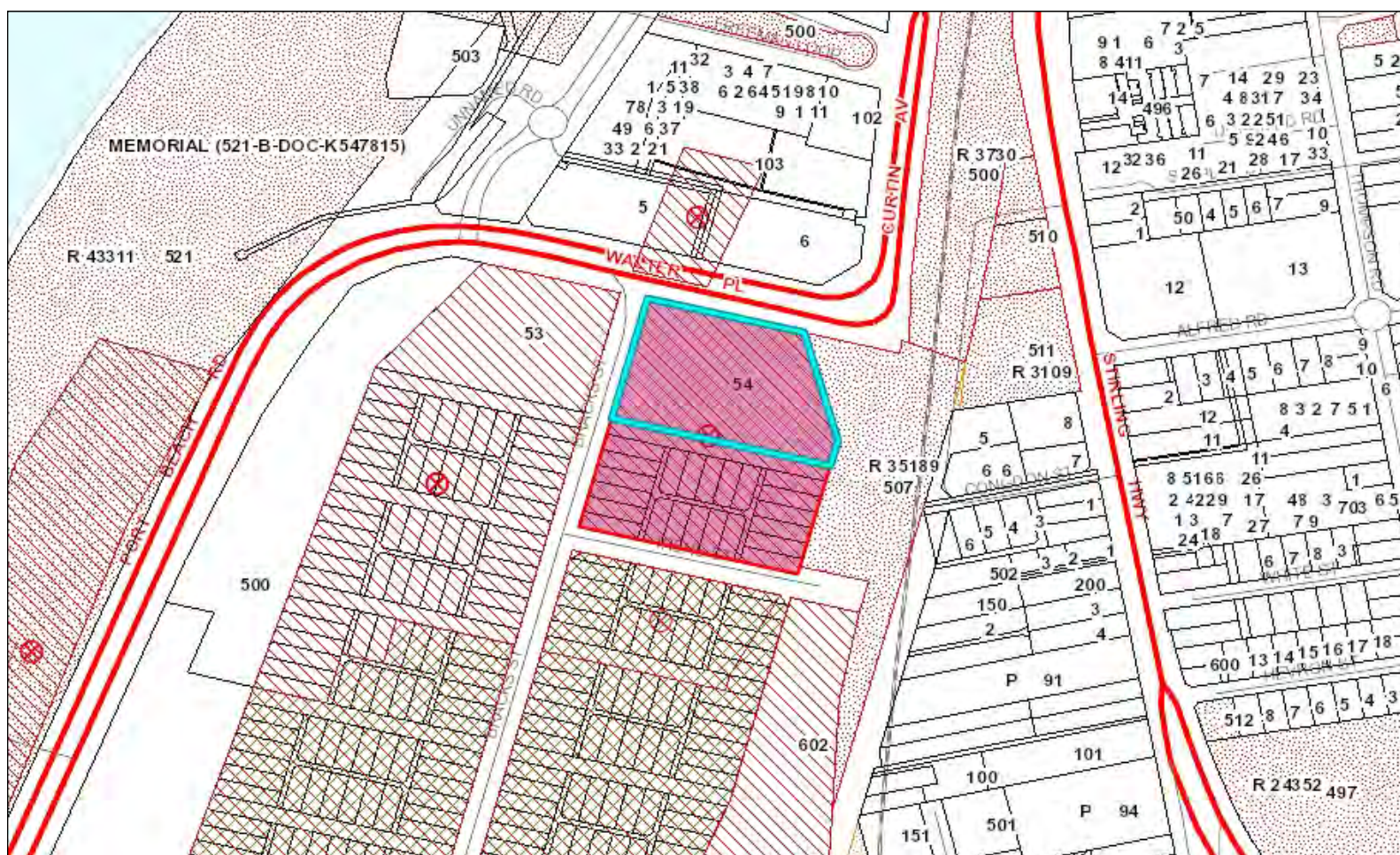
These products are regulated by the Department of Health





## Dangerous goods site licence register report

This report is an excerpt of the register of dangerous goods site licences related to the area of interest you searched.



### Search Details

Site address (if applicable)

|                               |
|-------------------------------|
| BRACK ST NORTH FREMANTLE 6159 |
|-------------------------------|

Licence location (as recorded on the licence)

|           |                                  |
|-----------|----------------------------------|
| DGS004667 | BRACK ST NORTH FREMANTLE WA 6159 |
|-----------|----------------------------------|

### Dangerous goods licences held

| Period of licence       | Licence number | Products stored (see legend) | Licence holder           |
|-------------------------|----------------|------------------------------|--------------------------|
| 20/07/1995 - 06/08/2008 | DGS004667      | 2.1, 3, C1                   | STANDARD WOOL (AUST) P/L |

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## Legend

2.1 - Flammable gases

2.2 - Non-Flammable gases non-toxic gases

2.3 - Toxic gases

3 - Flammable liquids

4.1 - Flammable solids

4.2 - Spontaneously combustible substances

4.3 - Dangerous when wet

5.1 - Oxidizing agents

5.2 - Organic peroxides

6 - Toxic substances

8 - Corrosive substances

9 - Miscellaneous dangerous goods

C1 - Combustible liquids

\* - Incomplete data available. Please contact Dangerous Goods Licensing at [cso@dmirs.wa.gov.au](mailto:cso@dmirs.wa.gov.au) for more information.

