



# MFS Port Adelaide Station

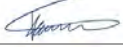

## Preliminary Site Investigation

South Australian Metropolitan Fire Service

20 July 2023

→ The Power of Commitment



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# Executive Summary

GHD Pty Ltd (GHD) was engaged by the South Australian Metropolitan Fire Service (MFS) to prepare this Preliminary Site Investigation (PSI) for the Port Adelaide Fire Station, located at Corner Grand Junction Road and Langham Place, Port Adelaide, South Australia. This PSI is limited to potential impacts arising from the historic use of aqueous film-forming foams (AFFF) containing per- and poly- fluoroalkyl substances (PFAS).

The purpose of the PSI is to address the action required in the South Australian (SA) Environment Protection Authority (EPA) letter EPA GENI 62917. The letter states the need to develop a plan of proposed works to address high risk MFS sites, of which the Port Adelaide station is included. The SA EPA letter can be found in Appendix A.

The objectives of this PSI are in accordance with the appropriate guidance and legislation as outlined in Section 1.4 and include the following:

- Determine the potential presence of PFAS impacts associated with historical use of AFFF at the site
- Identify and assess any potential risks to human health and the environment due to the presence of PFAS impacts (if identified), in the context of the site's continued commercial/industrial use and the relevant land uses associated with any potentially affected off-site properties

The scope of works for the PSI is summarised below:

- Desktop assessment and site inspection to determine site history and historical activities which may have contributed to PFAS contamination of the site and surrounds
- Identification of sensitive land uses, groundwater bore usage and ecological receptors to determine potential environmental values of groundwater/surface water in the vicinity of the site
- Development of a Preliminary Conceptual Site Model (PCSM), comprising an assessment of PFAS source areas, pathways, and receptors
- Preparation of a PSI report

Based on the results of this investigation, the following conclusions have been made:

## **Potential nature and extent of PFAS impacts on-site and off-site**

- Documented information confirmed the historical use (during training activities and washdown/cleaning of appliances) and storage of PFAS containing firefighting foam on-site after the official opening of the Port Adelaide Fire Station in 1989
- Anecdotal information provided by the Port Adelaide Fire Station Officers, confirmed that the PFAS containing firefighting foam was released in an incident resulting in approximately 150 L of AFFF being spread across the site
- Minimal soil sampling (two locations) reported exceedances of the PFAS NEMP 2.0 Interim Ecological Indirect Exposure guideline and one sample exceeded the PFAS NEMP 2.0 Ecological Direct Exposure guideline
- While PFAS contamination has been confirmed in soil and stored water at the site, its extent and potential groundwater impacts have not been determined

## **Potential risks to human health and the environment as a result of historical PFAS activities at the site**

The Preliminary Conceptual Site Model (PCSM) identified the following potentially complete PFAS exposure pathways:

- Exposure of site users, visitors, maintenance and construction workers to PFAS via direct dermal contact with contaminated soil, incidental ingestion of contaminated soil or inhalation of contaminated soil/dust from disturbed soils
- Leaching of PFAS from contaminated soils or concrete/paver surfaces followed by migration through porous media into groundwater
- Consumption of contaminated groundwater extracted off-site for domestic/drinking purposes

- Consumption of edible vegetation grown off-site where plants were irrigated with contaminated groundwater or where plant roots accessed shallow contaminated groundwater. It should be noted that no edible vegetation is present at the site
- Incidental ingestion of contaminated groundwater extracted off-site for recreational purposes such as filling of swimming pools
- Fresh water aquatic life found in surface water receptors such as the Port Adelaide River

### **Recommendations**

GHD recommends that a SAQP be prepared to undertake further intrusive investigations to determine the nature and extent of identified PFAS impacts in on-site and off-site areas associated with historical activities at the site and to identify and assess any potential risks to human health and the environment in the context of relevant current and potential future land uses.

# Table of Abbreviations

Abbreviation	Full form
AFAC	Australasian Fire and Emergency Service Authorities Council
AFFF	Aqueous Film-Forming Foam
AHD	Australian Height Datum
ASC NEPM	<i>National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended 2013</i>
CoPC	Chemicals of Potential Concern
PCSM	Preliminary Conceptual Site Model
FTS	Fluorotelomers
GAR	South Australian <i>Guidelines for the Assessment and Remediation of Site Contamination 2019</i>
GHD	GHD Pty Ltd
HEPA	Heads of Environment Protection Authorities Australia
m BGL	Metres Below Ground Level
MFS	South Australian Metropolitan Fire Service
mg/L	Milligrams/Litre
NEMP	PFAS National Environmental Management Plan Version 2.0 - January 2020
NEPC	National Environmental Protection Council
NHMRC	National Health and Medical Research Council
PFAS	Per- and Poly-Fluoroalkyl Substances
PFHxS	Perfluorohexane Sulfonate
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane Sulfonate
PSI	Preliminary Site Investigation
SA EPA	South Australian Environment Protection Authority
SAQP	Sampling and Analysis Quality Plan
SPR	Source-Pathway-Receptor
SWL	Standing Water Level
TDS	Total Dissolved Solids
WQEPP	South Australian <i>Environmental Protection (Water Quality) Policy 2015</i>

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# 1. Introduction

GHD Pty Ltd (GHD) was engaged by the South Australian Metropolitan Fire Service (MFS) to prepare this Preliminary Site Investigation (PSI) for the Port Adelaide Fire Station, located at the corner of Grand Junction Road and Langham Place, Port Adelaide, South Australia 5015 (the site). The site location and layout are shown in Figure .

This PSI is limited to potential impacts from the historic use aqueous film-forming foam (AFFF) containing per- and poly-fluoroalkyl substances (PFAS). Other potential contaminating activities and related contaminants of concern are not included in this assessment. The purpose of the PSI is to address the action required in the South Australian (SA) Environment Protection Authority (EPA) letter EPA GENI 62917. The letter states the need to develop a plan of proposed works to address high risk MFS sites, of which Port Adelaide Fire Station is included. The SA EPA letter can be found in Appendix A.

## 1.1 Background

Historically, the MFS have used AFFF containing PFAS at the site during training activities. However, it is understood that the MFS commenced phasing out the use of AFFF containing perfluorooctane sulfonate (PFOS) in 2007 and perfluorooctanoic acid (PFOA) in 2014 after conducting consultation and liaison with the Australasian Fire and Emergency Service Authorities Council (AFAC) and the SA EPA. The MFS replaced all AFFF in 2016 to ensure that only fluorine-free foam was in use. Currently, state-wide, all MFS appliances carry firefighting foams that do not contain PFOS or PFOA and are fluorine-free. During 2017/2018, the MFS removed all fire extinguishers containing PFAS from its inventory. In 2022, GHD undertook a site history review of 17 MFS sites (GHD 2022), and inspections of eight metropolitan sites to support environmental risk profiling using a multi-criteria analysis approach. The work was required to address the potential risks associated with former use of AFFF containing PFAS.

The sites were prioritised to assist with the implementation of appropriate assessment and management measures to address the potential PFAS risks. The GHD 2022 Report was provided to the SA EPA, who subsequently issued a letter dated 1 February 2023 (EPA GENI 62917) with the requirement of “a plan of proposed works and associated timelines to address the highest risk sites” (refer Appendix A).

To assist the MFS in meeting the requirements of the SA EPA, GHD proposed the preparation of a PSI for the high-risk MFS fire stations to assist in the future development of a Sampling and Analysis Quality Plan (SAQP) and further detailed investigations at the site. The Port Adelaide MFS fire station was identified as one of the eight high priority sites.

## 1.2 Objectives

The objectives of this PSI are in accordance with the appropriate guidance and legislation as outlined in Section 1.4 and include the following:

- Determine the potential presence of PFAS impacts associated with historical use of AFFF at the site
- Identify and assess any potential risks to human health and the environment due to the presence of PFAS impacts (if identified), in the context of the site’s continued commercial/industrial use and the relevant land uses associated with any potentially affected off-site properties

## 1.3 Person Requesting Works

The work was requested by:

Mr Eero Haatainen, Assistant Chief Fire Officer, Metropolitan Operations- Central and Special Operations, SA MFS, 99 Wakefield St, Adelaide SA 5000.

## 1.4 Methodology

The PSI methodology was in general accordance with the following industry guidelines:

- South Australian Environment Protection Act 1993 (Gov SA 1993) and associated regulations
- National Environmental Protection (Assessment of Site Contamination) Measure 1999 (as amended May 2013) (ASC NEPM)
- South Australian Environment Protection Authority (2019), Guidelines on the assessment and remediation (GAR) of site contamination
- Heads of Environment Protection Authorities (HEPA), 2020. PFAS National Environmental Management Plan (Version 2.0), Heads of Environment Protection Authorities Australia and New Zealand, January 2020, (PFAS NEMP)

## 1.5 Previous investigations

Previous PFAS investigations at the Port Adelaide Fire Station have been carried out by GHD in 2019 and 2022. Documentation of these investigations can be found in the following reports:

- GHD (2019) *MFS State-wide Appliance and Station Sampling*, Report for South Australian Metropolitan Fire Service, May 2019
- GHD (2022) *MFS 17 Fire Stations PFA Risk Profiling*, Report for South Australian Metropolitan Fire Service, October 2022

Locations sampled at the Port Adelaide Fire Station as part of these investigations are presented in Figure .

### 1.5.1 GHD (2019) MFS State-wide Appliance and Station Sampling

GHD (2019) reported that the Port Adelaide Fire Station was part of the 2019 environmental investigations carried out at 35 fire stations across South Australia to assess PFAS concentrations that may remain in firefighting appliances, accessible soil and any biota (fruit, vegetables, herbs and poultry) if present at the time of the investigation.

During the GHD (2019) investigation, the following samples were collected and tested for PFAS:

- Two soil samples collected from the southwest corner of the boundary directly in front of the chicken coop, where AFFF has been historically sprayed. Both samples exceeded the PFAS NEMP Ecological indirect exposure criteria for PFOS. No other exceedances of the other criteria were observed
- Biota - 1 sample collected (egg). While the egg white displayed concentrations below the adopted criteria, the egg yolk samples collected exceeded the FSANZ Trigger Point Level of 0.011 µg/kg for PFOS/PFHxS. No other exceedances of the other criteria were observed
- Station Appliances - 1 sample collected from the monitor, water tank, on-board hose reel (driver and passenger) and water delivery (driver and passenger). No exceedances of adopted criteria were observed
- The following were not investigated:
  - Surface water
  - Groundwater
  - Concrete

It is noted that the 2018 PFAS NEMP guidelines were used in this report, which were superseded by the 2020 PFAS NEMP 2.0. However, this has no practical impact on the purposes of this report as the guideline values for soil at commercial/industrial properties are the same in both versions of the PFAS NEMP. In the 2020 PFAS NEMP 2.0, environmental guidelines values that refer to the sum of PFOS and perfluorohexane sulfonate (PFHxS) now explicitly apply not only to the sum of the two but also to PFOS only and to PFHxS only, which was only inferred in the 2018 PFAS NEMP 1.0. It should be noted that there is a new version of the PFAS NEMP currently in review (3.0).

## 1.5.2 GHD (2022) MFS 17 Fire Stations PFAS Risk Profiling

The Port Adelaide fire station was part of a 2022 desktop risk assessment and multi-criteria analysis (MCA) carried out at 17 MFS fire stations across South Australia to support appropriate risk management approaches associated with potential or identified PFAS contamination. The 17 sites required for prioritisation, including Port Adelaide, were identified by the SA EPA in the letter GENI 62485 dated 21 October 2021.

The report presented the methodology and findings of the PFAS risk profiling for the 17 MFS fire stations with identified PFAS impacts in soil. The desktop review focused on identifying historical activities that may represent a source of PFAS contamination and potentially sensitive human or ecological receptors in the vicinity of the sites as well as understanding potential source-pathway-receptor linkages that may be present.

The report provided a summary of the sites' prioritisation for further assessment based on their potential to cause harm to the environment and/or human health. The Port Adelaide MFS fire station was classified as the highest priority for further investigation of PFAS contamination for the following reasons:

- Estimated historical on-site use and storage of AFFF concentrate
- Depth to groundwater and risk of AFFF infiltration to groundwater
- Distance to closest water body (Port Adelaide River within 0.7 km)
- Residential land use adjacent to the station

## 2. Scope of works

The scope of works for the PSI is summarised below:

- Desktop assessment of the site history and historical activities which may have contributed to PFAS contamination of the site and surrounds including a review of:
  - Past and current ownership and occupier details and certificates of title
  - Past and current aerial photography
  - State and local government records including SA EPA Public Register records
- Review of available information regarding the local geology, hydrogeology and hydrology, including the state groundwater database and geological maps
- Review of available soil, sediment, surface water and groundwater data from previous environmental investigations undertaken at the site and surrounding the site
- Identification of sensitive land uses, groundwater bore usage and ecological receptors to determine relevant environmental values for groundwater/surface water in the vicinity of the site
- A site inspection and interviews with site personnel to confirm features documented in the desktop review and update the site history with respect to stormwater management, high-risk historical activities such as AFFF spill events, on-site storage of large quantities of AFFF and on-site or potential off-site fire-training activities and overspray
- Development of a preliminary Conceptual Site Model (CSM), comprising an assessment of PFAS source areas, pathways, and receptors
- Preparation of a PSI report

Some of the background information relating to environmental settings, historical ownership and land use of the site and surrounding properties was obtained via the following Lotsearch report included in Appendix B.

- Lotsearch (2023), Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015, Reference number LS040253 EP , prepared by Lotsearch Enviro Professional, 10 February 2023

### 3. Limitations

*This report: has been prepared by GHD for South Australian Metropolitan Fire Service and may only be used and relied on by South Australian Metropolitan Fire Service for the purpose agreed between GHD and South Australian Metropolitan Fire Service as set out in section 1.2 of this report.*

*GHD otherwise disclaims responsibility to any person other than South Australian Metropolitan Fire Service arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.*

*The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.*

*The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.*

*The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.*

*The opinions, conclusions and any recommendations in this report are based on information obtained from, and testing undertaken at or in connection with, specific sample points. Site conditions at other parts of the site may be different from the site conditions found at the specific sample points.*

*Investigations undertaken in respect of this report are constrained by the particular site conditions, such as the location of buildings, services and vegetation. As a result, not all relevant site features and conditions may have been identified in this report. GHD has prepared this report on the basis of information provided by South Australian Metropolitan Fire Service and others who provided information to GHD (including Government authorities)], which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.*

## 4. Site information

Unless otherwise stated, the information within this PSI report was obtained from Lotsearch Report Reference Number LS040253 EP provided in Appendix B.

### 4.1 Site identification

Site information details are summarised in Table 4.1 below.

Table 4.1 Summary of General Site Identification Information

Item	Detail
Site Address:	Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015
Certificate of Title:	CT 5450/700
Legal Description:	Allotment 21, Deposited Plan 20135 in the Area Named Port Adelaide, Hundreds of Port Adelaide and Yatala
Local Government Authority:	City of Port Adelaide Enfield
Current Zoning:	Employment
Property Owner:	South Australian Metropolitan Fire Service
Current Site Use:	Operational Fire Station
Area:	4,349 m <sup>2</sup>

Copies of the current certificate of title and excerpts from the South Australia Property and Planning Atlas (SAPPA 2022) including zoning information are provided in Appendix C. The site location plan is shown in Figure .

### 4.2 Site drainage

The topography of the site is relatively flat with the majority of the fenced in site area sealed with hardstand. The area within the site boundary in the east/northeast is unsealed grass. A single stormwater pit is located inside of the fenced in the washdown bay. Additionally, two linear stormwater drains are located at the Grand Junction Road and Langham Place entrance driveways.

Stormwater from the site is usually discharged to a stormwater pit, which MFS staff indicated may flow into a catchment pond approximately 250 m to the west of the station. No wastewater recycling system was in place following training events. Wastewater discharged into drains on-site. Stormwater was not known to be harvested at the site.

### 4.3 Site inspection and description

The site is located on the corner of Grand Junction Road and Langham Place. Vehicle access to the property is through one of the two entrances located on Grand Junction Road or Landham Place.

A site inspection was conducted by GHD field staff on 20 July 2022 to identify site features and historical use of PFAS at the site. The infrastructure on-site consisted of one main building with the engine bay in the northern half of the property, a galvanised iron storage shed in the southwest corner and a sealed concrete rear yard in the southern portion. A 16,000 L diesel UST and bowser were located near the southeast corner of the property. The majority of the area inside the fence was sealed with only narrow strips of grass/vegetation along the southern and western boundaries and a garden bed in the northeast corner.

Photographs from the site inspection are presented in Appendix D.

## 4.4 Historical PFAS use

A questionnaire regarding the historical use of AFFF at the site was circulated to MFS staff. Three Surveys were completed between 20 June 2022 and 4 July 2022 by Station Officers as part of the MCA works. The station officers who had been working at the site for a number of years and provided relevant historical anecdotal information in an interview during the site inspection on 20 June 2022. Copies of the completed surveys can be found in Appendix E and a summary is provided below:

- Training exercises involving the use of AFFF were undertaken on an annual basis on-site. During this time, the training ground was unsealed. Approximately 100 L of AFFF was used in each training exercise
- No wastewater recycling system was in place following training events. Wastewater discharged into drains on-site
- Stormwater is not harvested for use within the site
- No groundwater wells/bores exist on-site

According to anecdotal evidence, there was at least one historical incident at Port Adelaide Station where PFAS containing AFFF was accidentally used instead of high expansion foam so that up to 150 L of AFFF concentrate was released.

## 4.5 Historical storage of PFAS

AFFF was historically stored at the site in approximately 24 blue plastic drums (200 L), since its opening in 1981. The last training event involving the use of AFFF was held in the mid-1990s. AFFF was historically stored on-site on a skid pod, on the southern boundary of the station car park on a 100 mm raised cement slab. AFFF was transferred from storage containers to the fire trucks/fire-fighting appliances via equipment such as a large foam canon and inductor lines stored in a trailer. Wash down area for fire trucks, equipment or AFFF containers was identified to be the rear yard.

## 4.6 Surrounding land uses

Land use surrounding the site is summarised in Table 4.2. Land uses and zoning are shown on Figure .

Table 4.2 Land Uses and Zoning

Orientation	Description of Land Use	Zoning (Municipal Council)	Zoning (SAPPA)
North	Grand Junction Road, a plumbing supply store (Reece Plumbing), the Port Adelaide Athletics club and open sporting field immediately north of site. Further north from the sporting field are residential areas and The Alan Iverson Reserve. Beyond the Alan Iverson Reserve is Baynes Place, consisting of the Portland Football Club and associated buildings. A railway line and a shopping complex consisting of various commercial businesses (Kmart, Coles, KFC, Port Adelaide Plaza Shopping Centre, tyre shop, etc.) is further north.	Recreation, Urban Activity Centre, Port Adelaide Centre	Recreation
East	Langham Place immediately east of site followed by residential areas and various warehouse services. A service station (Liberty Oil) and glass services is situated further east.	Employment	Residential
South	An excavating contractor (Pay Dirt Excavations) is located immediately south of site, along Langham Place. Further south are residential areas and a wholesale event supplier (In Any Event Wholesale Event Supplies). Various commercial businesses (used car dealer, Australia Post, a hose supplier) are located to the southwest.	Employment, Housing Diversity Neighbourhood	Commercial/Utility Industry
West	Endeavour Drive immediately west of site followed by a service station (Mobil Port Adelaide). Beyond the service station is a dam, Old Port Road, a BMX track and West Lakes Beach further west.	Strategic Employment	Vacant

The SA EPA site contamination index lists an audit notification and potentially contaminating activities (metal processing, metallurgical works and metal coating) for a site in 55 College Street, 240 m northeast of the Port Adelaide Fire Station. Historically, PFAS were often used as mist suppressants in metal processing (electroplating). However, assuming groundwater flow is west/northwest towards Port Adelaide River, 55 College Street is likely located down hydraulic gradient of the Port Adelaide Fire Station and therefore not likely relevant as a potential off-site PFAS source.

## 5. Environmental setting

### 5.1 Topography and hydrology

The topography of the site and surrounding land is relatively flat and forms part of the Adelaide Plains, between Gulf St Vincent to the west and the Mount Lofty Ranges to the east. The site sits at an elevation of approximately 3 m AHD. The surrounding land slopes slightly towards the west towards the Port Adelaide River.

Stormwater in the area appears to be stored in a stormwater retention pond 110 m west of the site, which is subsequently discharged to the Port Adelaide River.

### 5.2 Surface water

The nearest natural surface water bodies from the site were identified as follows:

- A dam 110 m west of the site which may be used as a stormwater retention pond likely for council drainage
- The Port Adelaide River 586 m west of the site which flows northeast and discharges into the St Vincent Gulf, approximately 2.77 km west of the site
- The St Vincent Gulf, located approximately 2.77 km west of the site

### 5.3 Geology and soils

The Lotsearch (2023) report indicated that the site is characterised by the Saint Kilda Formation, consisting of coastal marine sediment characterised by calcareous, fossiliferous sand and mud of intertidal sand flats, beaches and tidal marshes; organic, gypseous clay of supratidal flats (Appendix B).

Most common soil classification orders were identified to be predominantly Rudosols, which are characterised by coastal dunes and plains with some swamps, dunes of calcareous sands, siliceous sands, plains of various saline soils (unclassified) and lesser areas of brown calcareous earths.

The site lies within a region of low probability of potential acid sulphate soil (PASS) occurrence.

### 5.4 Hydrogeology

A search of the South Australian Resources Information Gateway (SARIG) database reported shallow groundwater in the vicinity of the site with standing water levels (SWL) of 2-5 m BGL, producing yields in the range of 0.5-2.5 L/second. Groundwater salinity ranged from 7,000-14,000 mg/L TDS, indicating brackish to saline water.

The Lotsearch report (Appendix B) included a search of the South Australian WaterConnect database (DEW 2023) for registered groundwater wells located within a 2.0 km radius of the site. The results are summarised as follows:

- There were 795 registered wells within a 2.0 km radius
- Of these registered wells, 94 were listed as backfilled, 62 as operational, 62 as abandoned, 21 as dry, one as decommissioned, one as rehabilitated, 53 as having an unknown status and no status was listed for 501 wells
- Of the 62 registered operational wells, 45 were listed as domestic, 10 as irrigation, four as Managed Aquifer Recharge, one as recreational, one as industrial and one as irrigation/Managed Aquifer Recharge
- Of the 554 wells with unknown or no registered status, 171 were for investigation purposes, 89 for monitoring, 53 for domestic, 43 for environmental, 13 for observation, four for drainage, four for irrigation, two for industrial and 175 had no purpose listed
- TDS data were available for 219 wells and ranged between 138 mg/L and 54,661 mg/L, indicating fresh to hyper-saline water. High TDS values were associated with groundwater wells west of the Port Adelaide River, closer to the St Vincent Gulf. The five closest wells with TDS data less than 30 years old, located east of the Port Adelaide River, ranged between 598 mg/L and 2,154 mg/L. These values were deemed to better represent groundwater at the site

The regional groundwater flow is inferred to be westerly/north-westerly towards the Port Adelaide River.

## 5.5 Determination of environmental values

To assess the contamination status of groundwater at a site, the SA EPA provides a four-step process to determine the environmental values of groundwater and to determine if actual or potential harm to groundwater that is not trivial has occurred. The four-step process described in the GAR (SA EPA 2019) is described in Table 5.1.

Table 5.1 Four Step Process for Determining Harm to Groundwater

Process	Assessment
1. Apply Table 3 of Schedule 1 of the 2015 Water Quality Environment Protection Policy (WQEPP, Gov SA 2015) based on TDS ranges. Groundwater well data were filtered so only recent data (<30 years old) from within the same geological structure were used.	The Lotsearch report listed 795 registered bores located within a 2.0 km radius of the site. The five closest wells with TDS data <30 years old ranged between 598 mg/L and 2,154 mg/L, indicating fresh (<1,000 mg/L) to slightly saline (1,000-3,000 mg/L) water.
2. Assess and identify surface water bodies within a 2.0 km buffer of the site.	Surface water receptors identified within 2.0 km of the site include a dam and the Port Adelaide River, both to the west of site. The Port River flows in a generally northern direction from the site, where it eventually discharges into the St. Vincent Gulf.
3. Review registered groundwater users in the WaterConnect database.	A review of the Water Connect database provided in the Lotsearch report (Appendix B) identified a total of 795 registered bores within a 2.0 km radius of the site. The identified uses of the bores with operational or unknown status were domestic (45), domestic (58), industrial (1), irrigation (11), irrigation/Managed Aquifer Recharge/monitoring (1), Managed Aquifer Recharge (4), recreational (1) and unlisted (52).
4. Apply SA EPA recognised criteria for the most sensitive environmental value.	The most sensitive environmental values to be applied to the site are the PFAS NEMP 2020 Drinking Water for human health.

The environmental values for the site were identified to include:

- Drinking water for human consumption (<1,200 mg/L)
- Irrigation and general water use (<3,000 mg/L)
- Livestock drinking water, aquaculture and human consumption of aquatic foods (<13,000 mg/L)
- Aquatic ecosystem, recreation and aesthetics (due to proximity to Port Adelaide River and West Lakes)

## 6. Site history searches

### 6.1 Historical ownership summary

Information regarding the historical ownership of the MFS site was obtained from historical certificates of title (CTs) through the South Australian Integrated Land Information System (SAILIS). Copies of the current and historical CTs are provided in Appendix C.

A review of the historical ownership of the MFS site identified that the land was granted to the MFS on 18 September 1997. Prior to this, ownership of the site was held by The Corporation of the City of Port Adelaide from August 1987 and, further back from this, James Casey (Port Adelaide Estate Laborer), Henry Joseph Barriss (the Elder of Portland Estate Laborer) and Richard Owen Evans (Port Adelaide Shipping Agent) held ownership of portions of the site between July 1871 and January 1906.

Relevant details are listed in Table 6.1.

**Table 6.1** Summary of Historical Certificates of Title

CT	Date	Details
5450/700	18/09/1997 to Current	Title issued to South Australian Metropolitan Fire Service, Allotment 21 Deposited Plan 20135 in the Area Named Port Adelaide Hundreds of Port Adelaide and Yatala.
4300/786	6/08/1987	The Corporation of the City of Port Adelaide, allotment 21 of portion of Section 1130 and other land Hundreds of Port Adelaide and Yatala.
193/54	02/07/1871	Title issued to James Casey of Portland Estate Laborer, Allotments 228 and 229.
742/164	26/01/1906	Title issued to Henry Joseph Barriss (the Elder of Portland Estate Laborer), Allotment 230 containing nine perches or thereabouts of the subdivision of Sections 1129 and 1130.
1122/132	18/06/1919	Title issued to Richard Owen Evans of Port Adelaide Shipping Agent, Portion of Allotments 231 and 232 by the subdivision of Sections 1129 and 1130.

### 6.2 Historical aerial photographs

Historical aerial photos are presented in the Lotsearch report in Appendix B. A review of the aerial images is provided in Table 6.2.

**Table 6.2** Summary of Historical Aerial Images

Year	Description
1935	The site appears to be divided into two sections. The eastern half of the site appears to consist of residential properties whereas the western half is entirely vacant with minimal vegetation. A road appears to be immediately east of site (present-day Langham Place). Vehicle tracks appear to be coming into the western portion of the site, indicating activity.
1949	The site appears largely the same as in 1935. A large oval-shaped track appears to have been established to the northwest/west, with the southeast portion of the track encroaching onto the site. More structures appear to have been erected to the northeast and southwest. A building in the east (approximately 150 m away) appears to have been developed further. Roads appear to have been established to the south of site. Vehicle tracks coming into the site appear to have reduced.
1959	The site appears largely the same as in 1949. A second oval-shaped track appears north of the first oval-shaped track, which has been developed into a sporting field. Increased vegetation can be seen in the residential areas immediately to the north. Langham Place to the east appears to be more pronounced. An unpaved road appears south of the site, with more structures and developments appearing to the south and southwest.
1969	The site appears to have been developed in the southern and southwestern portions with earthworks occurring in this area. New structures appear to have been erected to the north and west of the site. The roads south and southeast of the site appear to be more pronounced.

Year	Description
1979	The site appears to remain largely vacant except for the northeastern portion, where residential buildings are situated. Vegetation appears to have grown in the central and eastern portions of site. A new building appears to have been erected south of the site. An area north of site which formerly had residential buildings appears to have been cleared. The area to the southwest of the site which formerly had several buildings appears to have been cleared.
1989	A new road (present-day Grand Junction Road) appears to have been established immediately north of site, cutting across the sporting oval adjacent to site. The southern half of the sporting oval appears to have been reworked, resulting in vacant land. The areas south and southwest of the site appear to have been cleared. The road south of the site appears to have undergone redevelopment, appearing largely unpaved.
1999	The fire station appears to have been established. The northeastern portion of site appears to have been developed into a garden. New roads appear to have been established immediately to the west and southwest of site (Endeavour Drive and Clementina Drive). New buildings have been erected to the west, southwest and south of the site (residential areas, commercial buildings). Further west, a dam appears to have been established. The sporting oval to the north of the site appears to have been reworked and expanded horizontally to the west.
2002	No significant changes to the site since 1999 and its surrounds apart from the redevelopment to the north, which involved establishment of a carpark and removal of a few buildings.
2007	No significant changes since 2002 apart from new buildings erected north of site beyond Grand Junction Road and increased vegetation on-site and around the sporting oval. The oval to the north appears to have undergone minor cosmetic changes.
2012	No significant changes since 2007 apart from reduced vegetation on-site. A new building and car park appears to have been established to the southwest of site.
2017	No significant changes since 2012 apart from new buildings erected immediately south. A car park appears to have been developed further south.
2022	No significant changes since 2017.

### 6.3 SA EPA public register

The SA EPA maintains a public register under the Environment Protection Act 1993 to make information available for the public to inspect. Information available on the register includes environmental authorisations and applications, environmental protection and clean up orders and the site contamination index which includes Section 83A Notifications, Audit Notification, Audit Termination and Audit Report since 1 July 2009.

Results from the SA EPA Public Register and Site Contamination Index search provided by Lotsearch (Appendix B) are summarised in Table 6.3.

Table 6.3 Summary of SA EPA Public Register Search

Notification No.	Type	Address	Activity	Status	Loc Conf	Distance	Direction
62641	109 Notification	Lot 21 Grand Junction Rd PORT ADELAIDE SA 5015	Fire stations; Fire training areas	Current EPA List	Premise Match	0m	On- site
60198 - 01	S83A Notification	Lot 12 Endeavour Drive PORT ADELAIDE SA 5015	Service stations	Current EPA List	Premise Match	21m	West
12150	SAHC	Langham Place PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	42m	South
61644	Audit Notification	13 College Street & Lot 359 Liddon Place PORT ADELAIDE SA 5015	Fill or soil importation; Metal forging; Motor vehicle repair or maintenance	Current EPA List	Premise Match	94m	Northeast

Notification No.	Type	Address	Activity	Status	Loc Conf	Distance	Direction
61644 - 001	Audit Report	13 College Street & Lot 359 Liddon Place PORT ADELAIDE SA 5015	Fill or soil importation; Iron or steel works; Motor vehicle repair or maintenance	Current EPA List	Premise Match	94m	Northeast
12365	Pre-1 July 2009 Audit Notification	21-29 Clare Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	180m	Northeast
12365 - 001	Pre-1 July 2009 Audit Report	21-29 Clare Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	180m	Northeast
61922 - 01	S83A Notification	49-55 Clare Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	213m	Northeast
61992	Audit Notification	49-55 Clare Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	213m	Northeast
61785	Audit Notification	55 College Street PORT ADELAIDE SA 5015	Metal processing, smelting, refining or metallurgical works; Wood preservation works	Current EPA List	Premise Match	214m	Northeast
61785	Audit Termination	55 College Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	214m	Northeast
61956	Audit Notification	55 College Street PORT ADELAIDE SA 5015	Fill or soil importation; Metal coating, finishing or spray painting	Current EPA List	Premise Match	214m	Northeast
61956 - 001	Audit Report	55 College Street PORT ADELAIDE SA 5015	Fill or soil importation; Metal coating, finishing or spray painting	Current EPA List	Premise Match	214m	Northeast
62058 - 01	S83A Notification	Lot 5 and 55 College Street PORT ADELAIDE SA 5015	Fill or soil importation; Metal coating, finishing or spray painting	Current EPA List	Premise Match	214m	Northeast
62058 - 02	S83A Notification	Lot 5 and 55 College Street PORT ADELAIDE SA 5015	Fill or soil importation; Metal coating, finishing or spray painting	Current EPA List	Premise Match	214 m	Northeast
61992 - 001	Audit Report	49-55 Clare Street PORT ADELAIDE SA 5015	Foundry; Metal forging	Current EPA List	Premise Match	220 m	Northeast
61992 - 002	Audit Report	49-55 Clare Street PORT ADELAIDE SA 5015	Foundry; Metal forging	Current EPA List	Premise Match	220 m	Northeast
60453 - 01	S83A Notification	70-84 Webb Street QUEENSTOWN SA 5014	Listed Substances (storage)	Current EPA List	Premise Match	282 m	Southeast
60791	Audit Notification	Lot 105 Webb Street QUEENSTOWN SA 5014	Not recorded	Current EPA List	Premise Match	282 m	Southeast

Notification No.	Type	Address	Activity	Status	Loc Conf	Distance	Direction
60791	Audit Termination	Lot 105 Webb Street QUEENSTOWN SA 5014	Not recorded	Current EPA List	Premise Match	282 m	Southeast
61651	Audit Termination	Lot 15 Portland Road QUEENSTOWN SA 5014	Not recorded	Current EPA List	Premise Match	282 m	Southeast
61651	Audit Notification	Lot 15 Portland Road QUEENSTOWN SA 5014	Fill or soil importation; Listed Substances (storage)	Current EPA List	Premise Match	282 m	Southeast
61721	109 Notification	Lot 15 Portland Road QUEENSTOWN SA 5014	Not recorded	Current EPA List	Premise Match	282 m	Southeast
62714	Audit Notification	Lot 15 Portland Road QUEENSTOWN SA 5014	Fill or soil importation; Listed Substances (storage)	Current EPA List	Premise Match	282 m	Southeast

## 6.4 SA EPA section 7 search

GHD contacted the SA EPA in order to obtain an EPA Statement to Form 1 – Contracts for Sale of Land or Business for CT Volume 5450 Folio 700. Particulars of mortgages, charges and prescribed encumbrances affecting the land, and environmental protection are summarised below.

Regarding the site (CT 5450/700), the EPA had no records of issues associated with the particulars of mortgages, charges or prescribed encumbrances affecting the land.

There were the following particulars relating to environment protection:

- Details of serious or material environmental harm caused or threatened in the course of an activity (whether or not notified under section 83 of the Environment Protection Act 1993)
- A copy of a report of an environmental assessment (whether prepared by the EPA or some other person or body and whether required under legislation) that forms part of the information required to be recorded in the public register

The EPA Statement to Form 1 – Contracts for Sale of Land or Business is presented in Appendix F.

## 6.5 Review of council records

Council records were not available for review at the time of preparation of this report, however a review of the available site history, including aerial photographs has not identified any significant unknown land uses in the vicinity of the site. This lack of council records is not considered likely to change the outcome of the preliminary site investigation.

## 7. Potentially contaminating activities

The following potentially contaminating activities (PCAs) with respect to PFAS have been identified as potentially occurring at or in the vicinity of the site.

Table 7.1 Potentially Contaminating Activities (PCAs)

Activity	On-site or Off-site	Rationale/Details	Likely Significance
Historical storage and use of PFAS-containing firefighting foams	On-site	PFAS-containing firefighting foams were historically stored and used on-site in training exercises. This PCA at the site may have impacted concrete slabs, bitumen, soil and groundwater.	<b>High significance</b> Contamination associated with this PCA may have a significant impact on concrete, bitumen and soil at the site which could potentially impact groundwater on- and off-site.
Washdown of equipment, trucks and appliances and drainage to stormwater	On-site	After exercises and/or incidents involving AFFF use, appliances, equipment and tanks were washed down in the back yard and rear apron of the engine room. The wash down water was directed towards the garden or managed as stormwater and discharged off-site. Foam and wastewater from the training events was allowed to soak into the ground or discharged off-site into the public stormwater system.	<b>High significance</b> Contamination associated with this PCA may have a significant impact to on- and off-site soil, bitumen, concrete and surface water receptors and has contributed to off-site migration of PFAS compounds. Groundwater may also be impacted given the soaking of wastewater through the soil.
Historical incident involving release of approximately 150 L of AFFF concentrate	On-site and off-site	PFAS containing AFFF was used instead of high expanding foam, resulting in 'knee-deep' blanket of foam across the training area.	<b>High significance</b> Contamination associated with this PCA may have a significant impact on concrete, bitumen and soil at the site which could potentially impact groundwater on- and off-site.
Residual PFAS in concrete or bitumen	On-site	If PFAS has impacted concrete or bitumen at the site, there is the potential for leaching of PFAS from concrete or bitumen surfaces within the fire training area to underlying and surrounding soil and groundwater	<b>High significance</b> Contamination associated with this PCA will likely continue to contribute to contaminant mass flux into the environment over time.

## 8. Preliminary conceptual site model (PCSM)

A preliminary conceptual site model (PCSM) is a qualitative analysis tool which identifies the contamination sources, transport mechanisms, exposure pathways and receptors considered in a site-specific risk assessment.

For an identifiable risk to exist, an exposure pathway must be present which requires each of the following to be identified:

- Presence of substances that may cause harm (SOURCE)
- Presence of a receptor which may be harmed (RECEPTOR)
- Existence of a means of exposing a receptor to the source (EXPOSURE ROUTE/EXPOSURE PATHWAY)

A PCSM has been developed based on GHD's understanding of the site setting, including geology, hydrogeology and surrounding land use in order to identify potentially significant source-pathway-receptor (SPR) linkages in respect to the potential risks that may be encountered during excavation and construction activities.

### 8.1 Chemicals of potential concern

In accordance with the VSCAP, this PSI is limited to PFAS, which are the primary chemicals of potential concern (CoPC) for this site.

Scientists have identified thousands of individual PFAS compounds, but commercial laboratories only typically analyse a limited selection of these. The standard analytical suite focuses on the 28 individual PFAS that generally account for the majority of the PFAS mass in environmental samples and that are understood to be the most persistent, bioaccumulative and toxic.

The groups of PFAS included in the standard analytical suite include:

- Perfluoroalkyl sulfonates (PFSA), of which PFOS and PFHxS are the most well-studied
- Perfluoroalkyl carboxylates (PFCA), of which PFOA is the most well-studied
- Fluorotelomers, including 8:2 FTS and 6:2 FTS
- Perfluoroalkyl sulfonamides

### 8.2 Sources of PFAS contamination

Based on the site history investigation, the primary source of PFAS contamination at the site is the historical use of PFAS containing firefighting foams for firefighting training activities.

The following known and potential sources of PFAS were identified on-site:

- Historical use of PFAS containing foams on the training area in the south-western portion of the site
- Historical release of 150 L of AFFF concentrate during an incident
- Historical, on-site storage of 200L drums of PFAS-containing AFFF on-site
- Ongoing leaching of PFAS from impacted surfaces (concrete slabs and bitumen) associated with fire training and wash down activities
- Ongoing leaching of PFAS from impacted soils beneath the open areas historically used for training activities or the post-incident washing down of appliances

### 8.3 Exposure pathways

For an exposure to occur, a complete pathway must exist between a source of contamination and a receptor. Where the exposure pathway is incomplete, there is no exposure, and hence no risk. The following exposure pathways need to be considered:

- Inhalation or ingestion of contaminated soil or dust
- Abstraction of contaminated groundwater for drinking, irrigation or recreational use (off-site)

- Direct dermal contact or incidental ingestion of contaminated soil, groundwater or surface runoff from impacted surfaces (concrete slabs or bitumen)
- Surface runoff and groundwater transporting contaminants off-site to the downstream and down-gradient neighbouring areas, including surface water bodies
- Direct or indirect ecological contact and bioaccumulation

## **8.4 Receptors**

The potential receptors relevant to site activities are:

- On-site staff and site visitors,
- Ecological receptors within Port Adelaide River and the St Vincent Gulf
- Ecological receptors on-site coming into contact with soils
- Subsurface construction workers and maintenance workers (on-site and downgradient off-site) who come into contact with contaminated soil and/or groundwater
- People using groundwater for domestic and drinking purposes downgradient off-site
- People using groundwater for irrigation of vegetable gardens and/or fruit trees for consumption
- People growing edible vegetation in open soil which may interact with groundwater
- People using groundwater for recreational purposes such as filling of swimming pools downgradient off-site

## **8.5 Potentially complete exposure pathways**

Potential SPR linkages based on the PCSM are summarised in Table 8.1.

Table 8.1 Preliminary Conceptual Site Model

Potential source	Receptor	Pathway	Pathway present?
On-site PFAS impacted soils	Site users, visitors, maintenance and construction workers	Direct dermal contact with contaminated soil	<b>Possible</b> PFAS concentrations detected to date in on-site soils were below the adopted Tier 1 HIL B for residential minimal accessible soil land use. It is considered unlikely that site users, visitors, maintenance or construction workers would be exposed to PFAS quantities detrimental to their health. However, the extent of PFAS impacts in soils across the site has not been determined yet.
		Incidental ingestion of contaminated soil	
		Inhalation of contaminated soil or dust from disturbed soils	
	Ecosystem at, and immediately surrounding, the site	Direct contact with contaminated soil	<b>Unlikely</b> PFAS concentrations detected to date in soil on-site (GHD 2019) adjacent the historical training and washdown area exceeded the adopted Tier 1 interim ecological criteria for indirect exposure. The site however, is not considered of high ecological value given its location in a built-up urban environment.
		Ingestion of contaminated soil	
		Bioaccumulation through indirect contact	
Groundwater beneath the site	Rainwater/surface runoff leaching impacted soil followed by migration through porous media into groundwater	<b>Likely</b> The potential of PFAS leaching from contaminated soil into the groundwater has not been tested yet. It is likely that PFAS has infiltrated through to groundwater at the site given the historical training and use of AFFF and relatively shallow groundwater (2-5 m).	
On-site PFAS impacted concrete and paved surfaces	Soil and groundwater beneath the site	Rainwater/surface runoff leaching impacted soil followed by migration through porous media into groundwater	<b>Possible</b> Concrete and paved surfaces on-site that have historically been exposed to PFAS containing AFFF during training activities have not been tested for PFAS yet. The potential of PFAS leaching from contaminated concrete or pavers on-site into the soil and groundwater has not been tested yet.
PFAS-impacted groundwater	People using groundwater for: domestic and drinking purposes	Consumption of contaminated groundwater	<b>Possible</b> The presence of PFAS impacts in groundwater has not been confirmed. Within a 2.0 km radius of the site 66 registered wells had TDS values in groundwater below 1,200 mg/L, which is considered suitable for domestic and primary irrigation purposes (Gov SA 2015), and 58 registered wells had domestic purposes. Therefore, potable use of groundwater cannot be ruled out.
	People using groundwater for irrigation of edible vegetation with which they grow produce for consumption	Consumption of edible vegetation irrigated by contaminated groundwater	<b>Possible</b> The median TDS value of groundwater within 2.0 km of the site was 1,451 mg/L, which is considered suitable for domestic and primary irrigation purposes (Gov SA 2015). Eight registered wells within a 2.0 km radius of the site had irrigation purposes. The presence of PFAS impacts in groundwater has not been confirmed. Residential properties with gardens where fruit and/or vegetables could be grown are present within 2.0 km of the site.

	People growing edible vegetation in open soil which may interact with groundwater	Consumption of PFAS impacted edible vegetation	<p><b>On-site: No</b> Limited testing to date of fruit grown on-site reported PFAS concentrations below the adopted guidelines (GHD 2019). MFS staff have been advised since 2018/2019 not to eat fruit grown on-site. The MFS has removed all edible vegetation from the site.</p> <p><b>Off-site: Unlikely</b> Potential impacts to groundwater from PFAS down hydraulic gradient of the site has not been determined. Groundwater is likely between 2-5 m depth which is below the rotting depth of most plants however residential properties with gardens where fruit and/or vegetables could be grown are present within 2.0 km of the site.</p>
	People using groundwater for recreational purposes such as filling of swimming pools	Incidental ingestion of contaminated groundwater	<p><b>Possible</b> Potential impacts to groundwater from PFAS down hydraulic gradient of the site has not been determined and three wells within a 2.0 km radius of the site were identified as having a recreational purpose.</p>
	Down gradient off-site maintenance and sub-surface construction workers that contact PFAS contaminated groundwater	Direct dermal contact or incidental ingestion of contaminated groundwater	<p><b>Unlikely</b> Whilst it is possible that off-site maintenance or sub-surface construction workers could incidentally ingest contaminated groundwater, it is unlikely that interaction with groundwater would occur in substantial quantities</p>
	Freshwater ecosystem of Port Adelaide River	Direct contact and/or ingestion with contaminated groundwater. Bioaccumulation through the food chain.	<p><b>Possible</b> The presence of PFAS impacts in groundwater has not been confirmed, nor has the possible interaction of the Port Adelaide River with the groundwater.</p>
PFAS impacted surface waters (off-site)	People using surface waters for recreational activities (swimming)	Incidental ingestion of contaminated groundwater	<p><b>Unlikely</b> The potential for PFAS impacts in surface water down gradient of the site has not been determined however it is considered unlikely that it would be present in concentrations that may present a risk due to dilution.</p>
	People Fishing from surface waters	Consumption of PFAS contaminated biota	<p><b>Possible</b> The potential for PFAS impacts in surface water down gradient of the site has not been determined however it is considered possible that bioaccumulation of PFAS in fish and other marine animals and subsequent consumption may present a human health risk.</p>
	Marine ecosystems downstream from the site	Discharge of PFAS impacted surface water into the marine environment	<p><b>Possible</b> The potential for PFAS impacts in surface water down gradient of the site has not been determined however it is considered possible given the training using AFFF that was undertaken at the site and surface water runoff being discharged to a local storm water system and the Port Adelaide River</p>

## 8.6 PCSM data gaps

Based upon the results of this PSI and the PCSM, the following data gaps have been identified:

- The lateral and vertical extent of PFAS contamination in soil across the site has not been delineated
- The presence of PFAS contamination in groundwater has not been determined
- The presence of PFAS contamination in off-site surface water bodies has not been determined
- The extent of PFAS contamination in on-site concrete and paved surfaces and the associated PFAS flux from these materials has not been assessed
- The extent of groundwater use for domestic (i.e. potable), irrigation or recreational purposes downgradient of the site remains remain unknown

## 9. Conclusions

GHD was engaged by the MFS to undertake a desktop preliminary site investigation for the Port Adelaide Fire Station located at corner Grand Junction Road and Langham Place, Port Adelaide, South Australia 5015.

The objective of the PSI was to assess the historical activities at the site that involved the use of PFAS containing AFFF and the potential for associated contamination that may pose a risk to human health or the environment.

The results of this desktop investigation provided information for the development of a PCSM and to inform the preparation of an SAQP for further assessments.

Documented information confirmed the historical use and storage of PFAS containing AFFF on-site after the MFS station was established. Prior to this no on-site land uses were identified that would have likely contributed to PFAS contamination. Off-site sources of PFAS contamination have not been confirmed, however, other commercial/industrial sites located in the vicinity of the MFS station, such as numerous metal manufacturing facilities and the Port Adelaide Depot, may have the potential to cause PFAS contamination of groundwater in the area.

The site contamination index listed an audit notification and the potentially contaminating activities metal processing, metallurgical works and metal coating for a site in 55 College Street, 240 m northeast of the Port Adelaide Fire Station. Historically, PFAS were often used as mist suppressants in metal processing, especially electroplating. However, assuming groundwater flow in the westerly/northwesterly direction towards Port Adelaide River the site in 55 College Street is likely located down hydraulic gradient of the Port Adelaide Fire Station and therefore not relevant as a potential off-site PFAS source.

### Determination of site contamination and risk to human health and environment

Based on previous assessment results, PFAS impacts were identified in two soil samples beneath the site at concentrations exceeding the PFAS NEMP 2020 ecological indirect exposure criteria. The occurrence of PFAS in groundwater has not been assessed. The lateral and vertical extent of PFAS in soils across the site has not been delineated.

The PCSM identified the following potentially complete PFAS exposure pathways:

- Exposure of site users, visitors, maintenance and construction workers to PFAS via direct dermal contact with contaminated soil, incidental ingestion of contaminated soil or inhalation of contaminated soil/dust from disturbed soils
- Leaching of PFAS from contaminated soils or concrete/paver surfaces followed by migration through porous media into groundwater
- Consumption of contaminated groundwater extracted off-site for domestic/drinking purposes
- Consumption of edible vegetation grown off-site where plants were irrigated with contaminated groundwater or where plant roots accessed shallow contaminated groundwater. It should be noted that no edible vegetation is present at the site
- Incidental ingestion of contaminated groundwater extracted off-site for recreational purposes such as filling of swimming pools
- Fresh water aquatic life found in surface water receptors such as the Port Adelaide River

### Recommendations

GHD recommends that a SAQP be prepared to undertake further intrusive investigations to determine the nature and extent of identified PFAS impacts in on-site and off-site areas associated with historical activities at the site and to identify and assess any potential risks to human health and the environment in the context of relevant current and potential future land uses.