Note 1. DMIRS does not regulate

- Division 6.2 Infectious Substances
- Class 7 - Radiactive Substances

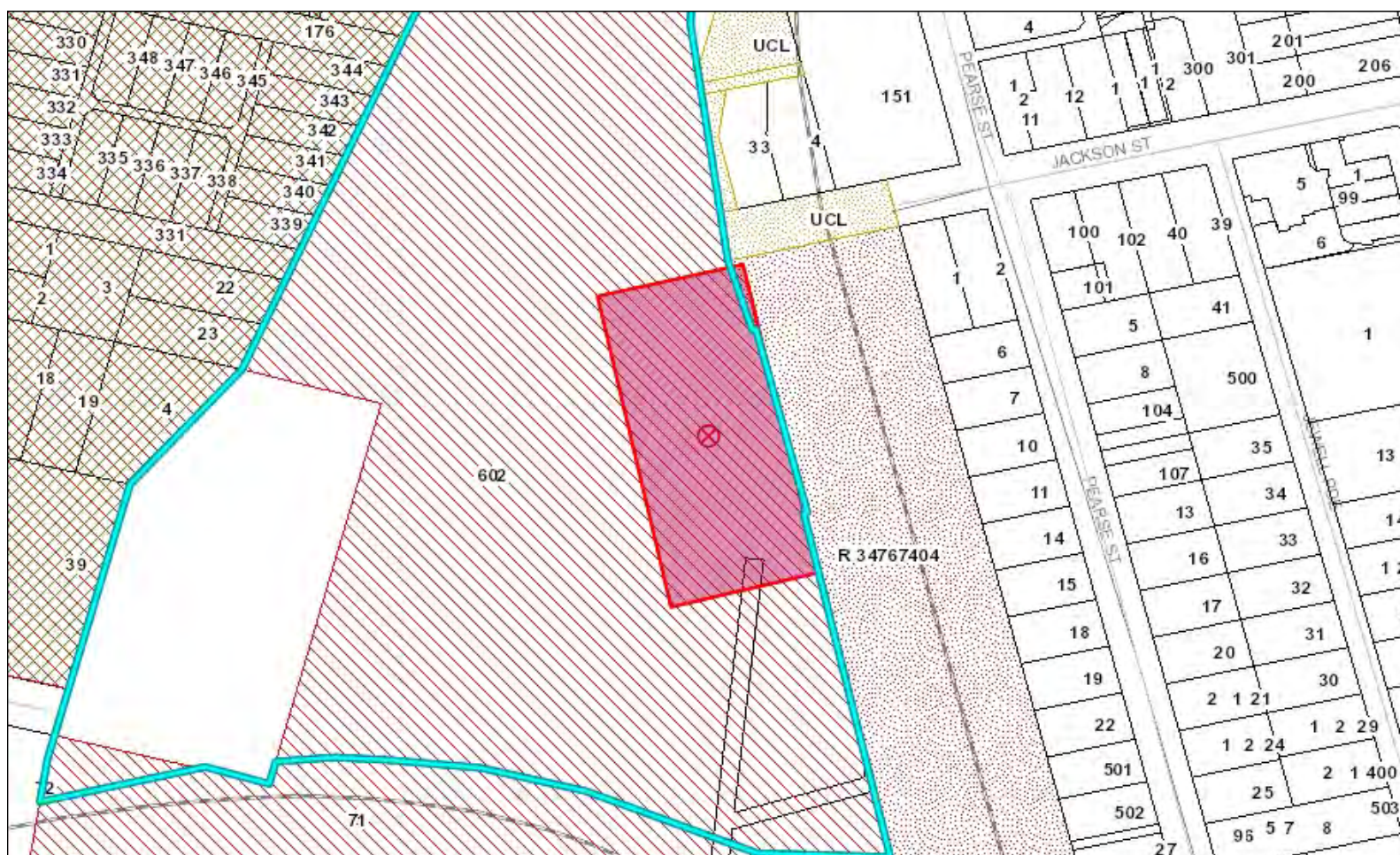
These products are regulated by the Department of Health





## Dangerous goods site licence register report

This report is an excerpt of the register of dangerous goods site licences related to the area of interest you searched.



### Search Details

Site address (if applicable)

452 TYDEMAN RD NORTH FREMANTLE 6159

Licence location (as recorded on the licence)

DGS014398 452 TYDEMAN RD NORTH FREMANTLE WA 6159

### Dangerous goods licences held

| Period of licence       | Licence number | Products stored (see legend) | Licence holder     |
|-------------------------|----------------|------------------------------|--------------------|
| 20/07/1995 - 07/08/2005 | DGS014398      | 2.1                          | S DRAKE-BROCKMAN S |

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- If you want detailed information such as copies of licences, a Freedom of Information (FOI) application is required. To submit an FOI application, go to the Applying for Access to Resources Safety Documents page of the DMIRS website.

## Legend

2.1 - Flammable gases

2.2 - Non-Flammable gases non-toxic gases

2.3 - Toxic gases

3 - Flammable liquids

4.1 - Flammable solids

4.2 - Spontaneously combustible substances

4.3 - Dangerous when wet

5.1 - Oxidizing agents

5.2 - Organic peroxides

6 - Toxic substances

8 - Corrosive substances

9 - Miscellaneous dangerous goods

C1 - Combustible liquids

\* - Incomplete data available. Please contact Dangerous Goods Licensing at [cso@dmirs.wa.gov.au](mailto:cso@dmirs.wa.gov.au) for more information.

Note 1. DMIRS does not regulate

- Division 6.2 Infectious Substances
- Class 7 - Radiactive Substances

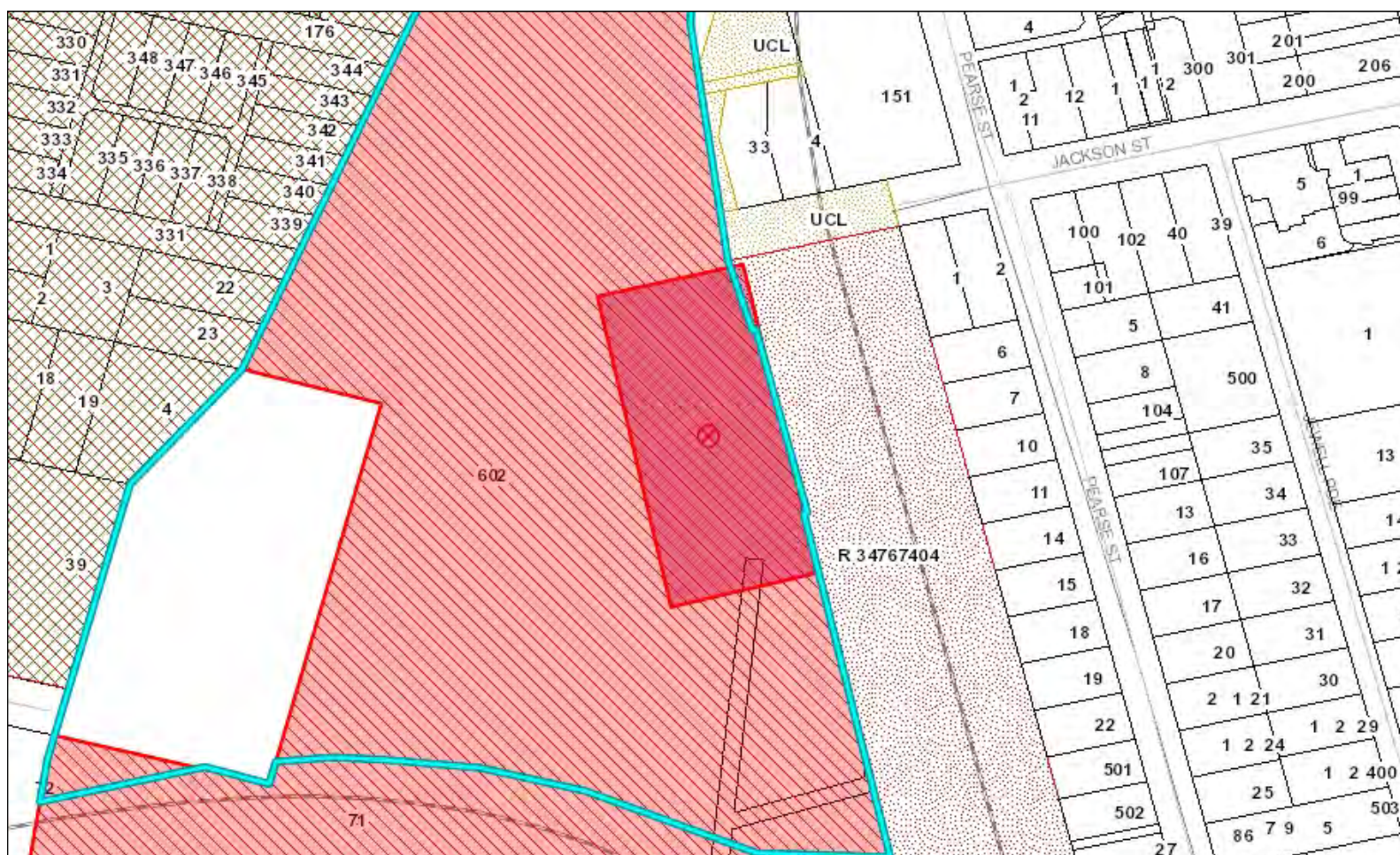
These products are regulated by the Department of Health





## Dangerous goods site licence register report

This report is an excerpt of the register of dangerous goods site licences related to the area of interest you searched.



### Search Details

Site address (if applicable)

|                                 |
|---------------------------------|
| TYDEMAN RD NORTH FREMANTLE 6159 |
|---------------------------------|

Licence location (as recorded on the licence)

|           |  |
|-----------|--|
| DGS013866 | TYDEMAN RD ([LOT 452]) NORTH FREMANTLE WA 6159 |
| DGS013866 | TYDEMAN RD ([LOT 452]) NORTH FREMANTLE WA 6159 |

### Dangerous goods licences held

| Period of licence       | Licence number | Products stored (see legend) | Licence holder  |
|-------------------------|----------------|------------------------------|-----------------|
| 20/07/1995 - 17/06/2000 | DGS013866      | 3                            | P & O PORTS LTD |
| 20/07/1995 - 17/06/2000 | DGS013866      | 3                            | P & O PORTS LTD |

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## Legend

2.1 - Flammable gases

2.2 - Non-Flammable gases non-toxic gases

2.3 - Toxic gases

3 - Flammable liquids

4.1 - Flammable solids

4.2 - Spontaneously combustible substances

4.3 - Dangerous when wet

5.1 - Oxidizing agents

5.2 - Organic peroxides

6 - Toxic substances

8 - Corrosive substances

9 - Miscellaneous dangerous goods

C1 - Combustible liquids

\* - Incomplete data available. Please contact Dangerous Goods Licensing at [cso@dmirs.wa.gov.au](mailto:cso@dmirs.wa.gov.au) for more information.