# 10. References

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# Figures

- Figure 1*      *Site Location Plan*
- Figure 2*      *Historical Sampling Locations*
- Figure 3*      *Site Layout Plan*
- Figure 4*      *Surrounding land use and zoning*

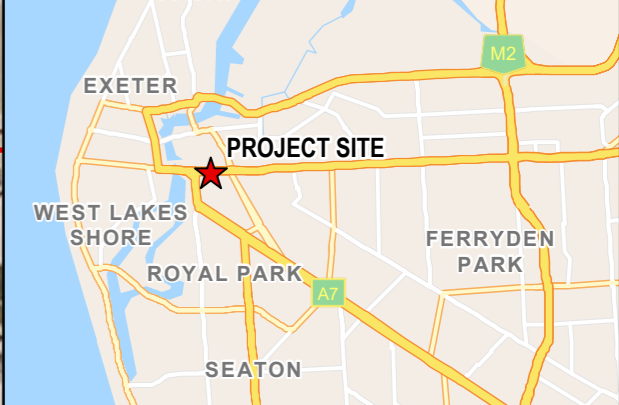


**Legend**

- Road
- Site Boundary
- Cadastre

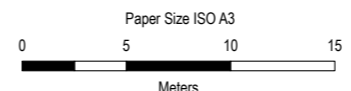
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LANGHAM

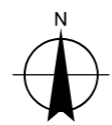


**Data Disclaimer**

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Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 54



South Australian Metropolitan Fire Service  
PSI/SAQP for MFS High Risk Sites

Project No. 12602101  
Revision No. A  
Date 08/05/2023

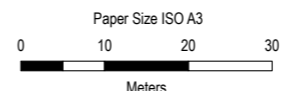
**Port Adelaide Site Location Plan**

**FIGURE 1**

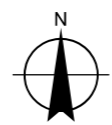


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Map Projection: Transverse Mercator  
 Horizontal Datum: GDA 1994  
 Grid: GDA 1994 MGA Zone 54



South Australian Metropolitan Fire Service  
 PSI/SAQP for MFS High Risk Sites

Port Adelaide Historical  
 Sampling Locations Plan

Project No. 12602101  
 Revision No. A  
 Date 08/05/2023

FIGURE 2

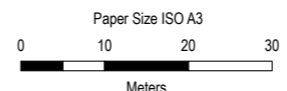


**Legend**

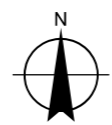
- Stormwater Pits
- Road
- Historical Storage of PFAS
- Historical Training Area
- Wash Down Bay
- 16,000L Diesel UST
- Site Boundary
- Cadastre

**Data Disclaimer**

© 2023. Whilst every care has been taken to prepare this map, GHD, DPTI and MetroMap make no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and cannot accept liability and responsibility of any kind (whether in contract, tort or otherwise) for any expenses, losses, damages and/or costs (including indirect or consequential damage) which are or may be incurred by any party as a result of the map being inaccurate, incomplete or unsuitable in any way and for any reason.



Map Projection: Transverse Mercator  
 Horizontal Datum: GDA 1994  
 Grid: GDA 1994 MGA Zone 54

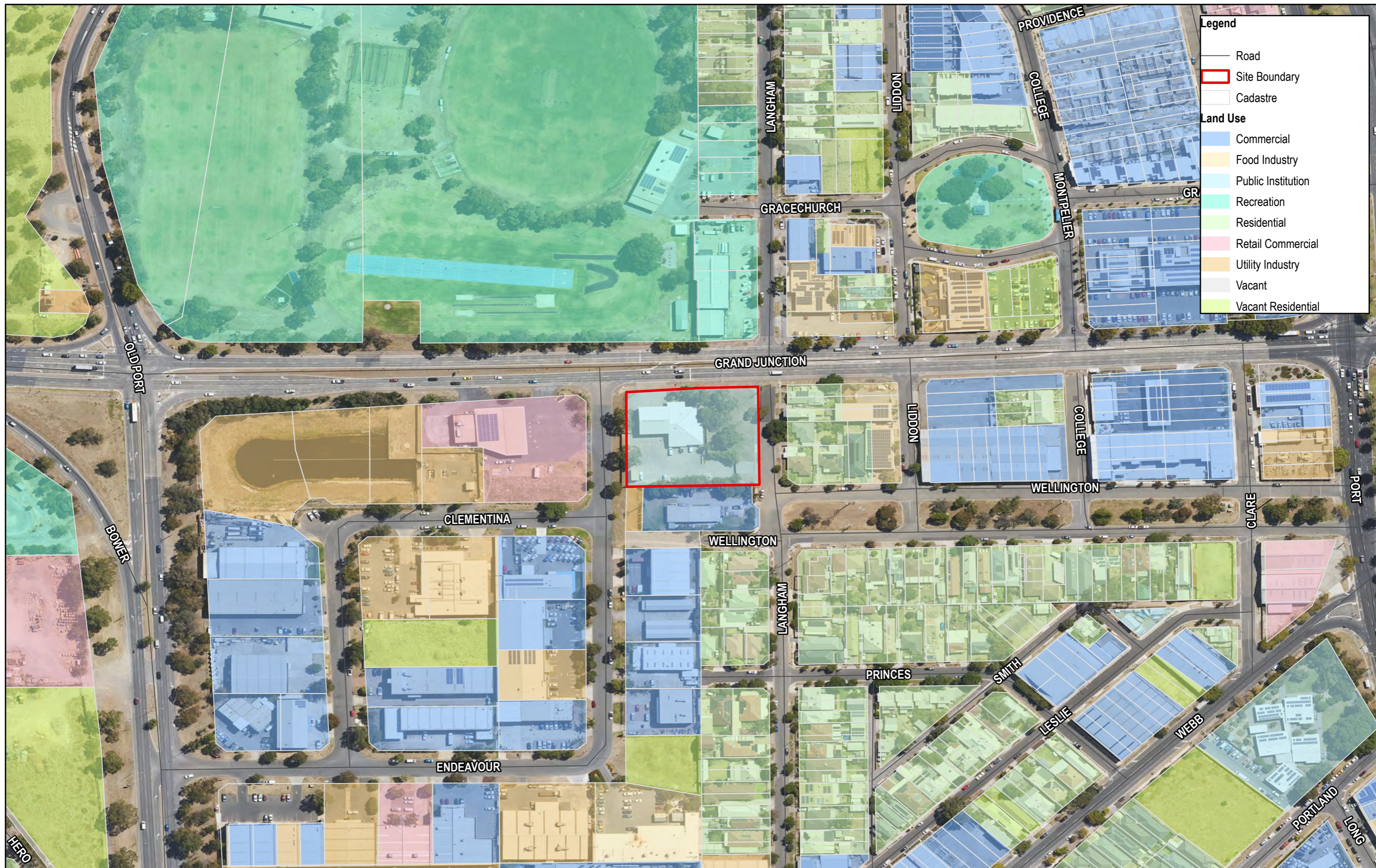


South Australian Metropolitan Fire Service  
 PSI/SAQP for MFS High Risk Sites

Project No. 12602101  
 Revision No. A  
 Date 08/05/2023

**Port Adelaide Site Layout Plan**

**FIGURE 3**



**Legend**

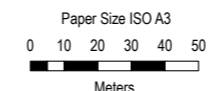
- Road
- ▭ Site Boundary
- ▭ Cadastre

**Land Use**

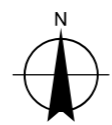
- Commercial
- Food Industry
- Public Institution
- Recreation
- Residential
- Retail Commercial
- Utility Industry
- Vacant
- Vacant Residential

Data Disclaimer

© 2023. Whilst every care has been taken to prepare this map, GHD, DPTI and MetroMap make no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and cannot accept liability and responsibility of any kind (whether in contract, tort or otherwise) for any expenses, losses, damages and/or costs (including indirect or consequential damage) which are or may be incurred by any party as a result of the map being inaccurate, incomplete or unsuitable in any way and for any reason.



Map Projection: Transverse Mercator  
 Horizontal Datum: GDA 1994  
 Grid: GDA 1994 MGA Zone 54



South Australian Metropolitan Fire Service  
 PSI/SAQP for MFS High Risk Sites

Port Adelaide  
 Surrounding Land Use Plan

Project No. 12602101  
 Revision No. A  
 Date 08/05/2023

**FIGURE 4**

\\ghdnet\ghd\AU\Melbourne\Projects\3312602101\GIS\Maps\Deliverables\12602101\_PortAdelaideSiteLocationPlan.aprx  
 Print date: 08 May 2023 - 18:02  
 Data source: GHD: Site Boundary (2022); DPTI: Cadastre, Roads (2015), Land Use (2017); MetroMap: Imagery (Imagery Date: 18/12/2022, Date Extracted: 01/03/2023). Created by: ejan

# Appendices

# **Appendix A**

**SA EPA Correspondence**

# OFFICIAL



## Environment Protection Authority

GPO Box 2607 Adelaide SA 5001

T (08) 8204 2004

Country areas 1800 623 445

EPA GENI 62917

Krystle Mitchell  
Senior Scientific and Environmental Officer  
South Australian Metropolitan Fire Service  
By Email: [Krystle.Mitchell@eso.sa.gov.au](mailto:Krystle.Mitchell@eso.sa.gov.au)

Dear Ms Mitchell,

### **RE: REVIEW OF SITE CONTAMINATION REPORT – ACTION REQUIRED**

#### **Site: Various Metropolitan Fire Service (MFS) Fire Stations, South Australia**

Thank you for providing the Environment Protection Authority (EPA) with a copy of the following report:

- *MFS 17 Fire Stations PFAS Risk Profiling*, prepared by GHD and dated 26 October 2022.

The above report documents a desktop risk profiling and prioritisation assessment completed for 17 MFS stations previously identified as containing PFAS contamination, based on limited site sampling completed in 2019 (GHD 2019)<sup>1</sup>.

The EPA requests that you submit a plan of proposed works and associated timelines to address the highest risk sites by **30 June 2023**.

If you agree to undertake the above listed works it is requested that you submit written acknowledgement to the EPA stating as such. If you wish to discuss potential alterations to the recommended works or delivery date please contact the EPA as soon as possible.

It is not clear in the above report whether stations where no soil sampling was completed, or where the limited sampling showed no site contamination, were considered as part of the risk screening assessment. The EPA notes that the sampling documented in GHD (2019) was highly limited and may not capture all potential PFAS source areas at a station. The EPA recommends that these stations be risk profiled if not undertaken previously.

Please provide a copy of this letter to your engaged consultant to assist them in developing a scope of works for the relevant sites. Fact sheets relating to your obligations under the *Environment Protection Act 1993* and how to engage a site contamination consultant be found at [www.epa.sa.gov.au](http://www.epa.sa.gov.au). If you would like further assistance on this matter please contact Brooke Ryan on (08) 8204 8525 or at [brooke.ryan2@sa.gov.au](mailto:brooke.ryan2@sa.gov.au).

Yours sincerely

*H Custance*

Hannah Custance

**PRINCIPAL ADVISER, SITE CONTAMINATION**

**ENVIRONMENT PROTECTION AUTHORITY**

Date: 1 February 2023

Cc: Ben Petticrew, Technical/Project Director – Contamination Assessment and Remediation, GHD ([ben.petticrew@ghd.com](mailto:ben.petticrew@ghd.com))

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<sup>1</sup> *MFS State Wide Appliance and Station Sampling*, prepared by GHD and dated May 2019.

# **Appendix B**

**Lotsearch Report LS040253 EP**



# LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

**Date: 10 Feb 2023 12:35:38**

**Reference: LS040253 EP**

**Address: Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015**

**Disclaimer:**

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features.

You should obtain independent advice before you make any decision based on the information within the report.

The detailed terms applicable to use of this report are set out at the end of this report.

# Dataset Listing

Datasets contained within this report, detailing their source and data currency:



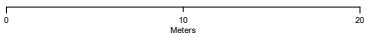
Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	PSMA Australia Limited	01/11/2021	01/11/2021	Quarterly	-	-	-	-
EPA Site Contamination Index	EPA South Australia	06/01/2023	06/01/2023	Monthly	1000m	1	5	102
EPA Environmental Protection Orders	EPA South Australia	25/01/2023	25/01/2023	Monthly	1000m	0	1	4
EPA Environmental Authorisations	EPA South Australia	25/01/2023	25/01/2023	Monthly	1000m	0	2	24
EPA Assessment Areas	EPA South Australia	25/01/2023	25/01/2023	Quarterly	1000m	0	0	1
EPA Groundwater Prohibition Areas	EPA South Australia	23/01/2023	20/08/2022	Monthly	1000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	06/01/2023	06/01/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	06/01/2023	06/01/2023	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	13/12/2022	13/12/2022	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	02/09/2022	02/09/2022	Quarterly	2000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	0	0	0
EPA Collection Depots	EPA South Australia	20/12/2022	20/08/2022	Quarterly	1000m	0	0	1
National Liquid Fuel Facilities	Geoscience Australia	23/08/2022	15/03/2012	Annually	1000m	0	0	1
Historical Business Directories (Premise & Intersection Matches)	Hardie Grant, Sands & McDougall			Not required	50m	0	-	4
Historical Business Directories (Road & Area Matches)	Hardie Grant, Sands & McDougall			Not required	50m	-	-	81
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant, Sands & McDougall			Not required	250m	0	1	1
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant, Sands & McDougall			Not required	250m	-	0	1
Mines and Mineral Deposits	Department for Energy and Mining	18/10/2022	18/10/2022	Quarterly	1000m	0	0	0
Groundwater Aquifers	Department for Environment and Water	29/03/2021	01/01/2008	Annually	1000m	1	1	2
Drillholes	Department for Environment and Water	19/10/2022	07/10/2022	Quarterly	2000m	0	0	795
Surface Geology 1:100,000	Department for Energy and Mining	12/07/2018	01/07/2018	As required	1000m	1	1	3
Geological Linear Structures 1:100,000	Department for Energy and Mining	12/07/2018	01/07/2018	As required	1000m	0	0	0
Atlas of Australian Soils	ABARES	19/05/2017	17/02/2011	As required	1000m	1	1	1
Soil Types	Department for Environment and Water	12/07/2018	01/07/2009	As required	1000m	1	1	1
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	1	1	2
Acid Sulfate Soil Potential	Department for Environment and Water	06/04/2022	18/02/2020	Annually	1000m	1	1	1
Soil Salinity - Watertable Induced	Department for Environment and Water	23/06/2022	09/06/2016	Annually	1000m	1	1	1
Soil Salinity - Non-watertable	Department for Environment and Water	19/04/2022	18/02/2020	Annually	1000m	1	1	1
Soil Salinity - Non-watertable (magnesia patches)	Department for Environment and Water	19/04/2022	18/02/2020	Annually	1000m	1	1	1

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Planning and Design Code - Zones	Attorney-General's Department	13/12/2022	23/06/2022	Monthly	1000m	1	5	17
Planning and Design Code - Subzones	Attorney-General's Department	13/12/2022	20/01/2022	Monthly	1000m	0	1	1
Land Use Generalised 2020	Department of Planning, Transport and Infrastructure	18/10/2022	07/03/2022	Annually	1000m	1	9	12
Commonwealth Heritage List	Australian Government Department of Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	1	2	4
State Heritage Areas	Department for Environment and Water	06/04/2022	18/02/2020	Annually	1000m	0	0	1
SA Heritage Places	Department for Environment and Water	19/10/2022	23/09/2021	Quarterly	1000m	0	0	140
Aboriginal Land	Department for Energy and Mining	06/04/2022	08/04/2018	Annually	1000m	0	0	0
Planning and Design Code - Overlays - Bushfire	Attorney-General's Department	13/12/2022	13/12/2022	Monthly	1000m	0	0	0
Bushfires and Prescribed Burns History	Department for Environment and Water	06/04/2022	24/02/2020	Annually	1000m	0	0	0
Planning and Design Code - Overlays - Flooding	Attorney-General's Department	13/12/2022	13/12/2022	Monthly	1000m	2	3	3
Groundwater Dependent Ecosystems Atlas	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	0	0	0
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	0	0	0
Ramsar Wetland Areas	Department for Environment and Water	28/03/2022	18/02/2020	Annually	1000m	0	0	0

# Site Diagram

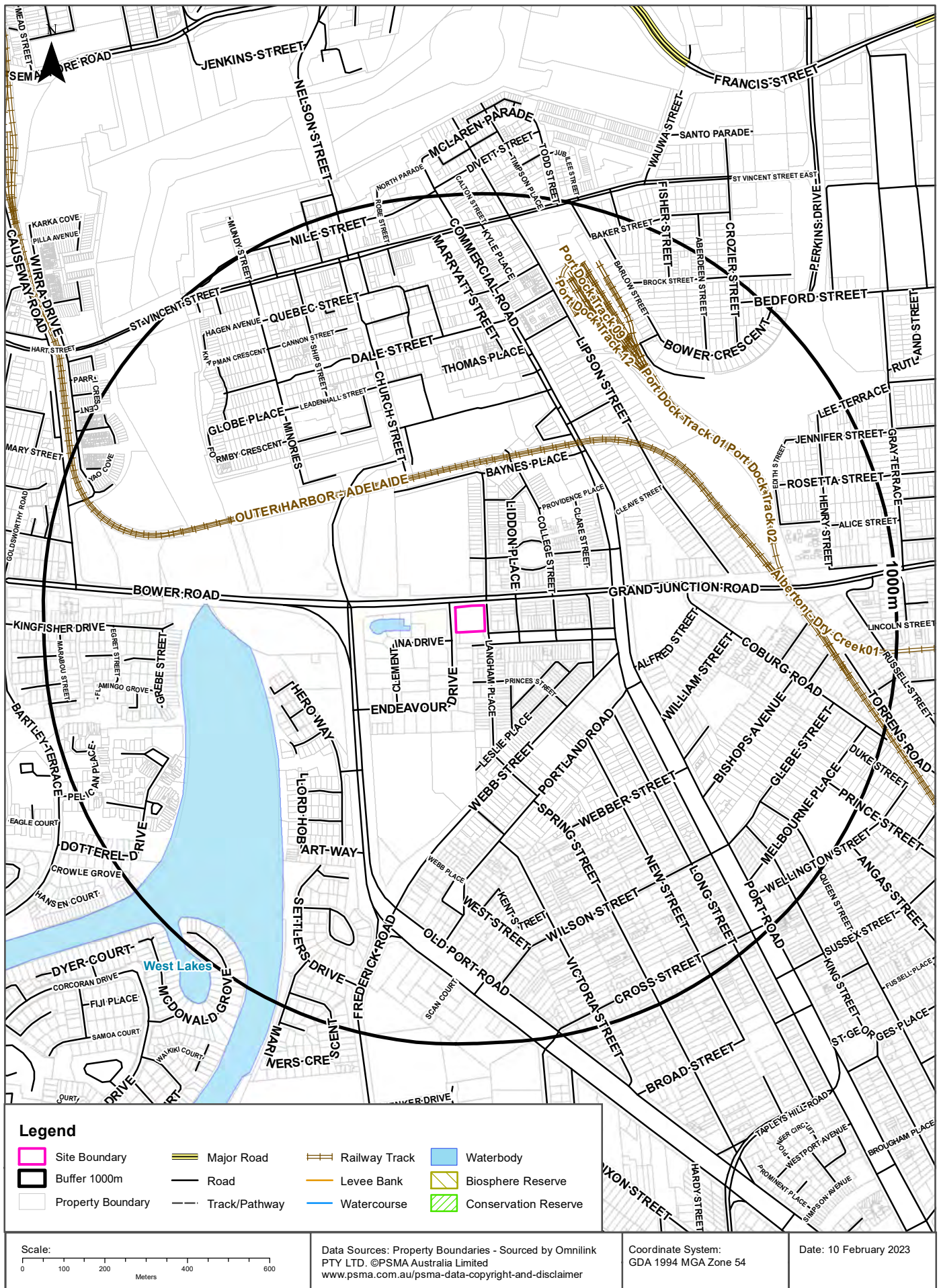
Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



<b>Legend</b>  Site Boundary  Internal Parcel Boundaries	<b>Total Area:</b> 4349m <sup>2</sup> <b>Total Perimeter:</b> 264m	<b>Scale:</b> 
	Disclaimers: Measurements are approximate only and may have been simplified or smaller lengths removed for readability.  Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.	Data Source Aerial Imagery: © Aerometrex Pty Ltd
		Date: 10 February 2023

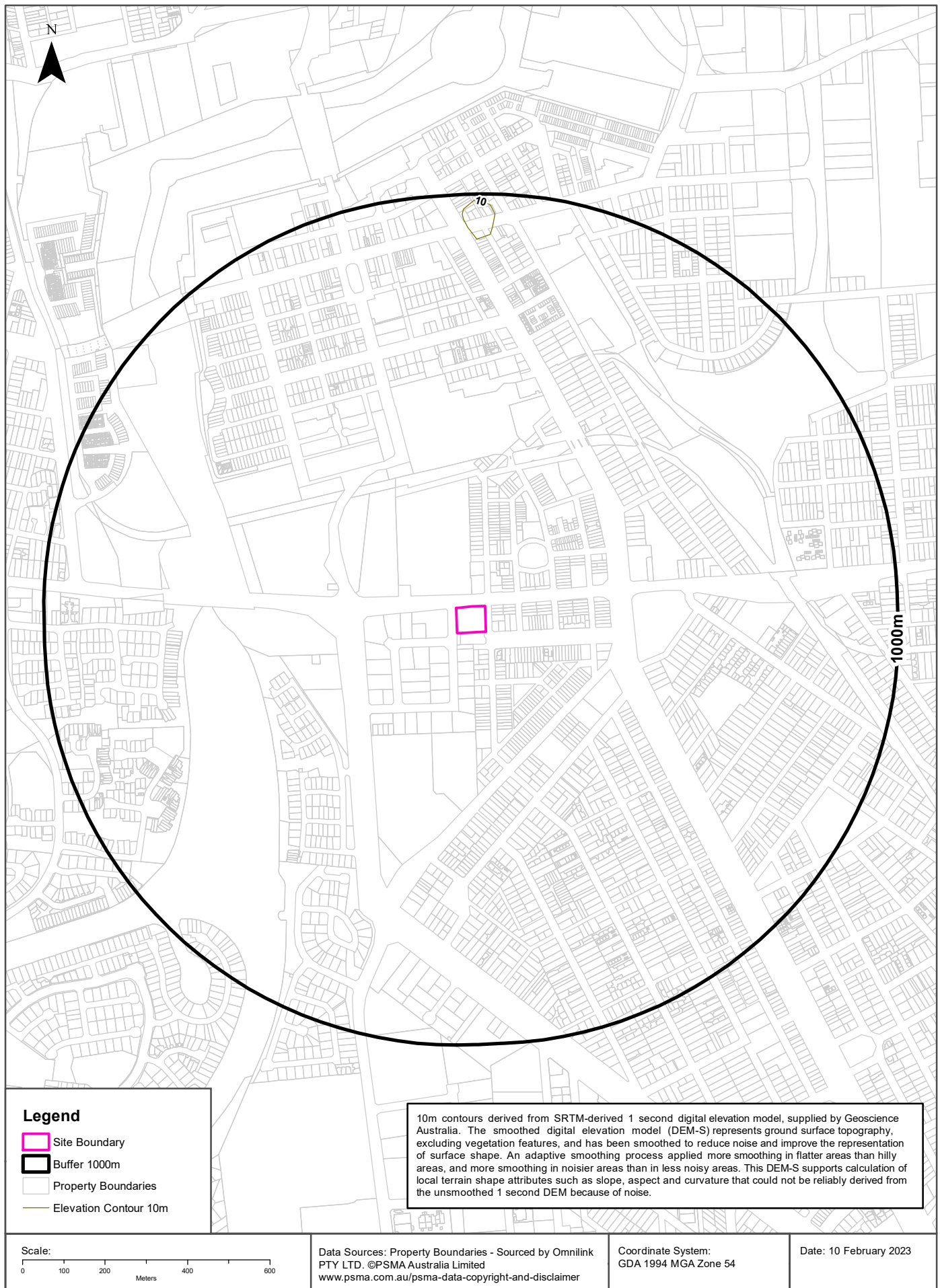
# Topographic Features

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



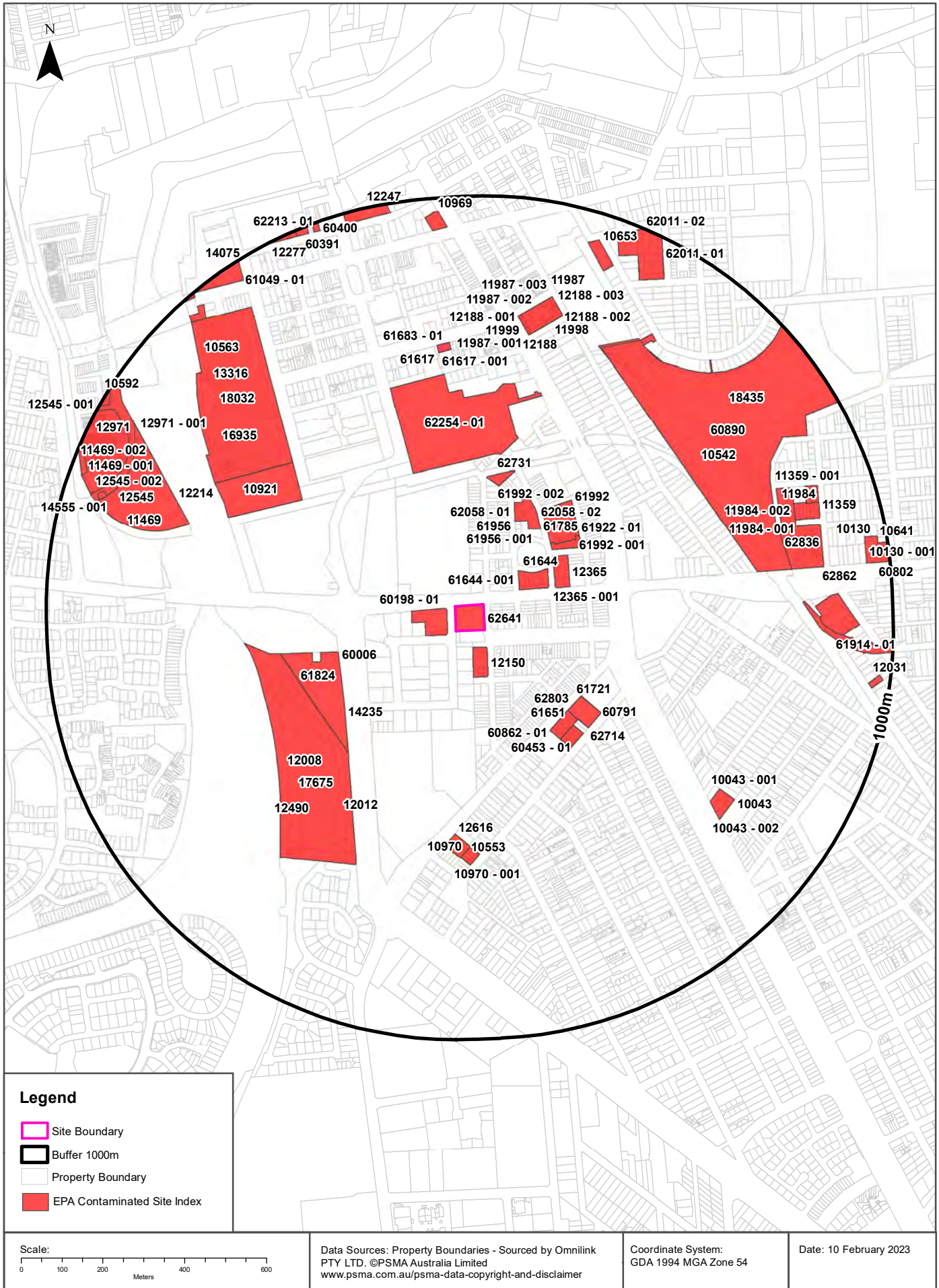
# Elevation Contours

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



# EPA Site Contamination Index

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



# EPA Contaminated Land

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## EPA Site Contamination Index

Sites on the EPA Contamination Index within the dataset buffer:

Notification No	Type	Address	Activity	Status	LocConf	Dist	Dir
62641	109 Notification	Lot 21 Grand Junction Road PORT ADELAIDE SA 5015	Fire stations; Fire training areas	Current EPA List	Premise Match	0m	On-site
60198 - 01	S83A Notification	Lot 12 Endeavour Drive PORT ADELAIDE SA 5015	Service stations	Current EPA List	Premise Match	21m	West
12150	SAHC	Langham Place PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	42m	South
61644	Audit Notification	13 College Street & Lot 359 Liddon Place PORT ADELAIDE SA 5015	Fill or soil importation; Iron or steel works; Motor vehicle repair or maintenance	Current EPA List	Premise Match	94m	North East
61644 - 001	Audit Report	13 College Street & Lot 359 Liddon Place PORT ADELAIDE SA 5015	Fill or soil importation; Iron or steel works; Motor vehicle repair or maintenance	Current EPA List	Premise Match	94m	North East
12365	Pre 1 July 2009 Audit Notification	21-29 Clare Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	180m	North East
12365 - 001	Pre 1 July 2009 Audit Report	21-29 Clare Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	180m	North East
61922 - 01	S83A Notification	49-55 Clare Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	213m	North East
61992	Audit Notification	49-55 Clare Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	213m	North East
61785	Audit Notification	55 College Street PORT ADELAIDE SA 5015	Metal processing, smelting, refining or metallurgical works; Wood preservation works	Current EPA List	Premise Match	214m	North East
61785	Audit Termination	55 College Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	214m	North East
61956	Audit Notification	55 College Street PORT ADELAIDE SA 5015	Fill or soil importation; Metal coating, finishing or spray painting	Current EPA List	Premise Match	214m	North East
61956 - 001	Audit Report	55 College Street PORT ADELAIDE SA 5015	Fill or soil importation; Metal coating, finishing or spray painting	Current EPA List	Premise Match	214m	North East
62058 - 01	S83A Notification	Lot 5 and 55 College Street PORT ADELAIDE SA 5015	Fill or soil importation; Metal coating, finishing or spray painting	Current EPA List	Premise Match	214m	North East
62058 - 02	S83A Notification	Lot 5 and 55 College Street PORT ADELAIDE SA 5015	Fill or soil importation; Metal coating, finishing or spray painting	Current EPA List	Premise Match	214m	North East
61992 - 001	Audit Report	49-55 Clare Street PORT ADELAIDE SA 5015	Foundry; Metal forging	Current EPA List	Premise Match	220m	North East
61992 - 002	Audit Report	49-55 Clare Street PORT ADELAIDE SA 5015	Foundry; Metal forging	Current EPA List	Premise Match	220m	North East
60453 - 01	S83A Notification	70-84 Webb Street QUEENSTOWN SA 5014	Listed Substances (storage)	Current EPA List	Premise Match	282m	South East
60791	Audit Notification	Lot 105 Webb Street QUEENSTOWN SA 5014	Not recorded	Current EPA List	Premise Match	282m	South East
60791	Audit Termination	Lot 105 Webb Street QUEENSTOWN SA 5014	Not recorded	Current EPA List	Premise Match	282m	South East
61651	Audit Termination	Lot 15 Portland Road QUEENSTOWN SA 5014	Not recorded	Current EPA List	Premise Match	282m	South East
61651	Audit Notification	Lot 15 Portland Road QUEENSTOWN SA 5014	Fill or soil importation; Listed Substances (storage)	Current EPA List	Premise Match	282m	South East
61721	109 Notification	Lot 15 Portland Road QUEENSTOWN SA 5014	Not recorded	Current EPA List	Premise Match	282m	South East
62714	Audit Notification	Lot 15 Portland Road QUEENSTOWN SA 5014	Fill or soil importation; Listed Substances (storage)	Current EPA List	Premise Match	282m	South East

Notification No	Type	Address	Activity	Status	LocConf	Dist	Dir
62714	Audit Termination	Lot 15 Portland Road QUEENSTOWN SA 5014	Not recorded	Current EPA List	Premise Match	282m	South East
62803	Audit Notification	Lot 15 Portland Road QUEENSTOWN SA 5014	Fill or soil importation; Listed Substances (storage)	Current EPA List	Premise Match	282m	South East
60862 - 01	S83A Notification	Lots 1-5 Webb Street & Lots 10-14 Portland Road QUEENSTOWN SA 5014	Listed Substances (storage)	Current EPA List	Premise Match	283m	South East
60006	Audit Notification	Allotments 1 & 2 Old Port Road WEST LAKES SA 5021	Not recorded	Current EPA List	Premise Match	293m	South West
60006	Audit Termination	Allotments 1 & 2 Old Port Road WEST LAKES SA 5021	Not recorded	Current EPA List	Premise Match	293m	South West
61824	Audit Notification	Lots 1 & 2 Old Port Road WEST LAKES SA 5021	Agricultural activities; Fill or soil importation	Current EPA List	Premise Match	293m	South West
62731	Liability Transfer	Lot 1 Baynes Place PORT ADELAIDE SA 5015	Fill or soil importation	Current EPA List	Premise Match	293m	North
14235	Pre 1 July 2009 Audit Notification	Lot 1 Old Port Road WEST LAKES SA 5021	Not recorded	Current EPA List	Premise Match	310m	South West
14235	Pre 1 July 2009 Audit Termination	Lot 1 Old Port Road WEST LAKES SA 5021	Not recorded	Current EPA List	Premise Match	310m	South West
62254 - 01	S83A Notification	1-36 / 200-220 Commercial Road PORT ADELAIDE SA 5015	Fill or soil importation	Current EPA List	Premise Match	341m	North
12008	109 Notification	Assessment Area WEST LAKES SA 5021	Not recorded	Current EPA List	Premise Match	387m	South West
17675	109 Notification	Assessment Area WEST LAKES SA 5021	Not recorded	Current EPA List	Premise Match	387m	South West
12012	109 Notification	Newport Area WEST LAKES SA 5021	Not recorded	Current EPA List	Premise Match	402m	South West
12490	109 Notification	Allot 33 DP 18539 & Allot 62 DP 18539 Hero Way WEST LAKES SA 5021	Not recorded	Current EPA List	Premise Match	434m	South West
10921	SAHC	Lot 100 The Minorities PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	457m	North West
10553	SAHC	26 Webb Street QUEENSTOWN SA 5014	Not recorded	Current EPA List	Premise Match	496m	South
12616	109 Notification	26 Webb Street QUEENSTOWN SA 5014	Works depots	Current EPA List	Premise Match	496m	South
10970	Pre 1 July 2009 Audit Notification	19 Portland Road QUEENSTOWN SA 5014	Fill or soil importation; Works depots	Current EPA List	Premise Match	528m	South
10970 - 001	Pre 1 July 2009 Audit Report	19 Portland Road QUEENSTOWN SA 5014	Fill or soil importation; Works depots	Current EPA List	Premise Match	528m	South
10563	SAHC	Harbourside Quay Minorities Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	532m	North West
13316	SAHC	Harbourside Quay Minorities Street PORT ADELAIDE SA 5015	Breweries; Fill or soil importation; Incineration; Railway operations; Wood preservation works	Current EPA List	Premise Match	532m	North West
16935	SAHC	Harbourside Quay Minorities Street PORT ADELAIDE SA 5015	Breweries; Fill or soil importation; Incineration; Railway operations; Wood preservation works	Current EPA List	Premise Match	532m	North West
18032	109 Notification	Harbourside Quay Minorities Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	532m	North West
60890	109 Notification	Various Allotments GILLMAN SA 5013	Railway operations	Current EPA List	Premise Match	593m	North East
10542	SAHC	Hundred of Port Adelaide PORT ADELAIDE SA 5015	Railway operations	Current EPA List	Premise Match	594m	North East
61617	Audit Notification	74-76 Dale Street PORT ADELAIDE SA 5015	Fill or soil importation	Current EPA List	Premise Match	622m	North
61617 - 001	Audit Report	74-76 Dale Street PORT ADELAIDE SA 5015	Fill or soil importation	Current EPA List	Premise Match	622m	North
61683 - 01	S83A Notification	74-76 Dale Street PORT ADELAIDE SA 5015	Fill or soil importation	Current EPA List	Premise Match	622m	North
11987	Pre 1 July 2009 Audit Notification	141 Commercial Road PORT ADELAIDE SA 5015	Paint manufacture	Current EPA List	Premise Match	667m	North
11987 - 001	Pre 1 July 2009 Audit Report	141 Commercial Road PORT ADELAIDE SA 5015	Paint manufacture	Current EPA List	Premise Match	667m	North
11987 - 002	Pre 1 July 2009 Audit Report	141 Commercial Road PORT ADELAIDE SA 5015	Paint manufacture	Current EPA List	Premise Match	667m	North
11987 - 003	Pre 1 July 2009 Audit Report	141 Commercial Road PORT ADELAIDE SA 5015	Paint manufacture	Current EPA List	Premise Match	667m	North

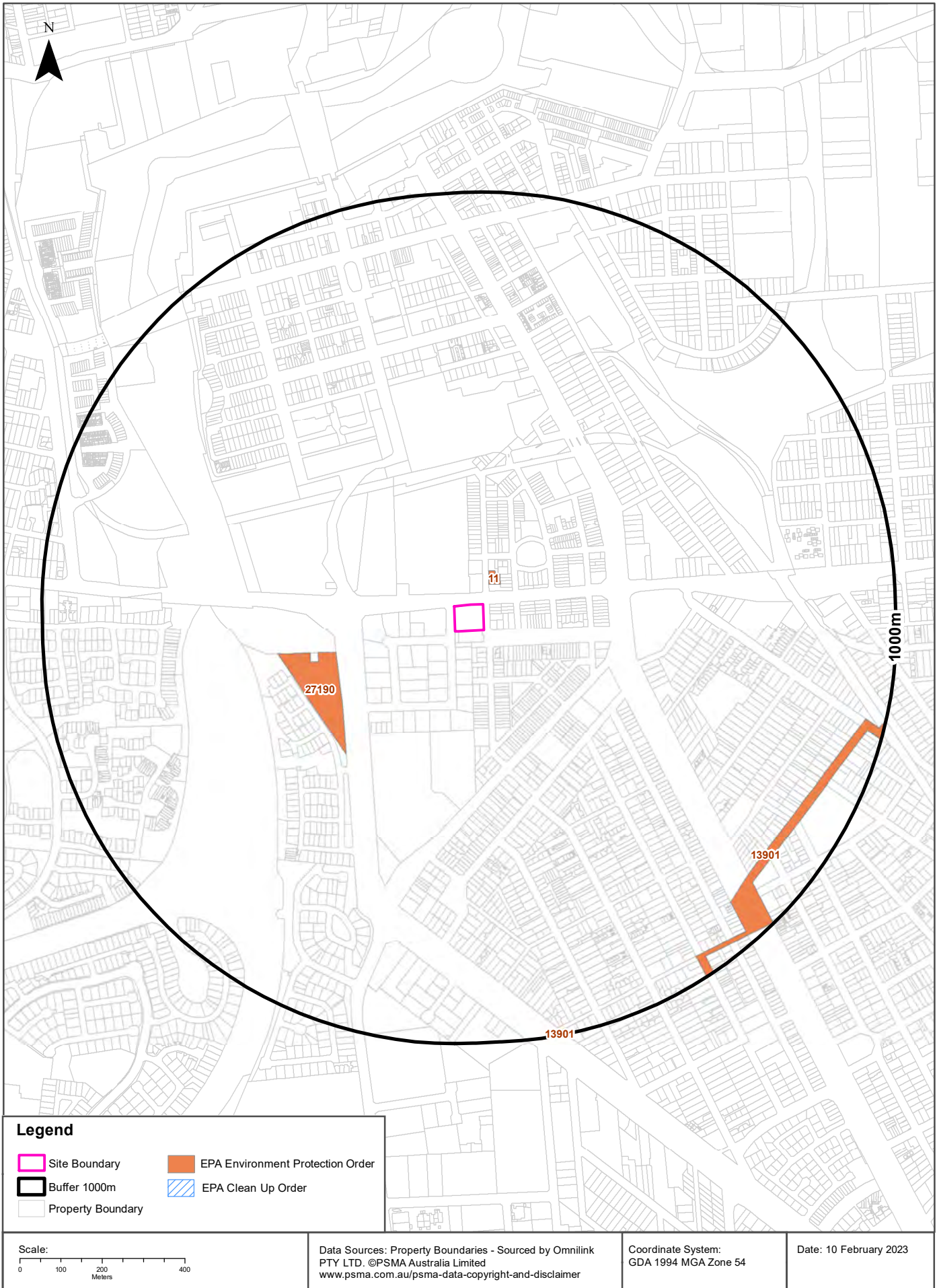
Notification No	Type	Address	Activity	Status	LocConf	Dist	Dir
11998	109 Notification	Charlotten Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	667m	North
11999	109 Notification	Lots 2 & 3 Lipson Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	667m	North
12188	Pre 1 July 2009 Audit Notification	Lots 2 & 3 Lipson Street PORT ADELAIDE SA 5015	Paint manufacture	Current EPA List	Premise Match	667m	North
12188 - 001	Pre 1 July 2009 Audit Report	Lots 2 & 3 Lipson Street PORT ADELAIDE SA 5015	Paint manufacture	Current EPA List	Premise Match	667m	North
12188 - 002	Pre 1 July 2009 Audit Report	Lots 2 & 3 Lipson Street PORT ADELAIDE SA 5015	Paint manufacture	Current EPA List	Premise Match	667m	North
12188 - 003	Pre 1 July 2009 Audit Report	Lots 2 & 3 Lipson Street PORT ADELAIDE SA 5015	Paint manufacture	Current EPA List	Premise Match	667m	North
18435	Pre 1 July 2009 Audit Termination	Rosewater to Dry Creek Rail Corridor OTTOWAY SA 5013	Not recorded	Current EPA List	Network of Features	676m	North East
18435	Pre 1 July 2009 Audit Notification	Rosewater to Dry Creek Rail Corridor OTTOWAY SA 5013	Not recorded	Current EPA List	Network of Features	676m	North East
12214	SAHC	Rennie Road ETHELTON SA 5015	Not recorded	Current EPA List	Premise Match	680m	West
11469	Pre 1 July 2009 Audit Notification	Precinct 1c - Port Adelaide Waterfront Rennie Road ETHELTON SA 5015	Not recorded	Current EPA List	Premise Match	680m	North West
11469 - 001	Pre 1 July 2009 Audit Report	Precinct 1c - Port Adelaide Waterfront Rennie Road ETHELTON SA 5015	Not recorded	Current EPA List	Premise Match	680m	North West
11469 - 002	Pre 1 July 2009 Audit Report	Precinct 1c - Port Adelaide Waterfront Rennie Road ETHELTON SA 5015	Not recorded	Current EPA List	Premise Match	680m	North West
12545	Pre 1 July 2009 Audit Notification	Precinct 1a - Port Adelaide Waterfront Rennie Road ETHELTON SA 5015	Not recorded	Current EPA List	Premise Match	680m	North West
12545 - 001	Pre 1 July 2009 Audit Report	Precinct 1a - Port Adelaide Waterfront Rennie Road ETHELTON SA 5015	Not recorded	Current EPA List	Premise Match	680m	North West
12545 - 002	Pre 1 July 2009 Audit Report	Precinct 1a - Port Adelaide Waterfront Rennie Road ETHELTON SA 5015	Not recorded	Current EPA List	Premise Match	680m	North West
12971	Pre 1 July 2009 Audit Notification	Precinct 1b - Port Adelaide Waterfront Rennie Road ETHELTON SA 5015	Not recorded	Current EPA List	Premise Match	680m	North West
12971 - 001	Pre 1 July 2009 Audit Report	Precinct 1b - Port Adelaide Waterfront Rennie Road ETHELTON SA 5015	Not recorded	Current EPA List	Premise Match	680m	North West
10043	Pre 1 July 2009 Audit Notification	208 Port Road ALBERTON SA 5014	Not recorded	Current EPA List	Premise Match	692m	South East
10043 - 001	Pre 1 July 2009 Audit Report	208 Port Road ALBERTON SA 5014	Not recorded	Current EPA List	Premise Match	692m	South East
10043 - 002	Pre 1 July 2009 Audit Report	208 Port Road ALBERTON SA 5014	Listed Substances (storage)	Current EPA List	Premise Match	692m	South East
62836	Audit Notification	Former Port Adelaide Gasworks, Rosewater ROSEWATER SA 5013	Gasworks; Listed Substances (storage)	Current EPA List	Premise Match	742m	East
62862	Voluntary Proposal	Former Port Adelaide Gasworks, Henry, Alice and Rosetta Streets, Rosewater Henry Street ROSEWATER SA 5013	Cement works; Gasworks	Current EPA List	Premise Match	742m	East
11359	Pre 1 July 2009 Audit Notification	Cnr Rosetta, Henry & Alice Street ROSEWATER SA 5013	Listed Substances (storage)	Current EPA List	Premise Match	788m	East
11359 - 001	Pre 1 July 2009 Audit Report	Cnr Rosetta, Henry & Alice Street ROSEWATER SA 5013	Listed Substances (storage)	Current EPA List	Premise Match	788m	East
11984	Pre 1 July 2009 Audit Notification	5,7,9,9A,11 & C22112, Cnr Alice and Henry Streets Alice Street ROSEWATER SA 5013	Listed Substances (storage)	Current EPA List	Premise Match	788m	East
11984 - 001	Pre 1 July 2009 Audit Report	5,7,9,9A,11 & C22112, Cnr Alice and Henry Streets Alice Street ROSEWATER SA 5013	Listed Substances (storage)	Current EPA List	Premise Match	788m	East
11984 - 002	Pre 1 July 2009 Audit Report	5,7,9,9A,11 & C22112, Cnr Alice and Henry Streets Alice Street ROSEWATER SA 5013	Listed Substances (storage)	Current EPA List	Premise Match	788m	East
61914 - 01	S83A Notification	Lot 31 and 111-116 Russell Street ROSEWATER SA 5013	Not recorded	Current EPA List	Premise Match	808m	East
10653	SAHC	1-5 Barlow Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	867m	North
62011 - 01	S83A Notification	1-5 Baker Street PORT ADELAIDE SA 5015	Fire stations	Current EPA List	Premise Match	880m	North East
62011 - 02	S83A Notification	1-5 Baker Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	880m	North East
14555 - 001	Pre 1 July 2009 Audit Report	Port Adelaide Waterfront Precinct 2A Area B1 Rennie Road ETHELTON SA 5015	Not recorded	Current EPA List	Premise Match	895m	West

Notification No	Type	Address	Activity	Status	LocConf	Dist	Dir
10969	109 Notification	66 Commercial Road PORT ADELAIDE SA 5015	Listed Substances (storage)	Current EPA List	Premise Match	920m	North
14075	109 Notification	Precinct 7 - Port Adelaide Waterfront Mundy & St Vincent Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	932m	North West
10130	Pre 1 July 2009 Audit Notification	Part Section 699, & Part Tol 1 & (Cnr Gray Tce) Grand Junction Road ROSEWATER SA 5013	Not recorded	Current EPA List	Premise Match	940m	East
10130 - 001	Pre 1 July 2009 Audit Report	Part Section 699, & Part Tol 1 & (Cnr Gray Tce) Grand Junction Road ROSEWATER SA 5013	Fill or soil importation; Motor vehicle repair or maintenance; Service stations	Current EPA List	Premise Match	940m	East
10641	SAHC	Grand Junction Road ROSEWATER SA 5013	Not recorded	Current EPA List	Premise Match	940m	East
60802	109 Notification	41-43 Grand Junction Road ROSEWATER SA 5013	Fill or soil importation; Service stations	Current EPA List	Premise Match	940m	East
12031	SAHC	Lot 24 844 Torrens Road ROSEWATER SA 5013	Not recorded	Current EPA List	Premise Match	946m	East
61049 - 01	S83A Notification	LOT 11 St Vincent Street PORT ADELAIDE SA 5015	Fill or soil importation; Metal processing, smelting, refining or metallurgical works; Railway operations	Current EPA List	Premise Match	953m	North West
12247	SAHC	North Parade PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	972m	North
60400	SAHC	LOT 98 10 North Parade PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	977m	North
60391	109 Notification	Port Adelaide TAFE 7 North Parade PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	980m	North West
10592	SAHC	Lots 3, 4 and 11 Rennie Road GLANVILLE SA 5015	Not recorded	Current EPA List	Premise Match	983m	North West
12277	SAHC	1 Mundy Street PORT ADELAIDE SA 5015	Not recorded	Current EPA List	Premise Match	984m	North West
62213 - 01	S83A Notification	Lot 1042 Mundy Street PORT ADELAIDE SA 5015	Motor vehicle repair or maintenance	Current EPA List	Premise Match	984m	North West