Note 1. DMIRS does not regulate

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- Class 7 - Radiactive Substances

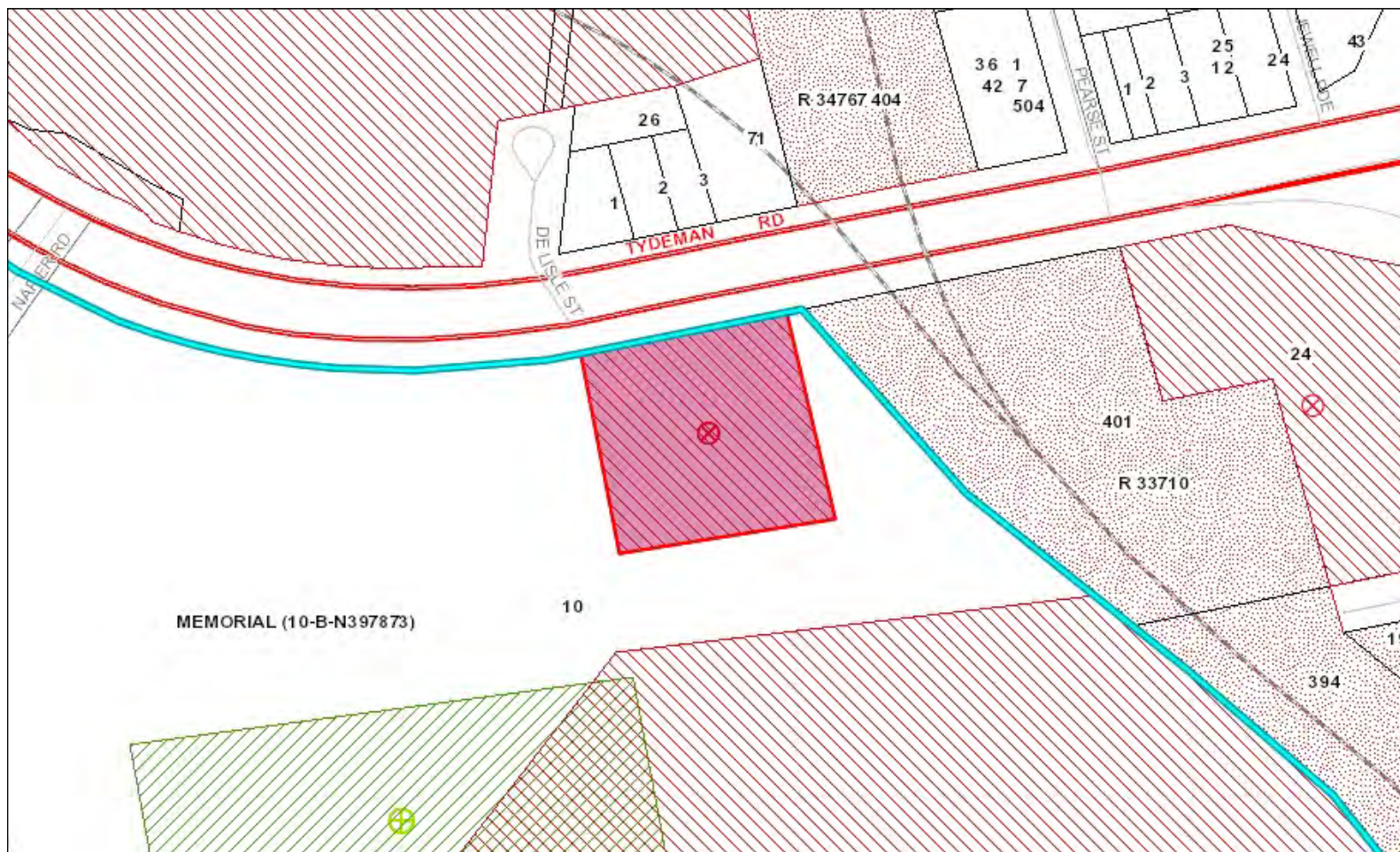
These products are regulated by the Department of Health





## Dangerous goods site licence register report

This report is an excerpt of the register of dangerous goods site licences related to the area of interest you searched.



### Search Details

Site address (if applicable)

LOT 1 TYDEMAN RD NORTH FREMANTLE 6159

Licence location (as recorded on the licence)

DGS016443 LOT 1 TYDEMAN RD NORTH FREMANTLE WA 6159

### Dangerous goods licences held

| Period of licence       | Licence number | Products stored (see legend) | Licence holder                                     |
|-------------------------|----------------|------------------------------|--|
| 23/03/2001 - 23/06/2002 | DGS016443      | 8                            | TERMCO TANK SA C/- MEDITERRANEAN SHIPPING CO PTY L |

This report is an excerpt of the register of dangerous goods site licences related to the searched area of interest.

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## Legend

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5.2 - Organic peroxides

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9 - Miscellaneous dangerous goods

C1 - Combustible liquids

\* - Incomplete data available. Please contact Dangerous Goods Licensing at [cso@dmirs.wa.gov.au](mailto:cso@dmirs.wa.gov.au) for more information.

Note 1. DMIRS does not regulate

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- Class 7 - Radiactive Substances

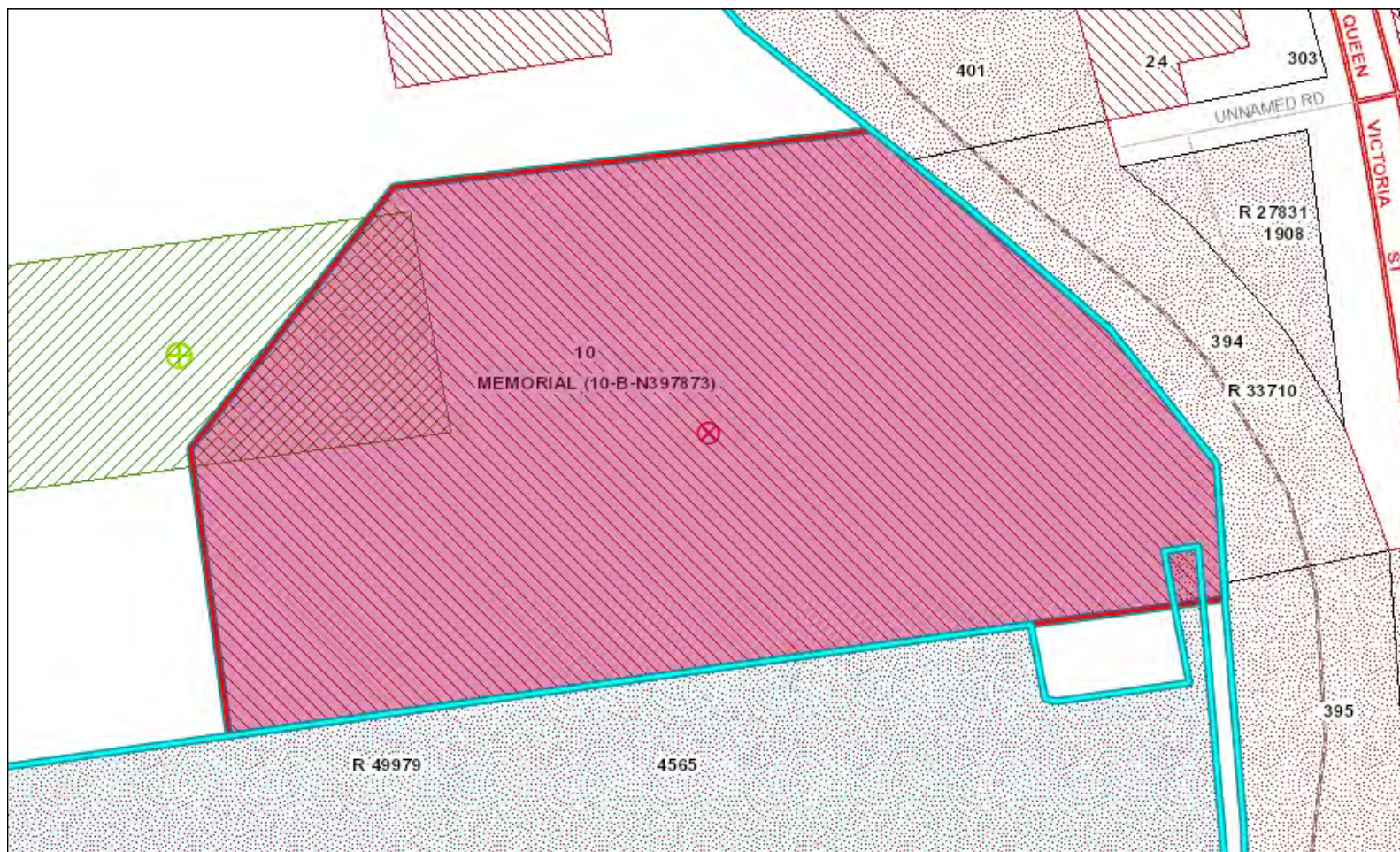
These products are regulated by the Department of Health





## Dangerous goods site licence register report

This report is an excerpt of the register of dangerous goods site licences related to the area of interest you searched.



### Search Details

Site address (if applicable)

LOT 15 TYDEMAN RD NORTH FREMANTLE 6159

Licence location (as recorded on the licence)

|           |   |
|-----------|---|
| DGS004668 | LOT 15 TYDEMAN RD NORTH FREMANTLE WA 6159 |
|-----------|---|

### Dangerous goods licences held

| Period of licence       | Licence number | Products stored (see legend) | Licence holder          |
|-------------------------|----------------|------------------------------|-------------------------|
| 20/07/1995 - 06/08/1997 | DGS004668      | 2.1, 3.3                     | FREMANTLE TERMINALS LTD |

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## Legend

2.1 - Flammable gases

2.2 - Non-Flammable gases non-toxic gases

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4.1 - Flammable solids

4.2 - Spontaneously combustible substances

4.3 - Dangerous when wet

5.1 - Oxidizing agents

5.2 - Organic peroxides

6 - Toxic substances

8 - Corrosive substances

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C1 - Combustible liquids

\* - Incomplete data available. Please contact Dangerous Goods Licensing at [cso@dmirs.wa.gov.au](mailto:cso@dmirs.wa.gov.au) for more information.