Site Contamination Index Data Source: EPA South Australia

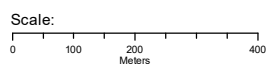
# EPA Environment Protection and Clean Up Orders

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



### Legend

- Site Boundary
- EPA Environment Protection Order
- Buffer 1000m
- EPA Clean Up Order
- Property Boundary



Data Sources: Property Boundaries - Sourced by Omnilink PTY LTD. ©PSMA Australia Limited  
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Coordinate System:  
 GDA 1994 MGA Zone 54

Date: 10 February 2023

# EPA Public Register

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## EPA Environment Protection and Clean Up Orders

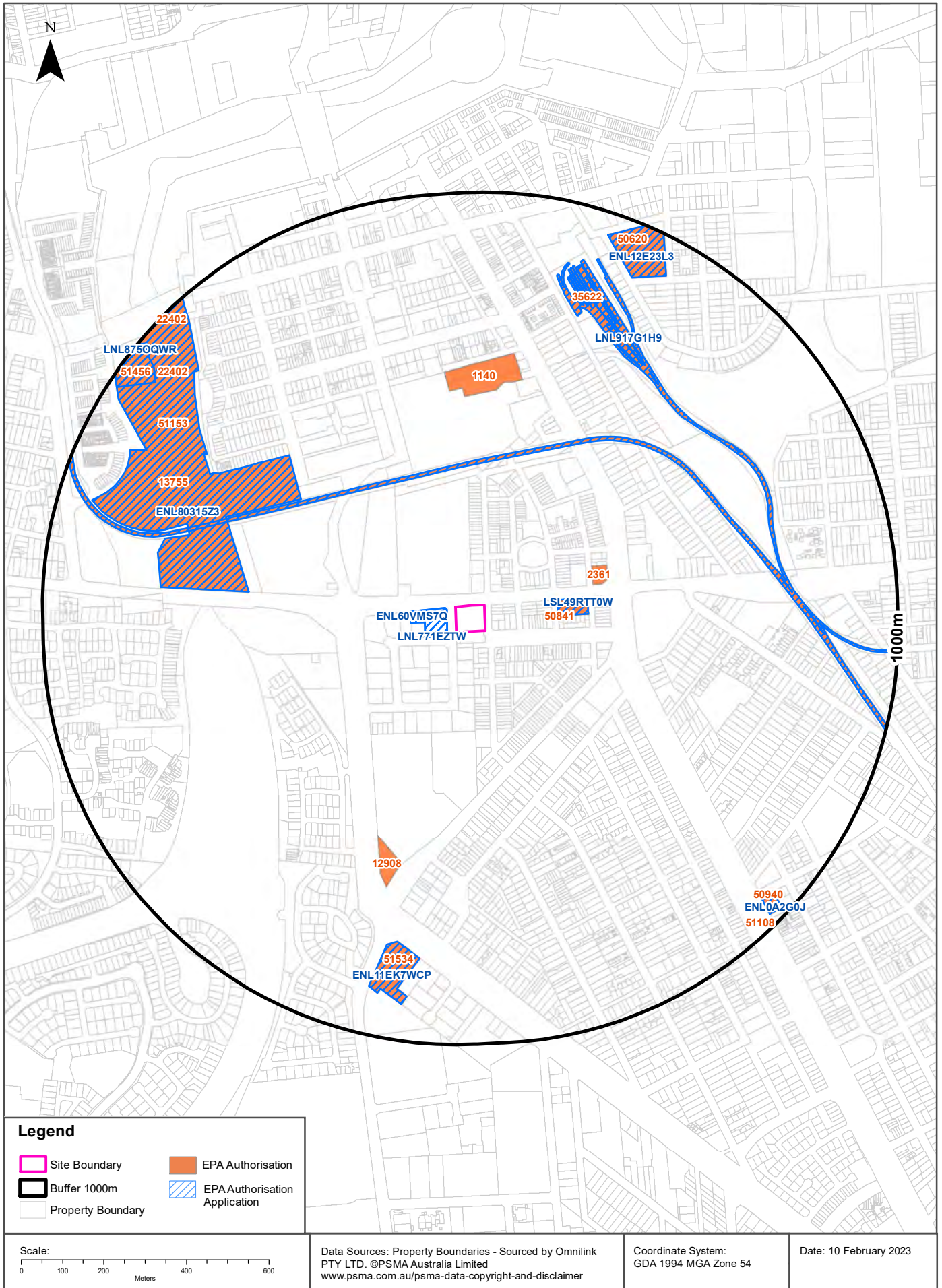
EPA Environment Protection and Clean Up Orders, within the dataset buffer:

Record No.	Record Type	Record Status	Entity	Site Address	Activity	EPA Register Status	LocConf	Dist	Dir
11	ENVIRONMENT PROTECTION ORDER	COMPLIED	T & P Parissos Pty Ltd	Langham Place, Port Adelaide SA 5015	Caused environmental nuisance in the form of noise.	Current EPA Register	Premise Match	51m	North East
27190	ENVIRONMENT PROTECTION ORDER	ISSUED	Colangelo West Lakes Garden and Landscaping Supplies	Old Port Road, West Lakes SA 5021	Caused an environmental nuisance in the form of dust.	Current EPA Register	Premise Match	293m	South West
13901	ENVIRONMENT PROTECTION ORDER	ISSUED	LEED ENGINEERING AND CONSTRUCTION PTY LTD	Between Bolivar WWTP And Port Adelaide WWTP SA	Disposed of saline waters from earthworks drainage to the stormwater system in a manner that had the potential to cause, contamination of fresh waters, and harm to the Magazine Creek Wetlands.	Current EPA Register	Road Match	867m	South East
13620	ENVIRONMENT PROTECTION ORDER	ISSUED	Enchanted Crew	Port Adelaide SA 5015	Failed to submit a noise monitoring plan as required by a licence condition.	Current EPA Register	Suburb Match	-	-

Authorisations Data Source: EPA South Australia

# EPA Authorisations and Applications

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



# EPA Public Register

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## EPA Authorisations and Applications

EPA Authorisations and Authorisation Applications within the dataset buffer:

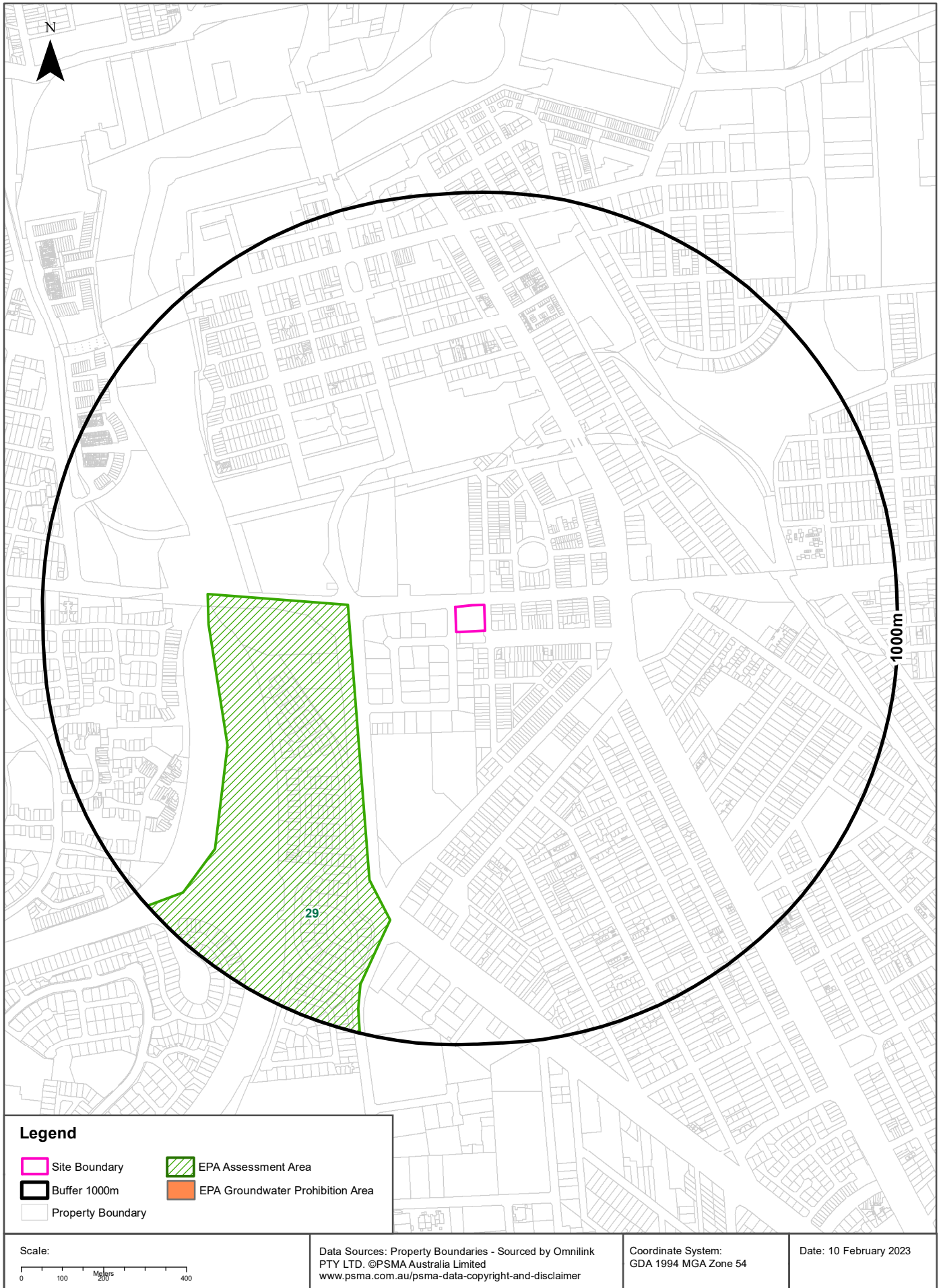
Record No.	Record Type	Record Status	Entity	Site Address	Activity	EPA Register Status	LocConf	Dist	Dir
ENL60 VMS7Q	LICENCE APPLICATION	Authorisation Updated	SRI LAXMI NARSIMHA PTY LTD	Allotment 12, Endeavour Drive, PORT ADELAIDE SA 5015	Petrol stations	Current EPA Register	Premise Match	21m	West
LNL771 EZTW	LICENCE APPLICATION	Authorisation Updated	ANDRASH PORT ADELAIDE PTY LTD	Allotment 12, Endeavour Drive, PORT ADELAIDE SA 5015	Petrol stations	Current EPA Register	Premise Match	21m	West
50841	LICENCE	Issued	LIBERTY OIL CONVENIENCE PTY LTD	Allotment 125 Grand Junction Road, PORT ADELAIDE SA 5015	Petrol stations	Current EPA Register	Premise Match	177m	East
LSL49 RTT0W	LICENCE APPLICATION	Authorisation Updated	LIBERTY OIL CONVENIENCE PTY LTD	Allotment 125 Grand Junction Road, PORT ADELAIDE SA 5015	Petrol stations	Current EPA Register	Premise Match	177m	East
2361	LICENCE	Issued	SCOUT ASSOCIATION OF AUSTRALIA (SA BRANCH)	326 Commercial Road, PORT ADELAIDE SA 5015	Waste recycling depot (waste for resource recovery or transfer)	Current EPA Register	Premise Match	267m	East
35622	LICENCE	Surrendered	LAING O'ROURKE AUSTRALIA CONSTRUCTION PTY LTD	Various Locations Along The Adelaide Metropolitan Rail Network, SA	Railway operations	Current EPA Register	Network of Features	327m	North East
LNL917 G1H9	LICENCE APPLICATION	Authorisation Updated	BOWMANS RAIL PTY LTD	Various Locations across Inner and Outer Harbour of the Port of Adelaide	Railway operations	Current EPA Register	Network of Features	327m	North East
13755	LICENCE	Surrendered	FLINDERS PORTS PTY LIMITED	Various Berths Along Port River & Various Berths At Outer Harbor, PORT ADELAIDE, 5015, SA	Earthworks drainage - for each day on which earthworks drainage takes place during the licence period	Current EPA Register	Area Match	457m	North West
51153	LICENCE	Issued	FLINDERS PORTS PTY LIMITED	Port River (Port Adelaide River)	Dredging - for each day on which dredging occurs during the licence period	Current EPA Register	Area Match	457m	North West
ENL80 315Z3	LICENCE APPLICATION	Authorisation Updated	FLINDERS PORTS PTY LIMITED	Port River (Port Adelaide River)	Dredging - for each day on which dredging occurs during the licence period	Current EPA Register	Area Match	457m	North West
1140	LICENCE	Issued	GEORGE WESTON FOODS LIMITED	Lots 100, 222-229, 52-76 Thomas Place, PORT ADELAIDE SA 5015	Crushing grinding or milling works (agricultural crop products)	Current EPA Register	Premise Match	508m	North
12908	LICENCE	Issued	ALDEKERK PTY. LTD.	Lot 1, 1 Webb Street, PORT ADELAIDE SA 5015	Incineration works (cremation)	Current EPA Register	Premise Match	529m	South
51534	LICENCE	Issued	CONROY'S SMALLGOODS PROPRIETARY LIMITED	1250 Old Port Road, ROYAL PARK SA 5014	Curing or drying works	Current EPA Register	Premise Match	763m	South
ENL11 EK7WCP	LICENCE APPLICATION	Authorisation Updated	CONROY'S SMALLGOODS PROPRIETARY LIMITED	1250 Old Port Road, ROYAL PARK SA 5014	Curing or drying works	Current EPA Register	Premise Match	763m	South
50620	LICENCE	Issued	PIRATE LIFE BREWING PTY LTD	1-15 Fisher Street, PORT ADELAIDE SA 5015	Breweries	Current EPA Register	Premise Match	869m	North East
ENL12 E23L3	LICENCE APPLICATION	Authorisation Updated	PIRATE LIFE BREWING PTY LTD	1-15 Fisher Street, PORT ADELAIDE SA 5015	Breweries	Current EPA Register	Premise Match	869m	North East
22402	LICENCE	Surrendered	WHITTLES MANAGEMENT SERVICES PTY LTD	Various Boating Facilities Within The Newport Quays Marina Precinct, NEWPORT, SA	Marinas and boating facilities	Current EPA Register	Premise Match	907m	North West

Record No.	Record Type	Record Status	Entity	Site Address	Activity	EPA Register Status	LocConf	Dist	Dir
51456	LICENCE	Issued	EDGEWATER MARINA COMPANY LTD	Lot 1 Yeltu Court, NEWPORT SA 5015	Marinas and boating facilities	Current EPA Register	Premise Match	907m	North West
LNL875 OQWR	LICENCE APPLICATION	Authorisation Updated	EDGEWATER MARINA COMPANY LTD	Lot 1 Yeltu Court, NEWPORT SA 5015	Marinas and boating facilities	Current EPA Register	Premise Match	907m	North West
50940	LICENCE	Transferred	SHAHIN ENTERPRISES PTY. LTD.	156 Port Road, ALBERTON SA 5014	Petrol stations	Current EPA Register	Premise Match	931m	South East
51108	LICENCE	Issued	ON THE RUN PTY LTD	156 Port Road, ALBERTON SA 5014	Petrol stations	Current EPA Register	Premise Match	931m	South East
ENL0A 2G0J	LICENCE APPLICATION	Authorisation Updated	SHAHIN ENTERPRISES PTY. LTD.	156 Port Road, ALBERTON SA 5014	Petrol stations	Current EPA Register	Premise Match	931m	South East
22103	LICENCE	Issued	CITY OF CHARLES STURT	Various Locations Within The City of Chales Sturt, SA	Dredging - for each day on which dredging occurs during the licence period,Earthworks drainage - for each day on which earthworks drainage takes place during the licence period	Current EPA Register	Suburb Match	-	-
25322	LICENCE	Issued	CITY OF PORT ADELAIDE ENFIELD	Various Locations Within City of Port Adelaide Enfield, PORT ADELAIDE, SA	Earthworks drainage - for each day on which earthworks drainage takes place during the licence period	Current EPA Register	Suburb Match	-	-

Authorisations Data Source: EPA South Australia

# EPA Assessment and Groundwater Prohibition Areas

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



# EPA Assessment and Groundwater Prohibition Areas

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## EPA Assessment Areas

EPA Assessment Areas within the dataset buffer:

Map Id	Supplied Ref	Area Name	Map Link	Status	Location Confidence	Distance	Direction
29	4771261	West Lakes	<a href="https://www.epa.sa.gov.au/environmental_info/site_contamination/assessment_areas/west_lakes">https://www.epa.sa.gov.au/environmental_info/site_contamination/assessment_areas/west_lakes</a>	Current	Premise Match	256m	South West

Assessment Areas Data Source: EPA South Australia

# EPA Assessment and Groundwater Prohibition Areas

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## EPA Groundwater Prohibition Areas

EPA Groundwater Prohibition Areas within the dataset buffer:

Map Id	Site Name	Location Confidence	Distance	Direction
N/A	No records in buffer			

Groundwater ProhibitionAreas Data Source: EPA South Australia

# PFAS Investigation & Management Programs

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## Defence PFAS Investigation & Management Program Investigation Sites

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Location Confidence	Distance	Direction
N/A	No records in buffer				

Defence PFAS Investigation & Management Program Data Custodian: Department of Defence, Australian Government

## Defence PFAS Investigation & Management Program Management Sites

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Location Confidence	Distance	Direction
N/A	No records in buffer				

Defence PFAS Investigation & Management Program Data Custodian: Department of Defence, Australian Government

## Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Location Confidence	Distance	Direction
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

## Defence Sites

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

### Defence 3 Year Regional Contamination Investigation Program

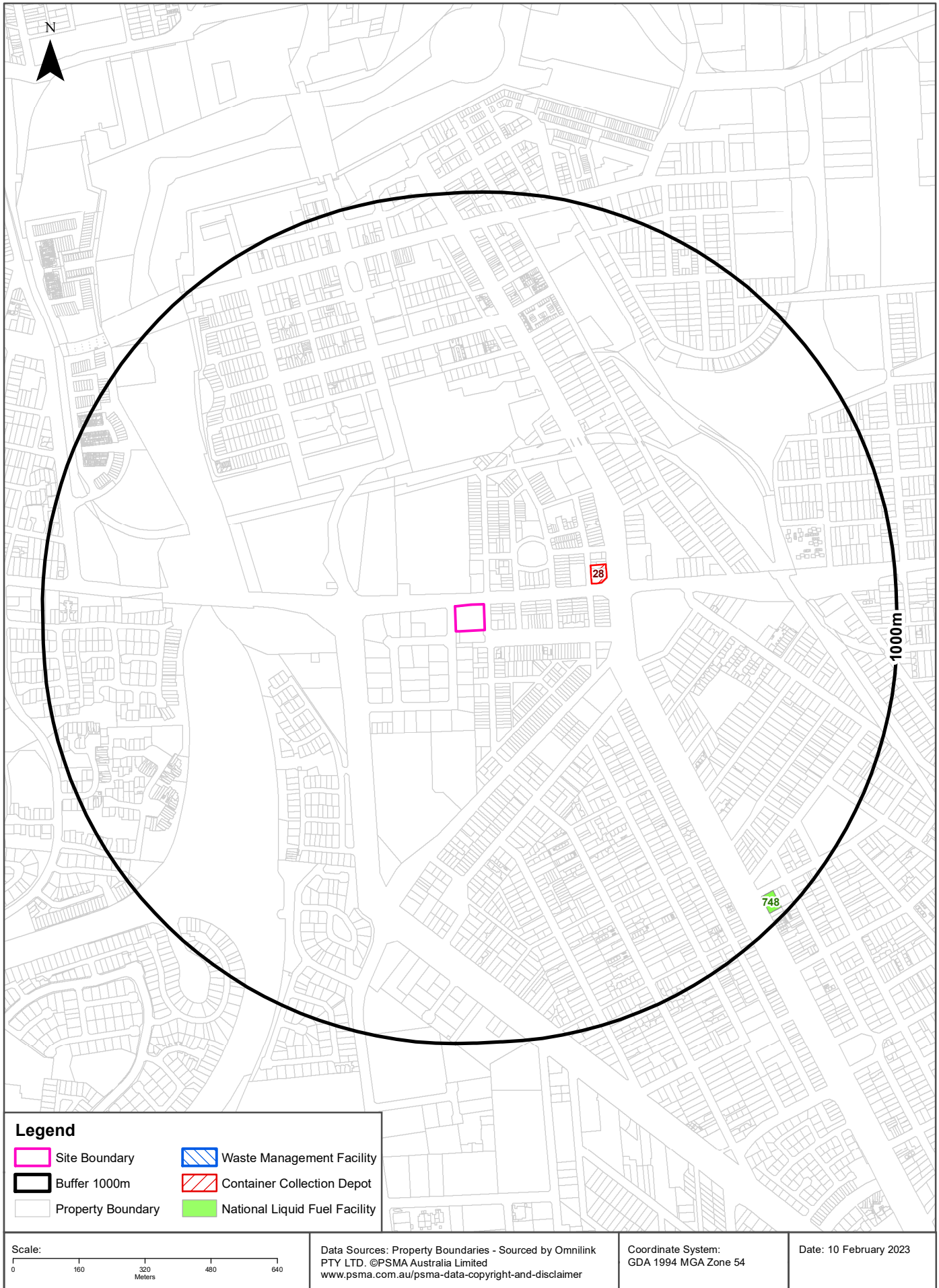
Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

# Waste Management & Liquid Fuel Facilities

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



## Waste Management and Liquid Fuel Facilities

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

### National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

Site Id	Owner	Name	Address	Suburb	Class	Revised Date	Location Confidence	Distance	Direction
N/A	No records in buffer								

Waste Management Facilities Data Source: Australian Government Geoscience Australia  
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### EPA Approved Container Collection Depots

EPA approved container collection depots within the dataset buffer:

MapId	Name	Address	Suburb	Loc Conf	Distance	Direction
28	Scout Recycling Centre Port Adelaide	326 Commercial Road	PORT ADELAIDE	Premise Match	267m	East

Collection Depot Data Source: EPA South Australia

### National Liquid Fuel Facilities

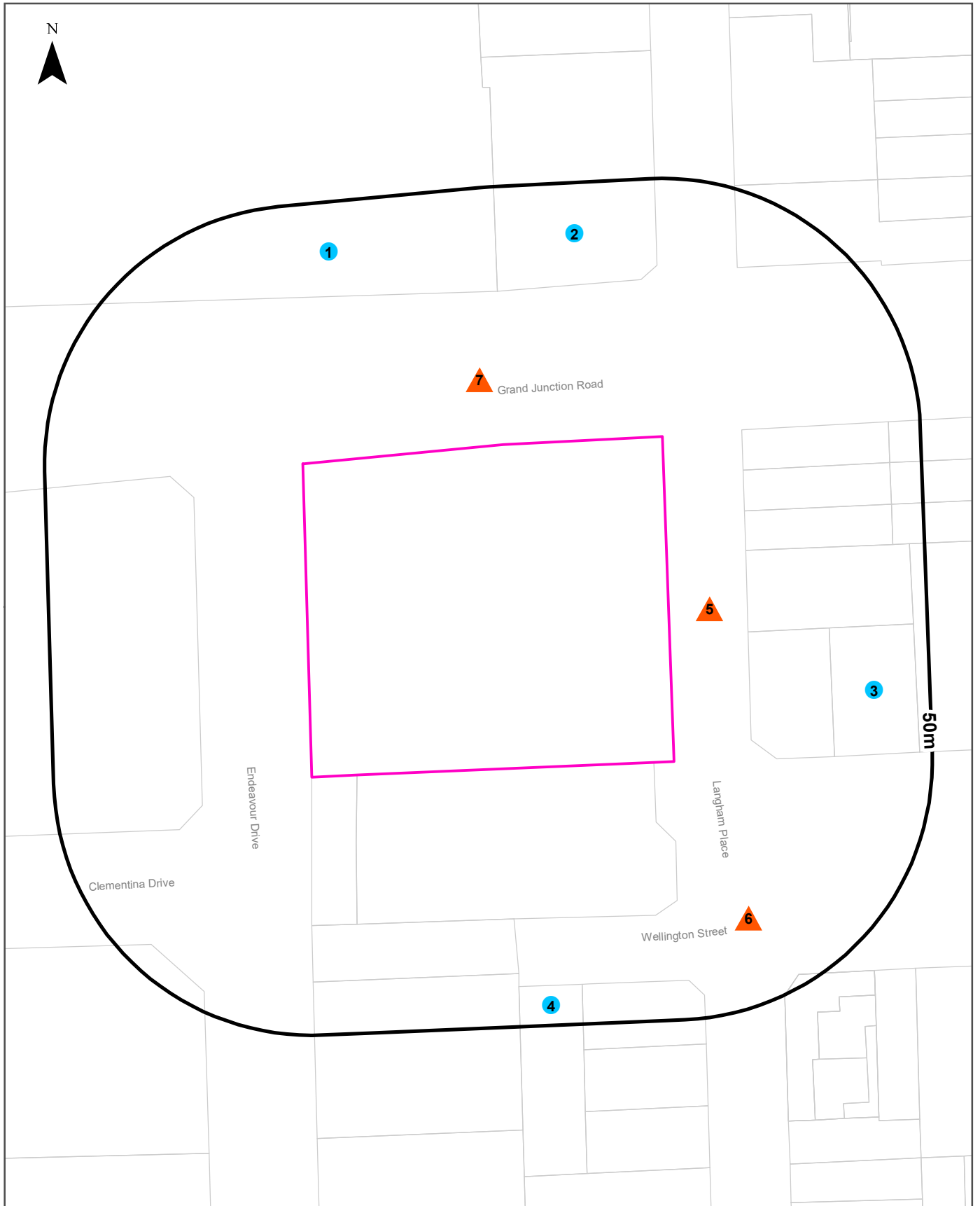
National Liquid Fuel Facilities within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Dir
748	Peregrine Corporation	BP On The Run Alberton	156 Port Road	Alberton	Petrol Station	Operational		13/07/2012	Premise Match	931m	South East

National Liquid Fuel Facilities Data Source: Geoscience Australia  
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# Historical Business Directories

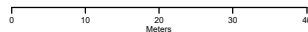
Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



## Legend

- Site Boundary
- Buffer 50m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- ▲ Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale:



Coordinate System:  
GDA 1994 MGA Zone 54

Date: 10 February 2023

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018  
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# Historical Business Directories

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## Business Directory Records 1910-1991 Premise or Road Intersection Matches

Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1984, 1973, 1965, 1955, 1950, 1940, 1930, 1920 & 1910, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	Clubs &/or Sporting Bodies	Riverside Football Club, Port Adelaide Reserve, Port Adelaide 5015	5859	1984	Premise Match	30m	North West
2	LAUNDRIES	Hofner Laundry., 57 Langham Pl., Port Adelaide	11394	1950	Premise Match	30m	North
3	BOOTMAKERS, REPAIRERS & FOOTWEAR STORES	Charman R S 43 Wellington st Pt Adelaide	2772	1955	Premise Match	31m	East
4	MOTOR ENGINEERS, GARAGES & SERVICE STATIONS	Williamson D G 32 Wellington st Pt Adelaide	9898	1965	Premise Match	42m	South

Business Directory Content reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018 and Sands & McDougall's Directory of South Australia

## Business Directory Records 1910-1991 Road or Area Matches

Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1984, 1973, 1965, 1955, 1950, 1940, 1930, 1920 & 1910, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
5	Manufacturers (General)	Carlson E A & Co Langham pl Pt Adelaide	46063	1965	Road Match	4m
	CHEMISTS (Retail, Industrial & Manufacturing)	Merrifield A 73 Langham pl Port Adelaide	33129	1965	Road Match	4m
	PATTERN MAKERS	Nieass G 62 Langham pl Port Adelaide	28498	1965	Road Match	4m
	CARPENTERS & JOINERS	Freak D C 62 Langham pl Pt Adelaide	16510	1955	Road Match	4m
	Storekeepers (General)	Mummery, Mrs F. M, Langham pl. Portland	9507	1930	Road Match	4m
	Storekeepers (General)	Mummery, Mrs F. M, Langham pl, Portland	16417	1920	Road Match	4m
	Cab and Motor Proprietors	Welch, M, Langham pl, Portland	3703	1920	Road Match	4m
	Contractors	Barnes, C, Langham pl, Pt Adelaide	4843	1910	Road Match	4m
	Carters and Carriers	Coggins, Josh, Langham Pl, Portland	3701	1910	Road Match	4m
	Storekeepers (General)	Coghlan, Mrs E, Langham Pl, Portland	13775	1910	Road Match	4m
	Dressmakers and Milliners	Haynes, Miss E, Langham pl, Prtlnd	6421	1910	Road Match	4m
	Marine Dealers	Merrett, Chas, Langham pl, Portland	10034	1910	Road Match	4m
	Storekeepers (General)	Webb, Mrs F, M, Langham pl, Portland	15059	1910	Road Match	4m
	Builders, Carpenters and Masons	Wilson, W. W, Langham pl, Portland	2774	1910	Road Match	4m
	6	Kindergartens &/or Child Minding Centres	Port Adelaide Free Kindergarten, Wellington Rd, Port Adelaide 5015	16096	1984	Road Match
7	Mixed Businesses	Whibley, A. P., Junction rd, Port Adelaide	6172	1940	Road Match	9m
	DRESSMAKERS AND MILLINERS	Bates, Mrs E, Junction rd, Yatala, P.A.	16403	1930	Road Match	9m
	HAIRDRESSERS	Bell, H. N, Junction rd, Yatala	19681	1930	Road Match	9m
	TOBACCONISTS	Bell, H. N, Junction rd, Yatala.	11744	1930	Road Match	9m
	FANCY REPOSITORIES	Booth, A. L, Junction rd, Yatala	17305	1930	Road Match	9m
	Ham And Beef Shops	Carter, Mrs J. Junction rd, Yatala	19806	1930	Road Match	9m
	MIXED BUSINESSES	Edwards, Mrs, Junction rd, Yatala	1	1930	Road Match	9m
	MARKET GARDENERS AND HORTICULTURISTS (Proprietors only)	Emery Bros, Junction rd, Sydenham	22127	1930	Road Match	9m
	Billiard Saloons	Griffin, T. H, Junction rd, Yatala	3608	1930	Road Match	9m
	Dealers (General) and Hawkers	Hansson, Mrs O. B, Junction rd, Yatala	15693	1930	Road Match	9m
	Drapers	Hewett, A. J, Junction rd, Yatala, Port Adelaide	16142	1930	Road Match	9m
	Bootmakers And Boot Shops	Higgins, H. J, Junction rd, Yatala	6727	1930	Road Match	9m
	CHEMISTS, DRUGGISTS, AND MANUFACTURING CHEMISTS	Huston, Thos, Junction rd, Yatala	13538	1930	Road Match	9m
	MIXED BUSINESSES	Irvine & Whitehorn, Junction rd, Yatala	60	1930	Road Match	9m

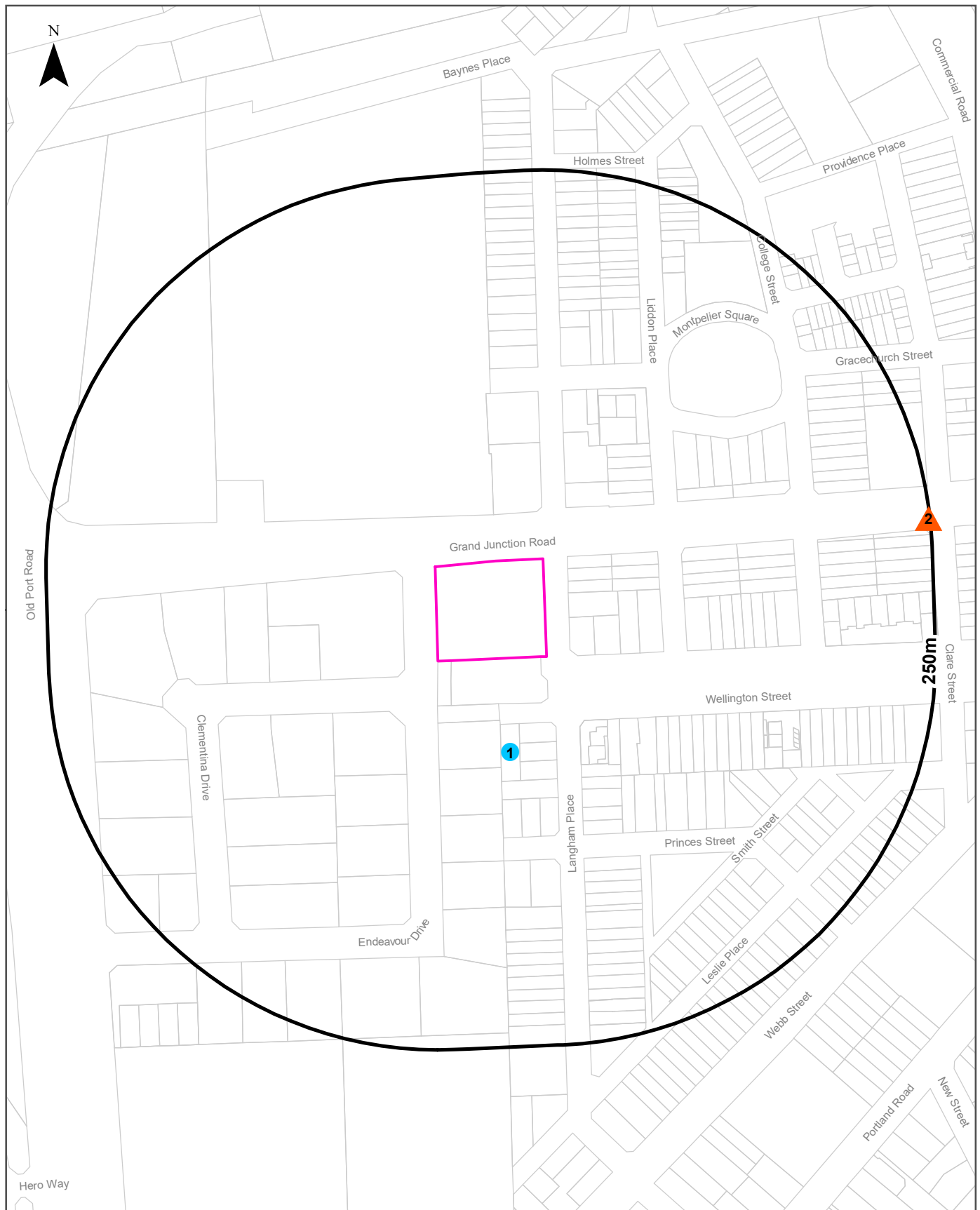
Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
7	CHEMISTS, DRUGGISTS, AND MANUFACTURING CHEMISTS	Martin H. E, Junction rd, Yatala	13558	1930	Road Match	9m
	Butchers	Netherton, S, Junction rd, Yatala	10848	1930	Road Match	9m
	CONFECTIONERS (Retail), AND COOL DRINKS	Pearce Mrs. T. E, Junction rd, Yatala	14434	1930	Road Match	9m
	Ham And Beef Shops	Pearce, Miss T. E, Junction rd, Yatala	19900	1930	Road Match	9m
	Bootmakers And Boot Shops	Pengilly, L. R. J., Junction rd. Yatala	7152	1930	Road Match	9m
	DRAPERS	People's Stores (The), Junction rd, Yatala, P.A.	16266	1930	Road Match	9m
	GROCERS AND PROVISION DEALERS	Pirie, E. D., and Masters, Mrs. M. E., Junction rd, P.A.	19160	1930	Road Match	9m
	Hairdressers	Rashleigh, G, Junction rd, Yatala	19382	1930	Road Match	9m
	TOBACCONISTS	Rashleigh, G., Junction rd, Yatala	12164	1930	Road Match	9m
	HOTELS	Rosewater - Mrs. M. Jones. Junction rd, Yatala	20481	1930	Road Match	9m
	GROCERS AND PROVISION DEALERS	Sutton, R, Junction rd, Yatala	19226	1930	Road Match	9m
	DRAPERS	Tonkin, Mrs. E. M., Junction rd, Yatala	16339	1930	Road Match	9m
	GROCERS AND PROVISION DEALERS	Tresise, H, Junction rd, Yatala	19250	1930	Road Match	9m
	Greengrocers and Fruiterers	Waite, A. S, Junction rd, yatala	18822	1930	Road Match	9m
	MOTOR AND ACCESSORY AGENTS, CYCLE MAKERS AND IMPORTERS	Warland, A. H., Junction rd, Yatala	1236	1930	Road Match	9m
	Ham And Beef Shops	Whitelaw, J. E, Junction rd, Yatala	19945	1930	Road Match	9m
	DRAPERS	Williams, Miss L, mgrss, Junction rd, Yatala	16367	1930	Road Match	9m
	Blacksmiths and Farriers	Barnden, F, Junction-rd, Yatala	19644	1920	Road Match	9m
	Confectioners (Retail)	Bates Mrs E, Junction rd, Yatala	4732	1920	Road Match	9m
	Dairies and Milk Vendors	Beauchamp Bros, Junction rd, Yatala	5658	1920	Road Match	9m
	Tobacconists	Bell, H. N, Junction rd, Yatala	18270	1920	Road Match	9m
	Hairdressers	Bell, H. N, Junction rd, Yatala,	9065	1920	Road Match	9m
	Wheelwrights	Dayman Chas, Junction rd, Yatala	115	1920	Road Match	9m
	Blacksmiths and Farriers	Dayman, Chas, Junction-rd, Yatala	372	1920	Road Match	9m
	Confectioners (Retail)	Fowler, Mrs M, Junction rd, Port Adelaide	4823	1920	Road Match	9m
	Drapers	Hewett, A. J, Junction rd, Yatala,	6423	1920	Road Match	9m
	Bootmakers And Boot Shops	Higgins, H. J, Junction-rd, Yatala	1818	1920	Road Match	9m
	CHEMISTS, DRUGGISTS, AND MANUFACTURING CHEMISTS	Huston, Thos, Junction rd, Yatala	4497	1920	Road Match	9m
	Tobacconists	Jacobsen, Mrs E. S., Junction rd, P.A.	18625	1920	Road Match	9m
	Confectioners (Retail)	Jacobson, Mrs E. S, Junction rd, P.A.	4879	1920	Road Match	9m
	Confectioners (Retail)	Lee, Thomas, Junction rd, Yatala	4907	1920	Road Match	9m
	Fancy Repositories	Marshall, P. A, Junction rd, Yatala	7456	1920	Road Match	9m
	Tobacconists	Marshall, P. A, Junction rd, Yatala	18643	1920	Road Match	9m
Ham and Beef Shops	Pudney, Mrs C, Junction rd, Yatala	9457	1920	Road Match	9m	
Hotels and Public Houses	Rosewster; Parkyn, W. H, Junction rd, P.A.	10106	1920	Road Match	9m	

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
7	Hotels and Public Houses	Rosewster; Parkyn, W. H, Junction rd, Yatala	10105	1920	Road Match	9m
	Dairies and Milk Vendors	Stone, F, Junction rd, Yatala	5954	1920	Road Match	9m
	Grocers and Provision Dealers	Sutton, R, Junction rd, Yatala	9010	1920	Road Match	9m
	Confectioners (Retail)	Ward, Albt, Junction rd, Yatala	5062	1920	Road Match	9m
	Ham and Beef Shops	Ward, Alht, Junction rd, Yatala	9490	1920	Road Match	9m
	Dairies and Milk Vendors	Beauchamp Bros, Junction rd, Yatala	5470	1910	Road Match	9m
	Confectioners (Retail)	Fowler, Mrs Mary, Junction rd, P.A.	4676	1910	Road Match	9m
	Blacksmiths and Farriers	Gage, Jno, Junction rd, Yatala	324	1910	Road Match	9m
	Blacksmiths and Farriers	Hadaway, Junction rd, Yatala	361	1910	Road Match	9m
	Contractors	Hains, H, Junction rd, P.A.	4969	1910	Road Match	9m
	Dressmakers and Milliners	Hains, Miss .J, Junction rd, P.A.	6406	1910	Road Match	9m
	Confectioners (Retail)	Harvey, Mrs E, Junction rd, P.A.	4690	1910	Road Match	9m
	Builders, Carpenters and Masons	Heins, H, Junction rd, P.A.	2314	1910	Road Match	9m
	Drapers	Hewett, A. J, Junction rd, Yatala	6116	1910	Road Match	9m
	Chemists, Druggists and Manufacturing Chemists	Huston, Thos, Junction rd, Yatala	4414	1910	Road Match	9m
	Storekeepers (General)	Jacobson, E, Junction rd, P.A.	14235	1910	Road Match	9m
	Drapers	People's (The), Junction rd, Yatala	6205	1910	Road Match	9m

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# Dry Cleaners, Motor Garages & Service Stations

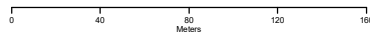
Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



### Legend

- Site Boundary
- Buffer 250m
- Property Boundary
- 1 Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale:



Coordinate System:  
GDA 1994 MGA Zone 54

Date: 10 February 2023

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018  
Sands & McDougall's Directory - Digitised by State Library Victoria  
Property Boundaries - Sourced by Omnalink PTY LTD. ©PSMA Australia Limited 2023  
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# Historical Business Directories

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## Dry Cleaners, Motor Garages & Service Stations 1930-1991 Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories and Sands & McDougall's Directories, from years 1991, 1984, 1973, 1965, 1955, 1950, 1940 & 1930, mapped to a premise or road intersection, within the dataset buffer.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTOR ENGINEERS, GARAGES & SERVICE STATIONS	Williamson D G 32 Wellington st Pt Adelaide	9898	1965	Premise Match	42m	South

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## Dry Cleaners, Motor Garages & Service Stations 1930-1991 Road or Area Matches

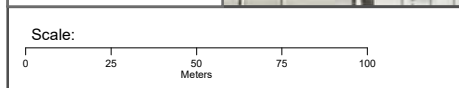
Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories and Sands & McDougall's Directories, from years 1991, 1984, 1973, 1965, 1955, 1950, 1940 & 1930, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
2	MOTOR ENGINEERS, GARAGES & SERVICE STATIONS	Wilson J C Ltd Clare st Port Adelaide	23087	1955	Road Match	247m

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# Aerial Imagery 2022

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 54



Date: 10 February 2023

# Aerial Imagery 2017

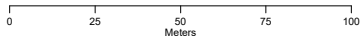
Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



## Legend

-  Site Boundary
-  Buffer 150m

Scale:



Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 54



Date: 10 February 2023

# Aerial Imagery 2012

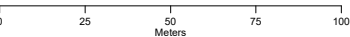
Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



### Legend

-  Site Boundary
-  Buffer 150m

Scale:



Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 54



Date: 10 February 2023

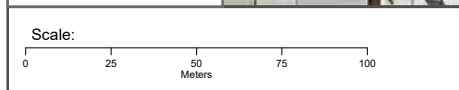
# Aerial Imagery 2007

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



**Legend**

-  Site Boundary
-  Buffer 150m



Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 54



Date: 10 February 2023

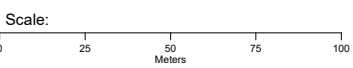
# Aerial Imagery 2002

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



### Legend

-  Site Boundary
-  Buffer 150m



Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 54



Date: 10 February 2023

# Aerial Imagery 1999

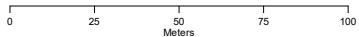
Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



### Legend

-  Site Boundary
-  Buffer 150m

### Scale:



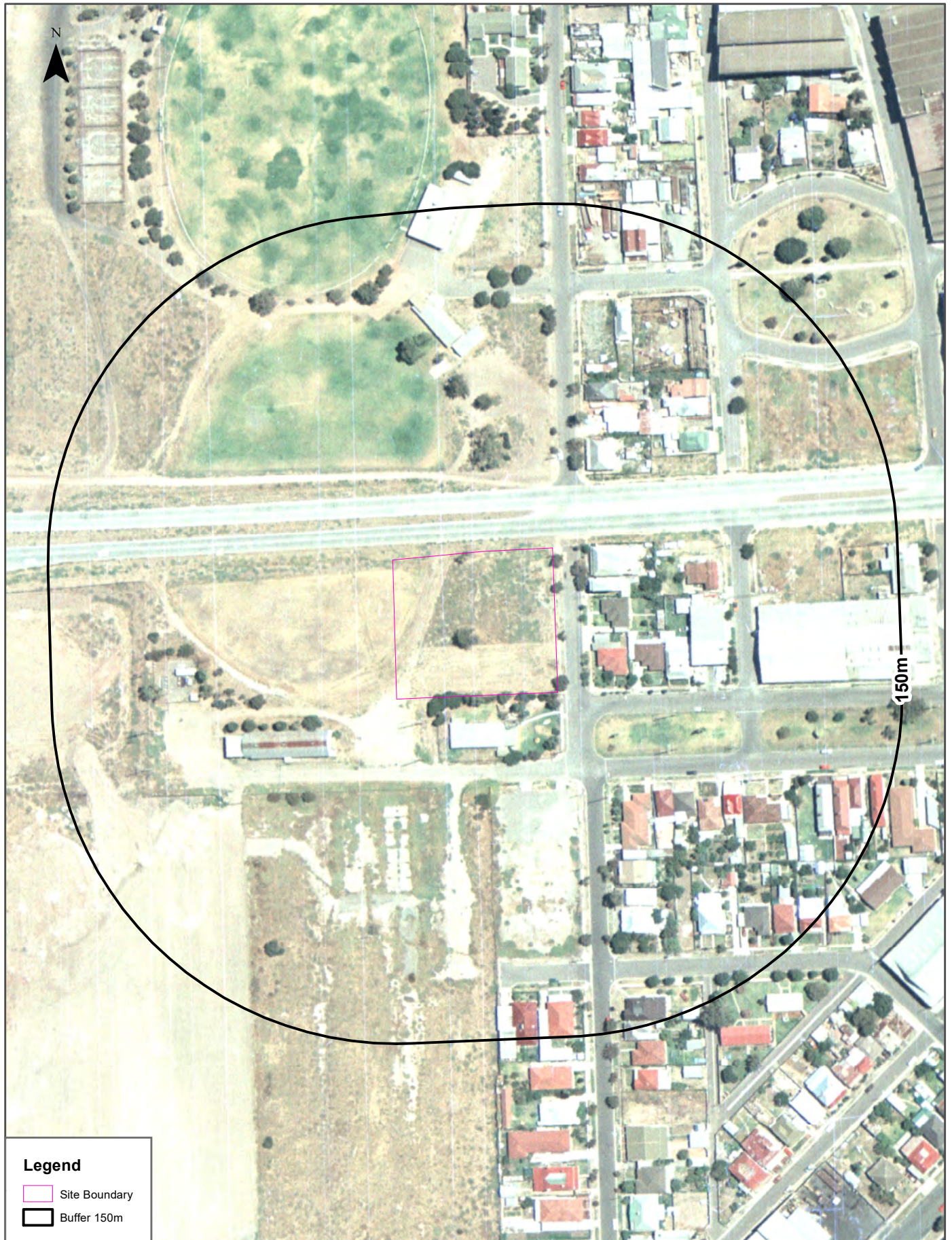
Data Sources Aerial Imagery: © South Australia  
Department for Environment & Water

Coordinate System:  
GDA 1994 MGA Zone 54



Date: 09 February 2023

# Aerial Imagery 1989

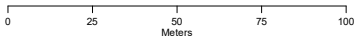
Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



## Legend

-  Site Boundary
-  Buffer 150m

Scale:



Data Sources Aerial Imagery: © South Australia  
Department for Environment & Water