Note 1. DMIRS does not regulate

- Division 6.2 Infectious Substances
- Class 7 - Radiactive Substances

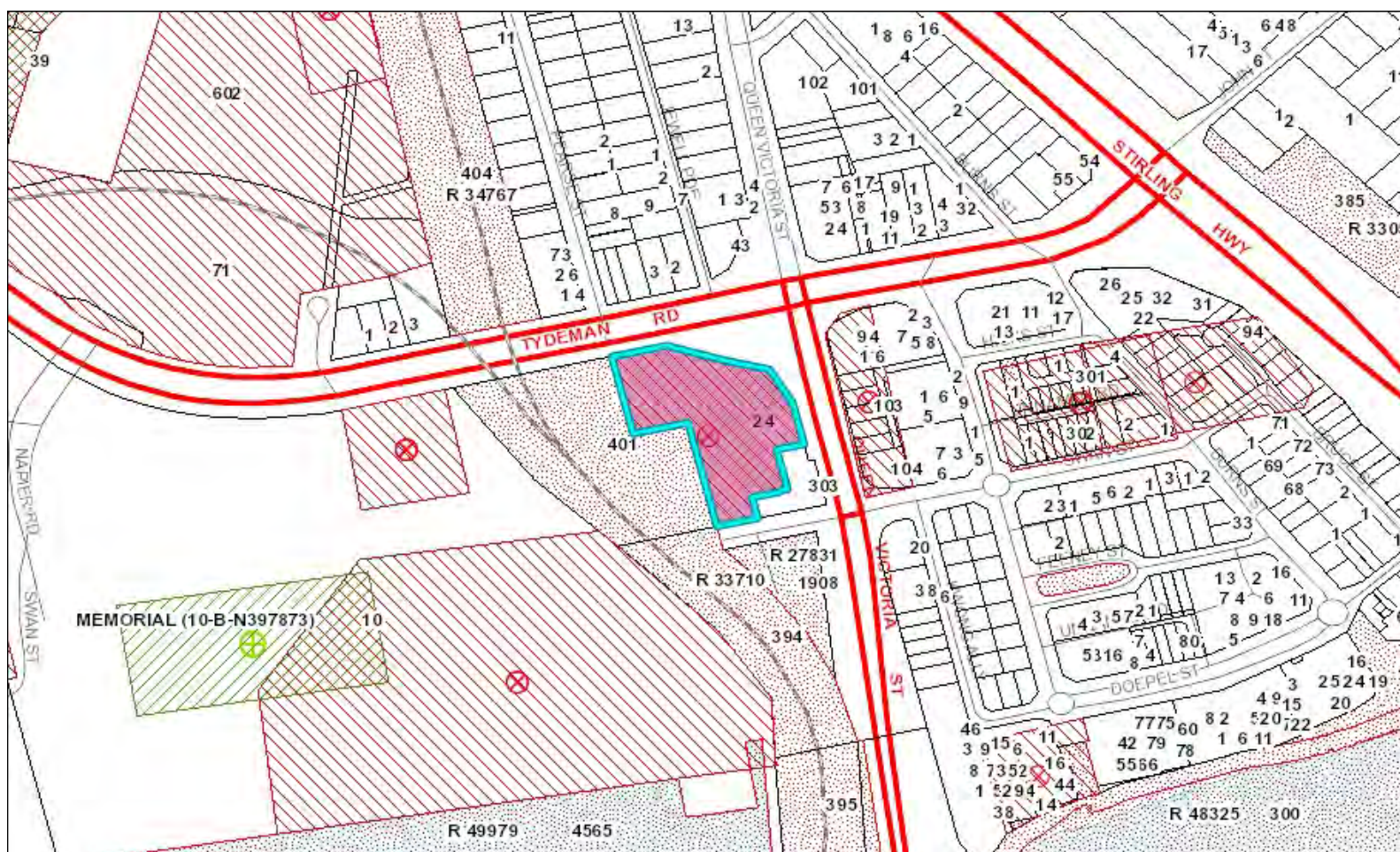
These products are regulated by the Department of Health





## Dangerous goods site licence register report

This report is an excerpt of the register of dangerous goods site licences related to the area of interest you searched.



### Search Details

Site address (if applicable)

11 TYDEMAN RD NORTH FREMANTLE 6159

Licence location (as recorded on the licence)

DGS010698 11 TYDEMAN RD NORTH FREMANTLE WA 6159

### Dangerous goods licences held

| Period of licence       | Licence number | Products stored (see legend) | Licence holder                   |
|-------------------------|----------------|------------------------------|----------------------------------|
| 20/07/1995 - 08/08/2011 | DGS010698      | 2.3                          | VERSACOLD LOGISTICS SERVICES LTD |

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8 - Corrosive substances

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C1 - Combustible liquids

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Note 1. DMIRS does not regulate

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- Class 7 - Radiactive Substances

These products are regulated by the Department of Health





## Dangerous goods site licence register report

This report is an excerpt of the register of dangerous goods site licences related to the area of interest you searched.



### Search Details

Site address (if applicable)

202 QUEEN VICTORIA ST NORTH FREMANTLE 6159

Licence location (as recorded on the licence)

DGS009576 202 QUEEN VICTORIA ST NORTH FREMANTLE WA 6159

### Dangerous goods licences held

| Period of licence       | Licence number | Products stored (see legend) | Licence holder |
|-------------------------|----------------|------------------------------|----------------|
| 20/07/1995 - 20/10/1995 | DGS009576      | 3.1, 3.3                     | ANCHOR NISSAN  |



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## Legend

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4.2 - Spontaneously combustible substances

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5.2 - Organic peroxides

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8 - Corrosive substances

9 - Miscellaneous dangerous goods

C1 - Combustible liquids

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Note 1. DMIRS does not regulate

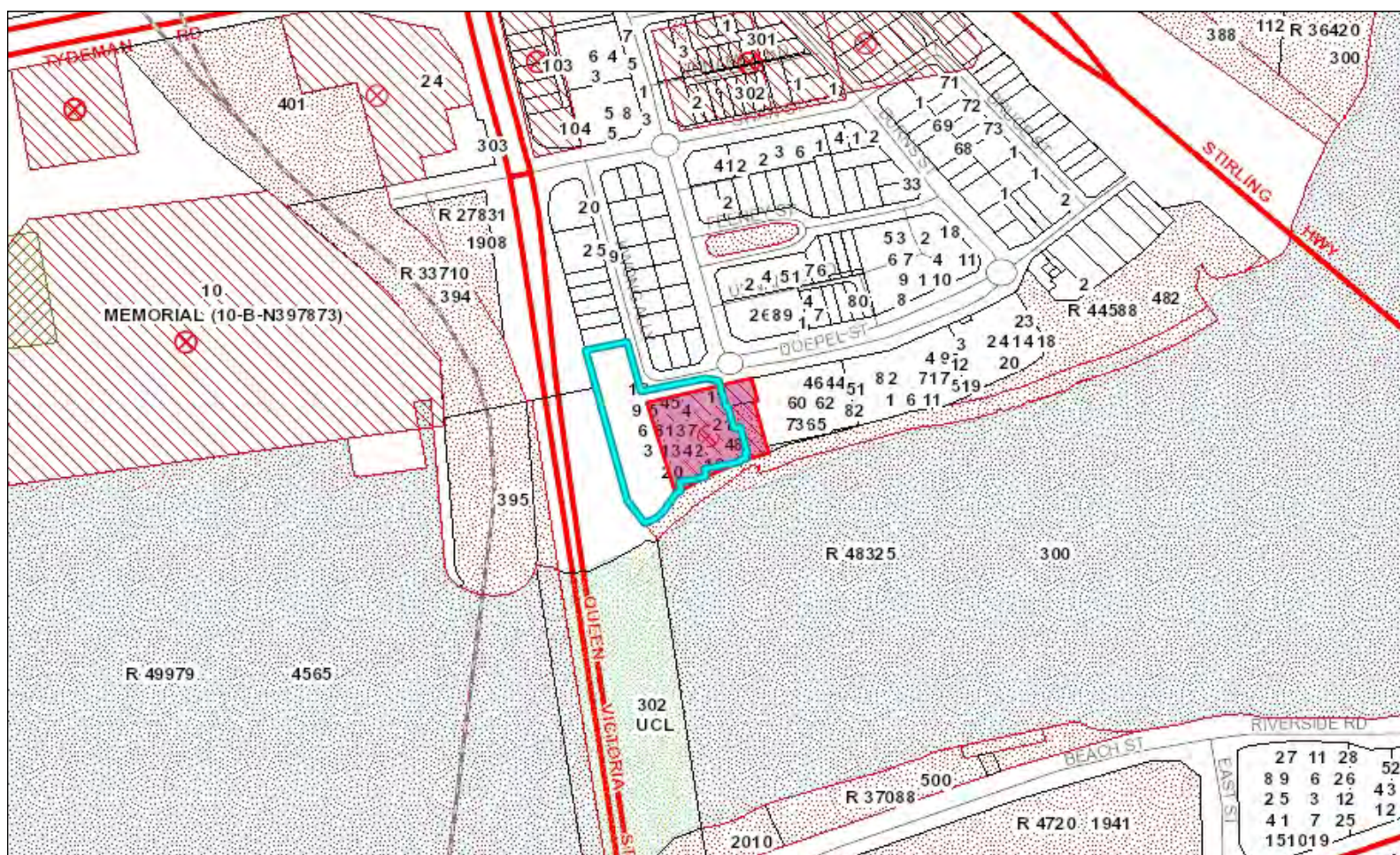
- Division 6.2 Infectious Substances
- Class 7 - Radiactive Substances

These products are regulated by the Department of Health



## Dangerous goods site licence register report

This report is an excerpt of the register of dangerous goods site licences related to the area of interest you searched.



### Search Details

Site address (if applicable)

2 DOEPEL ST NORTH FREMANTLE 6159

Licence location (as recorded on the licence)

DGS002908 2 DOEPEL ST NORTH FREMANTLE WA 6159

### Dangerous goods licences held

| Period of licence       | Licence number | Products stored (see legend) | Licence holder                |
|-------------------------|----------------|------------------------------|-------------------------------|
| 20/07/1995 - 21/06/1993 | DGS002908      | *                            | FREMANTLE LAUNCH & TUG CO P/L |

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## Legend

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C1 - Combustible liquids

\* - Incomplete data available. Please contact Dangerous Goods Licensing at [cso@dmirs.wa.gov.au](mailto:cso@dmirs.wa.gov.au) for more information.