Coordinate System:  
GDA 1994 MGA Zone 54



Date: 09 February 2023

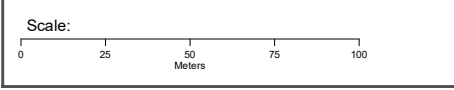
# Aerial Imagery 1979

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



**Legend**

-  Site Boundary
-  Buffer 150m



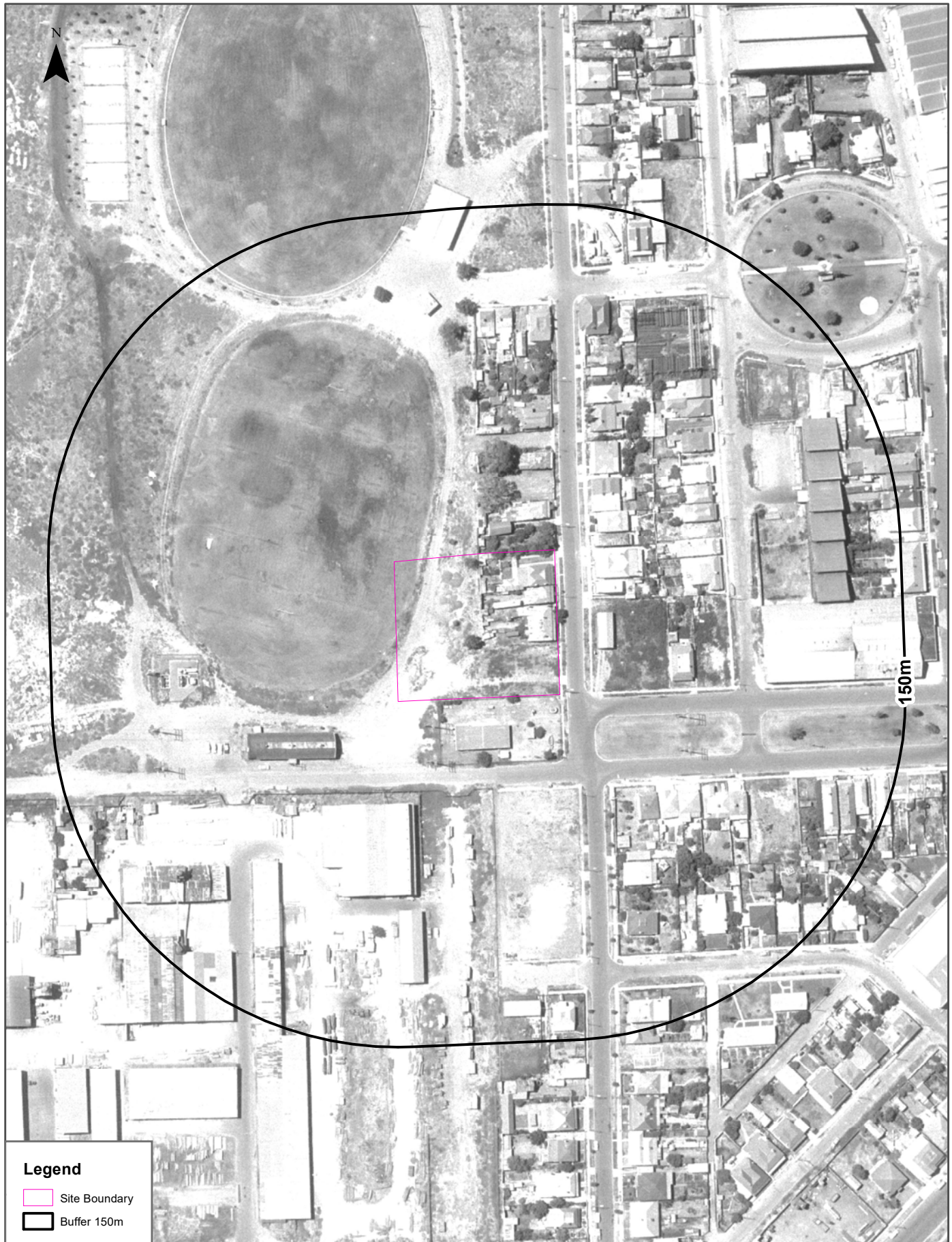
Data Sources Aerial Imagery: © South Australia  
Department for Environment & Water

Coordinate System:  
GDA 1994 MGA Zone 54



Date: 09 February 2023

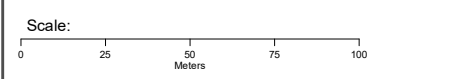
# Aerial Imagery 1969

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



**Legend**

-  Site Boundary
-  Buffer 150m



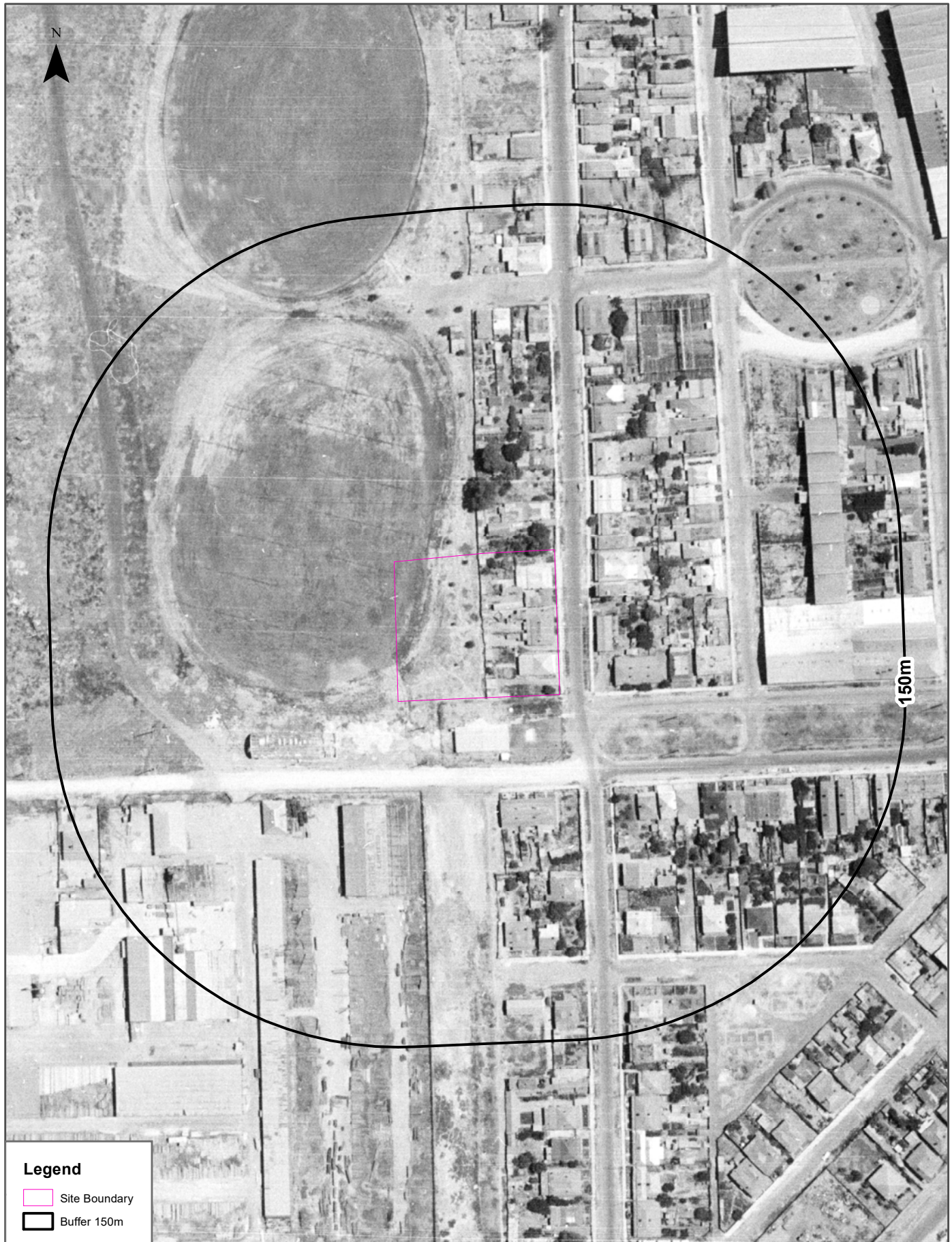
Data Sources Aerial Imagery: © South Australia  
Department for Environment & Water

Coordinate System:  
GDA 1994 MGA Zone 54



Date: 09 February 2023

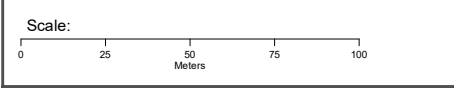
# Aerial Imagery 1959

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



**Legend**

-  Site Boundary
-  Buffer 150m



Data Sources Aerial Imagery: © South Australia  
Department for Environment & Water

Coordinate System:  
GDA 1994 MGA Zone 54



Date: 09 February 2023

# Aerial Imagery 1949

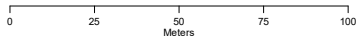
Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



### Legend

-  Site Boundary
-  Buffer 150m

Scale:



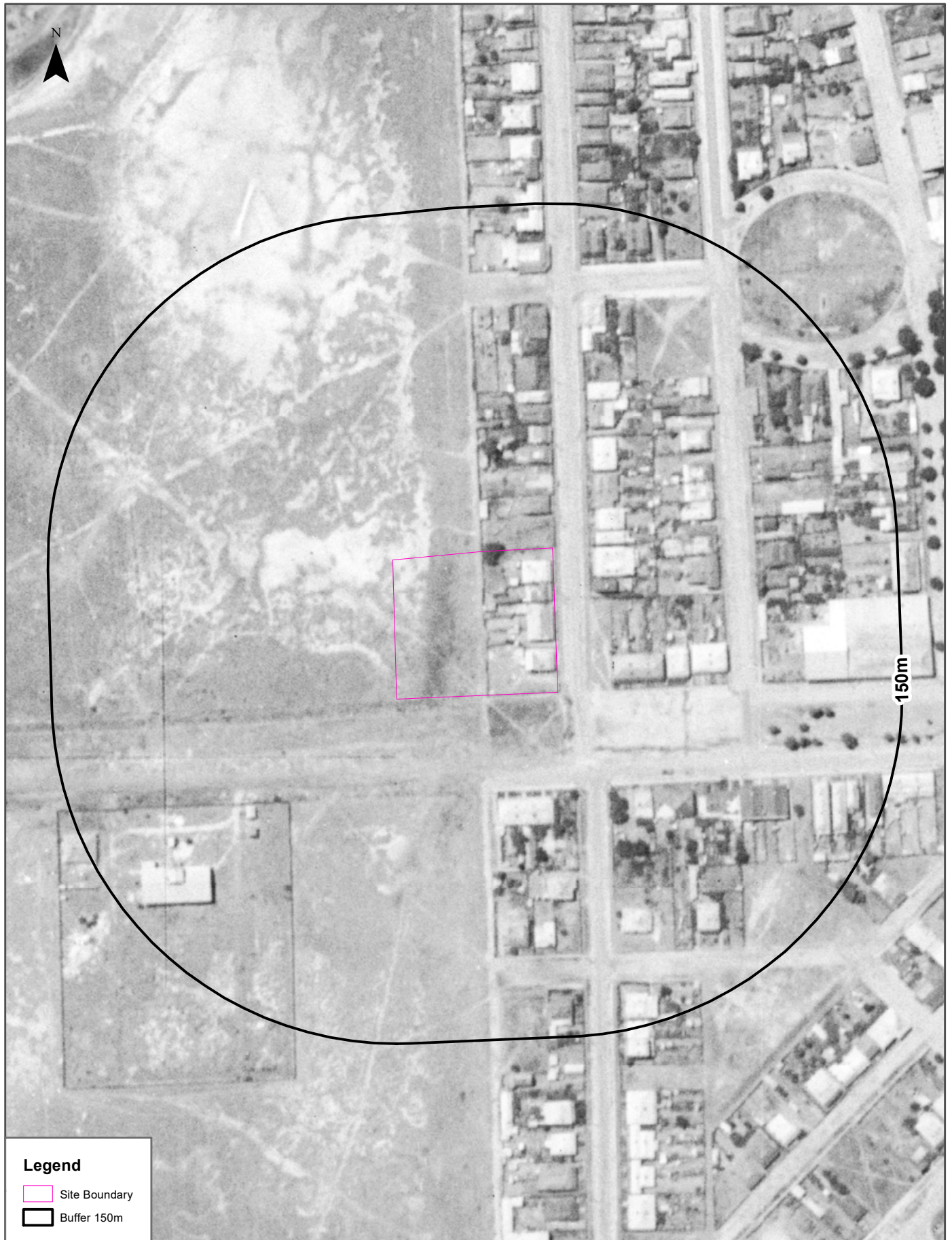
Data Sources Aerial Imagery: © South Australia  
Department for Environment & Water

Coordinate System:  
GDA 1994 MGA Zone 54



Date: 09 February 2023

# Aerial Imagery 1935

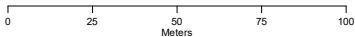
Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



## Legend

-  Site Boundary
-  Buffer 150m

Scale:



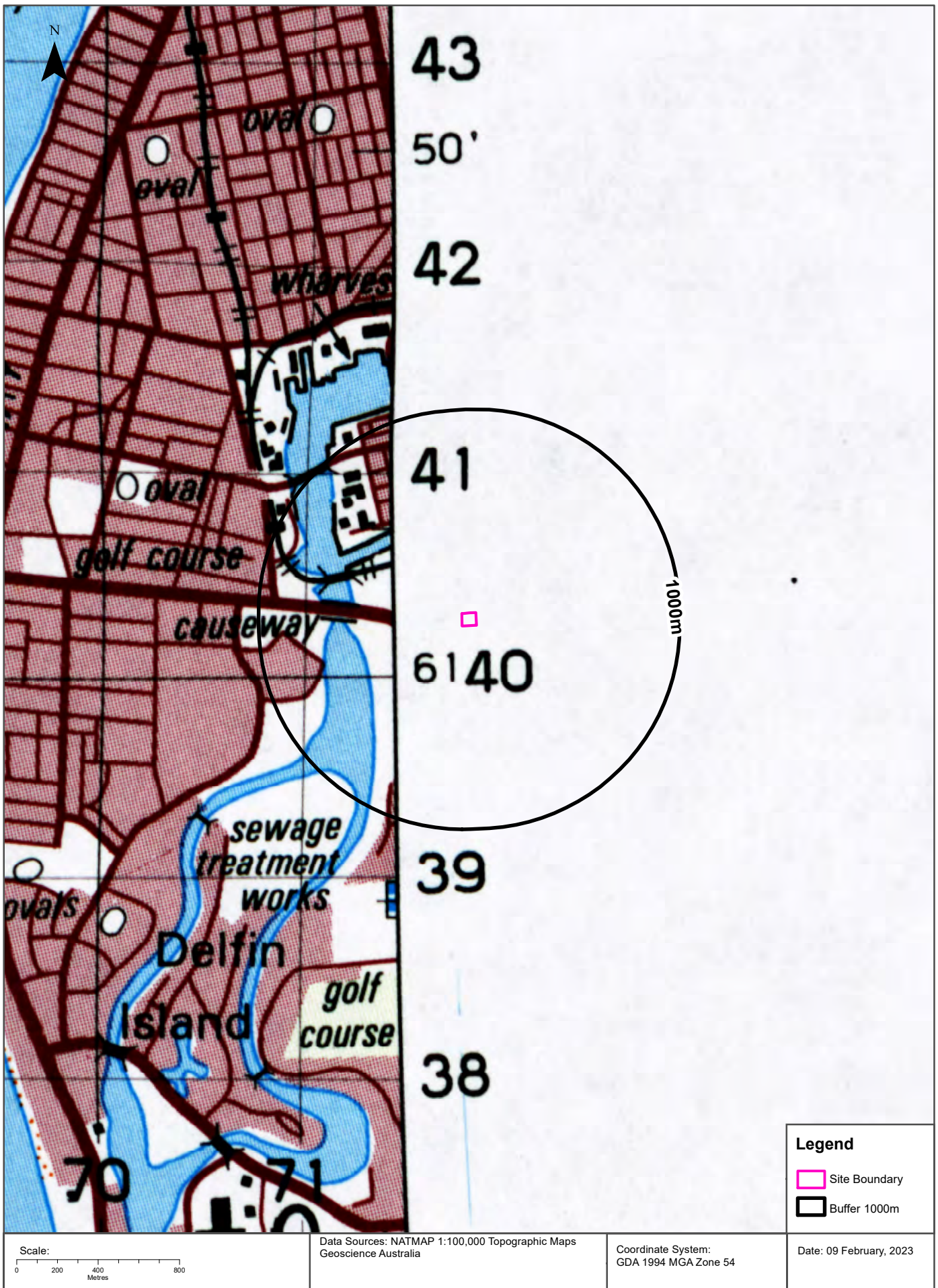
Data Source Aerial Imagery: ©2022 Geoscience Australia

Coordinate System:  
GDA 1994 MGA Zone 54

Date: 09 February 2023

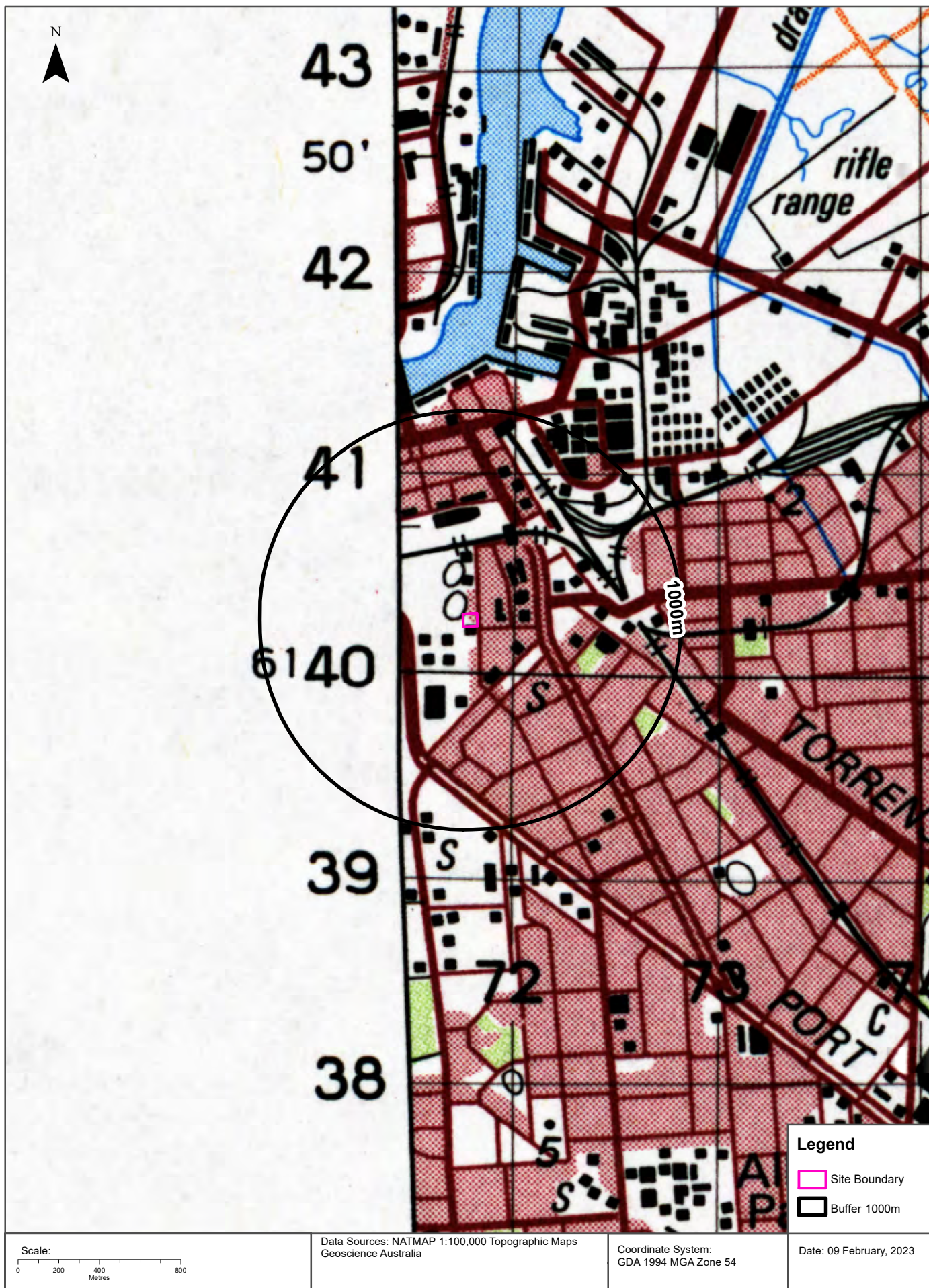
# Historical Map 1982

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



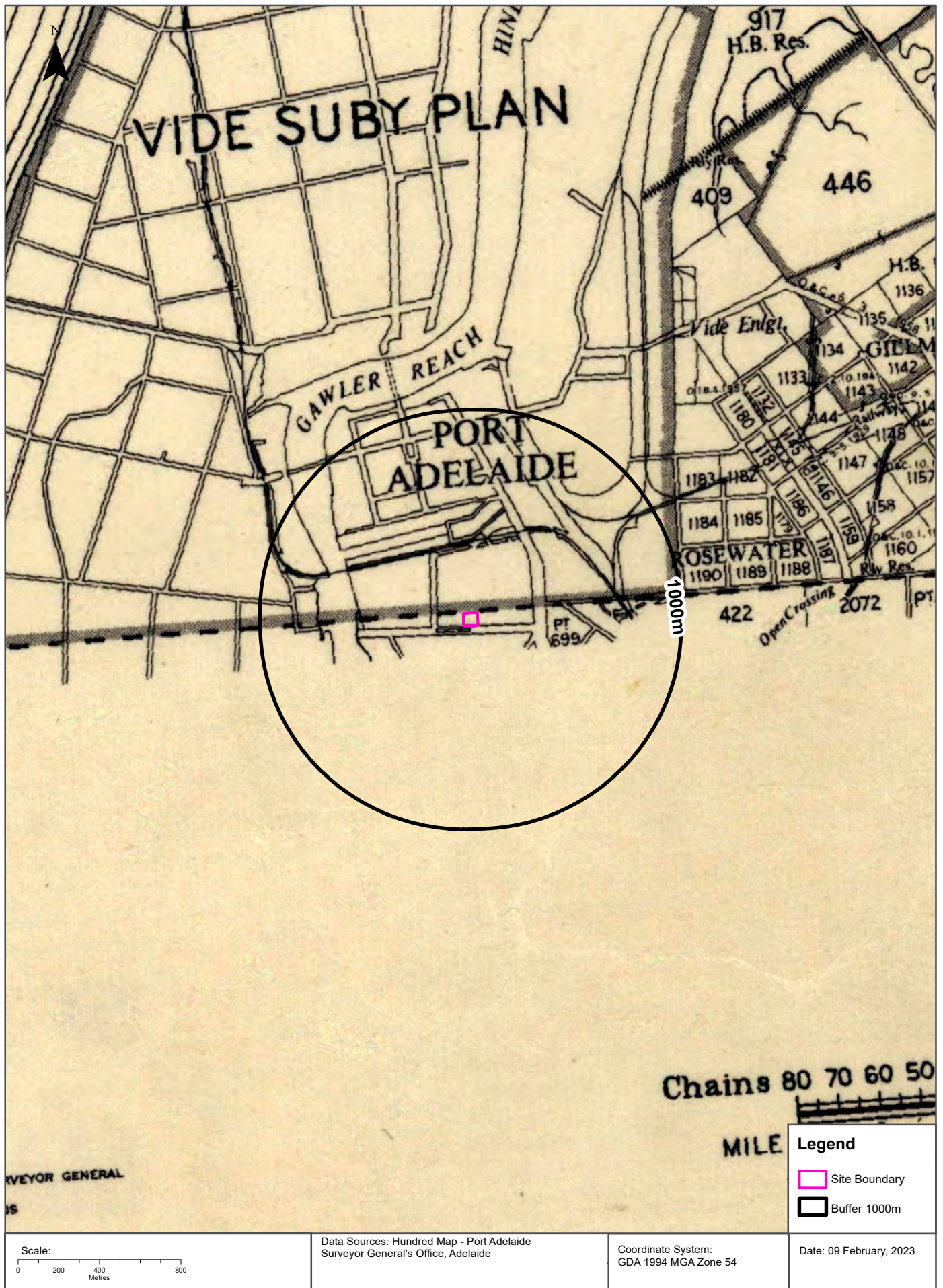
# Historical Map 1982

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



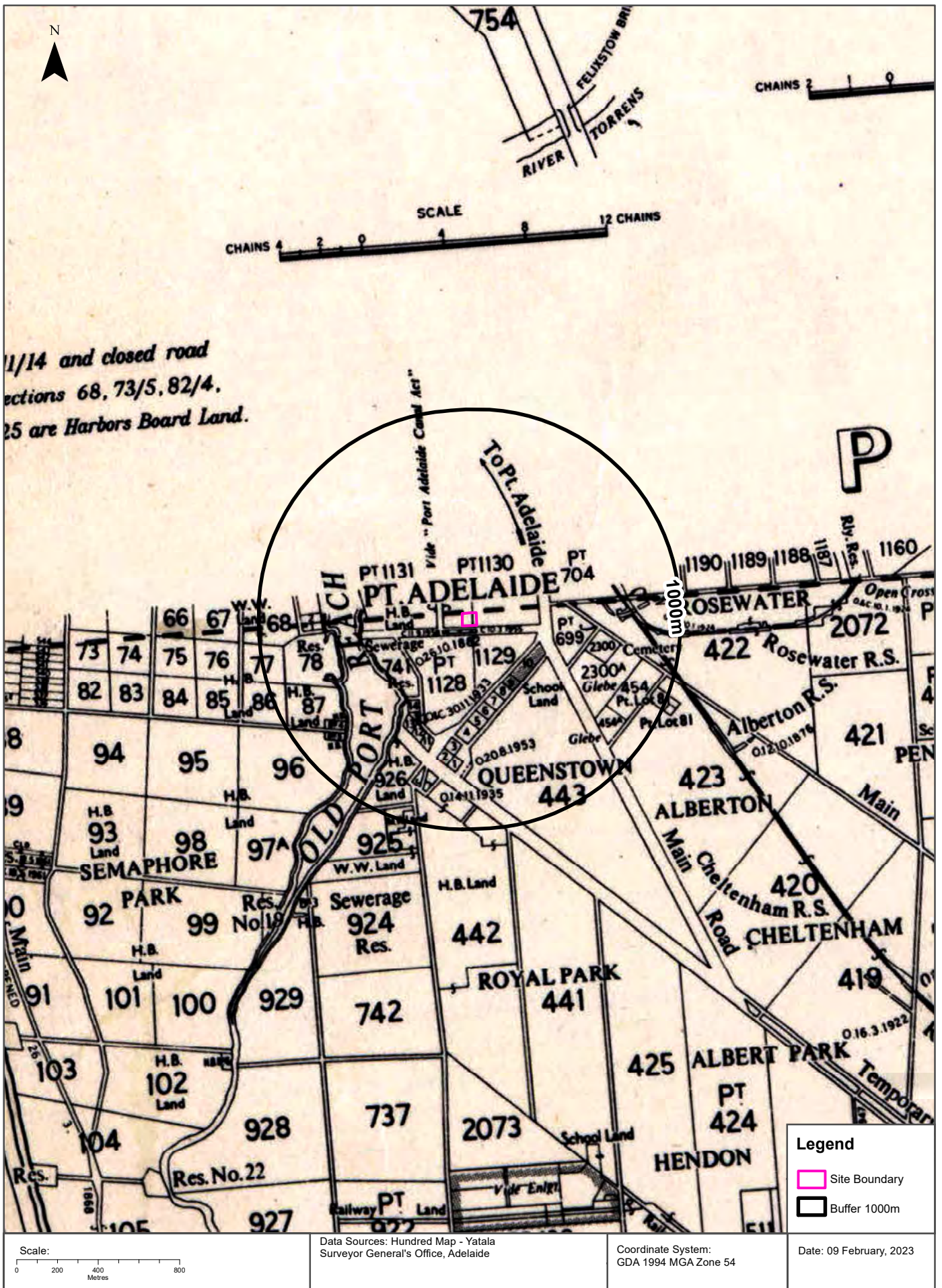
# Historical Map 1962

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



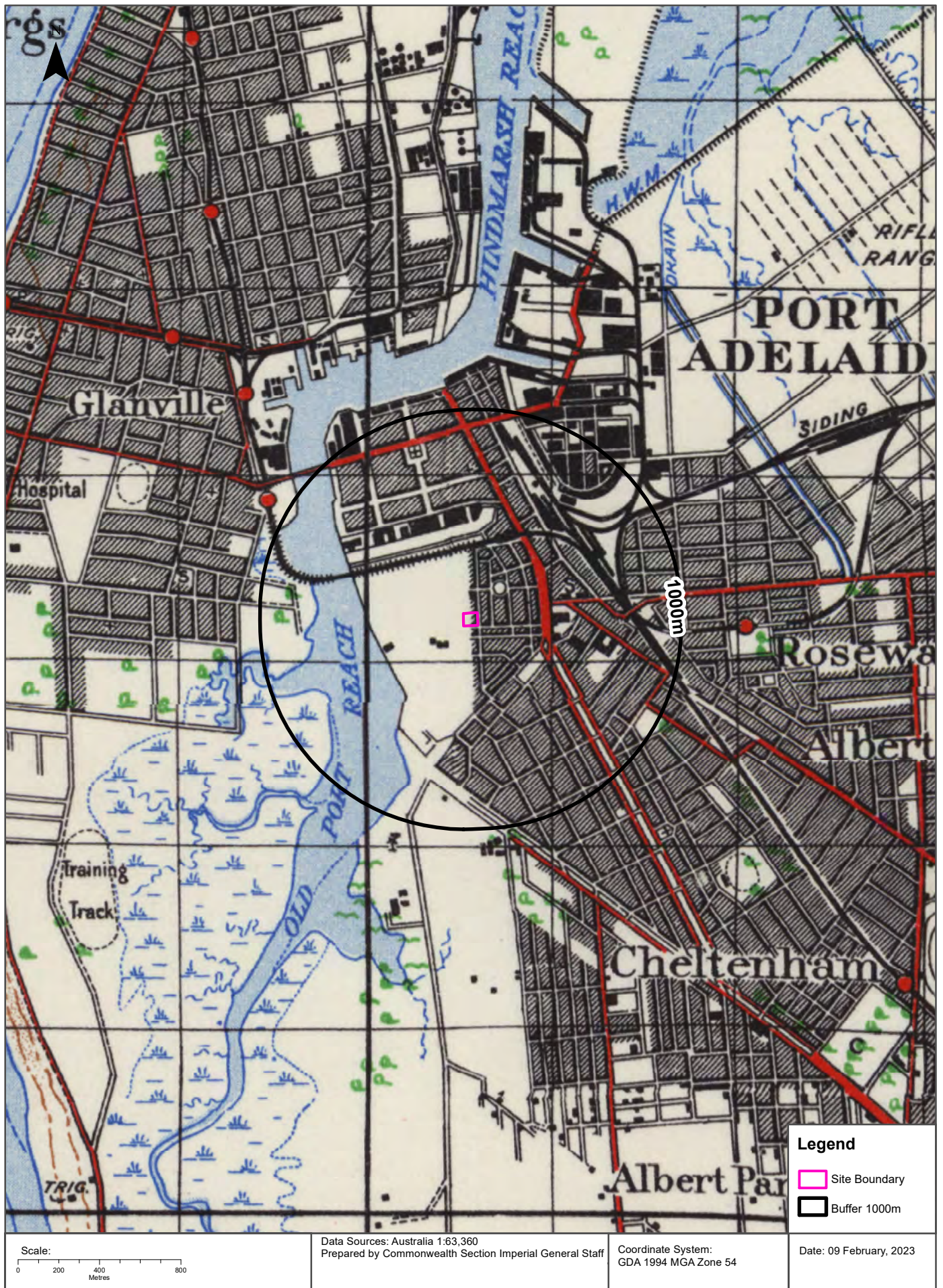
# Historical Map 1962

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



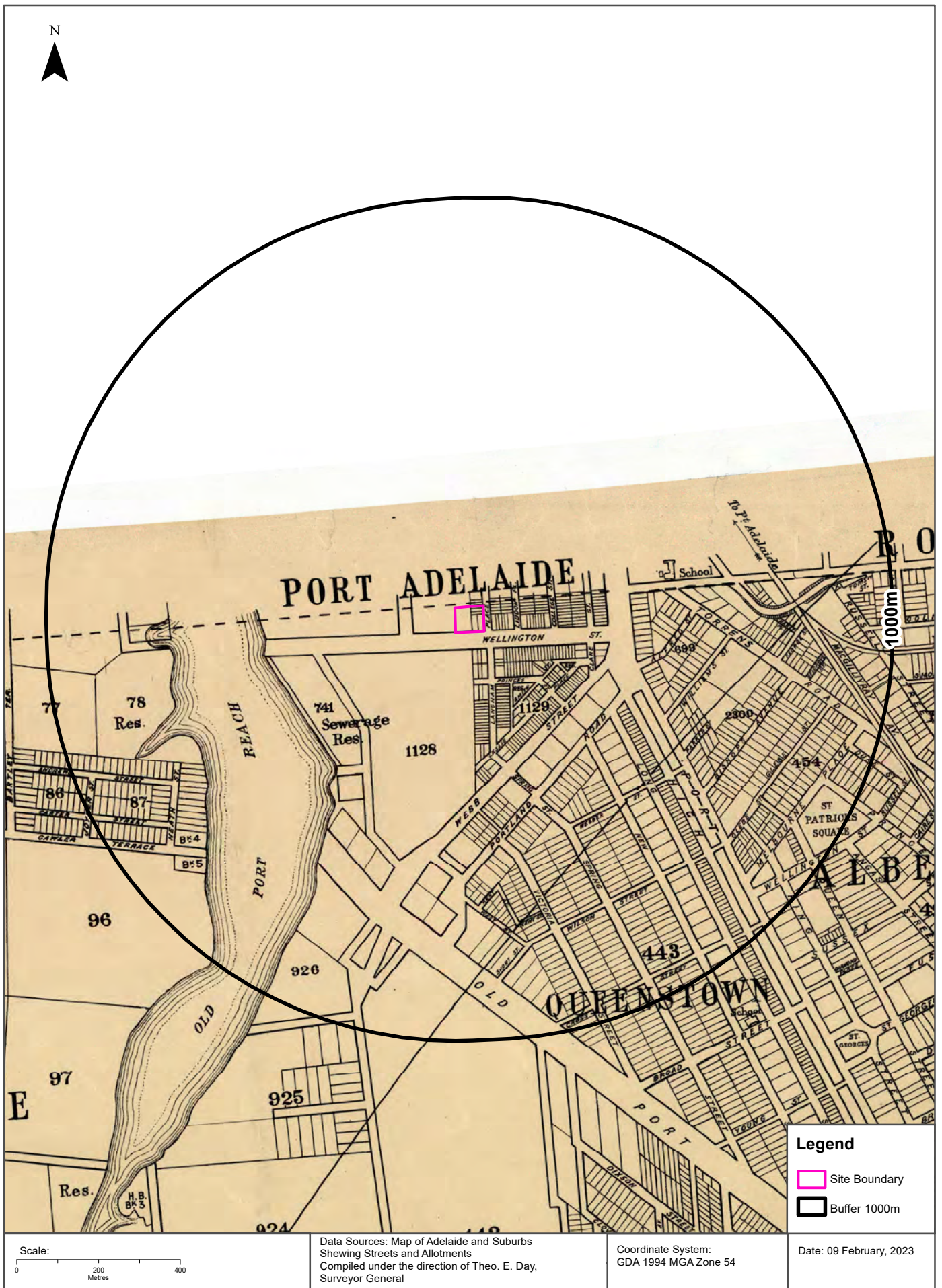
# Historical Map c.1937

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



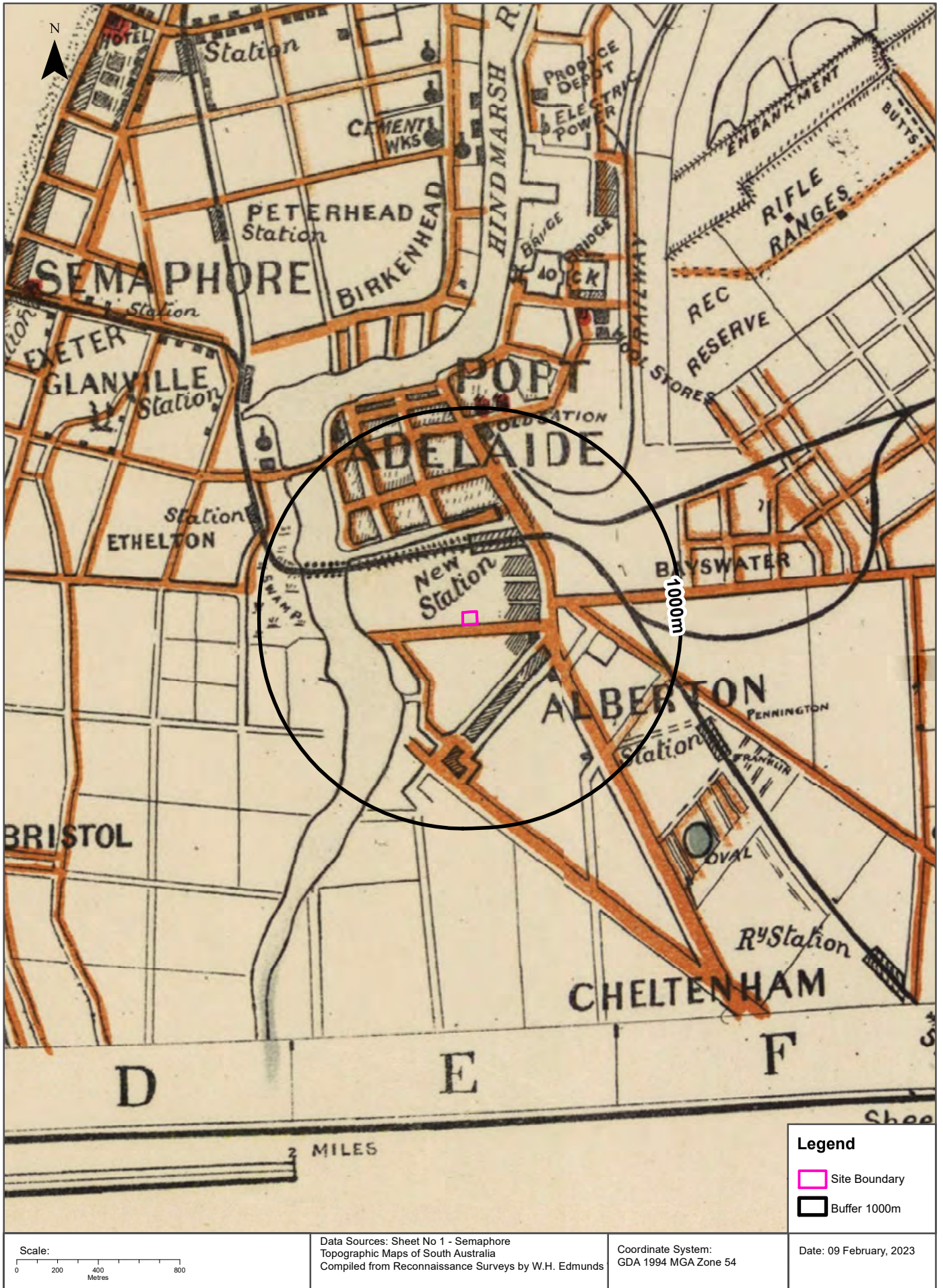
# Historical Map 1927

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



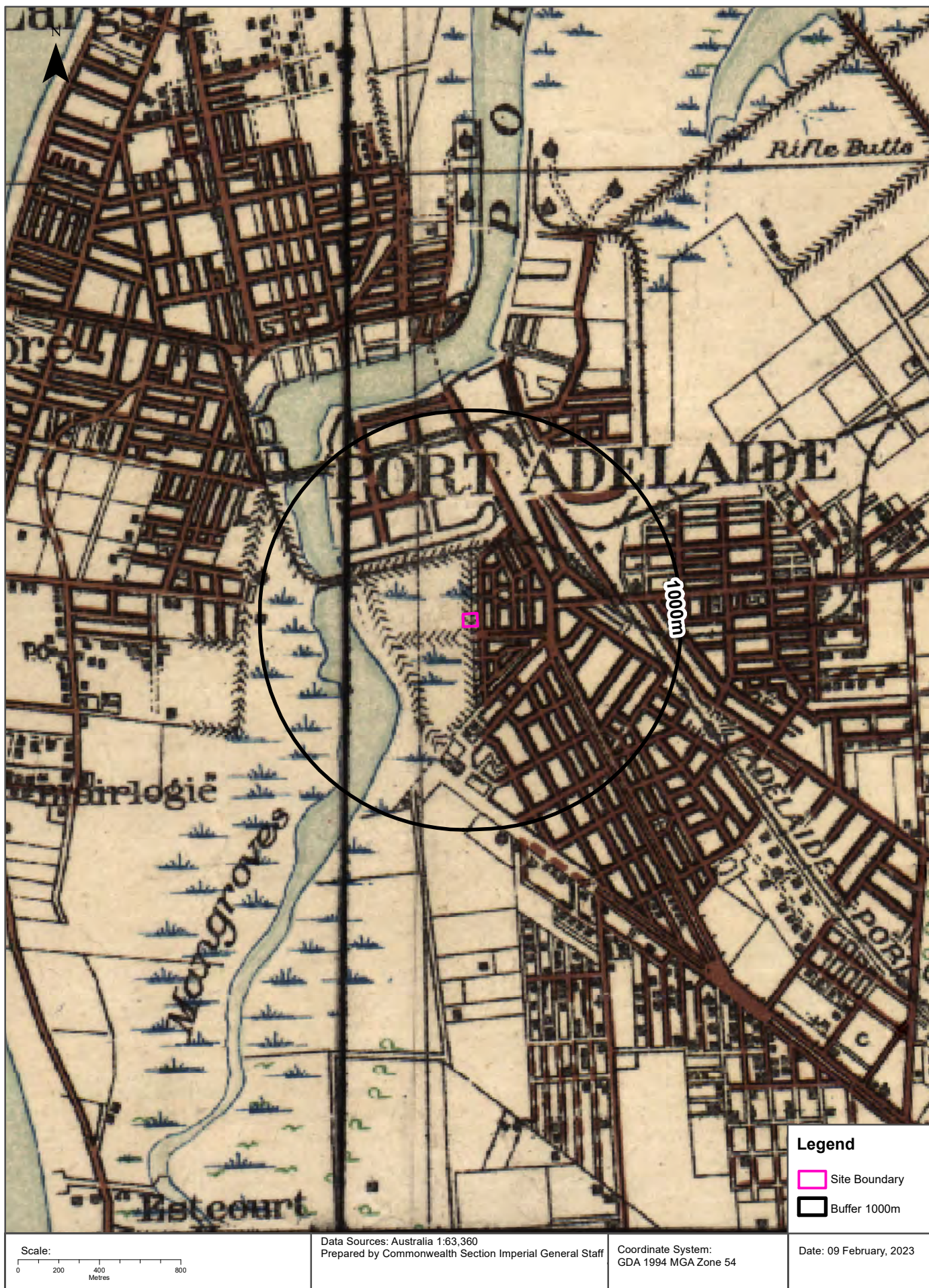
# Historical Map 1926

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



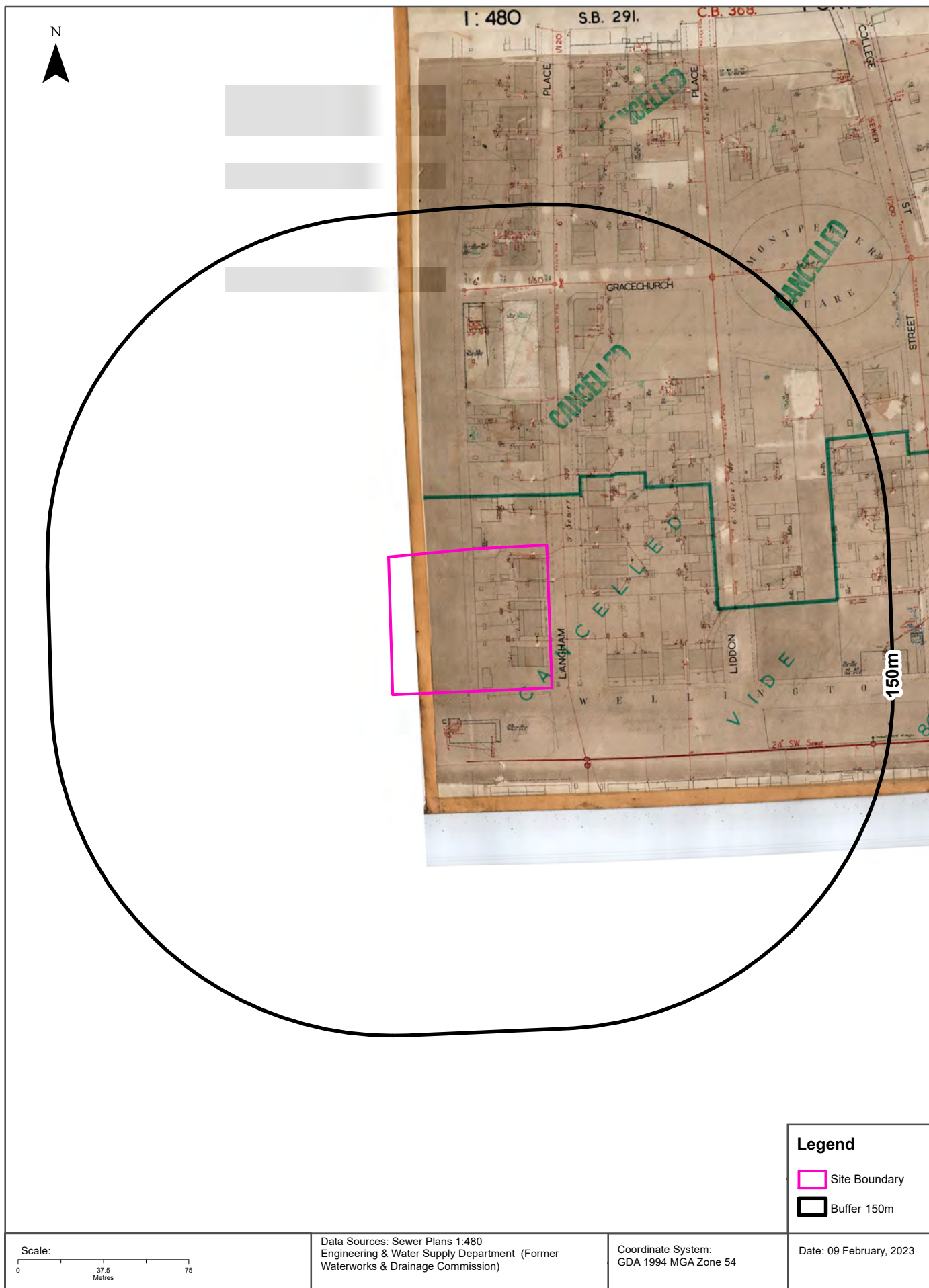
# Historical Map c.1914

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



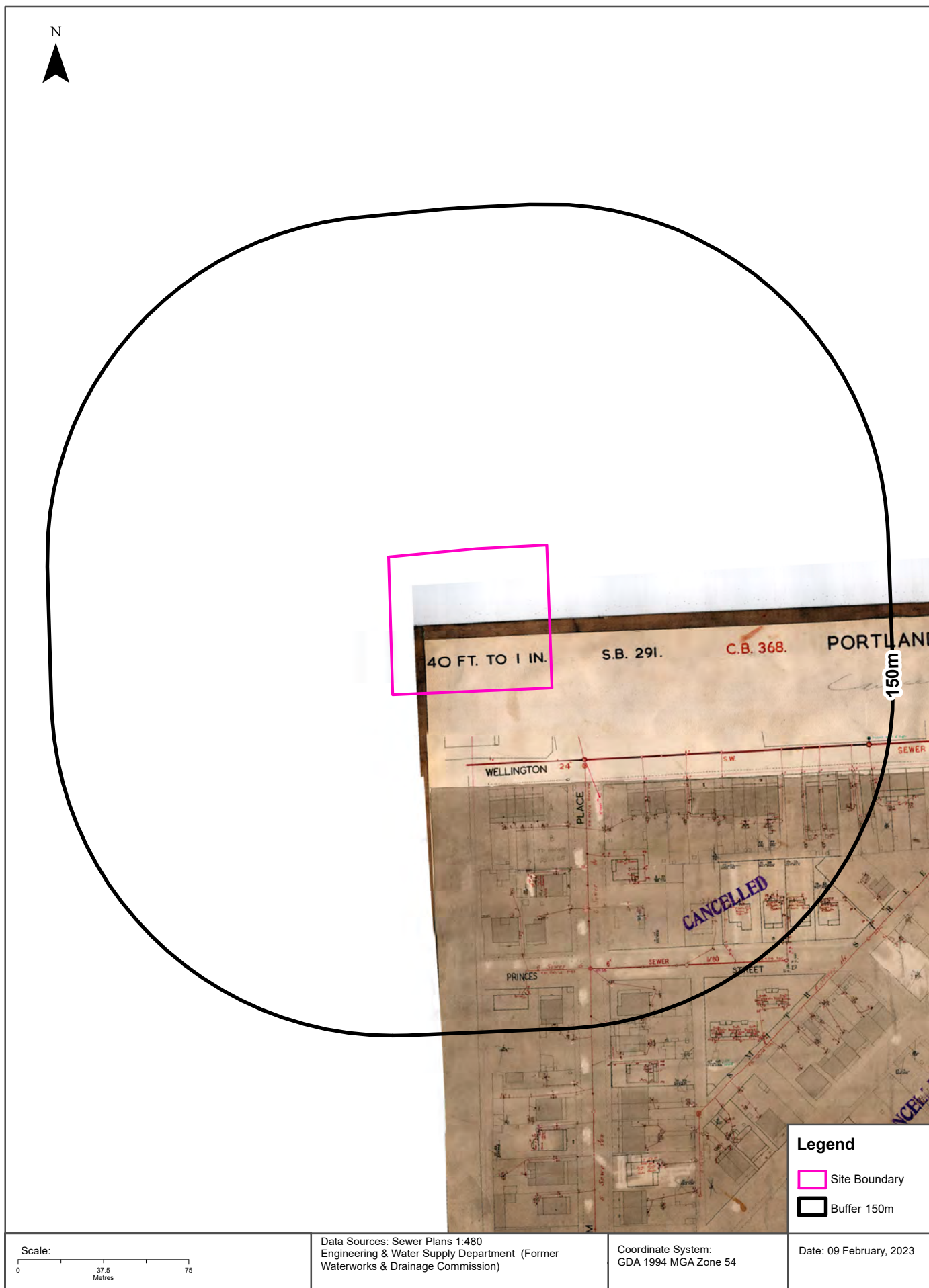
# Historical Map 1900-1970

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



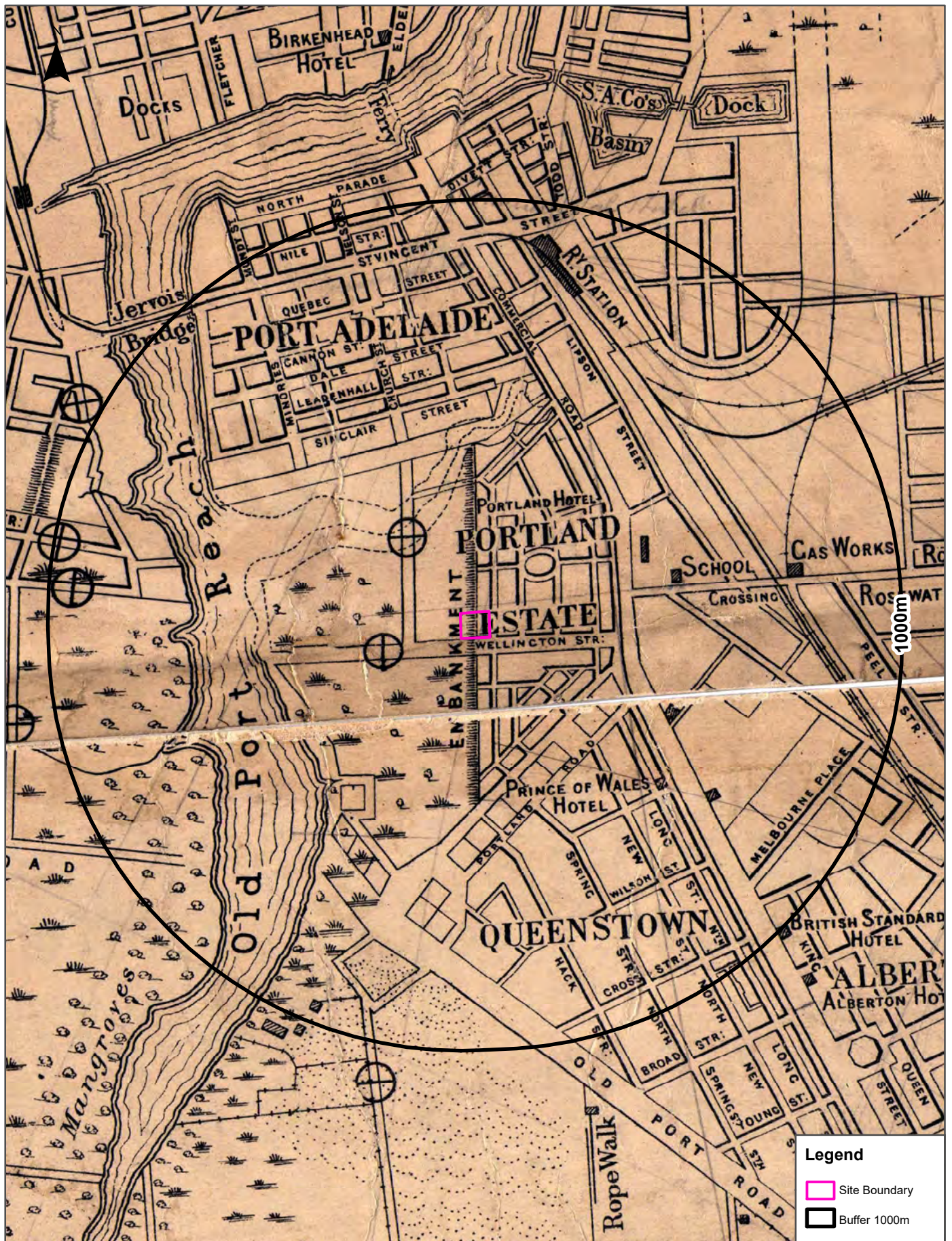
# Historical Map 1900-1970

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



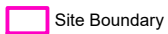

# Historical Map 1889

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



1000m

**Legend**

-  Site Boundary
-  Buffer 1000m

Scale: 0 200 400 Metres

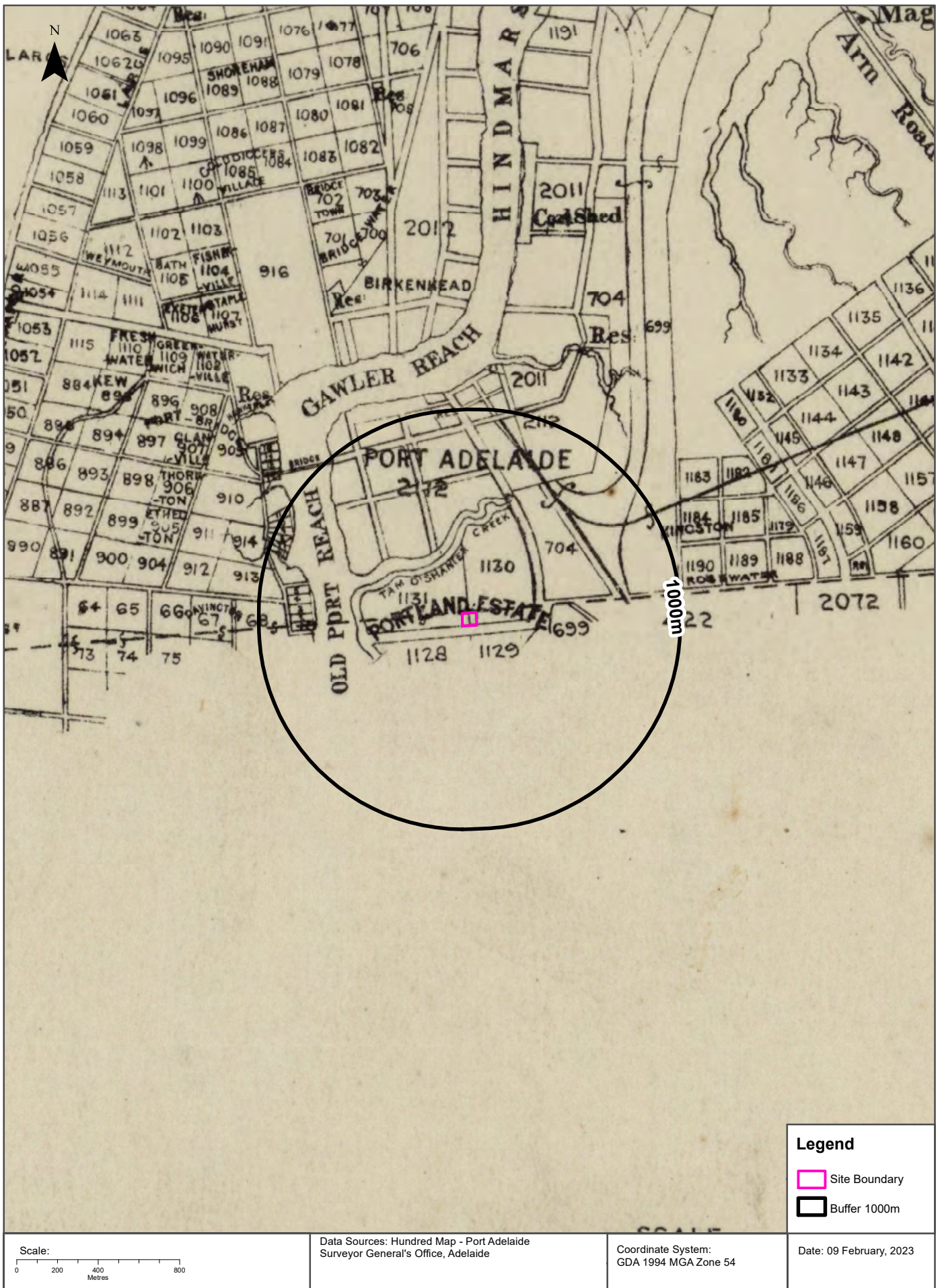
Data Sources:  
Military Map  
Compiled in the Surveyor General's Office 1889

Coordinate System:  
GDA 1994 MGA Zone 54

Date: 09 February, 2023

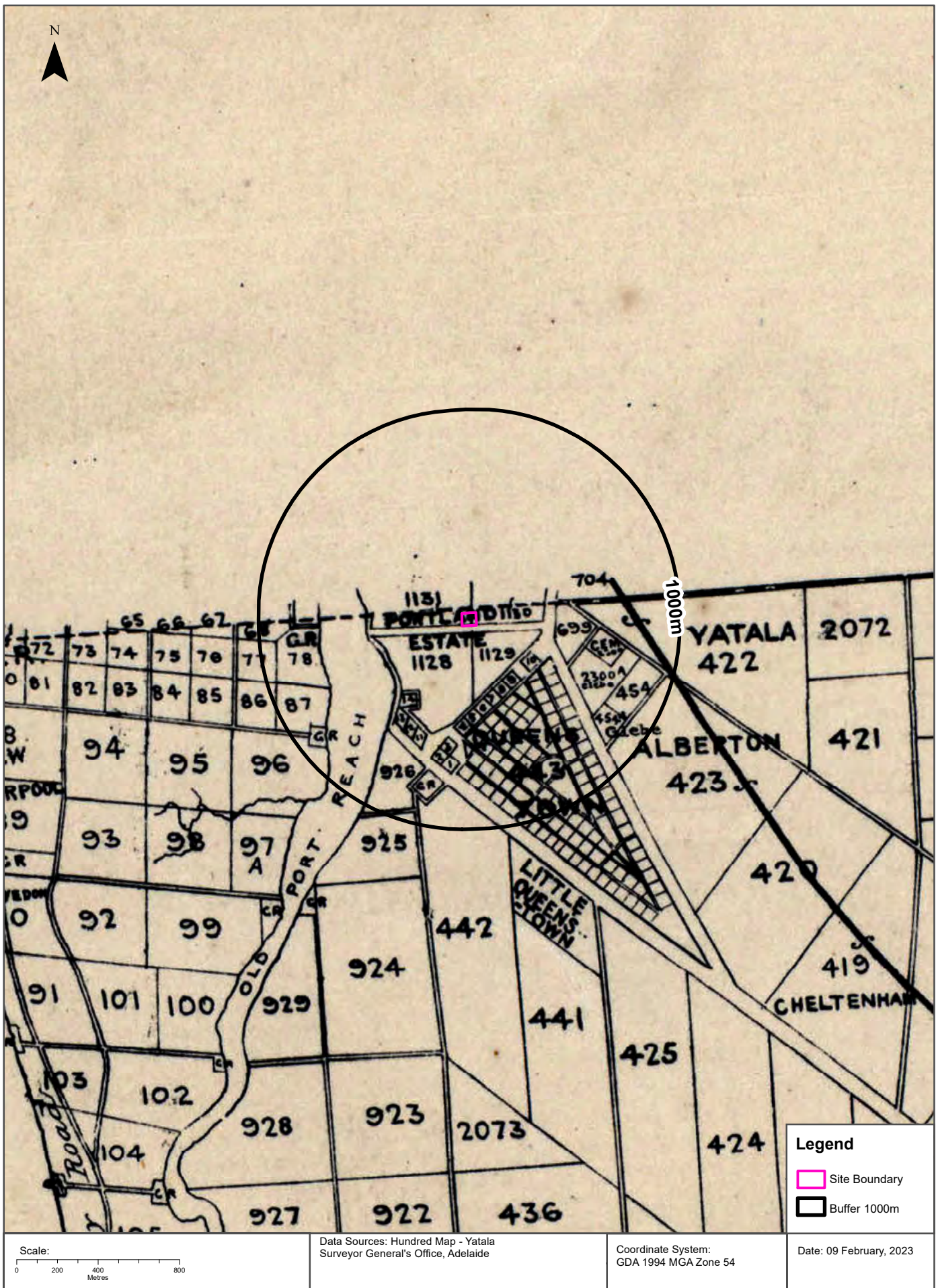
# Historical Map 1876

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



# Historical Map 1876

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



# Mining

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## Mines and Mineral Deposits

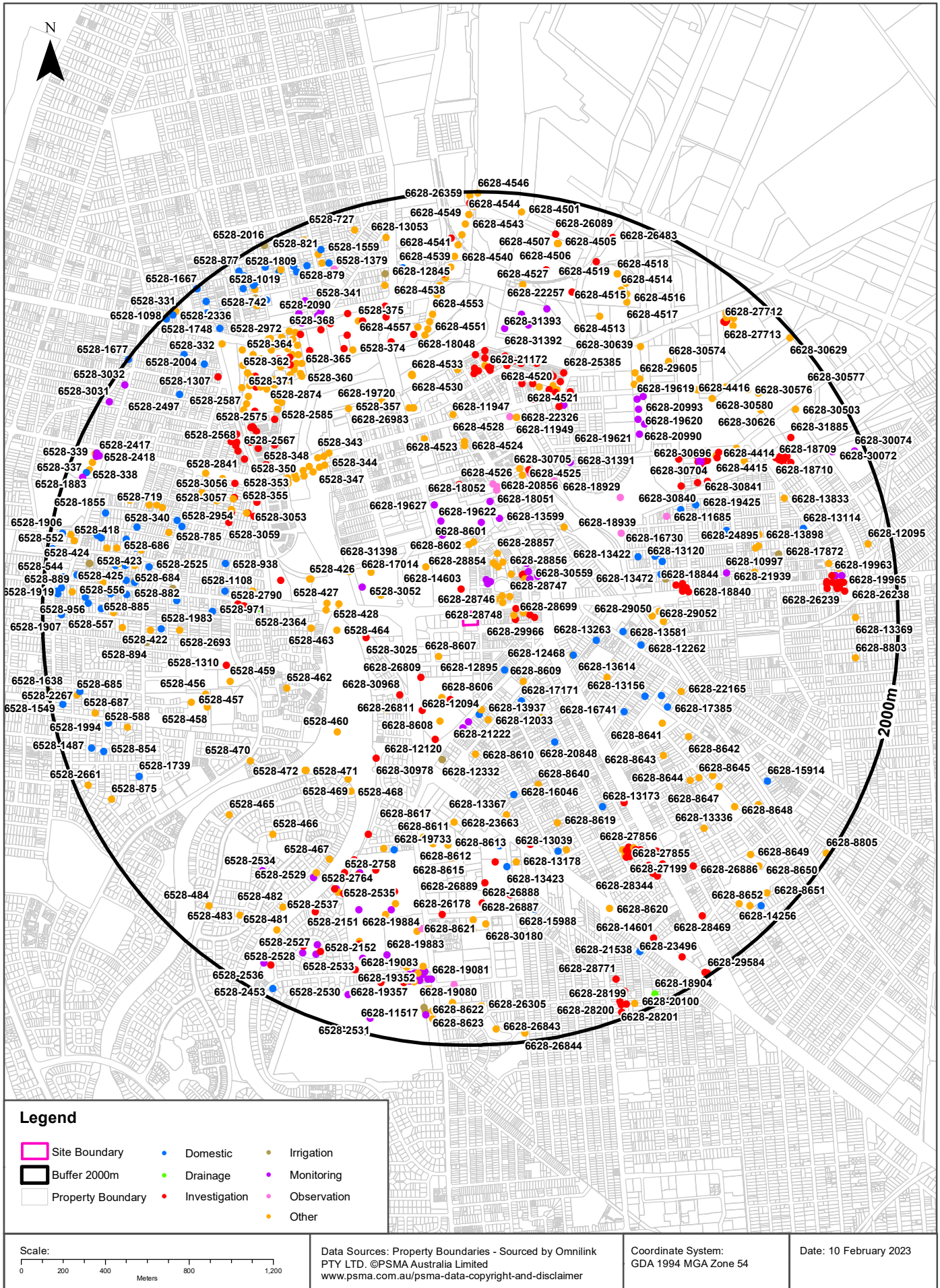
Mines and mineral deposits within the dataset buffer:

Deposit No.	Name	Class	Status	Commodity	Year	Description	Dist	Dir
N/A	No records in buffer							

All Mines and Mineral Deposits Data Source: Dept. of State Development, Resources and Energy - South Australia  
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# Drillholes

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



# Groundwater and Drillholes

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## Groundwater Aquifers

Groundwater aquifers within the dataset buffer:

Aquifer Code	Description	Distance	Direction
20	Sedimentary Rocks - basins include limestone, often cavernous, sandstone, sand shale and clay	0m	On-site
100	ocean	480m	West

Groundwater Aquifers Data Source: Dept. of Environment, Water and Natural Resources - South Australia  
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## Drillholes

Drillholes within the dataset buffer:

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-28749	291814	GW 104	Backfilled			5.45										103m	North East
6628-14603	61572	GH 103	Abandoned	Investigation	1984-03-12	10.50	2.00									112m	North
6628-28748	291813	GW 103	Backfilled			5.40										126m	North East
6628-28746	291811	GW 102	Backfilled			5.32										140m	North East
6628-31838	369294			Monitoring	2021-08-24	4.80										141m	North East
6628-31835	369291			Monitoring	2021-08-24	4.50										154m	North East
6628-31836	369292			Monitoring	2021-08-24	4.50										157m	North
6628-28747	291812	GW 101	Backfilled			5.45										170m	North East
6628-30823	345652		Dry	Environmental	2020-08-31	5.00										171m	East
6628-29966	314555	GW 1		Investigation	2018-10-18	4.50							2.00	2.00		180m	East
6628-29967	314556	GW 2		Investigation	2018-10-18	4.50							2.00	2.00		183m	East
6628-8607	55576	K.W.G. SMITH	Unknown		1964-07-02	12.19		3.47								190m	South West
6628-30248	316787			Environmental	2019-06-17	5.00										217m	East
6628-28855	294715		Backfilled	Environmental	2017-06-30	7.20							2.97	2.97		233m	North East
6628-29198	303733			Environmental	2017-10-24	5.30							2.60	2.60		238m	North East
6628-29580	307614			Environmental	2018-06-13	4.00										238m	North East
6628-28854	294714			Environmental	2017-06-30	7.20							3.37	3.37		242m	North East
6628-30822	345651		Dry	Environmental	2020-08-31	5.00										246m	East
6628-29968	314557	GW 3		Investigation	2018-10-18	4.00							2.00	2.00		249m	East
6628-12895	59864		Operational	Domestic	1984-04-25	3.90	1.00		7.20	1479	2670	0.9000	2.40	2.40	-1.40	250m	South East

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-28856	294716		Backfilled	Environmental	2017-06-30	7.20							3.56	3.56		262m	North East
6628-28699	291254		Decommissioned	Investigation	2017-01-19	4.00										271m	East
6628-30221	316714			Environmental	2017-10-25	4.00							2.30	2.30		274m	North East
6628-29611	310805			Investigation	2018-07-17	5.00										275m	North East
6628-17014	148180	SZ 19				1.20	1.00									279m	North West
6628-29612	310806			Investigation	2018-07-17	5.00										279m	North East
6628-28857	294717		Backfilled	Environmental	2017-06-30	7.20							3.29	3.29		291m	North East
6628-30560	333002			Monitoring	2020-01-20	5.00							2.50	2.50		292m	North East
6628-30559	333001			Monitoring	2020-01-20	5.00							2.50	2.50		306m	North East
6628-29619	311100			Investigation	2018-07-17	5.00										315m	North East
6628-8602	55571	HIGHWAYS DEPT.	Abandoned		1963-02-07	1.91		3.28								319m	North
6628-26809	274874	MW 2		Investigation	2013-06-05	5.00							2.80	2.80		320m	South West
6628-30558	333000			Monitoring	2020-01-15	4.50							2.20	2.20		326m	North East
6628-30222	316715			Environmental	2017-10-25	5.00							2.20	2.20		327m	North East
6628-30557	332999			Monitoring	2020-01-15	4.00							2.30	2.30		331m	North East
6628-8601	55570	HIGHWAYS DEPT.	Abandoned		1963-02-15	24.54		3.26		17136	28184		2.13	2.13	1.13	333m	North
6628-8609	55578				1934-09-01			3.31		4661	8237		2.29	2.29	1.02	346m	South East
6628-26810	274875	MW 3		Investigation	2013-06-05	5.00										360m	South
6628-8606	55575	K.W.G. SMITH	Unknown		1964-05-21	15.24		3.58					0.91	0.91	2.67	361m	South
6628-19625	176095			Monitoring	1999-04-16	6.00		3.38				0.0200	3.20	3.20	0.18	380m	North
6628-31398	357962			Environmental	2021-07-29	6.50										392m	North West
6628-31400	357964			Environmental	2021-07-29	7.50										398m	West
6628-13937	60906				1986-12-01	6.10	2.00		7.70	2949	5270	0.2000	2.00	2.00	0.00	407m	South
6628-13938	60907				1986-12-01	5.90	2.00		7.80	2887	5161	0.2000	2.00	2.00	0.00	407m	South
6628-17171	149776			Domestic	1994-12-10	7.30		3.37	6.50	2103	3780	0.6100				420m	South East
6628-19622	176092			Monitoring	1999-04-16	6.00		3.26				0.0200	3.20	3.20	0.06	423m	North
6628-12094	59063		Operational	Domestic	1982-12-13	5.10	2.00		7.40	138	251	1.0000	2.10	2.10	-0.10	429m	South
6628-19626	176096			Monitoring	1999-04-16	6.00		3.41				0.0200	3.20	3.20	0.21	445m	North
6628-30968	352223			Investigation	2020-09-28	5.00										448m	South West
6628-26811	274876	MW 4		Investigation	2013-06-05	5.00							2.80	2.80		450m	South West
6628-19623	176093			Monitoring	1999-04-16	6.00		3.21				0.0200	3.20	3.20	0.01	454m	North
6628-12033	59002				1982-09-13	6.00	2.00		8.00	1945	3500	0.9000	2.40	2.40	-0.40	457m	South
6628-21222	196665	MB 2	Backfilled	Monitoring	2001-07-31	5.00		3.60					2.00	2.00	1.60	461m	South
6528-3025	352224			Investigation	2020-09-28	5.00										466m	West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-8608	55577	K.W.G. SMITH	Unknown		1964-07-06	10.67		3.69								470m	South
6628-12468	59437		Backfilled		1983-08-08	7.00		3.22	6.30	484	880		2.00	2.00	1.22	472m	East
6628-20847	190743			Domestic		6.00		3.22		2154	3870	0.4000	2.00	2.00	1.22	477m	East
6628-31399	357963			Environmental	2021-07-29	7.50										478m	North West
6628-28848	294685		Backfilled		2017-06-06	20.00										480m	North
6628-21221	196664	MB 1	Backfilled	Monitoring	2001-07-31	5.00		3.65					2.00	2.00	1.65	491m	South
6528-3052	355045			Monitoring	2021-05-07	7.50							5.10	5.10		494m	West
6628-19624	176094			Monitoring	1999-04-16	6.00		3.26				0.0200	3.20	3.20	0.06	526m	North
6628-19627	176097			Monitoring	1999-04-16	6.00		3.44				0.0200	3.20	3.20	0.24	530m	North
6628-22167	205847				2004-08-10	5.80		3.41		993	1799	0.7000	2.80	2.80	0.61	537m	South East
6628-19727	27589	PORT REACH 4	Unknown		1960-08-19	4.27	1.33									543m	South West
6628-26807	274872	MW 1		Investigation	2013-06-04	4.50							2.00	2.00		560m	South
6628-13263	60232		Operational	Domestic	1983-10-12	6.10	2.00					0.7500	1.80	1.80	0.20	567m	East
6528-2777	269779		Backfilled			25.00										573m	West
6628-13599	60568				1985-12-13	17.00		2.88	7.40	1856	3340		0.00	0.00	2.88	575m	North East
6628-18053	162591	PA 13		Observation	1995-10-31	4.50		3.22	7.40	1564	2820					584m	North
6528-429	27557	H. & L G DEPT.			1962-06-13	15.34		3.75								590m	West
6528-430	27558	H. & L. G. DEPT.			1962-06-17	24.38		3.76								595m	West
6628-28130	288313	BORE 1		Investigation	2016-01-14	20.00							2.00	2.00		596m	North
6628-18051	162589	PA 3		Observation	1995-10-31	4.50		3.21	7.50	598	1087					600m	North
6528-464	27592	PORT REACH 2	Unknown		1960-08-19	2.44	0.49									601m	West
6628-28131	288314	BORE 2		Investigation	2016-01-13	20.00							2.00	2.00		607m	North
6628-18052	162590	PA 6		Observation	1995-10-31	4.50		3.22	7.30	1748	3150					612m	North
6628-8610	55579					3.05		3.75		2445	4386		1.52	1.52	2.23	617m	South
6528-427	27555	H. & L.G. DEPT.			1962-05-30	15.47		3.80								648m	West
6628-12332	59301		Operational	Irrigation	1983-06-23	3.60	2.00		7.40	966	1750	1.0000	2.10	2.10	-0.10	649m	South
6628-12120	59089		Operational	Irrigation	1983-01-28	4.50	2.00		7.60	966	1750	1.2000	2.70	2.70	-0.70	650m	South
6528-428	27556	H. & L.G. DEPT.			1962-06-01	15.24		3.81								651m	West
6628-13614	60583				1986-03-01	6.00	2.00		7.20	768	1392	0.5000	3.00	3.00	-1.00	663m	South East
6628-20848	190744			Domestic	2002-01-10	6.00		3.50		1121	2030	1.0000	2.20	2.20	1.30	667m	South East
6628-24552	245550				2008-02-06	6.50		3.27		1239	2240	0.5000	2.20	2.20	1.07	675m	East
6628-21989	203028	GW 1		Monitoring	2005-02-07	5.00		3.19					2.58	2.58	0.61	679m	North
6628-4525	51494				1945-07-13	23.62		3.10								682m	North
6628-13581	60550		Operational	Domestic	1986-02-01	6.00	2.00		7.40	633	1150	0.5000	4.00	4.00	-2.00	690m	East

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-20856	191203	MW 11		Observation	2002-04-16	5.50		3.07				0.0330	2.80	2.80	0.27	703m	North
6628-4526	51495				1945-07-19	16.65		3.12								710m	North
6628-30705	335496			Investigation	2020-03-30	4.00										716m	North
6628-18930	168803	A 1R		Observation	1997-09-11	4.50		2.99					2.41	2.41	0.58	721m	North East
6528-463	27591	PORT REACH 1	Unknown		1960-08-19	3.66	1.37									723m	West
6628-21059	195345			Domestic	2002-12-17	5.50		3.33		1061	1920		2.00	2.00	1.33	733m	South East
6528-2778	269780				2011-12-14	25.00										741m	West
6528-426	27554	PORT REACH MILES 1	Unknown		1951-07-19	6.10		3.87								746m	West
6628-30978	352308			Investigation	2020-09-28	5.00										757m	South West
6628-18939	168812	A 9R		Observation	1997-09-11	4.50		3.01					1.93	1.93	1.08	779m	North East
6628-12262	59231		Operational	Domestic	1983-04-18	3.60	2.00		7.60	661	1200	0.9000	2.10	2.10	-0.10	783m	East
6528-460	27588	PORT REACH MILES 4	Unknown		1951-07-25	6.10		4.08								786m	South West
6628-4523	51492	WOOLW ORTHS 1	Unknown			15.24		3.36								789m	North
6628-13422	60391		Operational	Domestic	1985-08-07	6.00	2.00		7.70	416	756	0.5000	3.00	3.00	-1.00	808m	East
6628-4524	51493	WOOLW ORTHS 2	Unknown			19.81		3.37								810m	North
6628-16741	146191			Domestic	1993-01-15	5.00		3.44	7.20	1306	2360					811m	South East
6628-8640	55609							3.74		9251	15906					815m	South
6628-16046	63015		Operational	Domestic	1992-06-10	6.40		3.86	7.20	628	1140	0.6800	3.00	3.00	0.86	826m	South
6628-29052	299992			Environmental	2017-08-03	4.00										831m	East
6628-31391	357936			Monitoring	2021-07-12	5.00										835m	North East
6628-31715	367597		Backfilled													845m	North
6628-29050	299990			Environmental	2017-08-03	4.00										865m	East
6628-13156	60125		Operational	Domestic	1985-01-17	6.00	2.00		7.30	764	1386	0.5000	4.00	4.00	-2.00	866m	South East
6628-18929	168802	A 15R		Observation	1997-09-12	4.50		2.77					1.20	1.20	1.57	870m	North East
6528-3064	355255		Backfilled	Investigation	2021-05-15	21.00										881m	West
6628-13179	60148		Operational	Domestic	1985-02-15	6.00	2.00		7.50	287	522	0.5000	3.00	3.00	-1.00	883m	East
6628-29051	299991			Environmental	2017-08-03	4.00										884m	East
6528-462	27590	PORT REACH 3	Unknown		1960-08-17	4.88	2.87									891m	West
6628-13472	60441		Operational	Domestic	1985-10-08	6.00	2.00		7.10	1743	3140	0.5000	3.00	3.00	-1.00	891m	East
6628-13262	60231		Operational	Domestic	1985-03-18	6.00	2.00		7.40	685	1244	0.5000	4.00	4.00	-2.00	904m	East
6628-14485	61454		Operational	Irrigation	1989-02-01	6.00	2.00					0.5000	3.00	3.00	-1.00	910m	East
6628-13120	60089		Operational	Domestic	1985-01-07	6.00	2.00		7.30	765	1388	0.5000	3.00	3.00	-1.00	911m	East
6528-469	27597							4.29	6.00	4500	7962					916m	South West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-8618	55587					1.52		4.35	6.50	1500	2493		0.00	0.00	4.35	916m	South
6628-13367	60336				1985-07-15	6.00	2.00		7.50	3827	6800	0.500	3.00	3.00	-1.00	918m	South
6628-13119	60088		Operational	Domestic	1984-12-30	6.00	2.00		7.00	1194	2160	0.500	3.00	3.00	-1.00	936m	East
6628-11947	58916			Observation	1982-03-19	30.00	2.00					3.490	3.25	3.25	-1.25	939m	North
6628-23663	240250				2007-12-03	6.00		4.29					2.80	2.80	1.49	939m	South
6628-11948	58917	CH1	Backfilled		1982-03-10	19.95		3.18					1.55	1.55	1.63	942m	North
6628-11949	58918	CH2			1982-03-12	19.85		3.18								942m	North
6628-4528	51497	PUB BUILD DEPT	Abandoned		1964-09-16	30.48		3.43		1200	2172		3.20	3.20	0.23	943m	North
6628-18844	168027			Investigation	1998-02-11	2.40		3.30		2488	4460		2.00	2.00	1.30	953m	East
6528-468	27596	PORT REACH 7	Unknown		1960-08-31	3.05	1.03									955m	South West
6628-8617	55586	ROYAL PARK HIGH	Rehabilitated	Observation	1970-02-16	116.00	1.74	2.53	8.10	799	1450	17.500	14.61	15.41	-12.87	959m	South
6528-344	27472	JERVOIS BRIDGE 2	Unknown		1958-05-08	19.81										962m	North West
6528-347	27475	JERVOIS BRIDGE 5	Unknown		1958-04-24	20.12										971m	North West
6528-2362	177755			Drainage	1999-11-24	8.00		4.13		2398	3810	1.250	2.10	2.10	2.03	975m	West
6528-349	27477	JERVOIS BRIDGE 7	Unknown		1958-05-04	15.54										977m	North West
6628-18841	168024			Investigation	1998-02-11	2.40		3.35		2205	3960		2.00	2.00	1.35	980m	East
6628-18842	168025			Investigation	1998-02-11	2.40		3.34		1558	2810		2.00	2.00	1.34	981m	East
6628-18843	168026			Investigation	1998-02-11	2.40		3.32		1726	3110		1.80	1.80	1.52	984m	East
6628-17385	152770			Domestic	1995-08-29	18.00		3.56	7.10	5175	9110	0.500				985m	South East
6528-2364	177757			Drainage	1999-11-24	7.00		4.14				1.000	2.00	2.00	2.14	987m	West
6528-2363	177756			Drainage	1999-11-24	8.00		4.14		2873	4470	1.250	2.10	2.10	2.04	990m	West
6528-343	27471	JERVOIS BRIDGE 1	Unknown		1958-04-16	20.42		3.86								990m	North West
6528-345	27473	JERVOIS BRIDGE 3	Unknown		1958-06-04	22.86		3.87								992m	North West
6628-8641	55610				1934-09-01			3.61		6691	1167	6	0.61	0.61	3.00	994m	South East
6528-351	27479	JERVOIS BRIDGE 9	Unknown		1958-05-16	18.29										996m	North West
6628-18840	168023			Investigation	1998-02-11	2.40		3.35		1116	2020		2.00	2.00	1.35	1001m	East
6628-26984	275872	BH 6	Backfilled		2013-05-10	20.65										1002m	North
6628-27763	285088	BH 5	Backfilled		2015-04-13	20.10										1003m	North
6528-1108	28236				1986-10-01	6.00		4.15				0.500	3.00	3.00	1.15	1005m	West
6528-348	27476	JERVOIS BRIDGE 6	Unknown		1958-05-05	15.24										1008m	North West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-11685	58654			Observation	1981-02-25	6.00	1.39		7.40	1412	2550	0.5000	0.83	0.83	0.56	1008 m	North East
6628-18845	168028			Investigation	1998-02-11	2.40		3.37		1317	2380		2.00	2.00	1.37	1009 m	East
6628-26983	275871	BH 5	Backfilled		2013-05-09	20.65										1009 m	North
6528-346	27474	JERVOIS BRIDGE 4	Unknown		1958-04-10	20.73		3.90								1010 m	North West
6528-350	27478	JERVOIS BRIDGE 8	Unknown		1958-05-02	18.29										1016 m	North West
6528-353	27481	JERVOIS BRIDGE 11	Unknown		1958-05-27	21.03										1017 m	North West
6628-8619	55588					2.90	2.00			7150	12455	0.2500	1.83	1.83	0.17	1017 m	South East
6628-22165	205845				2004-10-26	5.50		3.57		974	1763		2.50	2.50	1.07	1018 m	East
6528-471	27599	SA HOUSING TRUST			1961-04-12	4.88		4.33								1020 m	South West
6528-472	27600	SA HOUSING TRUST			1961-04-12	4.88		4.33								1020 m	South West
6528-473	27601	SA HOUSING TRUST			1961-04-12	4.88		4.33								1020 m	South West
6528-474	27602	SA HOUSING TRUST			1961-04-12	4.88		4.33								1020 m	South West
6528-475	27603	SA HOUSING TRUST			1960-08-18	4.88		4.33								1020 m	South West
6528-476	27604	SA HOUSING TRUST			1961-04-12	4.88		4.33								1020 m	South West
6528-477	27605	SA HOUSING TRUST			1961-04-12	4.88		4.33								1020 m	South West
6528-478	27606	SA HOUSING TRUST			1961-04-12	4.88		4.33								1020 m	South West
6528-479	27607	SA HOUSING TRUST			1961-04-12	4.88		4.33								1020 m	South West
6528-480	27608	SA HOUSING TRUST			1961-04-12	4.88		4.33								1020 m	South West
6628-16730	145752			Domestic	1992-12-10	5.00		3.22	5.90	3202	5710					1024 m	East
6628-8611	55580	ROYAL PARK HS 1	Unknown		1968-06-21	30.63	2.00						3.96	3.96	-1.96	1028 m	South
6528-352	27480	JERVOIS BRIDGE 10	Unknown		1958-05-21	20.73										1032 m	North West
6528-355	27483	JERVOIS BRIDGE 13	Unknown		1958-06-11	24.38		3.99								1033 m	North West
6628-8614	55583	ROYAL PARK HS 4	Unknown		1968-07-03	9.45	2.00						1.22	1.22	0.78	1039 m	South
6528-2790	274896	MW 1		Investigation	2013-04-16	5.50										1042 m	West
6628-25150	254865			Investigation	2007-07-06	12.00							2.00	2.00		1042 m	South
6628-28577	290309	BH 35	Backfilled	Investigation	2016-10-14	20.00										1044 m	North
6628-25391	258827	GW 7		Investigation	2010-07-27	5.00							2.70	2.70		1046 m	North

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-23383	236783	MW 6		Investigation	2006-03-03	4.80		3.01					2.30	2.30	0.71	1049 m	North East
6628-8613	55582	ROYAL PARK HS 3	Unknown		1968-06-28	9.14		4.50					2.44	2.44	2.06	1050 m	South
6628-13173	60142		Operational	Domestic	1985-02-07	6.00	2.00		6.40	1810	3260	0.5000	3.00	3.00	-1.00	1051 m	South East
6628-8612	55581	ROYAL PARK HS 2	Unknown		1968-06-26	9.14		4.57					2.44	2.44	2.13	1051 m	South
6528-354	27482	JERVOIS BRIDGE 12	Unknown		1958-05-30	21.03		4.00								1052 m	North West
6628-25151	254866			Investigation	2007-07-09	9.00							1.00	1.00		1056 m	South
6628-17496	153299			Domestic	1995-12-21	13.50		4.21	7.10	2063	3250	1.0000				1060 m	South
6628-22326	209628	MW 3		Monitoring		4.50		2.99					2.20	2.20	0.79	1063 m	North East
6628-22328	209630	MW 1		Monitoring	2005-12-19	4.10		2.99					2.20	2.20	0.79	1067 m	North East
6528-2791	274897	MW 2		Investigation	2013-04-16	5.50										1071 m	West
6628-25152	254867			Investigation	2007-07-10	14.00							1.00	1.00		1076 m	South
6628-19721	27487	COPPER-CO-WHARF	Abandoned		1957-05-21	12.19		3.71					3.05	3.05	0.66	1079 m	North
6628-22327	209629	MW 2		Monitoring		4.10		2.99					2.00	2.00	0.99	1080 m	North East
6628-13112	60081		Operational	Domestic	1984-12-18	6.00	2.00		7.00	1928	3470	0.5000	3.00	3.00	-1.00	1081 m	North East
6628-8643	55612					6.10		3.78		6663	11627					1082 m	South East
6628-23381	236781	MW 4		Investigation	2006-03-03	5.50		3.00					2.70	2.70	0.30	1086 m	North
6628-23382	236782	MW 5		Investigation	2006-03-03	5.00		2.99					3.00	3.00	-0.01	1086 m	North East
6628-19720	27486	S.A. HARBOR S BRD	Abandoned		1957-05-20	12.19		3.76					2.90	2.90	0.86	1092 m	North West
6528-2767	267294	MW 33		Investigation	2011-06-20	5.00							2.00	2.00		1095 m	South West
6528-3054	355165		Dry	Investigation	2021-01-11	4.00										1095 m	North West
6628-26890	275631	MW 3		Investigation	2012-08-23	4.50							2.40	2.40		1099 m	South East
6628-25390	258826	GW 6		Investigation	2010-07-27	5.00							2.60	2.60		1104 m	North
6528-3060	355171		Dry	Investigation	2021-01-14	4.00										1105 m	West
6628-25389	258825	GW 5		Investigation	2010-07-27	5.50							2.20	2.20		1107 m	North
6628-4520	51489	HARBORS 4520	Unknown		1958-01-17	17.68		3.07								1109 m	North
6628-8615	55584	ROYAL PARK HS 5	Unknown		1968-07-05	9.60		4.57					1.52	1.52	3.05	1109 m	South
6628-25388	258824	GW 4		Investigation	2010-07-27	5.50							2.50	2.50		1110 m	North
6528-357	27485	S.A. HARBOR S BRD	Abandoned		1957-05-16	13.41		3.83								1112 m	North West
6528-3055	355166		Dry	Investigation	2021-01-11	4.00										1113 m	North West
6628-28579	290311	BH 37	Backfilled	Investigation	2016-10-18	20.00										1114 m	North
6628-8616	55585	ROYAL PARK HS 6	Unknown		1968-07-10	9.30		4.70					2.44	2.44	2.26	1114 m	South

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-19733	27934		Operational	Domestic	1984-01-23	3.60		4.74	7.40	999	1810	0.6000	2.10	2.10	2.64	1119 m	South
6628-4522	51491	GOVT OFFICES 2	Unknown		1975-06-09	30.60	3.00		7.60	17024	28000					1122 m	North
6528-3053	355164		Dry	Investigation	2021-01-11	4.00										1126 m	North West
6628-19851	27811				1982-12-01	6.00	2.00					0.5000				1129 m	South
6528-3081	364593			Environmental	2022-01-19	10.00				32382	49600		6.00	6.00		1132 m	North West
6628-27500	280778	MW 1		Investigation	2014-08-22	5.00							2.20	2.20		1133 m	North
6628-26885	275626	MW 2		Investigation	2012-08-23	4.50							2.40	2.40		1134 m	South
6628-4521	51490	GOVT OFFICES 1	Unknown		1975-06-03	30.60	3.00									1134 m	North
6528-1852	149750			Domestic	1995-01-20	6.40		4.28	7.30	722	1310	0.4300				1135 m	West
6628-29732	312805		Backfilled	Investigation	2018-08-27	20.00										1135 m	North East
6628-8642	55611					3.66		3.82		3374	6012					1135 m	South East
6628-30840	345970		Dry	Investigation	2020-06-22	4.50										1139 m	North East
6528-459	27587		Backfilled		1971-08-23	198.12		4.38		2792	4997	19.3200	5.18	5.18	-0.80	1141 m	West
6628-19621	176091			Monitoring	1998-12-16	4.00		2.51				0.1000	2.00	2.00	0.51	1141 m	North East
6528-1310	28438	GH 105	Abandoned	Investigation	1984-03-14	10.50	2.50									1143 m	West
6628-13039	60008		Operational	Domestic	1984-09-03	3.90	2.00					0.7000	2.40	2.40	-0.40	1145 m	South
6628-16253	131805			Industrial	1993-01-25	126.00		4.21	8.00	1604	2760	5.0000	16.00	16.00	-11.79	1145 m	South
6628-27502	280782	MW 3		Investigation		5.00							2.20	2.20		1145 m	North
6628-27854	285446			Investigation	2015-04-22	20.00										1148 m	North
6628-21172	196323			Investigation	2003-05-05	5.00		3.27					2.80	2.80	0.47	1149 m	North
6628-13178	60147				1985-02-15	5.00	2.00		7.60	3464	6168	0.5000	3.00	3.00	-1.00	1150 m	South East
6528-938	28066		Operational	Domestic	1985-01-23	6.00		4.13	6.70	2019	3630	0.5000	3.00	3.00	1.13	1152 m	West
6628-4529	51498	SA HARBOR S BOARD	Abandoned		1950-12-01	15.54										1153 m	North
6628-4530	51499	SA HARBOR S BOARD	Abandoned		1950-12-06	15.54										1155 m	North
6628-4531	51500	SA HARBOR S BOARD	Abandoned		1950-12-08	15.24										1156 m	North
6628-19425	174350			Domestic	1999-03-01	13.00		3.10		2561	4590	0.5000	6.00	6.00	-2.90	1157 m	North East
6628-27501	280781	MW 2		Investigation	2014-08-22	5.00							2.20	2.20		1157 m	North
6628-30739	338334		Dry	Environmental	2020-06-11	20.00										1157 m	North
6628-4532	51501	SA HARBOR S BOARD	Abandoned		1950-12-13	15.85										1158 m	North
6628-4533	51502	SA HARBOR S BOARD	Abandoned		1951-01-25	23.16										1158 m	North
6628-4534	51503	SA HARBOR S BOARD	Abandoned		1951-02-06	22.25										1159 m	North

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-13423	60392		Operational	Domestic	1985-08-19	4.70	2.00		7.50	637	1156	1.0000	2.10	2.10	-0.10	1161 m	South
6628-21175	196336			Investigation	2003-05-06	4.50		3.27					2.30	2.30	0.97	1162 m	North
6628-25392	258828	GW 8		Investigation	2010-07-29	5.50							2.40	2.40		1162 m	North
6628-21173	196334			Investigation	2003-05-06	4.50		3.27					2.70	2.70	0.57	1167 m	North
6628-26177	267223	MW 31		Investigation	2011-06-14	5.00							3.50	3.50		1169 m	South
6628-21174	196335				2003-05-06	2.90		3.29					2.80	2.80	0.49	1170 m	North
6628-25387	258823	GW 3		Investigation	2010-07-26	5.50							2.50	2.50		1170 m	North
6628-20858	191220	PAMB 12		Observation	2002-04-15	5.50		4.81				0.0330	2.58	2.58	2.23	1171 m	South
6528-2572	219513	BH 302		Investigation	2006-05-17	19.45		4.10								1172 m	North West
6628-28559	290199	BH 38	Backfilled			20.00										1174 m	North
6628-28580	290312	BH 38	Backfilled	Investigation	2016-10-26	20.00										1174 m	North
6628-28581	290313	BH 33	Backfilled	Investigation	2016-10-26	20.00										1174 m	North
6628-30839	345968		Dry	Investigation	2020-06-22	4.00										1174 m	North East
6628-25393	258829	GW 9		Investigation	2010-08-04	5.50							1.90	1.90		1179 m	North
6628-25386	258822	GW 2		Investigation	2010-07-26	5.50							2.40	2.40		1182 m	North
6628-19620	176090			Monitoring	1998-12-16	4.00		2.60				0.1000	2.00	2.00	0.60	1190 m	North East
6528-971	28099		Operational	Domestic	1985-03-01	3.60		4.36	6.80	1586	2860	0.6000	2.10	2.10	2.26	1191 m	West
6528-3059	355170		Dry	Investigation	2021-01-12	4.00										1193 m	West
6628-20990	194702	PA 1		Monitoring	2002-12-09	8.50		2.50					1.00	1.00	1.50	1193 m	North East
6528-2578	219520	MBH 6		Investigation	2006-05-17	19.45		4.08								1198 m	North West
6528-3058	355169		Dry	Investigation	2021-01-12	4.00										1200 m	North West
6628-21939	202226	MW 1		Monitoring	2004-09-09	4.50		3.46					2.20	2.20	1.26	1200 m	East
6628-28582	290314	BH 34	Backfilled	Investigation	2016-10-13	25.00										1200 m	North
6528-470	27598	PORT REACH 5	Unknown		1960-08-19	5.18	2.93									1201 m	South West
6628-30838	345967		Dry	Investigation	2020-06-22	4.00										1201 m	North East
6628-25394	258830	GW 10		Investigation	2010-08-03	5.50							2.90	2.90		1204 m	North
6528-3079	364590			Environmental	2022-01-18	10.00				33135	50600		1.50	1.50		1205 m	North West
6628-25385	258821	GW 1		Investigation	2010-07-26	5.50							2.50	2.50		1207 m	North
6628-18050	162588	BH 6		Investigation	1996-02-13	5.25		3.31	7.90	1110	2010					1208 m	North
6628-30841	345971		Dry	Investigation	2020-06-19	4.50										1213 m	North East
6628-28578	290310	BH 36	Backfilled	Investigation	2016-10-17	20.00										1215 m	North
6528-3057	355168		Dry	Investigation	2021-01-12	4.00										1218 m	North West
6528-3080	364592			Environmental	2022-01-17	10.00				34851	52900		1.50	1.50		1218 m	North West
6628-18048	162586	BH 4		Investigation	1996-02-13	5.70		3.36	7.40	1116	2020					1222 m	North