Note 1. DMIRS does not regulate

- Division 6.2 Infectious Substances
- Class 7 - Radiactive Substances

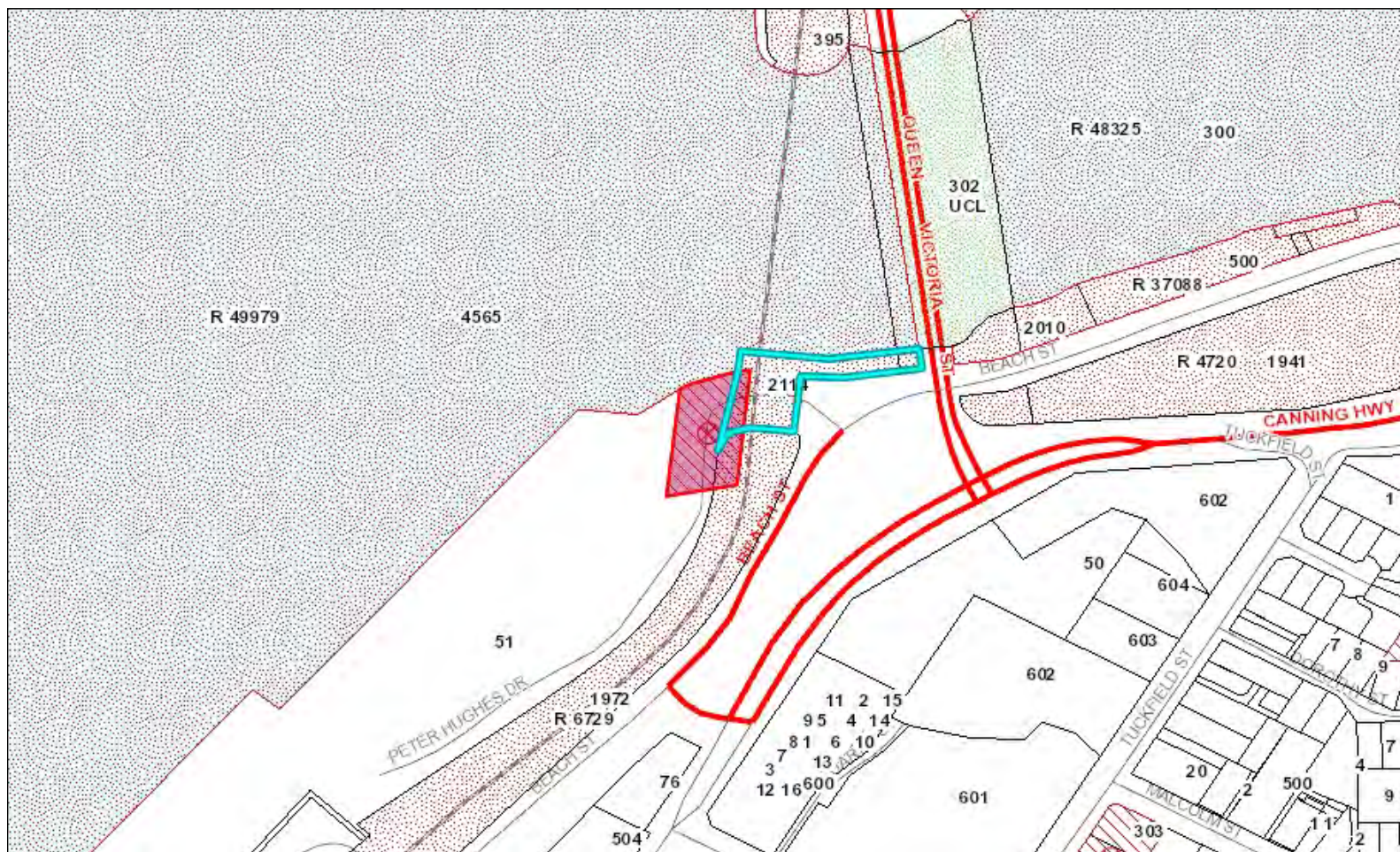
These products are regulated by the Department of Health





## Dangerous goods site licence register report

This report is an excerpt of the register of dangerous goods site licences related to the area of interest you searched.



### Search Details

Site address (if applicable)

1 CLIFF ST FREMANTLE 6160

Licence location (as recorded on the licence)

DGS015739 1 CLIFF ST FREMANTLE WA 6160

### Dangerous goods licences held

| Period of licence       | Licence number | Products stored (see legend) | Licence holder           |
|-------------------------|----------------|------------------------------|--------------------------|
| 21/08/1998 - 30/09/2008 | DGS015739      | C1                           | FREMANTLE PORT AUTHORITY |

This report is an excerpt of the register of dangerous goods site licences related to the searched area of interest.

- It reports products currently stored at a site, or in the case of a closed licence, the products stored at the site at the time of its closure.
- Additional information may be available. If you wish to obtain additional information, please email [cso@dmirs.wa.gov.au](mailto:cso@dmirs.wa.gov.au) stating the specific information you require.
- If you want detailed information such as copies of licences, a Freedom of Information (FOI) application is required. To submit an FOI application, go to the Applying for Access to Resources Safety Documents page of the DMIRS website.

## Legend

2.1 - Flammable gases

2.2 - Non-Flammable gases non-toxic gases

2.3 - Toxic gases

3 - Flammable liquids

4.1 - Flammable solids

4.2 - Spontaneously combustible substances

4.3 - Dangerous when wet

5.1 - Oxidizing agents

5.2 - Organic peroxides

6 - Toxic substances

8 - Corrosive substances

9 - Miscellaneous dangerous goods

C1 - Combustible liquids

\* - Incomplete data available. Please contact Dangerous Goods Licensing at [cso@dmirs.wa.gov.au](mailto:cso@dmirs.wa.gov.au) for more information.

Note 1. DMIRS does not regulate

- Division 6.2 Infectious Substances
- Class 7 - Radiactive Substances

These products are regulated by the Department of Health



## Appendix J

### Controlled Waste



## Controlled Waste Tracking System

### Waste Facility Search by Waste Category and Post Code

*Postcode: 6160*

*Waste Category: All*

Search for Waste  
Facilities that can  
accomodate the specified  
waste category.

| Name                     | Suburb    | Post Code | Contact Number | Waste Categories    |
|--------------------------|-----------|-----------|----------------|---------------------|
| Fremantle Port Authority | Fremantle | 6160      | 94303555       | D160,D200,N160,T140 |

## Appendix K

### Historical Aerial Photography