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-25395	258831	GW 11		Investigation	2010-08-03	5.50							2.50	2.50		1222 m	North
6628-26889	275630	MW 5		Investigation	2012-08-23	5.00							2.40	2.40		1229 m	South
6628-20993	194707	PA 2		Monitoring	2002-12-09	8.50		2.63					1.00	1.00	1.63	1230 m	North East
6528-2724	240209	GMW 23		Investigation		3.50		46.46		1979	3560		1.20	1.20	45.26	1233 m	South West
6628-24813	247773	GMW 27		Investigation	2009-01-14	6.00							4.50	4.50		1239 m	South
6628-18049	162587	BH 5		Investigation	1996-02-13	5.70		3.33	7.60	2921	5220					1243 m	North
6628-12662	59631		Operational	Domestic	1983-12-15	6.00	2.00		7.40	620	1126	1.0000	2.00	2.00	0.00	1246 m	East
6528-3056	355167		Dry	Investigation	2021-01-12	4.00										1247 m	North West
6528-2573	219514	BH 303		Investigation	2006-05-18	19.45		4.15								1248 m	North West
6628-8644	55613					4.88		4.07		11838	20024		2.44	2.44	1.63	1254 m	South East
6628-30703	335494			Investigation	2020-03-25	3.50										1256 m	North East
6628-30704	335495			Investigation	2020-03-25	4.50										1258 m	North East
6628-19619	176089			Monitoring	1998-12-16	4.00		2.65				0.1000	2.00	2.00	0.65	1266 m	North East
6528-456	27584	WEST LAKES PS 1	Unknown		1973-06-08	29.85	1.93			21600	34700					1268 m	West
6528-2842	288808	MW 3		Investigation	2015-11-19	4.50							2.60	2.60		1269 m	North West
6628-30701	335492			Investigation	2020-03-26	3.50										1270 m	North East
6628-28447	289524	GW 3	Backfilled			5.00										1274 m	South East
6628-31926	369626			Monitoring	2022-06-24	6.00										1274 m	North East
6528-2150	175503	GW 1		Monitoring	1998-06-11	5.50		4.84					2.72	2.72	2.12	1276 m	South West
6528-458	27586	WEST LAKES PS 3	Unknown		1973-06-26	14.85	1.93			54661	78087		2.10	2.10	-0.17	1277 m	West
6628-31925	369625			Monitoring	2022-06-24	6.00										1278 m	North East
6628-31923	369623			Monitoring	2022-06-23	6.00										1279 m	North East
6628-27856	285448	GW 205	Backfilled	Investigation	2015-05-21	5.80							3.50	3.50		1280 m	South East
6528-2581	222848	GW 239		Investigation	2006-09-29	7.50		4.17								1281 m	North West
6628-30700	335491			Investigation	2020-03-26	3.50										1281 m	North East
6628-30702	335493			Investigation	2020-03-25	3.50										1281 m	North East
6628-31924	369624			Monitoring	2022-06-24	6.00										1281 m	North East
6628-30699	335490			Investigation	2020-03-26	3.50										1282 m	North East
6628-8645	55614					6.40		4.11		4669	8251		3.05	3.05	1.06	1282 m	South East
6628-31921	369621			Monitoring	2022-06-23	6.00										1283 m	North East
6528-2575	219516	BH 305		Investigation	2006-05-19	19.45		4.11								1284 m	North West
6628-30738	338328			Environmental	2020-06-09	7.50										1284 m	North East
6628-31200	354705			Investigation	2021-03-17	5.50										1284 m	North East

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6528-3074	360360		Dry	Environmental	2021-08-31	4.00										1285 m	North West
6528-467	27595	PORT REACH 10	Unknown		1961-08-30	3.35	1.13									1285 m	South West
6628-31922	369622			Monitoring	2022-06-23	6.00										1286 m	North East
6628-31599	362859			Investigation	2021-10-28	7.00							2.90	2.90		1287 m	South East
6528-2758	266571	MW 30		Investigation	2011-09-06	8.50										1290 m	South West
6628-20994	194708	PA 3		Monitoring	2002-12-09	8.50		2.61					1.00	1.00	1.61	1290 m	North East
6528-2577	219519	BH 306		Investigation	2006-05-22	19.45		4.19								1296 m	North West
6628-26887	275628	MW 1		Investigation	2012-08-23	4.50							2.40	2.40		1297 m	South
6628-28446	289523	GW 1	Backfilled			5.00										1297 m	South East
6528-2574	219515	BH 304		Investigation	2006-05-18	19.45		4.17								1306 m	North West
6628-27855	285447	GW 204	Backfilled		2015-05-21	5.60							3.20	3.20		1306 m	South East
6628-27857	285449	GW 206	Backfilled	Investigation	2015-05-20	5.50							3.00	3.00		1306 m	South East
6528-2765	267230	MW 34		Investigation	2011-06-20	4.80							0.90	0.90		1307 m	South West
6528-2760	266573	MWP 2		Investigation	2011-09-07	10.00										1308 m	South West
6628-31201	354706			Investigation	2021-03-16	6.00										1308 m	North East
6628-31596	362856			Investigation	2021-10-28	7.00							3.00	3.00		1308 m	South East
6628-31597	362857			Investigation	2021-10-28	7.00							2.90	2.90		1308 m	South East
6528-2586	234270	BH 8			2007-06-12	17.95		4.11								1309 m	North West
6528-3070	360356		Dry	Environmental	2021-08-30	4.00										1309 m	North West
6628-28311	288915	MWB 1		Investigation	2015-10-21	5.00							4.00	4.00		1310 m	South
6628-29606	310720			Environmental	2018-07-11	4.20										1314 m	North East
6628-31598	362858			Investigation	2021-10-28	7.00							2.90	2.90		1315 m	South East
6528-2841	288807	MW 2		Investigation	2015-11-19	4.00							2.20	2.20		1317 m	North West
6628-30698	335489			Investigation	2020-03-26	3.50										1317 m	North East
6628-30912	349129			Environmental	2020-04-14	3.00										1317 m	North East
6528-558	27686				1981-01-01	6.00		4.24	6.50	2121	3810	0.5000	3.00	3.00	1.24	1319 m	West
6528-2585	234269	BH 7			2007-06-12	18.10		4.10								1320 m	North West
6628-27199	279282	GW 2	Backfilled	Investigation	2014-03-11	5.30							2.70	2.70		1320 m	South East
6628-27858	285450	GW 207	Backfilled	Investigation	2015-05-20	7.60							2.80	2.80		1321 m	South East
6628-26888	275629	MW 4		Investigation		4.50							2.40	2.40		1326 m	South
6628-8646	55615					4.57		4.18		2359	4234		1.52	1.52	2.66	1328 m	South East
6528-2616	235939	GW 242		Investigation	2006-12-13	7.20		4.19					3.00	3.00	1.19	1329 m	North West
6628-28424	289417	GW 1		Investigation	2016-05-24	4.30							2.20	2.20		1332 m	North
6628-10997	57966				1979-02-26	9.14	2.00		7.70	650	1180	0.7500	3.65	3.65	-1.65	1333 m	East

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-4550	51519	SA HARBOR S BOARD	Abandoned		1961-09-22	22.86		3.58								1334 m	North
6528-2615	235938	GW 243		Investigation	2006-12-13	12.50		4.19					3.00	3.00	1.19	1335 m	North West
6528-2617	235940	GW 241		Investigation	2006-12-14	11.60		4.19					3.00	3.00	1.19	1338 m	North West
6528-2618	235941	GW 240		Investigation	2006-12-14	7.50		4.19					3.00	3.00	1.19	1339 m	North West
6528-2964	330214		Backfilled													1340 m	North West
6528-2568	218508	MW 3		Investigation	2006-06-16	4.00		4.24					1.80	1.80	2.44	1341 m	North West
6528-457	27585	WEST LAKES PS 2	Unknown		1973-06-21	20.25	1.93			4434 2	6334 6		1.60	1.60	0.33	1344 m	West
6528-466	27594	PORT REACH 9	Unknown		1960-09-01	4.88	2.91									1345 m	South West
6628-28426	289419	GW 3		Investigation	2016-05-25	4.00							2.00	2.00		1345 m	North
6528-2567	218507	MW 2		Investigation	2006-06-15	4.00		4.24					1.80	1.80	2.44	1346 m	North West
6528-2693	246968				2008-11-25	5.00		4.55		1934	3480		2.50	2.50	2.05	1348 m	West
6628-29605	310719			Environmental	2018-07-10	4.50										1349 m	North East
6528-374	27502	TONKIN AND MOSS	Abandoned		1965-05-28	27.43		3.85								1353 m	North West
6628-31392	357937			Monitoring	2021-07-13	5.50										1353 m	North
6628-30697	335488			Investigation	2020-03-26	3.50										1355 m	North East
6628-24896	252691					6.00										1356 m	East
6628-4414	51383	GILLMAN SILO 1	Unknown		1960-02-05	19.81		2.95					2.97	2.97	-0.02	1356 m	North East
6628-4415	51384	GILLMAN SILO 2	Unknown		1960-02-10	21.34	2.00									1356 m	North East
6528-3072	360358		Dry	Environmental	2021-08-30	4.00										1359 m	West
6528-361	27489	S.A. HARBOR S BRD	Abandoned		1951-07-06	14.94										1359 m	North West
6628-4551	51520	SA HARBOR S BOARD	Abandoned		1961-09-28	23.16		3.59								1360 m	North
6628-29604	310718			Environmental	2018-07-10	4.40										1361 m	North East
6528-2140	174152			Domestic	1997-11-27	6.50		4.49		1233	2230	0.400 0	2.50	2.50	1.99	1362 m	West
6628-28312	288916	MWB 2			2015-10-21	5.00							3.50	3.50		1365 m	South
6528-3073	360359		Dry	Environmental	2021-08-31	4.00										1366 m	North West
6528-2569	218509	MW 1		Investigation	2006-06-15	4.00		4.26					1.80	1.80	2.46	1371 m	North West
6528-2766	267231	MW 41			2011-06-28	5.00										1371 m	South West
6528-2840	288806	MW 1		Investigation	2015-11-19	4.00							2.20	2.20		1371 m	North West
6528-2967	330219		Backfilled													1373 m	North West
6528-372	27500	S.A. HARBOR S BRD			1951-07-11	13.72										1373 m	North West
6628-28692	290959	MW 9		Investigation	2016-06-20	5.50							3.14	3.14		1373 m	South East
6628-24895	252690					6.00										1374 m	East

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6528-360	27488	S.A. HARBOR S BRD	Abandoned		1951-04-20	18.29										1376 m	North West
6628-30696	335487			Investigation	2020-03-30	3.50										1376 m	North East
6528-2597	234281	BH 27		Investigation	2007-06-12	15.45		4.20								1377 m	North West
6528-2891	307532			Investigation	2018-04-10	4.00										1377 m	North West
6628-4557	51526	SA HARBOR S BOARD	Abandoned		1955-10-27	23.16		3.63								1377 m	North
6628-15988	62957		Operational	Domestic	1992-04-12	6.00		4.28	8.20	4270	7562		3.00	3.00	1.28	1381 m	South
6628-26178	267224	MW 32		Investigation	2011-06-14	5.00							3.00	3.00		1383 m	South
6628-8647	55616					3.05		4.29	7.00	1115	2018		1.83	1.83	2.46	1383 m	South East
6528-886	28014		Operational	Irrigation	1984-09-27	6.00		4.47	7.60	1060	1918	0.5000	2.50	2.50	1.97	1385 m	West
6628-31396	357941			Monitoring	2021-07-12	5.00										1387 m	North
6628-13898	60867				1987-02-26	4.60		3.41	7.40	1266	2290	1.2500	1.80	1.80	1.61	1389 m	East
6528-3071	360357		Dry	Environmental	2021-08-30	4.00										1391 m	North West
6628-28425	289418	GW 2		Investigation	2016-05-25	4.00							1.80	1.80		1391 m	North
6628-4552	51521	SA HARBOR S BOARD	Abandoned		1961-10-06	22.86		3.60								1393 m	North
6528-2535	200930			Monitoring	2004-08-06	5.50		4.84				0.0100	2.90	2.90	1.94	1395 m	South West
6528-2529	200907			Monitoring	2004-08-06	5.50		4.77				0.0100	2.90	2.90	1.87	1396 m	South West
6528-2592	234276	BH 21			2007-06-12	17.95		4.11								1398 m	North West
6528-2739	247772	GMW 26		Investigation	2009-01-14	5.00							3.00	3.00		1398 m	South West
6528-2764	267229	MW 35		Investigation	2011-06-27	5.00							2.00	2.00		1398 m	South West
6528-2954	316927		Backfilled	Domestic		3.00							2.26	2.26		1398 m	West
6628-19884	175507	GW 5		Monitoring	1998-06-12	5.50		5.00					3.56	3.56	1.44	1399 m	South
6528-2537	202624				2004-08-06	5.50		4.85				0.0100	2.90	2.90	1.95	1403 m	South West
6628-30182	316099			Environmental	2019-04-17	5.50										1404 m	South
6628-28342	289022	MW 4		Investigation	2015-10-15	5.50							3.20	3.20		1406 m	South East
6628-30695	335486			Investigation	2020-03-30	3.50										1406 m	North East
6528-2980	330269		Backfilled													1407 m	North West
6628-30630	334607			Investigation	2020-03-24	4.00										1409 m	North East
6528-371	27499	S A HARBOR S BRD	Abandoned		1951-05-18	17.68		4.10								1410 m	North West
6528-363	27491	S.A. HARBOR S BRD	Abandoned		1951-06-07	14.63		4.07								1411 m	North West
6628-28343	289023	MW 5			2015-10-15	5.50							3.30	3.30		1414 m	South East
6528-2968	330221		Backfilled													1415 m	North West
6528-2966	330218		Backfilled													1421 m	North West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6528-362	27490	S.A. HARBOR S BRD	Abandoned		1951-05-08	18.59		4.09								1425 m	North West
6628-30180	316097			Environmental	2019-04-17	5.50										1426 m	South
6628-4553	51522	SA HARBOR S BOARD	Abandoned		1961-10-06	22.86		3.60								1427 m	North
6528-2965	330215		Backfilled													1428 m	North West
6528-340	27468		Operational	Domestic	1974-01-01	0.61	5.00		7.00	2869	5130		0.10	0.10	4.90	1428 m	West
6628-28042	287454	MW 14	Backfilled													1428 m	South
6528-2874	303994		Backfilled	Environmental	2017-11-06	5.00										1429 m	North West
6528-2981	330270		Backfilled													1429 m	North West
6528-2890	307531			Investigation	2018-04-10	4.00										1430 m	North West
6628-31394	357939			Monitoring	2021-07-13	4.50										1431 m	North
6528-465	27593	PORT REACH 8	Unknown		1960-08-31	4.57	2.52									1434 m	South West
6528-2594	234278	BH 23	Backfilled	Investigation	2007-06-12	17.95		4.12								1436 m	North West
6528-1983	156526			Domestic	1995-12-14	6.40		4.63	7.50	1664	3000	0.3000				1437 m	West
6628-28313	288917	MWB 3		Investigation	2015-10-21	7.50							5.80	5.80		1439 m	South
6628-28345	289025	MW 7		Investigation	2015-10-15	5.50							2.50	2.50		1441 m	South East
6528-2873	303993		Backfilled	Environmental	2017-11-06	5.00										1443 m	North West
6528-2151	175504	GW 2		Monitoring	1998-06-12	5.50		4.94					2.94	2.94	2.00	1445 m	South
6528-3017	336644			Investigation	2020-03-02	4.50										1445 m	North West
6528-2587	234271	BH 10			2007-06-12	17.95		4.24								1448 m	North West
6628-13336	60305				1985-06-05	6.00	3.00		7.30	8343	14399	0.5000	3.00	3.00	0.00	1448 m	South East
6528-2872	303992		Backfilled	Environmental	2017-11-06	4.40										1449 m	North West
6528-785	27913				1983-10-20	1.50		4.43	6.30	2522	4520	0.7500	1.50	1.50	2.93	1449 m	West
6628-28344	289024	MW 6		Investigation	2015-10-15	5.50							3.10	3.10		1451 m	South East
6628-30181	316098			Environmental	2019-04-17	5.50										1451 m	South
6528-2598	234282	BH 30		Investigation	2007-06-12	15.45		4.22								1454 m	North West
6628-30727	336639		Backfilled	Investigation	2020-02-27	4.00										1454 m	North
6528-365	27493	S.A. HARBOR S BRD	Abandoned		1951-06-14	15.85		4.08								1456 m	North West
6628-30914	349206			Environmental	2020-04-14	3.00										1456 m	North East
6528-2977	330266		Backfilled													1457 m	North West
6628-30913	349130			Environmental	2020-04-14	3.00										1458 m	North East
6628-17872	156392			Irrigation	1995-08-15	5.10		3.57	7.50	755	1370		3.10	3.10	0.47	1460 m	East
6628-20859	191228	PAMB 1R		Observation	2002-04-15	5.60		4.97				0.0030	4.15	4.15	0.82	1461 m	South
6528-2590	234274	BH 19		Investigation	2007-06-12	17.95		4.12								1466 m	North West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-30728	336640		Backfilled	Investigation	2020-02-27	4.00										1467 m	North
6528-373	27501	S.A. HARBOR S BRD	Abandoned		1951-05-23	17.98		4.15								1468 m	North West
6528-364	27492	S.A. HARBOR S BRD	Abandoned		1951-05-15	17.68		4.11								1472 m	North West
6628-28346	289026	MW 8		Investigation	2015-10-15	5.50							3.90	3.90		1472 m	South East
6628-8621	55590	EWS 33			1949-11-22	122.53		4.97		1330	2404	17.6800	7.93	7.93	-2.96	1474 m	South
6528-375	27503	S.A. HARBOR S BRD	Abandoned		1955-11-04	22.56		3.83								1475 m	North
6528-2871	303991		Backfilled	Environmental	2017-11-06	4.40										1476 m	North West
6628-31393	357938			Monitoring	2021-07-14	4.00										1478 m	North
6628-30639	334710			Environmental	2020-02-18	4.00										1479 m	North East
6628-4554	51523	SA HARBOR S BOARD	Abandoned		1961-10-13	23.01		3.61								1479 m	North
6528-2969	330222		Backfilled													1482 m	North West
6528-2870	303990		Backfilled	Environmental	2017-11-06	5.00										1485 m	North West
6628-30627	334595			Environmental	2020-02-18	4.00										1486 m	North East
6628-15793	62762		Operational	Industrial	1991-12-19	125.50		4.49	8.00	1425	2574	2.0000	16.30	16.30	-11.81	1488 m	South
6528-2583	228402				2007-01-11	4.00		4.68		2081	3740		2.20	2.20	2.48	1489 m	West
6528-2595	234279	BH 24		Investigation	2007-06-12	17.95		4.17								1491 m	North West
6628-8620	55589	EWS 69			1946-01-22	118.87		4.18		1613	2909	25.2600	4.27	4.27	-0.09	1491 m	South East
6528-367	27495	S.A. HARBOR S BRD	Abandoned		1951-06-21	15.85		4.08								1494 m	North West
6528-2591	234275	BH 20		Investigation	2007-06-12	17.95		4.25								1497 m	North West
6628-30574	333112			Environmental	2020-01-29	4.00										1498 m	North East
6628-8648	55617				1934-09-01			4.52		9380	16098		2.13	2.13	2.39	1498 m	South East
6528-2963	330213		Backfilled													1500 m	North West
6528-3015	336642			Investigation	2020-03-02	4.00										1505 m	North West
6628-30726	336638			Investigation	2020-02-27	4.00										1505 m	North
6528-2589	234273	BH 18			2007-06-12	17.95		4.13								1506 m	North West
6528-894	28022		Operational	Irrigation	1984-03-19	3.60		4.71	6.90	1334	2410	0.6000	2.10	2.10	2.61	1507 m	West
6528-2525	200351			Domestic	2004-02-06	5.80		4.40		4384	7760		2.80	2.80	1.60	1508 m	West
6628-30725	336637		Backfilled	Investigation	2020-02-26	4.00										1508 m	North
6628-4416	51385				1942-06-01	108.36	1.30			2970	5307	0.9100	0.00	0.00	1.30	1508 m	North East
6528-2534	200929			Monitoring	2004-08-06	5.50		4.67				0.0100	2.90	2.90	1.77	1511 m	South West
6528-2596	234280	BH 25			2007-06-12	17.95		4.27								1513 m	North West
6528-3014	336641		Backfilled	Investigation	2020-02-27	4.00										1513 m	North West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6528-366	27494	S.A. HARBOR S BRD	Abandoned		1951-04-27	18.59		4.12								1514 m	North West
6528-719	27847				1983-01-01	6.00		4.48				0.5000				1514 m	West
6628-4555	51524	SA HARBOR S BOARD	Abandoned		1961-10-18	22.86		3.62								1516 m	North
6628-4513	51482		Backfilled	Industrial		103.63		2.95	7.00	3170	5659	17.6800	10.67	10.67	-7.72	1520 m	North East
6528-3013	336636			Investigation	2020-02-26	4.00										1526 m	North
6528-2593	234277	BH 22		Investigation	2007-06-12	17.95		4.24								1530 m	North West
6528-3016	336643			Investigation	2020-03-02	4.00										1531 m	North West
6528-369	27497	S.A. HARBOR S BRD	Abandoned		1951-06-28	16.08		4.10								1531 m	North West
6528-2588	234272	BH 17	Backfilled		2007-06-12	17.95		4.13								1533 m	North West
6528-2763	267228	MW 36		Investigation	2011-06-22	5.00							1.80	1.80		1535 m	South West
6528-2976	330264		Backfilled													1535 m	North West
6628-31395	357940			Monitoring	2021-07-13	5.00										1535 m	North
6628-22256	206463		Backfilled	Investigation	2005-09-12	23.00		3.20								1538 m	North
6628-26886	275627	MW 6		Investigation	2012-08-23	4.50							2.50	2.50		1540 m	South East
6528-2822	288009															1544 m	West
6528-2970	330223		Backfilled													1545 m	North West
6528-2962	330206															1547 m	North West
6528-2978	330267		Backfilled													1549 m	North West
6528-370	27498	S.A. HARBOR S BRD	Abandoned		1951-05-30	18.09		4.09								1554 m	North West
6628-13833	60802				1986-11-18	5.50		3.30	7.80	3535	6293	0.8800	1.80	1.80	1.50	1557 m	East
6528-2746	262314				2010-02-08	7.00				2001	3600	0.6000	2.00	2.00		1559 m	West
6628-4556	51525	SA HARBOR S BOARD	Abandoned		1961-10-24	22.86		3.62								1560 m	North
6528-1944	156141			Domestic	1995-12-28	6.00		4.76	7.30	8782	15100	0.3100				1564 m	West
6528-1614	135653		Abandoned	Domestic	1993-07-02	5.50		4.56	6.60	1518	2740	0.8000				1567 m	West
6628-15914	62883		Operational	Domestic	1992-02-19	13.00		4.69	7.10	17320	28439		5.00	5.00	-0.31	1567 m	South East
6528-2089	173969			Monitoring	1998-11-03	4.00		4.03				0.1000	1.50	1.50	2.53	1568 m	North West
6528-882	28010		Operational	Irrigation	1984-08-01	6.00		4.55	6.80	1216	2200					1569 m	West
6528-3009	335316		Backfilled													1570 m	North West
6628-4527	51496				1915-08-26	135.64		3.27		2978	5321	3.1600	0.00	0.00	3.27	1571 m	North
6528-2090	173970			Monitoring	1998-11-03	4.00		3.99				0.1000	1.50	1.50	2.49	1572 m	North West
6528-2886	306317		Backfilled	Environmental	2017-10-24	4.30										1574 m	North West
6528-368	27496	S.A. HARBOR S BRD	Abandoned		1951-05-02	18.14		4.11								1574 m	North West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6528-2088	173968			Monitoring	1998-11-03	4.00		4.06				0.1000	1.50	1.50	2.56	1576 m	North West
6528-684	27812				1982-12-01	6.00		4.44				0.5000				1576 m	West
6528-870	27998				1984-08-01	6.00		4.53	6.80	2510	4500					1578 m	West
6528-2975	330259		Backfilled													1580 m	North West
6528-2971	330226		Backfilled													1581 m	North West
6528-2091	173971			Monitoring	1998-11-03	4.00		3.98				0.1000	1.50	1.50	2.48	1584 m	North West
6528-2757	266570	MW 29			2011-09-06	8.50							3.02	3.02		1585 m	South
6528-1613	135652			Domestic	1993-05-28	5.50		4.49	6.80	1709	3081	0.8000	1.80	1.80	2.69	1586 m	West
6628-22257	206464		Backfilled	Investigation	2005-09-15	11.00		3.06								1586 m	North
6628-12469	59438		Backfilled		1983-07-27	10.90	4.00		7.50	19474	31600	1.2000	1.80	1.80	2.20	1588 m	South East
6628-30575	333113			Environmental	2020-01-29	4.00										1592 m	North East
6528-2979	330268		Backfilled													1593 m	North West
6528-482	27610	PORT REACH MILES 5	Unknown		1951-07-31	6.10		4.74								1594 m	South West
6628-4538	51507	SA HARBOR S BOARD	Abandoned		1961-10-27	23.77		3.61								1594 m	North
6528-2972	330227		Backfilled													1595 m	North West
6628-18710	167409	RW 2		Investigation	1997-10-01	4.20		3.09								1597 m	North East
6528-2759	266572	MWP 1		Investigation	2011-09-07	10.00										1598 m	South
6628-13114	60083		Operational	Domestic	1984-02-18	6.00	2.00		7.40	799	1450	0.5000	3.00	3.00	-1.00	1601 m	East
6528-885	28013		Operational	Domestic	1984-09-25	5.50		4.64	7.50	1328	2400	0.5000	3.00	3.00	1.64	1602 m	West
6528-1943	156126			Domestic	1996-01-11	5.20		4.55	7.40	2019	3630	0.8000				1603 m	West
6628-22388	210963				2005-10-28	3.50		3.84		2008	3610	0.5000	2.00	2.00	1.84	1604 m	North
6528-341	27469	TRIAL HOLE			1934-09-01			3.98					1.22	1.22	2.76	1606 m	North West
6628-18709	167408	RW 1		Investigation	1997-10-01	4.20		3.10								1606 m	North East
6528-1067	28195		Operational	Domestic	1986-01-01	6.00		4.57	7.10	1440	2600	0.5000	4.00	4.00	0.57	1610 m	West
6628-19883	175506	GW 4		Monitoring	1998-06-12	5.50		4.87					3.78	3.78	1.09	1613 m	South
6628-22253	206460		Backfilled	Investigation	2005-09-07	21.00		3.62								1613 m	North
6628-31883	369442			Investigation	2022-06-17	4.50										1614 m	North East
6628-31884	369443			Investigation	2022-06-16	4.50										1615 m	North East
6528-1307	28435	GH 104	Abandoned	Investigation	1984-03-13	10.50	3.00									1616 m	North West
6528-2254	176747			Domestic	1997-12-14	5.70		4.48		2019	3630	0.7600	1.60	1.60	2.88	1621 m	West
6528-422	27550					2.74	2.00		6.50	1154	2090	0.8800	1.83	1.83	0.17	1621 m	West
6528-2087	173967			Monitoring	1998-11-03	4.00		4.07				0.1000	1.50	1.50	2.57	1623 m	North West
6628-18711	167410	RW 3		Investigation	1997-10-01	4.20		3.09								1624 m	North East

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6528-2885	306297		Backfilled	Environmental	2017-10-24	4.30										1631 m	North West
6628-31878	369435			Investigation	2022-06-14	4.50										1631 m	North East
6628-27109	278494	GW 11	Backfilled													1637 m	South
6628-4517	51486				1956-06-08	18.44		2.85								1637 m	North East
6528-997	28125		Operational	Domestic	1985-04-18	3.60		4.56	7.00	1524	2750	0.6000	2.10	2.10	2.46	1640 m	West
6628-26721	274541	GW 1		Investigation	2012-07-05	5.00							3.00	3.00		1640 m	South
6628-4539	51508	SA HARBOR S BOARD	Abandoned		1961-11-03	22.86		3.60								1644 m	North
6628-31880	369437			Investigation	2022-06-15	4.50										1646 m	North East
6628-27122	278511	GW 2R	Backfilled			7.00										1650 m	South
6628-31882	369441			Investigation	2022-06-16	4.50										1651 m	North East
6528-2538	203254		Backfilled			6.00		4.49								1654 m	West
6628-12845	59814		Operational	Irrigation	1984-03-19	3.60	2.00		7.70	876	1590	0.6000	2.10	2.10	-0.10	1654 m	North
6628-30626	334592			Environmental	2020-02-24	4.00										1654 m	North East
6528-2152	175505	GW 3		Monitoring	1998-06-12	5.50		4.83					3.37	3.37	1.46	1657 m	South
6628-22255	206462		Backfilled	Investigation	2005-09-09	20.00		3.11								1658 m	North
6528-2488	195342			Domestic	2003-02-26	6.50		4.67		1485	2680	0.5000	3.00	3.00	1.67	1659 m	West
6528-2355	177114			Domestic	1998-11-03	6.50		4.72		2081	3740	0.6000	2.50	2.50	2.22	1661 m	West
6528-557	27685				1981-01-01	6.00		4.75	7.20	860	1560	0.5000	3.00	3.00	1.75	1661 m	West
6528-2086	173966			Monitoring	1998-11-03	4.00		4.05				0.1000	1.50	1.50	2.55	1662 m	North West
6628-19081	169821			Monitoring	1998-05-21	6.00		4.73				0.2000	3.00	3.00	1.73	1662 m	South
6628-13309	60278		Operational	Domestic	1985-05-09	6.00	2.00		7.40	916	1660	0.5000	4.00	4.00	-2.00	1665 m	North
6628-30576	333114			Environmental	2020-01-29	4.00										1665 m	North East
6628-31117	354246			Investigation	2020-10-21	6.00										1667 m	East
6528-2524	200348			Domestic	2004-01-06	6.00		4.51		1872	3370	0.5000	2.00	2.00	2.51	1668 m	West
6528-588	27716				1981-03-01	6.00	2.00		7.40	1194	2160	0.5000	3.00	3.00	-1.00	1668 m	West
6628-31007	353474			Investigation	2020-09-21	6.00										1668 m	East
6628-31118	354247			Investigation	2020-10-21	5.00										1668 m	East
6628-19353	173990			Monitoring	1998-11-11	6.00		4.74				0.1000	4.75	4.75	-0.01	1669 m	South
6628-19083	169823			Monitoring	1998-05-21	6.00		4.74				0.2000	3.00	3.00	1.74	1670 m	South
6628-19628	176100			Monitoring	1999-04-27	6.00		4.74				0.1000	2.90	2.90	1.84	1670 m	South
6528-960	28088				1985-01-02	3.60		4.60	6.50	6770	11792	0.7000	2.10	2.10	2.50	1671 m	West
6628-19629	176101			Monitoring	1999-04-27	6.00		4.75				0.1000	2.90	2.90	1.85	1671 m	South
6628-4516	51485				1956-05-30	27.43		2.85								1671 m	North East
6628-19354	173991			Monitoring	1998-11-11	6.00		4.75				0.1000	4.75	4.75	0.00	1672 m	South

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-27121	278510	GW 3R	Backfilled			7.00										1672 m	South
6528-2527	200901			Monitoring		5.50		4.91				0.0100	2.90	2.90	2.01	1673 m	South West
6628-19352	173989			Monitoring	1998-11-11	6.00		4.73				0.1000	4.75	4.75	-0.02	1673 m	South
6628-21570	198497	GW 23		Monitoring	2002-03-05	9.30		4.75								1673 m	South
6528-686	27814				1983-01-01	6.00	1.00					0.5000				1675 m	West
6628-4514	51483	ACF 1	Unknown		1956-05-09	27.43	1.23									1676 m	North East
6528-1637	138397			Domestic	1993-10-23	6.00		4.51	6.90	1653	2980		1.80	1.80	2.71	1678 m	West
6528-2028	163072			Domestic	1996-11-14	6.40		4.68		1519	2740	0.7500	2.40	2.40	2.28	1678 m	West
6628-19356	173993			Monitoring	1998-11-11	6.00		4.76				0.1000	4.75	4.75	0.01	1682 m	South
6628-31586	362832			Environmental	2021-10-07	4.00										1687 m	East
6628-19355	173992			Monitoring	1998-11-11	6.00		4.73				0.1000	4.75	4.75	-0.02	1693 m	South
6628-30580	333118			Environmental	2020-01-30	4.00										1693 m	North East
6628-19351	173988			Monitoring	1998-11-11	6.00		4.68				0.1000	4.75	4.75	-0.07	1694 m	South
6628-26833	274934	MW 12		Investigation	2012-10-30	4.00							1.50	1.50		1694 m	East
6528-2737	247770	GMW 24		Investigation	2009-01-13	4.00							2.00	2.00		1695 m	South West
6628-19082	169822			Monitoring	1998-05-21	6.00		4.69				0.2000	2.90	2.90	1.79	1695 m	South
6628-4540	51509	SA HARBOR S BOARD	Abandoned		1961-11-09	23.16		3.55								1695 m	North
6628-26830	274931	MW 9		Investigation	2012-10-30	4.00							1.50	1.50		1696 m	East
6628-27143	278591	GW 7R	Backfilled			7.00										1698 m	South
6628-8649	55618				1934-09-01			4.72		3817	6784		1.68	1.68	3.04	1698 m	South East
6528-481	27609	PORT REACH 13	Unknown		1960-08-23	2.44	0.10									1701 m	South West
6628-19632	176104			Monitoring	1999-04-27	6.00		4.73				0.1000	2.90	2.90	1.83	1701 m	South
6528-2497	195459		Abandoned	Domestic	2002-10-02	8.00		4.51				0.4375	2.00	2.00	2.51	1702 m	North West
6528-1739	147689		Abandoned	Domestic	1995-03-02	6.00		4.82	6.40	28561	44500	0.5000				1703 m	South West
6628-19080	169820			Monitoring	1998-05-21	6.00		4.70				0.2000	3.20	3.20	1.50	1705 m	South
6628-19358	173995			Monitoring	1998-11-11	6.00		4.72				0.1000	4.75	4.75	-0.03	1705 m	South
6628-31885	369444			Investigation	2022-06-17	4.00										1705 m	North East
6528-2004	161201		Abandoned	Domestic	1996-03-25	8.00		4.46								1707 m	North West
6528-2762	267227	MW 37		Investigation	2011-06-23	5.00							2.30	2.30		1708 m	South West
6628-19963	177795			Monitoring	2000-01-06	4.00		3.82				0.0100	2.10	2.10	1.72	1709 m	East
6628-19359	173996			Monitoring	1998-11-11	6.00		4.73				0.1000	4.75	4.75	-0.02	1710 m	South
6628-19964	177796			Monitoring	2000-01-06	4.00		3.82				0.0100	2.10	2.10	1.72	1711 m	East
6628-27120	278509	GW 6R	Backfilled			7.00										1711 m	South

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-19357	173994			Monitoring	1998-11-11	6.00		4.72				0.1000	4.75	4.75	-0.03	1712 m	South
6628-20857	191218	PAMB 13		Observation	2002-04-15	6.00		4.58				0.0500	3.18	3.18	1.40	1712 m	South
6628-14601	61570	GH 98	Abandoned	Investigation	1984-03-07	10.65	4.00									1713 m	South East
6628-19630	176102			Monitoring	1999-04-27	6.00		4.71				0.1000	2.90	2.90	1.81	1713 m	South
6628-26243	267656	MW 6		Investigation	2011-11-11	4.00							2.58	2.58		1714 m	East
6628-26829	274930	MW 8		Investigation	2012-10-29	4.00							1.50	1.50		1714 m	East
6628-26831	274932	MW 10		Investigation	2012-10-29	4.00							1.50	1.50		1714 m	East
6528-332	27460		Backfilled		1934-09-19	198.12	3.30			4089	7253		1.22	1.22	2.08	1716 m	North West
6628-19631	176103			Monitoring	1999-04-27	6.00		4.71				0.1000	2.90	2.90	1.81	1716 m	South
6628-27144	278592	GW 5R	Backfilled			7.00										1716 m	South
6628-4515	51484				1956-05-16	16.69		2.81								1716 m	North East
6528-2533	200928			Monitoring	2004-08-06	5.50		4.78				0.0100	2.90	2.90	1.88	1717 m	South West
6528-2738	247771	GMW 25		Investigation	2009-01-13	5.00							3.00	3.00		1717 m	South
6628-26242	267655	MW 5		Investigation	2011-11-11	4.00							2.31	2.31		1717 m	East
6528-2755	264998				2010-11-04	7.00				1463	2640	0.7000	3.00	3.00		1719 m	West
6528-1882	152935			Domestic	1995-05-17	6.60		4.77	7.80	1010	1830	0.7500				1721 m	West
6628-26240	267653	MW 3		Investigation	2011-11-11	4.00							2.37	2.37		1721 m	East
6528-555	27683				1981-01-01	6.00	1.00		6.80	1463	2640	0.5000	3.00	3.00	-2.00	1722 m	West
6628-26241	267654	MW 4		Investigation	2011-11-11	4.00							2.30	2.30		1723 m	East
6628-19823	145675			Domestic	1994-10-06	5.10		3.92	7.30	788	1430	0.9000				1725 m	North
6628-26179	267225	MW 40		Investigation	2011-06-27	5.00							3.00	3.00		1727 m	South
6628-26239	267652	MW 2		Investigation	2011-11-10	4.00							2.60	2.60		1727 m	East
6628-31588	362834			Environmental	2021-10-08	4.00										1732 m	East
6528-2528	200902			Monitoring	2004-08-06	5.50		4.71				0.0100	2.90	2.90	1.81	1736 m	South West
6628-26832	274933	MW 11		Investigation	2012-10-29	4.00							1.50	1.50		1737 m	East
6628-4518	51487				1955-01-19	13.11		2.78								1739 m	North East
6628-21538	198301			Domestic	2003-10-21	7.00		4.41		11092	18830	0.6700	2.00	2.00	2.41	1740 m	South East
6628-4519	51488				1955-01-20	12.50		2.77								1740 m	North East
6528-483	27611	PORT REACH 12	Unknown		1960-09-01	4.88	2.94									1742 m	South West
6628-19965	177797			Monitoring	2000-01-06	4.00		3.84				0.0100	2.10	2.10	1.74	1742 m	East
6628-24919	252871	GMW 2			2009-09-04	4.00							3.00	3.00		1743 m	South
6628-31587	362833			Environmental	2021-10-07	4.00										1744 m	East
6528-2449	182997	T1-764		Observation	1994-01-18	8.00	2.85	2.85	7.52	854	1400		2.65	2.65	0.20	1745 m	North
6528-637	27765				1981-06-30	6.00		4.62				0.5000	3.00	3.00	1.62	1745 m	West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-26180	267226	MW 39		Investigation	2011-06-27	5.00							1.80	1.80		1747 m	South
6628-26244	267657	MW 7		Investigation	2011-11-23	4.00							2.32	2.32		1748 m	East
6628-28469	289547	MW 1		Investigation	2016-06-01	6.20							4.50	4.50		1749 m	South East
6628-4541	51510	SA HARBOR S BOARD	Abandoned		1961-11-15	23.50		3.47								1750 m	North
6528-1994	159699			Domestic	1996-05-11	5.30		4.91	8.00	1233	2230	0.5000				1751 m	West
6628-26238	267651	MW 1		Investigation	2011-11-10	4.50							2.70	2.70		1752 m	East
6528-1139	28267		Operational	Domestic		5.50		4.64					4.50	4.50	0.14	1757 m	West
6528-1514	28642		Backfilled	Domestic	1992-01-30	4.30		4.21				0.9000	2.40	2.40	1.81	1757 m	North West
6528-2824	288237		Backfilled													1759 m	North West
6628-22258	206465		Backfilled	Investigation	2005-09-13	21.00		2.82								1759 m	North
6528-2855	291292				2016-10-05	3.80				2307	4140	0.4000	1.60	1.60		1760 m	North West
6628-8650	55619				1934-09-01			4.76		10453	17841		2.13	2.13	2.63	1764 m	South East
6528-1855	149753			Domestic	1994-12-07	5.50		4.66	7.20	4216	7470	0.9500				1765 m	West
6528-2182	175873			Domestic	1997-11-25	5.00		4.23		2081	3740	0.5000	1.50	1.50	2.73	1773 m	North West
6528-1364	28492		Operational	Domestic	1989-11-29	5.70		4.66	6.70	1636	2950		2.20	2.20	2.46	1777 m	West
6528-1748	147766			Domestic	1994-11-07	6.10		4.43	7.00	916	1660	0.9000				1779 m	North West
6628-22254	206461		Backfilled	Investigation	2005-09-08	23.00		3.48								1781 m	North
6528-1379	28507		Operational	Domestic	1990-10-26	7.00		4.09					4.50	4.50	-0.41	1782 m	North
6528-978	28106		Operational	Domestic	1985-03-18	6.00		4.78	7.70	447	812	0.5000	4.00	4.00	0.78	1783 m	West
6628-21862	200896			Monitoring	2004-08-06	5.50		4.66				0.0100	2.90	2.90	1.76	1788 m	South
6528-424	27552		Operational	Irrigation	1976-05-11	4.57	2.00		7.10	1306	2360	0.7600	1.50	1.50	0.50	1791 m	West
6528-425	27553		Operational	Irrigation	1976-06-01	4.57	2.00					0.7600	1.50	1.50	0.50	1791 m	West
6628-4505	51474	SA HARBORS RD	Abandoned		1953-09-14	10.36										1791 m	North
6628-4506	51475	SA HARBORS BD	Abandoned		1953-09-16	11.23										1791 m	North
6628-4507	51476	SA HARBORS BOARD	Abandoned		1953-09-17	10.67										1791 m	North
6628-4508	51477	SA HARBORS BOARD	Abandoned		1953-09-23	11.51										1791 m	North
6628-4509	51478	SA HARBORS BOARD	Abandoned		1953-09-25	11.28										1791 m	North
6628-4510	51479	SA HARBORS BOARD	Abandoned		1953-09-22	11.63										1791 m	North
6628-4511	51480	SA HARBORS BOARD	Abandoned		1953-09-21	11.94										1791 m	North
6628-4512	51481	SA HARBORS BOARD	Abandoned		1953-09-19	10.92										1791 m	North

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6528-1392	28520		Operational	Irrigation	1991-03-23	4.50		4.25					2.00	2.00	2.25	1792 m	North West
6528-423	27551				1972-01-01	3.66	2.00		7.00	1530	2760	0.1900	1.07	1.07	0.93	1792 m	West
6528-879	28007				1984-06-01	6.00		4.12	7.40	1737	3130					1793 m	North West
6628-4542	51511		Abandoned		1961-11-22	23.16		3.43								1793 m	North
6628-30503	331661		Backfilled			4.01										1794 m	North East
6628-13369	60338				1985-07-15	6.00	2.00		7.80	4680	8267	0.5000	3.00	3.00	-1.00	1797 m	East
6528-956	28084		Operational	Domestic	1985-02-20	6.00		4.76	7.40	1021	1850	0.5000	3.00	3.00	1.76	1798 m	West
6528-687	27815				1982-12-01	6.00	2.00					0.5000				1800 m	West
6628-26604	272706	WELL 1	Operational	Managed Aquifer Recharge (incl ASR)	2012-11-30	259.00				2624	4700	30.0000				1801 m	South
6528-484	27612	PORT REACH 11	Unknown		1960-09-01	5.18	3.10									1803 m	South West
6628-8803	55772					8.23		4.29		5405	9504		2.13	2.13	2.16	1804 m	East
6528-1809	149507			Domestic	1995-02-10	4.90		4.18	6.90	1861	3350	0.8000				1805 m	North West
6528-2421	178665			Domestic	2000-01-20	5.00		4.55		688	1250	0.8000	3.00	3.00	1.55	1807 m	North West
6528-2391	178290			Domestic	1999-08-19	5.00		4.17		1732	3120	0.6200	1.80	1.80	2.37	1810 m	North West
6628-27713	284918	MW 2		Investigation	2015-02-27	4.50							1.92	1.92		1810 m	North East
6628-27712	284917	MW 3		Investigation	2015-02-27	4.00							2.14	2.14		1811 m	North East
6628-28771	293048	GW 1	Backfilled	Investigation	2017-04-03	5.00										1811 m	South
6528-854	27982		Operational	Domestic	1984-01-01	6.00		4.93								1812 m	West
6528-587	27715				1981-03-01	6.00	2.00		7.70	547	995	0.5000	3.00	3.00	-1.00	1813 m	West
6628-26305	269277		Operational	Managed Aquifer Recharge (incl ASR)	2012-03-30	258.00				2329	4180	40.0000	7.00	7.00		1817 m	South
6628-14256	61225				1988-08-24	8.50	3.00		7.50	3109	5550	1.7000	1.60	1.60	1.40	1818 m	South East
6628-24917	252869	GMW 3			2009-09-04	4.00							3.00	3.00		1821 m	South
6628-27714	284919	MW 1		Investigation	2015-02-27	4.50							1.88	1.88		1821 m	North East
6628-13053	60022		Operational	Recreational	1984-10-10	3.70		3.87	7.60	921	1670					1825 m	North
6628-30635	334703			Environmental	2020-03-26	4.50										1826 m	North East
6528-1019	28147				1985-08-17	3.60	2.00		7.20	1396	2520	0.6000	2.10	2.10	-0.10	1829 m	North West
6628-26847	274972	WELL 9 (T1)	Operational as required	Irrigation; Managed Aquifer Recharge (incl ASR); Monitoring	2013-06-21	184.00				2364	4240	30.0000	11.80	11.80		1830 m	South
6528-1387	28515		Operational	Domestic	1991-01-01	6.00		4.21	7.25	1845	3320		3.00	3.00	1.21	1834 m	North West
6528-742	27870		Operational	Domestic	1983-03-15	3.90		4.41	7.30	827	1500	0.6000	2.40	2.40	2.01	1834 m	North West
6628-29245	304164			Environmental	2017-12-13	4.00										1834 m	North East

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-26089	266938	MW 5A		Investigation	2011-05-09	8.00							3.50	3.50		1835 m	North
6528-821	27949				1984-05-07	6.00		4.15	7.20	1530	2760	0.5000	3.00	3.00	1.15	1841 m	North West
6528-2530	200910			Monitoring	2004-08-06	5.50		4.66				0.0100	2.90	2.90	1.76	1842 m	South
6628-8623	55592	T2	Backfilled		1978-08-16	210.00		4.52	7.60	1105	2000	15.1600	1.50	1.50	3.02	1843 m	South
6528-2344	177103		Backfilled	Domestic	1998-12-24	5.60		4.23		1244	2250	0.4900	1.80	1.80	2.43	1844 m	North West
6528-889	28017		Operational	Domestic	1984-10-10	6.00		4.66	7.50	702	1274	0.5000	3.00	3.00	1.66	1845 m	West
6528-2910	315169				2019-02-21	4.80						0.5000	2.40	2.40		1846 m	North West
6628-29244	304163			Environmental	2017-12-13	5.00										1846 m	North East
6628-4543	51512	SA HARBOR S BOARD	Abandoned		1961-11-28	22.96		3.50								1847 m	North
6528-2201	175892			Domestic	1999-02-02	4.70		4.26		1362	2460	0.5900	1.30	1.30	2.96	1848 m	North West
6528-2267	176778			Domestic	1999-03-17	5.90		4.96		2364	4240	0.6000	2.20	2.20	2.76	1850 m	West
6628-30637	334705			Environmental	2020-03-27	4.70										1851 m	North East
6628-8622	55591	SZ (T2) 113	Unknown	Irrigation	1970-12-10	212.45	2.00		8.00	1479	2670	11.3700	21.34	21.34	-19.34	1851 m	South
6628-30072	315706			Monitoring	2018-09-03	5.10							1.60	1.60		1852 m	North East
6628-30636	334704			Environmental	2020-03-26	5.00										1852 m	North East
6528-2200	175891			Domestic	1999-01-13	5.10		4.25		1390	2510	0.4800	2.20	2.20	2.05	1854 m	North West
6528-1559	130744			Domestic		6.60		4.14	7.60	1917	3450	0.5600	3.30	3.30	0.84	1855 m	North
6528-2228	176710			Domestic	1998-01-20	4.80		4.25		2132	3830	0.4900	1.80	1.80	2.45	1855 m	North West
6628-23496	238515			Investigation	2007-07-10	9.50		4.64					1.00	1.00	3.64	1858 m	South East
6528-2768	267295	MW 38		Investigation	2011-06-23	5.00							2.00	2.00		1860 m	South West
6528-556	27684				1981-01-01	6.00		4.75	7.30	1038	1880	0.5000	3.00	3.00	1.75	1861 m	West
6628-8652	55621				1934-09-01			4.78		3517	6262		1.68	1.68	3.10	1862 m	South East
6528-1487	28615		Operational	Domestic	1992-01-31	6.00		4.96					4.00	4.00	0.96	1863 m	West
6528-1678	145549			Domestic	1994-08-23	4.80		4.30	6.90	1032	1870	0.1600				1863 m	North West
6628-29252	304199			Environmental	2017-12-13	5.00										1863 m	North East
6628-11517	58486	T2		Monitoring	1980-10-29	220.00	2.90		8.10	1126	2039	12.5000	1.50	1.50	1.40	1866 m	South
6528-2536	200931			Monitoring	2004-08-06	5.50		4.65				0.0100	2.90	2.90	1.75	1867 m	South West
6528-685	27813				1983-01-01	6.00	2.00					0.5000				1868 m	West
6528-875	28003		Backfilled		1984-08-27	6.00		4.91	7.00	42070	60100	0.5000	2.10	2.10	2.81	1868 m	South West
6528-907	28035		Operational	Domestic	1984-10-31	4.20		4.38	7.50	983	1780	0.7000	2.70	2.70	1.68	1868 m	North West
6528-1583	132691			Domestic	1993-03-15	4.80		4.24		1731	3120	0.8900	1.20	1.20	3.04	1874 m	North West
6528-1949	156365			Domestic	1995-12-14	5.20		4.47	8.10	805	1460		3.20	3.20	1.27	1875 m	North West
6628-8651	55620				1934-09-01			4.82		2469	4427		2.29	2.29	2.53	1877 m	South East
6528-418	27546					6.10		4.73	6.00	561	1020		1.83	1.83	2.90	1880 m	West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-11516	58485		Backfilled		1980-10-10	220.00		4.49	7.60	1524	2750					1880 m	South
6628-28773	293050	GW 3		Investigation	2017-04-04	4.50							2.70	2.70		1881 m	South
6528-2417	178564	LF 10		Monitoring	1998-12-15	3.50		4.72								1884 m	North West
6628-12095	59064		Backfilled		1982-12-13	6.00	2.00		7.20	11823	19999	1.0000	2.00	2.00	0.00	1887 m	East
6628-4544	51513	SA HARBOR S BOARD	Abandoned		1961-12-15	23.77		3.53								1890 m	North
6628-4549	51518	SA HARBOR S BOARD	Abandoned		1961-12-20	10.67		3.53								1890 m	North
6528-727	27855				1982-11-01	6.00		4.02				0.5000				1891 m	North
6628-31966	371074	MO-09 COOKE RESERVE				4.80							1.76	1.76		1891 m	South
6628-26483	271047	NGW 1		Investigation	2012-09-26	4.10							2.50	2.50		1892 m	North
6528-2000	159988			Domestic	1996-04-24	5.20		4.29	8.00	1233	2230	0.4000				1893 m	North West
6528-2416	178563	LF 9		Monitoring	1998-11-06	3.50		4.73					1.05	1.05	3.68	1896 m	North West
6628-30577	333115			Environmental	2020-01-29	4.00										1898 m	North East
6528-2418	178565	LF 11		Monitoring	1998-12-15	3.50		4.74								1899 m	North West
6528-338	27466	LEFEVRE HS 3	Unknown		1959-06-17	9.42		4.73								1900 m	West
6528-337	27465	LEFEVRE HS 1	Unknown		1959-06-11	18.59		4.74								1901 m	West
6628-15420	62389		Operational	Domestic	1991-01-10	9.00		4.83	7.80	13671	22879		4.00	4.00	0.83	1901 m	South East
6528-552	27680							4.75								1902 m	West
6528-339	27467	LEFEVRE HS 5	Unknown		1959-06-05	18.29		4.74								1905 m	North West
6528-544	27672		Operational	Domestic	1979-06-01	4.00		4.70	7.80	602	1095	1.0000	2.00	2.00	2.70	1908 m	West
6528-1883	152936			Domestic	1995-09-20	6.40		4.75	7.50	1049	1900	0.8600				1911 m	West
6528-1907	153414			Domestic	1995-11-25	6.50		4.88	7.50	1714	3090	0.7500				1911 m	West
6528-2203	175894			Domestic	1999-03-09	5.10		4.31		1524	2750	0.5700	1.80	1.80	2.51	1911 m	North West
6528-1919	155069			Domestic	1995-12-27	7.00		4.75	6.90	1116	2020	0.8000				1914 m	West
6628-4501	51470		Abandoned		1927-01-11	24.08		3.35								1915 m	North
6628-28772	293049	GW 2		Investigation	2017-04-04	5.00							3.00	3.00		1918 m	South
6528-2415	178562	LF 8		Monitoring	1998-11-06	3.50		4.77					1.00	1.00	3.77	1919 m	West
6528-1473	28601		Operational	Domestic	1991-10-18	5.00		4.47	7.50	1015	1838		3.50	3.50	0.97	1920 m	North West
6528-2531	200911			Monitoring	2004-08-06	5.50		4.55				0.0100	2.90	2.90	1.65	1925 m	South
6528-774	27902					4.70		4.22	8.20	2030	3650	0.4400				1926 m	North West
6628-26843	274968	WELL 3 (T2)	Operational	Managed Aquifer Recharge (incl ASR)		258.00				2596	4650	30.0000	7.00	7.00		1927 m	South
6528-1984	156527			Domestic	1995-12-16	6.70		4.79	7.60	1255	2270	0.9000				1928 m	West

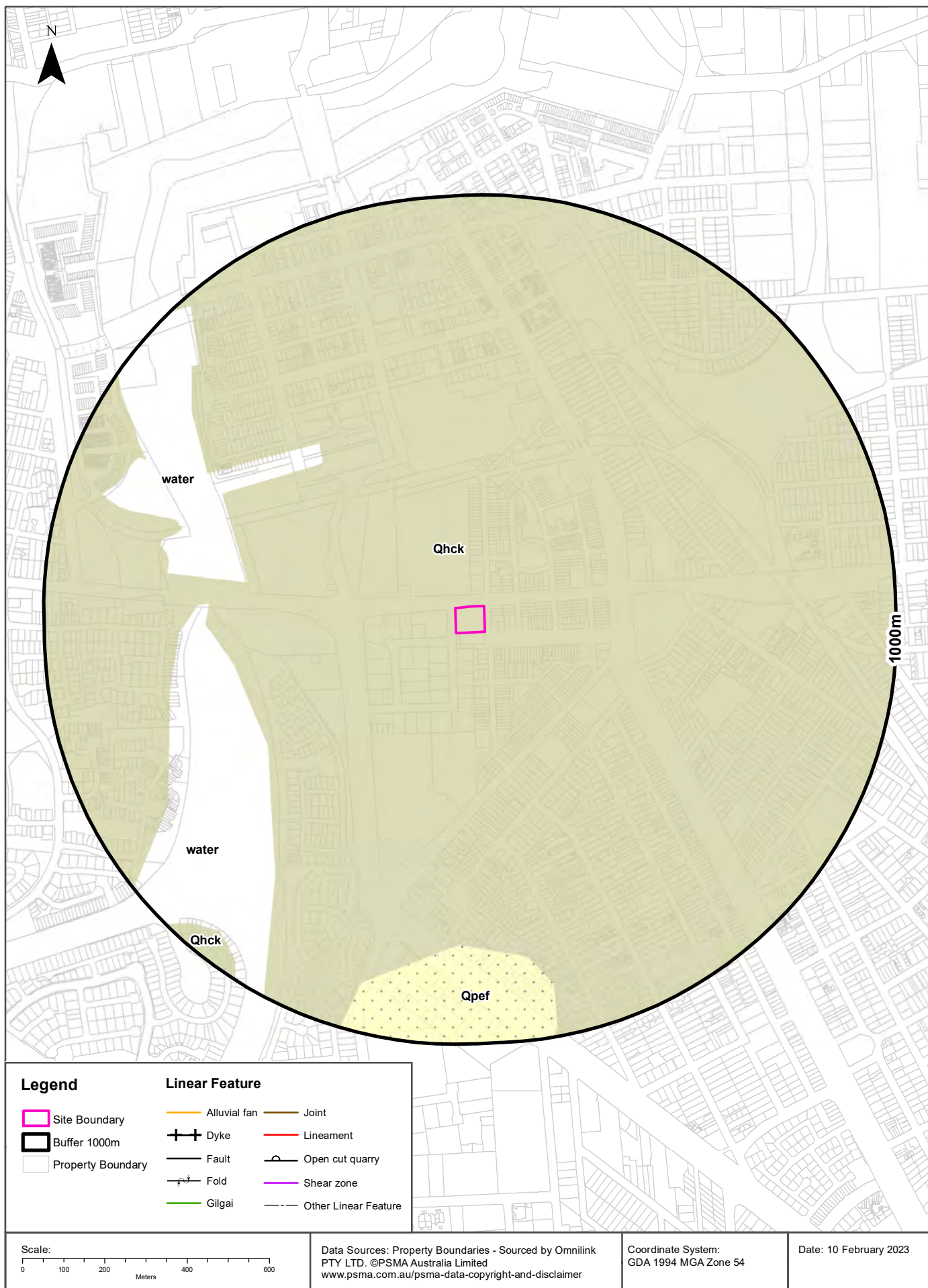
Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-4545	51514	SA HARBOR S BOARD	Unknown		1961-12-04	23.16	2.66									1930 m	North
6528-1941	156124			Domestic	1996-01-04	6.50		4.78	7.60	1216	2200	0.8000				1933 m	West
6628-28201	288565	MW 4		Investigation	2015-06-18	5.50							3.10	3.10		1934 m	South
6528-3032	353538			Monitoring	2020-12-17	2.50										1940 m	North West
6528-2661	240260				2007-04-12	6.00		4.97		3742	6650	0.3000	3.00	3.00	1.97	1941 m	South West
6528-1549	28677		Operational	Domestic	1992-05-30	4.00		5.00	7.80	999	1809		4.00	4.00	1.00	1942 m	West
6628-28199	288563	MW 2		Investigation	2015-06-17	5.50							3.20	3.20		1942 m	South
6528-1906	153413			Domestic	1995-11-21	6.00		4.78	7.80	1463	2640	0.7500				1943 m	West
6528-877	28005		Operational	Domestic	1984-09-01	6.00		4.34	7.70	1040	1884					1944 m	North West
6628-27379	280426	DW 12		Investigation	2014-03-27	4.50										1944 m	North
6528-603	27731				1981-01-01	6.00	2.00					0.5000	3.00	3.00	-1.00	1946 m	West
6628-30074	315708			Monitoring	2018-09-27	4.20							1.70	1.70		1950 m	North East
6628-18904	168518			Drainage	1998-02-21	24.00		4.57		18364	30000	0.5000	5.00	5.00	-0.43	1951 m	South East
6528-2453	184732		Abandoned	Domestic	2001-02-23	4.50		4.61		27042	42400	0.5000	2.10	2.10	2.51	1953 m	South West
6628-20100	178734			Industrial	2000-03-02	121.00		4.50	7.80	1090	1890	1.5000	20.60	20.60	-16.10	1953 m	South East
6528-3031	353537			Monitoring	2020-12-17	2.50										1958 m	North West
6628-26844	274969	WELL 4 (T2)	Operational	Managed Aquifer Recharge (incl ASR)	2013-03-01	258.00				2688	4810	30.0000	7.50	7.50		1961 m	South
6628-28200	288564	MW 3		Investigation	2015-06-17	5.50							3.00	3.00		1969 m	South
6528-2263	176769			Domestic	1999-03-02	6.60		4.80		1519	2740	0.8100	2.80	2.80	2.00	1974 m	West
6628-30629	334598			Environmental	2020-02-18	4.00										1975 m	North East
6628-30458	330190		Dry	Investigation	2019-07-09	5.50										1978 m	South East
6528-2336	177095			Domestic	1998-08-08	6.20		4.63		589	1070	0.7100	2.90	2.90	1.73	1979 m	North West
6528-331	27459					6.71		4.61		1385	2502					1980 m	North West
6628-26359	269869		Backfilled		2012-05-09	18.50										1981 m	North
6628-8805	55774					4.27		5.28	7.00	3245	5789					1982 m	South East
6528-2225	176707			Domestic	1997-11-08	6.60		4.66		2069	3720	0.7200	2.80	2.80	1.86	1986 m	North West
6628-29584	307620			Investigation	2018-06-14	5.50										1986 m	South East
6528-2016	163060			Irrigation	1996-09-17	5.80		4.37		972	1760	0.1000	1.50	1.50	2.87	1987 m	North West
6628-4546	51515	SA HARBOR S BOARD	Abandoned		1961-12-08	22.86		3.61								1990 m	North
6528-1098	28226				1986-05-18	5.80		4.64	7.60	888	1610	0.9000	4.50	4.50	0.14	1991 m	North West
6528-1667	142062		Backfilled	Domestic	1994-02-23	6.30		4.50	7.60	896	1623	0.8000				1992 m	North West
6528-3085	369130			Domestic		5.00						0.4000				1992 m	North West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6528-1638	138398			Irrigation	1993-09-22	6.60		5.01	7.30	1300	2350	0.9000				1993 m	West
6528-1677	145548			Domestic	1994-08-18	5.10		4.73	7.00	2364	4240	0.3400				1994 m	North West

Drillholes Data Source: Dept of Environment, Water and Natural Resources - South Australia  
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# Geology 1:100,000

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



# Geology

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## Surface Geology 1:100,000

Surface Geology Units within the dataset buffer:

Map Unit Code	Name	Description	Parent Name	Province	Age	Min Age	Max Age	Dist	Dir
Qhck	Saint Kilda Formation	Coastal marine sediment: calcareous, fossiliferous sand and mud of iintertidal sand flats, beaches and tidal marshes; organic, gypseous clay of supratidal flats.	Unnamed GIS Unit - see description	ST VINCENT BASIN	HOLOCENE	Holocene	Holocene	0m	On-site
water								479m	North West
Qpef	Fulham Sand	Sand, yellow-red, ferruginous, aeolian.	Unnamed GIS Unit - see description	ST VINCENT BASIN	PLEISTOCENE	Pleistocene, Late	Pleistocene, Late	758m	South

Geology Data Source: Dept of Environment, Water and Natural Resources - South Australia  
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## Linear Structures 1:100,000

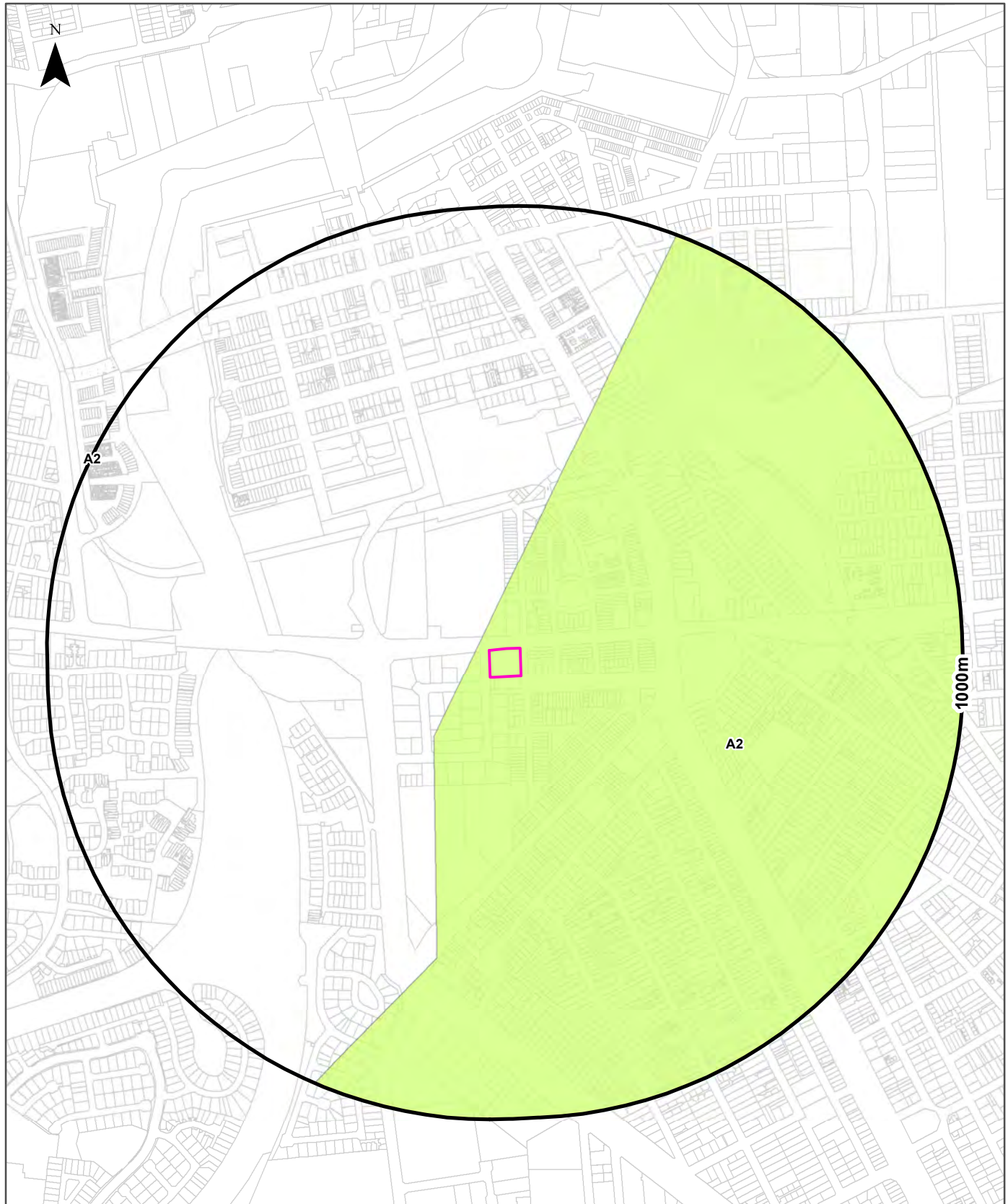
Linear geological structures within the dataset buffer:

Map Code	Description	Distance	Direction
N/A	No records in buffer		

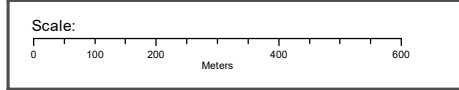
Geology Data Source: Dept of Environment, Water and Natural Resources - South Australia  
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# Atlas of Australian Soils

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



Legend		Australian Soil Classification Orders					
Site Boundary	Anthroposol	Dermosol	Kandosol	Podosol	Tenosol	No Data	
Buffer 1000m	Calcarosol	Ferrosol	Kurosol	Rudosol	Vertosol		
Property Boundary	Chromosol	Hydrosol	Organosol	Sodosol	Lake		



Data Sources: Property Boundaries - Sourced by Omnilink PTY LTD. ©PSMA Australia Limited  
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Coordinate System:  
GDA 1994 MGA Zone 54

Date: 10 February 2023

# Soils

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## Atlas of Australian Soils

Soil mapping units and Australian Soil Classification orders within the dataset buffer:

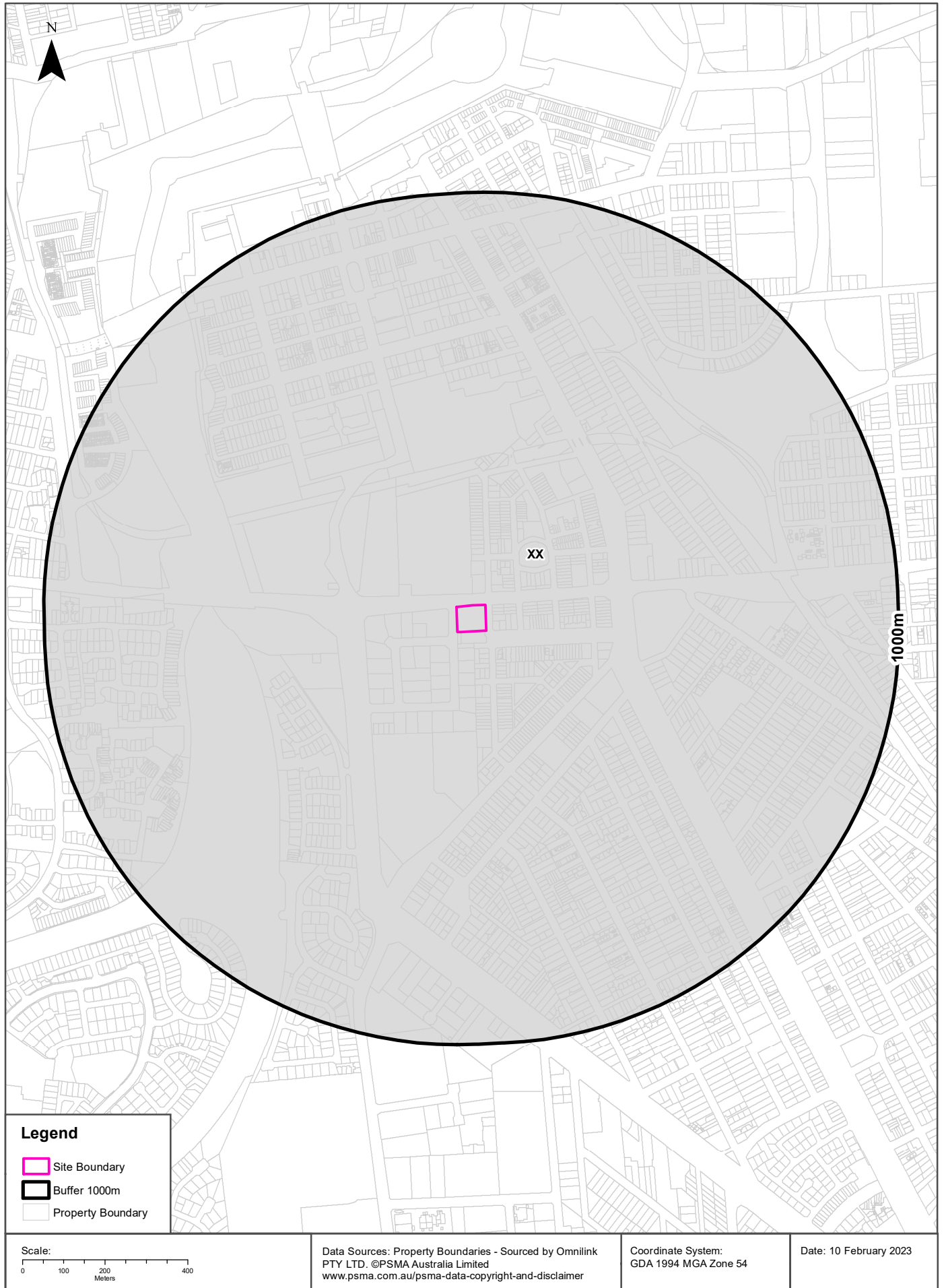
Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
A2	Rudosol	Coastal dunes and plains with some swamps: dunes of calcareous sands (Uc1.11) and also siliceous sands (Uc1.22); plains of various saline soils (unclassified) and lesser areas of brown calcareous earths (Gc1.1 and Gc1.2).	0m	On-site

Atlas of Australian Soils Data Source: CSIRO

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# Soil Types

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



## Soils

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

### Soil Types

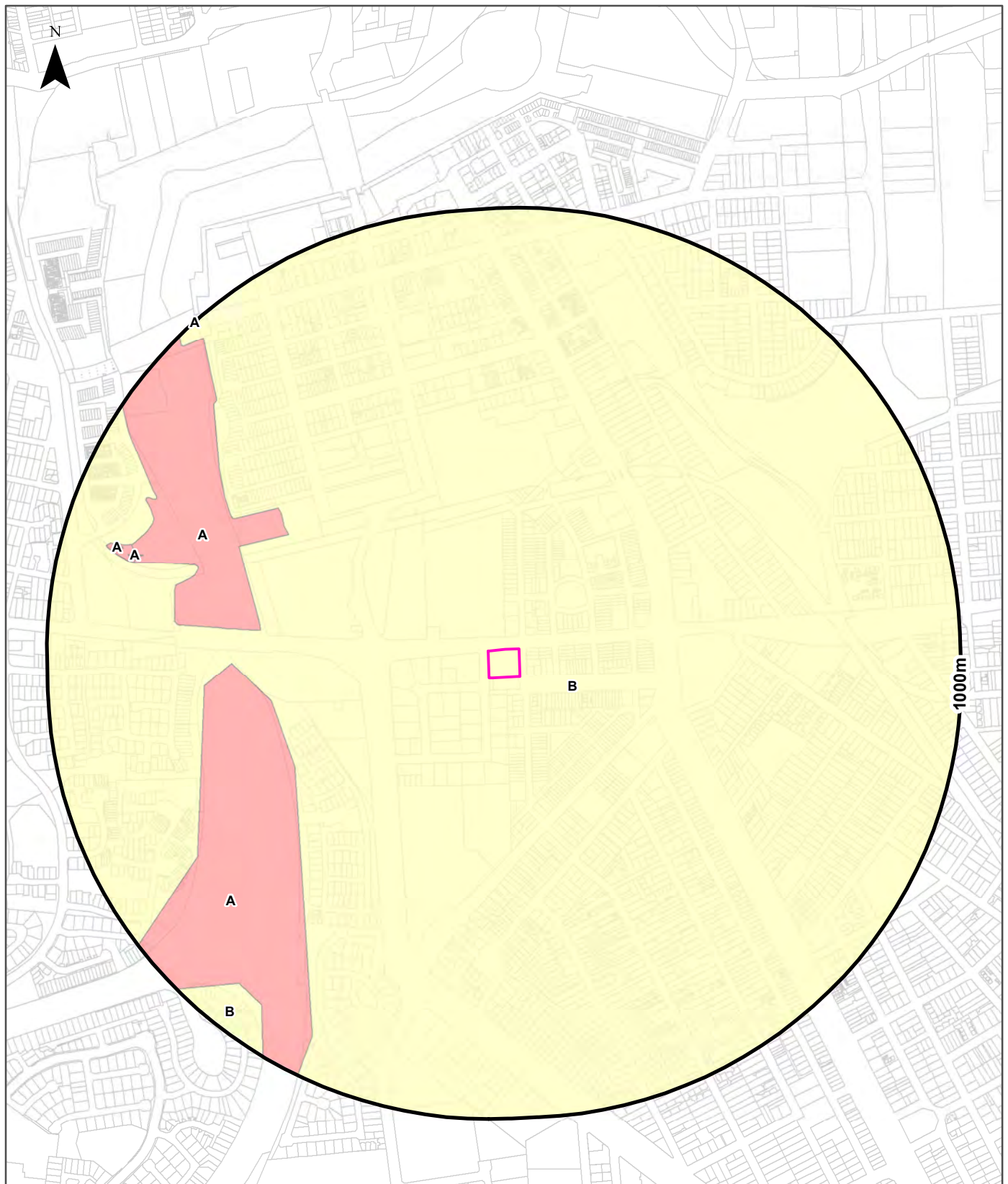
Soil types within the dataset buffer:

Map category code	Soil type description	Distance	Direction
XX	Not applicable - No assessment/analysis undertaken	0m	On-site

Soil Types Data Source: Dept of Environment, Water and Natural Resources - South Australia  
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# Atlas of Australian Acid Sulfate Soils

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



## Legend

Site Boundary

Buffer 1000m

Property Boundary

### Probability of occurrence of Acid Sulfate Soils

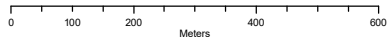
A. High (>70%)

B. Low (6-70%)

C. Extremely Low (1-5%)

D. No Chance (0%)

Scale:



Data Sources: Property Boundaries - Sourced by Omnilink  
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Coordinate System:  
GDA 1994 MGA Zone 54

Date: 10 February 2023

## Acid Sulfate Soils

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

### Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

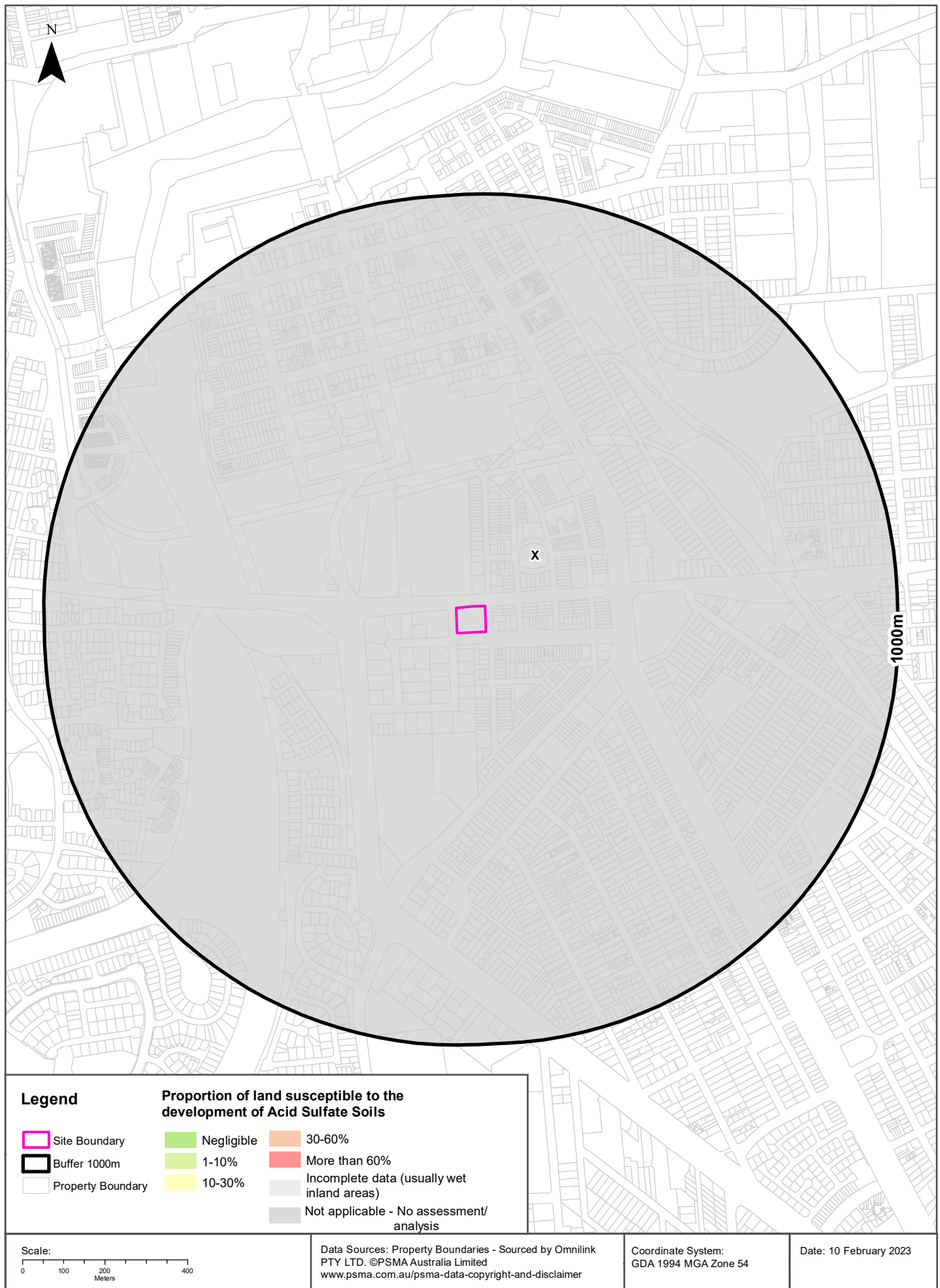
Class	Description	Distance	Direction
B	Low Probability of occurrence. 6-70% chance of occurrence.	0m	On-site
A	High Probability of occurrence. >70% chance of occurrence.	483m	South West

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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# Acid Sulfate Soils Potential

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



## Acid Sulfate Soils

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

### Acid Sulfate Soil Potential

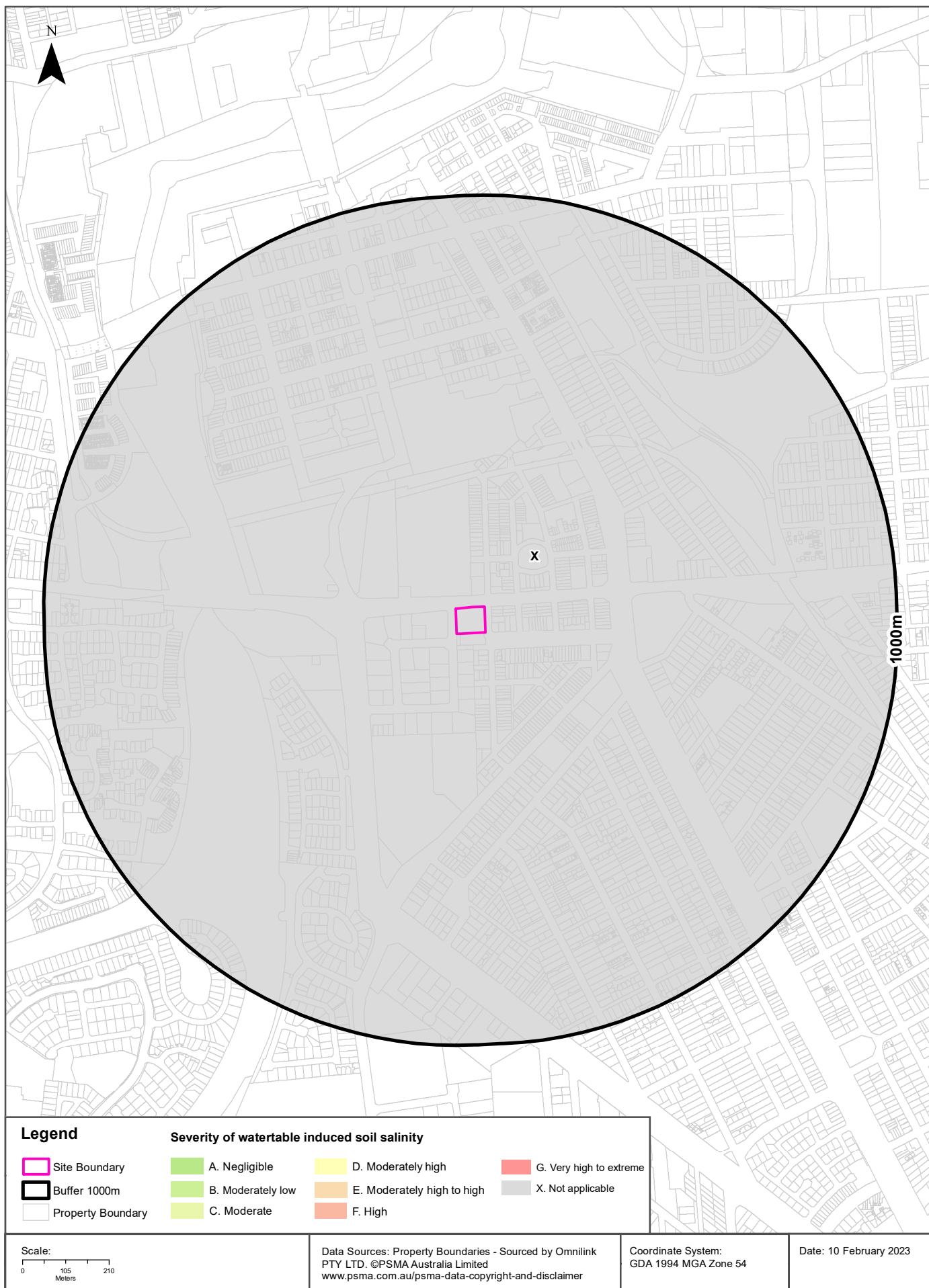
Acid sulfate soil potential within the dataset buffer:

Map category code	Proportion of land susceptible to the development of acid sulfate soils	Distance	Direction
X	Not applicable - No assessment/analysis undertaken	0m	On-site

Acid Sulfate Soils Data Source: Dept of Environment, Water and Natural Resources - South Australia  
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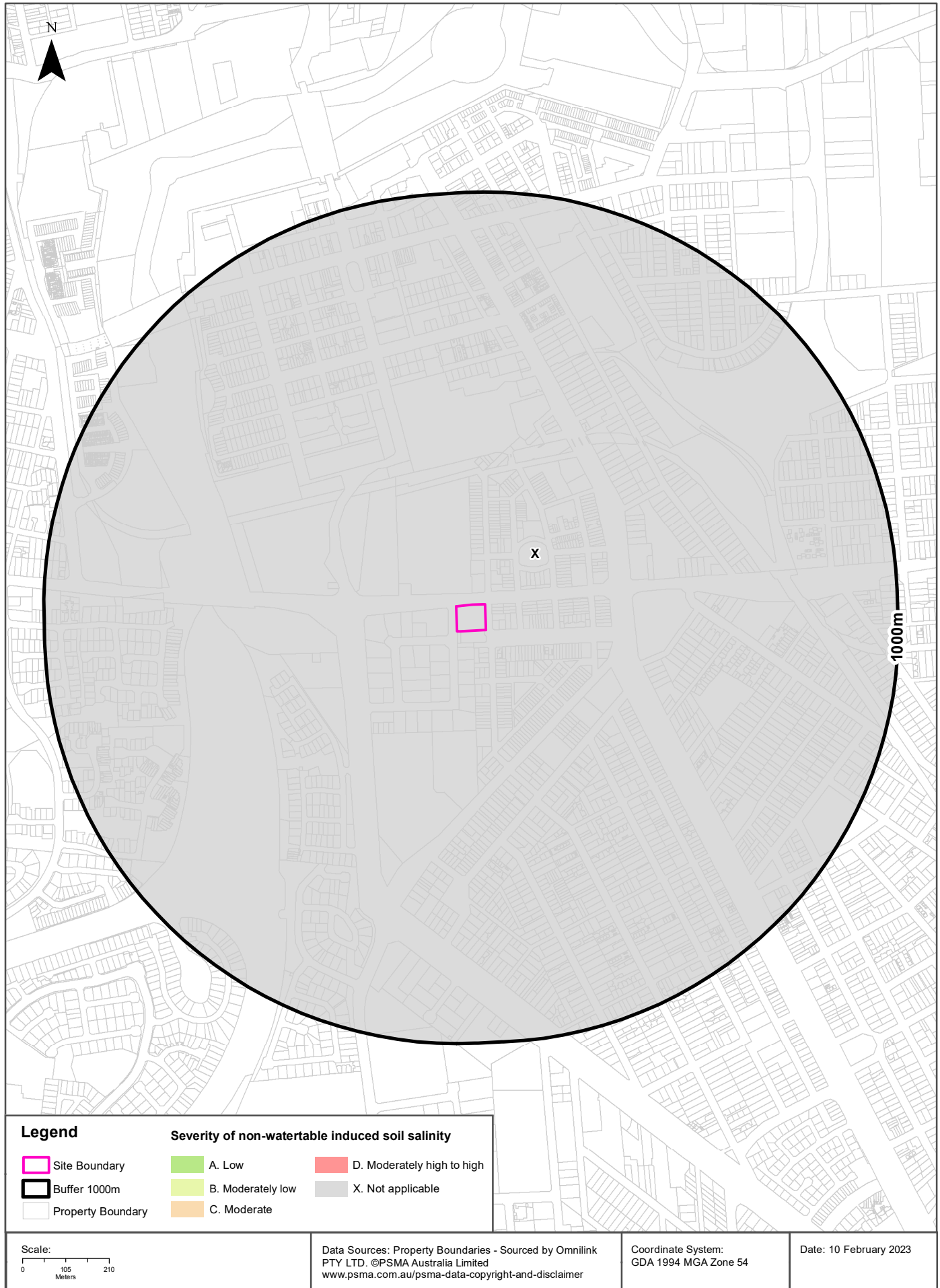
# Soil Salinity - Watertable Induced

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



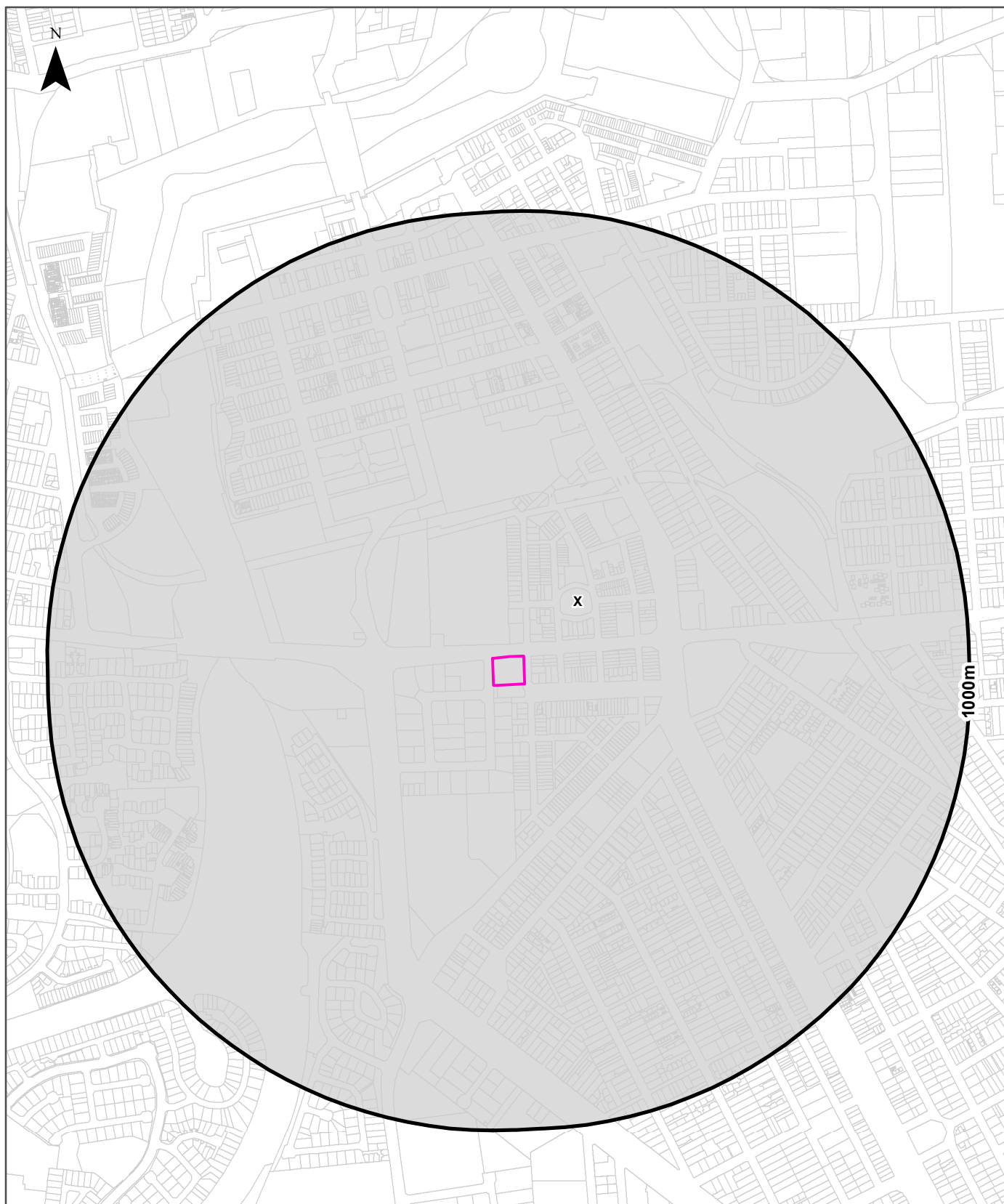
# Soil Salinity - Non-watertable

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



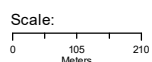
# Soil Salinity - Non-watertable (Magnesia Patches)

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



## Legend

- |                   |  |           |                   |
|-------------------|--|-----------|-------------------|
| Site Boundary     | <b>Proportion of land affected by magnesia patches</b> |           |                   |
| Buffer 1000m      | A. Negligible  | C. 2-10%  | E. More than 50%  |
| Property Boundary | B. Up to 2%  | D. 10-50% | X. Not applicable |



Data Sources: Property Boundaries - Sourced by Omnilink  
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Coordinate System:  
GDA 1994 MGA Zone 54

Date: 10 February 2023

## Soil Salinity

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

### Soil Salinity - Watertable Induced

Watertable induced soil salinity within the dataset buffer:

Map category code	Severity description	Distance	Direction
X	Not applicable - No assessment/analysis undertaken	0m	On-site

Salinity Watertable Induced Data Source: Dept of Environment, Water and Natural Resources - South Australia  
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### Soil Salinity - Non-Watertable

Non-watertable soil salinity within the dataset buffer:

Map category code	Severity description	Surface ECe (dS/m)	Subsoil ECe (dS/m)	Distance	Direction
X	Not applicable - No assessment/analysis undertaken			0m	On-site

Salinity Non-Watertable Data Source: Dept of Environment, Water and Natural Resources - South Australia  
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### Soil Salinity - Non-Watertable (Magnesia Patches)

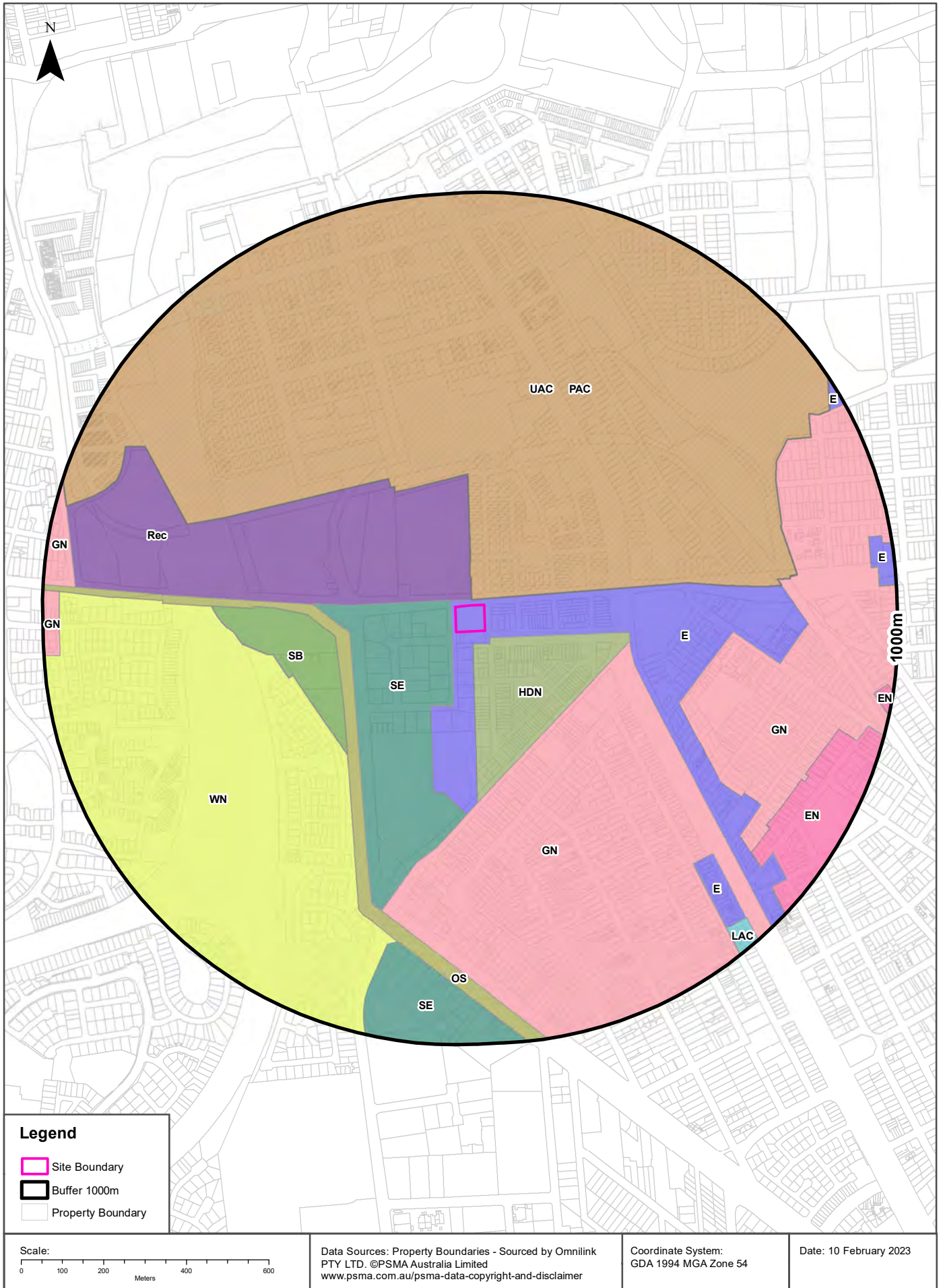
Magnesia patches within the dataset buffer:

Map category code	Proportion of land affected by magnesia patches	Distance	Direction
X	Not applicable - No assessment/analysis undertaken	0m	On-site

Salinity Non-Watertable (Magnesia Patches) Data Source: Dept of Environment, Water and Natural Resources - South Australia  
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# Planning and Design Code Zones

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



# Planning

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## Planning and Design Code - Zones

Planning and Design Code zones within the dataset buffer:

Map Id	Zone Code	Zone Name	Legal Start Date	Status	Distance	Direction
E	Z1501	Employment	19/03/2021	0	0m	On-site
SE	Z5720	Strategic Employment	19/03/2021	0	11m	South West
Rec	Z5401	Recreation	19/03/2021	0	15m	West
UAC	Z6301	Urban Activity Centre	19/03/2021	0	15m	North
HDN	Z2404	Housing Diversity Neighbourhood	19/03/2021	0	21m	South East
OS	Z4501	Open Space	19/03/2021	0	258m	South West
GN	Z2102	General Neighbourhood	19/03/2021	0	272m	South East
SB	Z5719	Suburban Business	19/03/2021	0	292m	West
WN	Z6902	Waterfront Neighbourhood	19/03/2021	0	387m	South West
GN	Z2102	General Neighbourhood	19/03/2021	0	500m	East
E	Z1501	Employment	19/03/2021	0	755m	South East
SE	Z5720	Strategic Employment	19/03/2021	0	763m	South
EN	Z1506	Established Neighbourhood	19/03/2021	0	826m	South East
GN	Z2102	General Neighbourhood	19/03/2021	0	922m	West
LAC	Z3603	Local Activity Centre	19/03/2021	0	926m	South East
E	Z1501	Employment	19/03/2021	0	941m	East
E	Z1501	Employment	19/03/2021	0	960m	North East

Planning and Design Code Zones Data Source: Attorney-General's Department - South Australia  
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## Planning and Design Code - Subzones

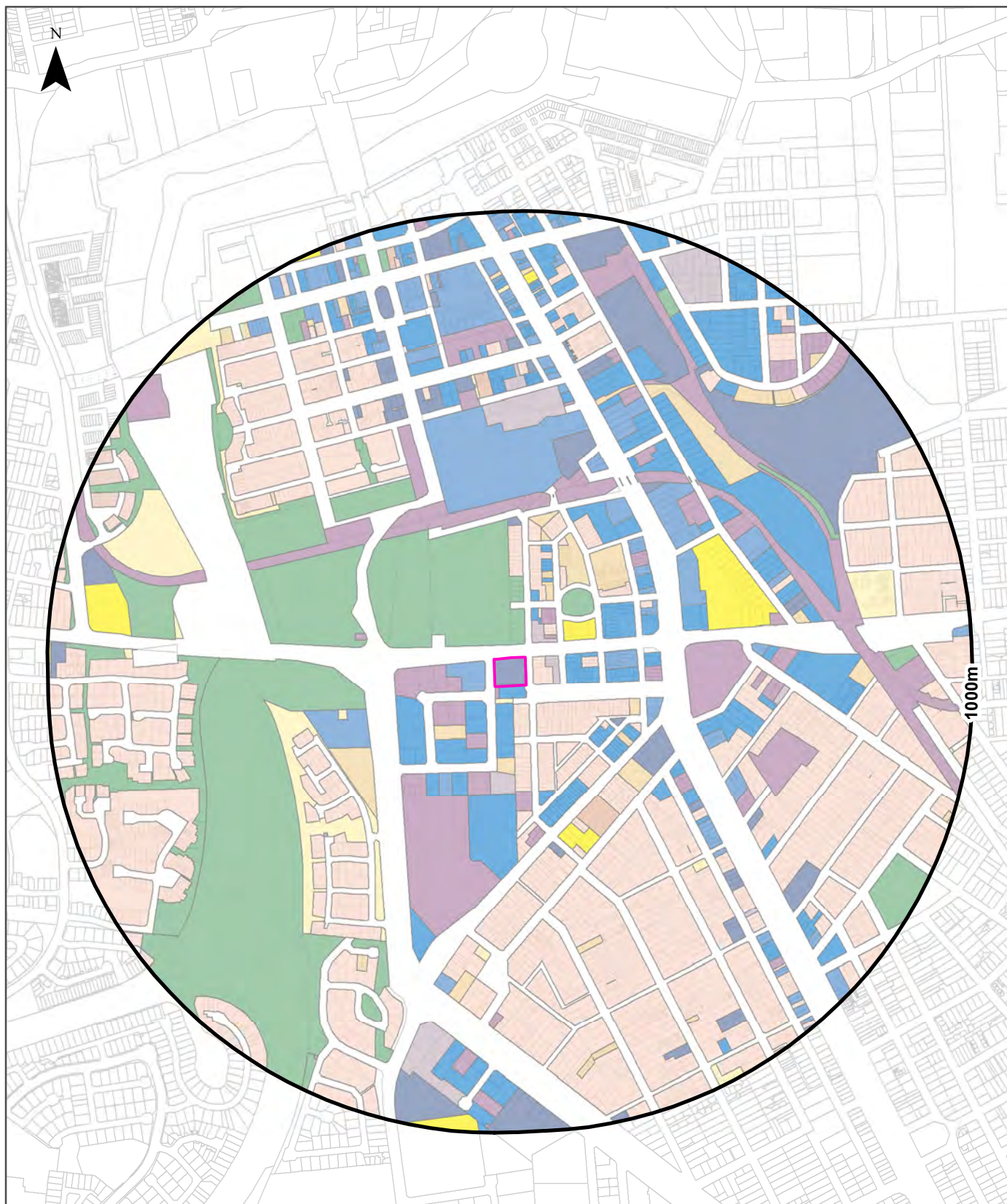
Planning and Design Code subzones within the dataset buffer:

Map Id	Subzone Code	Subzone Name	Legal Start Date	Status	Distance	Direction
PAC	S4801	Port Adelaide Centre	19/03/2021	0	15m	North

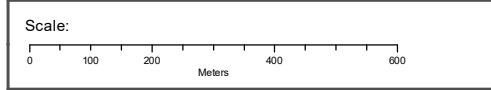
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# Land Use Generalised

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



Legend					
	No Description		Forestry		Retail Commercial
	Site Boundary		Golf		Public Institution
	Buffer 1000m		Education		Utilities or Industry
	Property Boundary		Vacant		Residential
	Agriculture		Recreation		Vacant Urban Land
	Commercial		Reserves		
	Horticulture		Reserves		
	Livestock		Reserves		
	Mining or Quarrying		Reserves		



Data Sources: Property Boundaries - Sourced by Omnilink PTY LTD. ©PSMA Australia Limited  
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Coordinate System: GDA 1994 MGA Zone 54

Date: 10 February 2023

# Planning

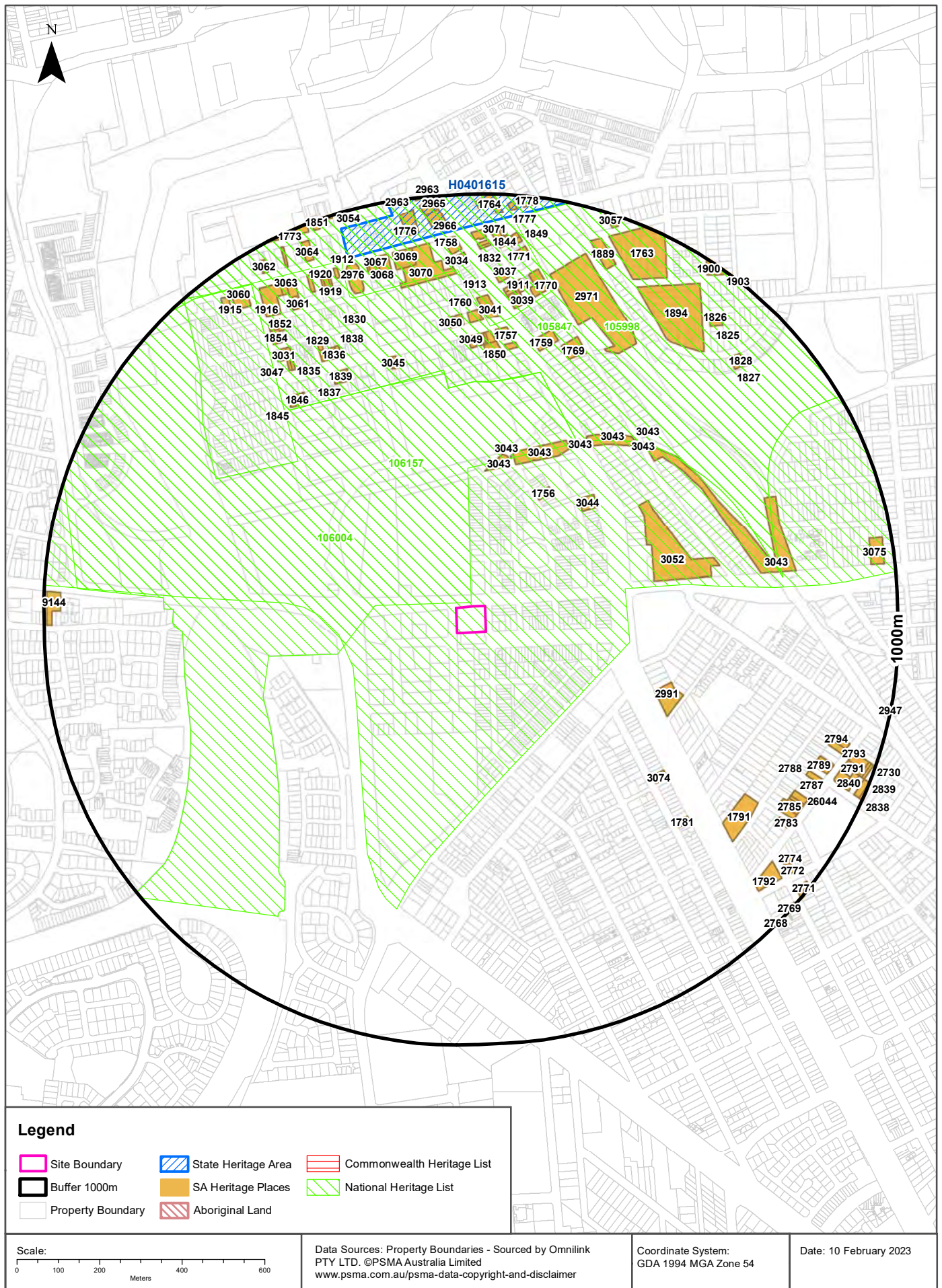
Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## Land Use Generalised

Land use classes within the dataset buffer:

Description	Distance	Direction
Public Institution	0m	On-site
Commercial	0m	South
Utilities or Industry	0m	South West
Residential	15m	East
Retail Commercial	21m	West
Vacant	29m	South
Recreation	30m	North West
Food Industry	36m	North East
Education	94m	North East
Vacant Urban Land	109m	South West
Reserves	289m	West
Non Private Residential	292m	South East

Land Use Generalised Data Source: Dept of Planning, Transport and Infrastructure - South Australia  
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## Heritage

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

### Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch  
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### National Heritage List

What are the National Heritage List Items located within the dataset buffer?

Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
<a href="#">106157</a>	Port Adelaide and Gawler Reach	Semaphore Rd, Port Adelaide SA	3/02/021/0049	Historic	Nomination now ineligible for PPAL		0m	On-site
<a href="#">106004</a>	Port Adelaide, Port Adelaide River, Waterfront, and Adelaide Dolphin Sanctuary	St Vincent St, Port Adelaide SA	3/02/021/0048	Historic	Nomination now ineligible for PPAL		10m	North West
<a href="#">105847</a>	Port Adelaide Heritage Area	St Vincent St, Port Adelaide SA	3/02/021/0047	Historic	Place rejected for Emergency Listing		456m	North
<a href="#">105998</a>	Port Adelaide	St Vincent St, Port Adelaide SA	3/02/021/0047	Historic	Nomination now ineligible for PPAL		456m	North

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch  
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### State Heritage Areas

State Heritage Areas within the dataset buffer:

Heritage Id	Name	Distance	Direction
H0401615	Port Adelaide	888m	North

Heritage Areas Data Source: Dept of Environment, Water and Natural Resources - South Australia  
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### SA Heritage Places

SA Heritage Places within the dataset buffer:

Heritage No	Location	Heritage Class	Australian Class	Details	Auth Date	Distance	Direction
1756	60-62 College Street PORT ADELAIDE	State	Business: Commercial/Retail	Former De Souza Bakery		289m	North East
3043	Commercial Road PORT ADELAIDE	Local	Bridge	Railway Bridge & Viaduct	4/05/2000	327m	North

Heritage No	Location	Heritage Class	Australian Class	Details	Auth Date	Distance	Direction
3044	286 Commercial Road PORT ADELAIDE	Local	Hotel - Motel - Inn	Portland Hotel	4/05/2000	330m	North East
3052	1-29 Lipson Street PORT ADELAIDE	Local	Primary School	Former Port Adelaide Public School	4/05/2000	414m	East
2991	234 Port Road ALBERTON	Local	Religious Building	Alberton Baptist Church & Halls	4/05/2000	431m	East
3074	215-221 Port Road QUEENSTOWN	Local	Hotel - Motel - Inn	Prince of Wales Hotel	4/05/2000	534m	South East
3045	56 Dale Street PORT ADELAIDE	Local	Medical Centre - Clinic - Surgery	Women's Health Centre (former two storey house)	4/05/2000	601m	North
1850	60 Marryatt Street PORT ADELAIDE	Local	Medical Centre - Clinic - Surgery	Port Adelaide Medical Centre (including 1856 Presbyterian Church)	4/05/2000	607m	North
3048	42 Dale Street PORT ADELAIDE	Local	House	House	4/05/2000	612m	North West
1839	40 Dale Street PORT ADELAIDE	Local	House	House	4/05/2000	614m	North West
1848	7 Leadenhall Street PORT ADELAIDE	Local	House	Semi-detached house	4/05/2000	616m	North West
1837	38 Dale Street PORT ADELAIDE	Local	House	House	4/05/2000	617m	North West
1847	5 Leadenhall Street PORT ADELAIDE	Local	House	Semi-detached house	4/05/2000	618m	North West
1846	3 Leadenhall Street PORT ADELAIDE	Local	House	House	4/05/2000	621m	North West
3042	158-162 Commercial Road PORT ADELAIDE	Local	Hotel - Motel - Inn	Two storey row shops	4/05/2000	622m	North
3049	84 Dale Street PORT ADELAIDE	Local	Business: Commercial/Retail	Printers (former Salvation Army Hall)	4/05/2000	626m	North
1845	1 Leadenhall Street PORT ADELAIDE	Local	House	House	4/05/2000	627m	North West
1759	169 Commercial Road PORT ADELAIDE	State	Religious Building	Port Adelaide Uniting (former Congregational) Church		631m	North
1769	67 Lipson Street PORT ADELAIDE	State	Factory	Factory (former BALM Paints Duco Plant)		631m	North
1840	88 Dale Street PORT ADELAIDE	Local	House	Two storey house	4/05/2000	631m	North
1841	90 Dale Street PORT ADELAIDE	Local	House	Two storey semi-detached house	4/05/2000	633m	North
1842	92 Dale Street PORT ADELAIDE	Local	House	Two storey semi-detached house	4/05/2000	637m	North
1843	94 Dale Street PORT ADELAIDE	Local	Hall	Legacy Hall (former IOOF Hall, including two storey stone building off Marryatt St.)	4/05/2000	637m	North
1757	142-150 Commercial Road PORT ADELAIDE	State	Civic/Community Centre	Port Adelaide Masonic Centre		646m	North
1781	193-195 Port Road QUEENSTOWN	State	Religious Building	Queenstown Church of Christ (former Whittaker Memorial Primitive Methodist Church)		651m	South East
1838	39 Dale Street PORT ADELAIDE	Local	House	House	4/05/2000	670m	North West

Heritage No	Location	Heritage Class	Australian Class	Details	Auth Date	Distance	Direction
1836	37 Dale Street PORT ADELAIDE	Local	House	House	4/05/2000	672m	North West
1835	35 Dale Street PORT ADELAIDE	Local	Business: Commercial/Retail	Shop and dwelling	4/05/2000	677m	North West
3050	85 Dale Street PORT ADELAIDE	Local	House	Two storey semi-detached houses	4/05/2000	678m	North
20944	85A Dale Street PORT ADELAIDE	Local	House	Two storey semi-detached house	4/05/2000	679m	North
3051	87 Dale Street PORT ADELAIDE	Local	House	Two storey house	4/05/2000	681m	North
2971	Lipson Street PORT ADELAIDE	State	Museum	National Railway Museum (former Port Adelaide Railway Goods Shed (c.1875) only)		683m	North
1760	95 Dale Street PORT ADELAIDE	State	Religious Building	St Mary's Catholic Church & Hall		687m	North
3041	118-134 Commercial Road (1 Cannon Street & 29 Marryatt Street) PORT ADELAIDE	Local	Hotel - Motel - Inn	Newmarket Hotel & Two storey row shops Building	4/05/2000	698m	North
3046	21 Dale Street PORT ADELAIDE	Local	House	Semi-detached house	4/05/2000	700m	North West
3047	19 Dale Street PORT ADELAIDE	Local	House	Semi-detached house	4/05/2000	702m	North West
1829	28 Cannon Street PORT ADELAIDE	Local	Religious Building	St John's Spiritual Church	4/05/2000	705m	North West
3032	18 Cannon Street PORT ADELAIDE	Local	House	House	4/05/2000	725m	North West
3040	133-137 Commercial Road PORT ADELAIDE	Local	Business: Commercial/Retail	Single storey row shops	4/05/2000	725m	North
3031	16 Cannon Street PORT ADELAIDE	Local	House	House	4/05/2000	729m	North West
1830	41-45 Cannon Street PORT ADELAIDE	Local	Hospital	Port Anchor Hotel (former Kent Hotel)	4/05/2000	732m	North
1791	184-188 Port Road ALBERTON	Local	Religious Building	Alberton Uniting Church (cnr Glebe Street)	4/05/2000	737m	South East
3039	125-129 Commercial Road PORT ADELAIDE	Local	Business: Commercial/Retail	Single storey row shops	4/05/2000	740m	North
1834	123 Commercial Road PORT ADELAIDE	Local	Business: Commercial/Retail	Single storey row shop	4/05/2000	750m	North
3038	119-121 Commercial Road PORT ADELAIDE	Local	Business: Commercial/Retail	Single storey row shop	4/05/2000	755m	North
1770	83-87 Lipson Street PORT ADELAIDE	State	Warehouse	Former HL Vosz Ltd Offices and Paint Factory		759m	North
1833	117 Commercial Road PORT ADELAIDE	Local	Business: Commercial/Retail	Single storey row shop	4/05/2000	763m	North
1911	1-3 Butler Street PORT ADELAIDE	Contributory	Warehouse	Brick Warehouse	4/05/2000	765m	North

Heritage No	Location	Heritage Class	Australian Class	Details	Auth Date	Distance	Direction
1853	20 The Minories PORT ADELAIDE	Local	House	House	4/05/2000	771m	North West
1913	106 Commercial Road PORT ADELAIDE	Contributory	Business: Commercial/Retail	Shop	4/05/2000	776m	North
1854	22 The Minories PORT ADELAIDE	Local	House	House	4/05/2000	781m	North West
1894	2-10 Brock Street PORT ADELAIDE	Contributory	Warehouse	Former Farmers Union Woolstore - between Barlow & Aberdeen Streets	4/05/2000	783m	North East
3037	109-113 Commercial Road PORT ADELAIDE	Local	Business: Commercial/Retail	Two storey row shops (Former Burton,	4/05/2000	786m	North
3070	168-180 St Vincent Street PORT ADELAIDE	Local	Business: Commercial/Retail	A W B Buildings - Two storey row shops	4/05/2000	789m	North
1855	24 The Minories PORT ADELAIDE	Local	House	House	4/05/2000	792m	North West
1852	4 Quebec Street PORT ADELAIDE	Local	House	House	4/05/2000	793m	North West
2976	St Vincent Street PORT ADELAIDE	State	Religious Building	St Paul's Anglican Church		801m	North
1856	26 The Minories PORT ADELAIDE	Local	House	House	4/05/2000	802m	North West
3061	32-35 Ship Street PORT ADELAIDE	Local	Flat - Units	Single storey row houses	4/05/2000	820m	North West
2785	25 Melbourne Place ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	823m	South East
3067	136 St Vincent Street PORT ADELAIDE	Local	Business: Commercial/Retail	Two storey shop	4/05/2000	829m	North
3068	138-144 St Vincent Street PORT ADELAIDE	Local	Hotel - Motel - Inn	Golden Port Tavern & Two storey row shops (former Globe Hotel)	4/05/2000	829m	North
1916	50-58 St Vincent Street PORT ADELAIDE	Contributory	Sporting Facility - General	Recreation Centre	4/05/2000	833m	North West
2784	23 Melbourne Place ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	833m	South East
1827	22 Bower Crescent PORT ADELAIDE	Local	House	House	4/05/2000	834m	North East
3069	150-166 St Vincent Street PORT ADELAIDE	Local	Business: Commercial/Retail	Bower Buildings - Two storey row shops	4/05/2000	834m	North
1920	94 St Vincent Street PORT ADELAIDE	Contributory	Business House - Offices	Office	4/05/2000	835m	North West
1923	98 St Vincent Street PORT ADELAIDE	Contributory	Business: Commercial/Retail	Shop	4/05/2000	836m	North West
26043	27 Melbourne Place ALBERTON	Contributory			4/05/2000	836m	South East
26044	29 Melbourne Place ALBERTON	Contributory			4/05/2000	837m	South East
2787	31 Melbourne Place ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	838m	South East

Heritage No	Location	Heritage Class	Australian Class	Details	Auth Date	Distance	Direction
2783	21 Melbourne Place ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	839m	South East
3034	80-82 Commercial Road PORT ADELAIDE	Local	Business: Commercial/Retail	Two storey row shops	4/05/2000	839m	North
1921	96 St Vincent Street PORT ADELAIDE	Contributory	Business: Commercial/Retail	Store	4/05/2000	840m	North West
3065	126 St Vincent Street PORT ADELAIDE	Local	Business: Commercial/Retail	Two storey shop	4/05/2000	840m	North
3066	128-134 St Vincent Street PORT ADELAIDE	Local	Business: Commercial/Retail	Two storey row shops	4/05/2000	840m	North
1919	82-84 St Vincent Street PORT ADELAIDE	Contributory	Business: Commercial/Retail	Shop	4/05/2000	842m	North West
1828	24 Bower Crescent PORT ADELAIDE	Local	House	House	4/05/2000	848m	North East
1771	93 Lipson Street PORT ADELAIDE	State	Business: Commercial/Retail	Former Savings Bank of South Australia Port Adelaide Branch		849m	North
2788	41 Melbourne Place ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	849m	South East
3063	66-72 St Vincent Street PORT ADELAIDE	Local	Stable - Barn - Shed - Woolshed - Shearing Shed	Lass OGowrie stables (stone building at rear off Ship St.)	4/05/2000	850m	North West
1912	19 Church Place PORT ADELAIDE	Contributory	Business: Commercial/Retail	Shop	4/05/2000	851m	North
1758	74 Commercial Road PORT ADELAIDE	State	Historic Sites (unclassified)	Central Buildings (incorporating the former White Horse Cellar Inn)		855m	North
2789	45 Melbourne Place ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	856m	South East
2790	47 Melbourne Place ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	860m	East
1832	85 Commercial Road PORT ADELAIDE	Local	Business: Commercial/Retail	Two storey shop	4/05/2000	865m	North
1917	60-64 St Vincent Street PORT ADELAIDE	Contributory	Business: Commercial/Retail	Shops	4/05/2000	866m	North West
1889	1-5 Barlow Street PORT ADELAIDE	Contributory	Historic Sites (unclassified)	Former Jacketts Flour Mill	4/05/2000	867m	North
1763	1-15 Fisher Street PORT ADELAIDE	State	Warehouse	Former Dalgety's Wool Store		869m	North East
1844	8 Kyle Place PORT ADELAIDE	Local	Warehouse	Stone warehouse (Quins- displays no.10)	4/05/2000	869m	North
1825	6 Aberdeen Street PORT ADELAIDE	Local	House	House	4/05/2000	870m	North East
1831	83 Commercial Road PORT ADELAIDE	Local	Business: Commercial/Retail	Three storey shop (former Crooks & Booker store)	4/05/2000	871m	North
2792	53 Melbourne Place ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	873m	East
1849	99 Lipson Street PORT ADELAIDE	Local	Business: Commercial/Retail	Two storey shop	4/05/2000	874m	North
2794	55 Melbourne Place ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	878m	East

Heritage No	Location	Heritage Class	Australian Class	Details	Auth Date	Distance	Direction
1826	8 Aberdeen Street PORT ADELAIDE	Local	House	House	4/05/2000	881m	North East
3071	226-230 St Vincent Street PORT ADELAIDE	Local	Business: Commercial/Retail	Two storey row shops (former Jones Brothers)	4/05/2000	885m	North
3033	71-75 Commercial Road PORT ADELAIDE	Local	Business: Commercial/Retail	Two storey row shops (cnr. St Vincent St, former address 212-220 St Vincent St.)	4/05/2000	888m	North
3060	22-32 St Vincent Street PORT ADELAIDE	Local	Business: Commercial/Retail	Jaffer's Furniture Store	4/05/2000	888m	North West
1792	164 Port Road ALBERTON	Local	Business House - Offices	Funeral Home (former shop & house)	4/05/2000	889m	South East
3053	101A Lipson Street PORT ADELAIDE	Local	Business: Commercial/Retail	Single storey shop	4/05/2000	891m	North
3072	234 St Vincent Street PORT ADELAIDE	Local	Business: Commercial/Retail	Single storey row shop	4/05/2000	899m	North
1915	16-20 St Vincent Street PORT ADELAIDE	Contributory	Business: Commercial/Retail	Shops	4/05/2000	904m	North West
2774	91 King Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	905m	South East
1776	163 St Vincent Street PORT ADELAIDE	State	Council Offices	Port Adelaide Enfield Council Offices (Former Port Adelaide Town Hall)		910m	North
3064	87-91 St Vincent Street PORT ADELAIDE	Local	Business: Commercial/Retail	Two storey row shops Quins Yachting Centre building)	4/05/2000	913m	North West
2841	84 Prince Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	915m	South East
2773	89 King Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	919m	South East
2966	66 Commercial Road PORT ADELAIDE	State	Law Courts	Port Adelaide Visitor Centre Complex (former Port Adelaide Police Station, Courthouse and Custom House)		920m	North
1918	71 St Vincent Street PORT ADELAIDE	Contributory	Business: Commercial/Retail	Dangle & Dive	4/05/2000	924m	North West
2791	52 Melbourne Place ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	926m	East
2772	87 King Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	931m	South East
2793	54 Melbourne Place ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	931m	East
3062	55 St Vincent Street PORT ADELAIDE	Local	Business House - Offices	Kembla House	4/05/2000	935m	North West
3075	39 Grand Junction Road ROSEWATER	Local	Hall	Soldiers Memorial Hall (former Rosewater District Council Chambers)	4/05/2000	940m	East
27788	SE Corner St Vincent St & Lipson St PORT ADELAIDE	State	Historic Sites (unclassified)	Formby Memorial Drinking Fountain (95 Fletcher Road, Peterhead), Original Mintaro slate base with marble steps and replica Formby Memorial Drinking Fountain (SE cnr St Vincent Street & Lipson Street, Port Adelaide)		943m	North
2840	82 Prince Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	944m	South East
1764	111-111A Lipson Street PORT ADELAIDE	State	Business: Commercial/Retail	Former ANZ (former Union) Bank Port Adelaide Branch		953m	North
2965	62 Commercial Road PORT ADELAIDE	State	Police Station	Port Adelaide Enfield Council Chamber (former Port Adelaide Courthouse)		953m	North
9144	200 Bower Road SEMAPHORE PARK	State	Flat - Units	Dwelling ('Bower Cottages')		959m	West

Heritage No	Location	Heritage Class	Australian Class	Details	Auth Date	Distance	Direction
1777	247 St Vincent Street PORT ADELAIDE	State	Hotel - Motel - Inn	Railway Hotel		963m	North
1900	17-25 Crozier Street PORT ADELAIDE	Contributory	Warehouse	Corrugated Iron Woolstore former Dalgety's No 2 Woolstore	4/05/2000	966m	North East
3057	306 St Vincent Street PORT ADELAIDE	Local	Warehouse	Warehouse	4/05/2000	967m	North
2731	11a Duke Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	969m	East
2771	83 King Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	973m	South East
1778	255-265 St Vincent Street PORT ADELAIDE	State	Law Courts	St Vincent Chambers Shops and Offices		974m	North
2839	78 Prince Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	974m	South East
2730	11 Duke Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	976m	East
1851	13 Nile Street PORT ADELAIDE	Local	House	House	4/05/2000	977m	North
1773	11 Nile Street PORT ADELAIDE	State	Hall	Former Waterside Workers' Federation Hall		980m	North West
2769	80 King Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	982m	South East
2770	81 King Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	987m	South East
2838	76 Prince Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	989m	South East
2768	78 King Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	992m	South East
2963	30 Commercial Road PORT ADELAIDE	State	Historic Sites (unclassified)	Former Port Adelaide Customs House		993m	North
2964	30 Commercial Road PORT ADELAIDE	State	Hall	Former Port Adelaide Institute (sometime Custom House)		993m	North
3054	13 North Parade PORT ADELAIDE	Local	Hotel - Motel - Inn	British Hotel	4/05/2000	993m	North
2947	834 Torrens Road ROSEWATER	Contributory	Historic Sites (unclassified)		4/05/2000	997m	East
1903	20-30 Crozier Street PORT ADELAIDE	Contributory	Warehouse	Brick Warehouse	4/05/2000	998m	North East
2729	9 Duke Street ALBERTON	Contributory	Historic Sites (unclassified)		4/05/2000	998m	East

Heritage Places Data Source: Dept of Environment, Water and Natural Resources - South Australia  
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## Aboriginal Land

Aboriginal Land within the dataset buffer:

Map Id	Grant Date	Address	Locality	Description	Title	Distance	Direction
N/A	No records in buffer						

Aboriginal Land Data Source: Department of State Development, Resources and Energy - South Australia

## Natural Hazards

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## Bushfire Overlays

Bushfire Overlays from the Planning and Design Code within the dataset buffer:

Overlay Id	Name	Description	Legal Start Date	Legal End Date	Distance	Direction
N/A	No records in buffer					

Bushfire Overlays Data Source: Attorney-General's Department - South Australia  
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## Bushfires and Prescribed Burns History

Bushfires and prescribed burns within the dataset buffer:

Map Id	Incident No.	Incident Name	Incident Type	Date of Fire	Area of Fire (ha)	Distance	Direction
N/A	No records in buffer						

Bushfires and Prescribed Burns History Data Source: Dept of Environment, Water and Natural Resources - South Australia  
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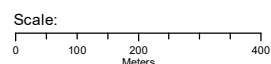
# Natural Hazards - Flood

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015



### Legend

- |                   |  |                                     |
|-------------------|--|-------------------------------------|
| Site Boundary     | <b>Planning and Design Code - Flooding Overlay</b> | Coastal Flooding                    |
| Buffer 1000m      | Flooding   | River Murray Flood Plain Protection |
| Property Boundary | Flooding - General                                 |                                     |
|                   | Flooding - Evidence Required                       |                                     |



Data Sources: Property Boundaries - Sourced by Omnilink PTY LTD. ©PSMA Australia Limited  
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Coordinate System:  
GDA 1994 MGA Zone 54

Date: 10 February 2023

## Natural Hazards

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

### Flooding Overlays

Flooding Overlays from the Planning and Design Code within the dataset buffer:

Overlay Id	Name	Description	Legal Start	Legal End	Distance	Direction
O2403	Hazards (Flooding)	The Hazards (Flooding) Overlay seeks to minimise flood hazard risk to people, property, infrastructure and the environment.	10/11/2022		0m	On-site
O2414	Hazards (Flooding - General)	The Hazards (Flooding - General) Overlay seeks to minimise impacts of general flood risk through appropriate siting and design of development.	10/11/2022		0m	On-site
O0904	Coastal Flooding	The Coastal Flooding Overlay seeks to minimise coastal flood hazard risk to property and infrastructure.	19/03/2021		15m	North

Flooding Overlays Data Source: Attorney-General's Department - South Australia  
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# Ecological Constraints

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## Groundwater Dependent Ecosystems Atlas

Type	Name	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer						

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology  
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# Ecological Constraints

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

## Inflow Dependent Ecosystems Likelihood

Type	Name	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer						

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology  
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## Ecological Constraints

Corner Grand Junction Road and Langham Place, Port Adelaide, SA 5015

### Ramsar Wetlands

What Ramsar wetland areas exist within the dataset buffer?

Wetland	Distance	Direction
No records in buffer		

Ramsar Wetlands Data Source: Dept of Environment, Water and Natural Resources - South Australia  
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LC Code	Location Confidence
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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  - (c) the Third Party Content Suppliers do not constitute an exhaustive set of all repositories or sources of information available in relation to the property which is the subject of the Report (**Property**) and accordingly neither Lotsearch nor Third Party Content Suppliers gives any warranty in relation to the accuracy or completeness of the Third Party Content incorporated into the report including any contaminated land assessment or other assessment included as part of a Report;
  - (d) Reports are generated at a point in time (as specified by the date/time stamp appearing on the Report) and accordingly the Report is based on the information available at that point in time and Lotsearch is not obliged to undertake any additional reporting to take into consideration any information that may become available between the point in time specified by the date/time stamp and the date on which the Report was provided by Lotsearch to the purchaser of the Report;
  - (e) Reports must be used or reproduced in their entirety and End User must not reproduce or make available to other persons only parts of the Report;
  - (f) Lotsearch has not undertaken any physical inspection of the property;
  - (g) neither Lotsearch nor Third Party Content Suppliers warrants that all land uses or features whether past or current are identified in the Report;
  - (h) the Report does not include any information relating to the actual state or condition of the Property;
  - (i) the Report should not be used or taken to indicate or exclude actual fitness or unfitness of Land or Property for any particular purpose
  - (j) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
  - (k) the End User should undertake its own inspections of the Land or Property to satisfy itself that there are no defects or failures
2. The End User may not make the Report or any copies or extracts of the report or any part of it available to any other person. If End User wishes to provide the Report to any other person or make extracts or copies of the Report, it must contact the purchaser of the Report before doing so to ensure the proposed use is consistent with the contract terms between Lotsearch and the purchaser.
3. Neither Lotsearch (nor any of its officers, employees or agents) nor any of its Third Party Content Suppliers will have any liability to End User or any person to whom End User provides the Report and End User must not represent that Lotsearch or any of its Third Party Content Suppliers accepts liability to any such person or make any other representation to any such person on behalf of Lotsearch or any Third Party Content Supplier.
4. The End User hereby to the maximum extent permitted by law:
  - (a) acknowledges that the Lotsearch (nor any of its officers, employees or agents), nor any of its Third Party Content Supplier have any liability to it under or in connection with the

- Report or these Terms;
- (b) waives any right it may have to claim against Third Party Content Supplier in connection with the Report, or the negotiation of, entry into, performance of, or termination of these Terms; and
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5. The End User acknowledges that any Third Party Supplier shall be entitled to plead the benefits conferred on it under clause 4, despite not being a party to these terms.
  6. End User must not remove any copyright notices, trade marks, digital rights management information, other embedded information, disclaimers or limitations from the Report or authorise any person to do so.
  7. End User acknowledges and agrees that Lotsearch and Third Party Content Suppliers retain ownership of all copyright, patent, design right (registered or unregistered), trade marks (registered or unregistered), database right or other data right, moral right or know how or any other intellectual property right in any Report or any other item, information or data included in or provided as part of a Report.
  8. To the extent permitted by law and subject to paragraph 9, all implied terms, representations and warranties whether statutory or otherwise relating to the subject matter of these Terms other than as expressly set out in these Terms are excluded.
  9. Subject to paragraph 6, Lotsearch excludes liability to End User for loss or damage of any kind, however caused, due to Lotsearch's negligence, breach of contract, breach of any law, in equity, under indemnities or otherwise, arising out of all acts, omissions and events whenever occurring.
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  11. Subject to paragraph 9, neither Lotsearch nor the End User is liable to the other for:
    - (a) any indirect, incidental, consequential, special or exemplary damages arising out of or in relation to the Report or these Terms; or
    - (b) any loss of profit, loss of revenue, loss of interest, loss of data, loss of goodwill or loss of business opportunities, business interruption arising directly or indirectly out of or in relation to the Report or these Terms,irrespective of how that liability arises including in contract or tort, liability under indemnity or for any other common law, equitable or statutory cause of action or otherwise.
  12. These Terms are subject to New South Wales law.

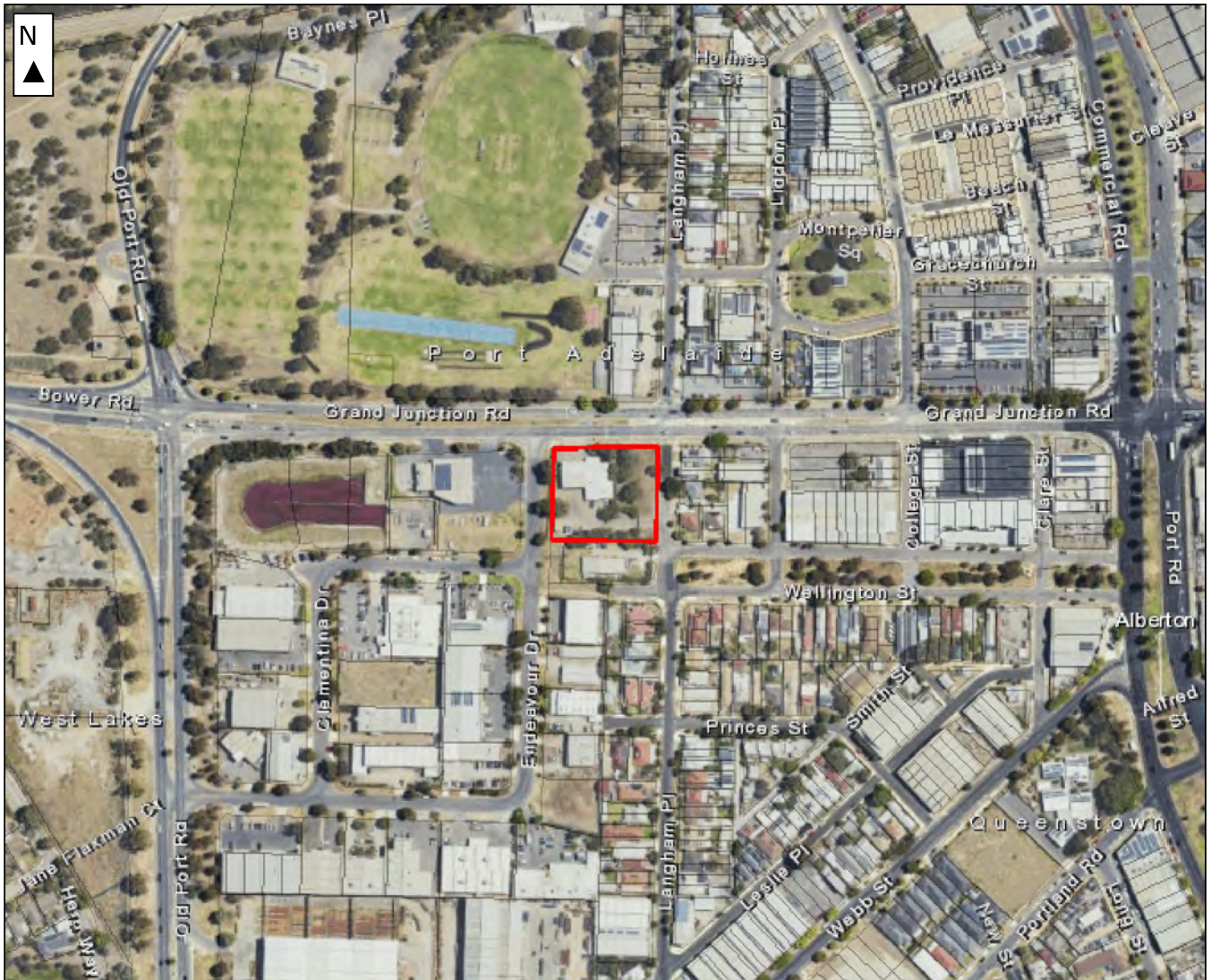
# **Appendix C**

**Certificates of Title and SAPPA  
Information**

# SAPPA Parcel Report

Date Created: February 17, 2023

The South Australian Property and Planning Atlas is available at the Plan SA website <https://sappa.plan.sa.gov.au/>



## Address Details

**Unit Number:**

Scale  $\approx$  1:4514 (on A4 page)

**Street Number:**

200 metres $\approx$

**Street Name:** GRAND JUNCTION

**Street Type:** RD

**Suburb:** PORT ADELAIDE

**Postcode:** 5015

The information provided, is not represented to be accurate, current or complete at the time of printing this report.

## Property Details:

**Council:** CITY OF PORT ADELAIDE ENFIELD

**State Electorate:** CHELTENHAM (2014), PORT ADELAIDE (2018), PORT ADELAIDE (2022)

**Federal Electorate:** PORT ADELAIDE (2013), PORT ADELAIDE (2016), HINDMARSH (2019)

**Hundred:** YATALA

**Valuation Number:** 0400847008

**Title Reference:** CT5450/700

**Plan No. Parcel No.:** D20135A21

Zoning details next page

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Government of South Australia  
Attorney-General's Department

## **Zone Details**

### **Zones**

Employment (Z1501) - E

### **Overlays**

**Airport Building Heights (Regulated) (O0303) - All structures over 110 metres**

The Airport Building Heights (Regulated) Overlay seeks to ensure building height does not pose a hazard to the operation and safety requirements of commercial and military airfields.

**Advertising Near Signalised Intersections (O0305)**

The Advertising Near Signalised Intersections Overlay seeks to ensure advertising near signalised intersections does not pose an unacceptable risk to pedestrian or road safety.

**Hazards (Flooding) (O2403)**

The Hazards (Flooding) Overlay seeks to minimise flood hazard risk to people, property, infrastructure and the environment.

**Hazards (Flooding - General) (O2414)**

The Hazards (Flooding - General) Overlay seeks to minimise impacts of general flood risk through appropriate siting and design of development.

**Major Urban Transport Routes (O3907)**

The Major Urban Transport Routes Overlay seeks to ensure safe and efficient vehicle movement and access along major urban transport routes.

**Prescribed Wells Area (O4804)**

The Prescribed Wells Area Overlay seeks to ensure sustainable water use in prescribed wells areas.

**Regulated and Significant Tree (O5404)**

The Regulated and Significant Tree Overlay seeks to mitigate the loss of regulated trees through appropriate development and redevelopment.

**Traffic Generating Development (O6001)**

The Traffic Generating Development Overlay aims to ensure safe and efficient vehicle movement and access along urban transport routes and major urban transport routes.



The Registrar-General certifies that this Title Register Search displays the records maintained in the Register Book and other notations at the time of searching.



## Certificate of Title - Volume 5450 Folio 700

Parent Title(s)	CT 4300/786				
Creating Dealing(s)	CONVERTED TITLE				
Title Issued	18/09/1997	Edition	1	Edition Issued	18/09/1997

### Estate Type

FEE SIMPLE

### Registered Proprietor

SOUTH AUSTRALIAN METROPOLITAN FIRE SERVICE  
OF 99 WAKEFIELD STREET ADELAIDE SA 5000

### Description of Land

ALLOTMENT 21 DEPOSITED PLAN 20135  
IN THE AREA NAMED PORT ADELAIDE  
HUNDREDS OF PORT ADELAIDE AND YATALA

### Easements

NIL

### Schedule of Dealings

NIL

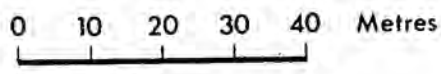
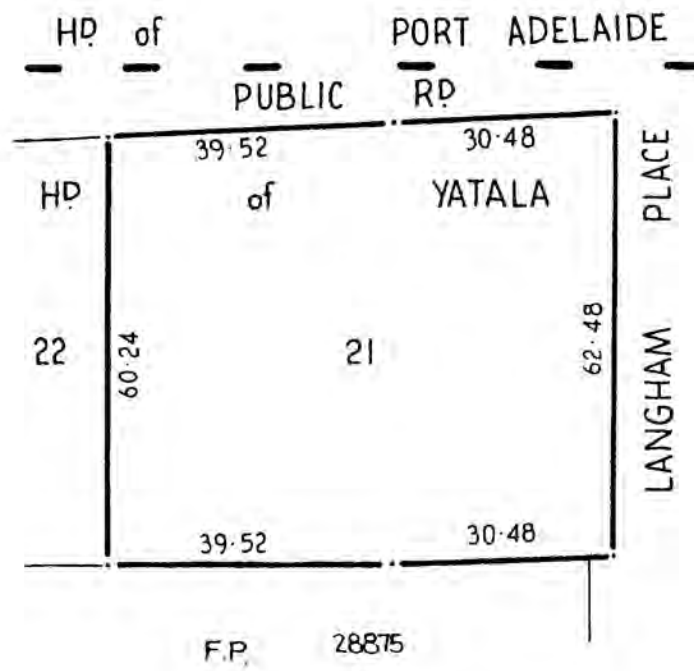
### Notations

Dealings Affecting Title	NIL
Priority Notices	NIL
Notations on Plan	NIL

### Registrar-General's Notes

R.P. CONFIRMED VIDE GOVT. GAZETTE 19101989

Administrative Interests	NIL
--------------------------	-----



## Certificate of Title

**Title Reference:** CT 5450/700  
**Status:** CURRENT  
**Parent Title(s):** CT 4300/786  
**Dealing(s) Creating Title:** CONVERTED TITLE  
**Title Issued:** 18/09/1997  
**Edition:** 1

## Dealings

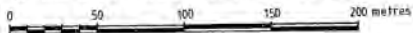
No lodged Dealings found.

MICROFILMED  
17-4-90

WARNING CREASING OR FOLDING WILL LEAD TO REJECTION

# PLAN OF DIVISION

ALLOTMENT 11 IN F.P.13299 OF SECTION 1131 AND ALLOTMENTS  
228 TO 232 INCLUSIVE IN D.P.3 OF PT. SECTION 1130  
HUNDREDS OF YATALA AND PORT ADELAIDE  
IN THE AREA NAMED PORT ADELAIDE



CT 193/54, CT 742/164, CT 1122/132, CT 1122/133, CT 4177/838  
FOR IDENTIFICATION AND MARKING OF LOT 21 VIDE T2364 FILED  
IN THE SURVEYOR GENERAL'S RECORDS.

LAND DEVELOPMENT PLANNING UNIT  
DEPARTMENT OF LANDS  
R.R.CURTIS, PHONE 2270852, DL5384/86

20135 LTO F  
DEPOSITED PLAN NUMBER  
**DP 20135**  
ACCEPTED FOR DEPOSIT  
*D. J. Williams*  
pro Registrar-General  
20/5/1987

Reference Map No.  
COUNCIL  
CITY OF PORT ADELAIDE  
Development No. 040 : D030 : 86

Abuttal amended vide  
Dkt. 171/87  
pro R.G. 23/6/87  
Portion of Wellington Street  
now closed Road - Vide D.P. 25107  
pro R.G.  
14-11-89  
\* Lot 22 amended &  
redesignated as Lot 23  
vide V.6836598  
pro R.G. 19/1/90  
Merger abuttal vide  
V.6836593  
pro R.G. 10/4/30

PLAN EXAMINATION		
Closure Checked	Plan Examined	Date Approved
<i>Low R.</i>	<i>Low R.</i>	<i>C. Gascoigne</i> pro Principal Drafting Officer 8/5/87

I, \_\_\_\_\_  
Licensed Surveyor of South Australia  
do hereby certify -  
(1) That this plan has been made from surveys  
executed by me or under my supervision.  
(2) That the field work was completed on  
the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_  
(3) That both plan and field work are to the best  
of my knowledge correct and have been made  
in accordance with the Regulations under  
the Surveyors Act, 1975.  
Date \_\_\_\_\_  
Licensed Surveyor

Permanent marks shown thus  PM

Survey required not made  
- will follow deposit. 8-2/87

**ORIGINAL**  
**CERTIFICATE OF TITLE**

**South Australia**

Register Book,  
Volume 4300 Folio 786



New Certificate for the whole of the Land in Vol.193 Folio 54 Vol.742 Folio 164 and Vol.1122 Folios 132 and 133 and the balance of the Land in Vol.4177 Folio 838

THE CORPORATION OF THE CITY OF PORT ADELAIDE of care of Post Office Box 110 Port Adelaide 5015 is the proprietor of an estate in fee simple subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in ALLOTMENT 21 of portion of Section 1130 and other land HUNDREDS OF PORT ADELAIDE AND YATALA in the area named PORT ADELAIDE (L.T.R.O. DEPOSITED PLAN No.20135) and delineated on the plan hereon by bold black lines

In witness whereof I have signed my name and affixed my seal this *6<sup>th</sup>* day of August 1987

Signed the *6<sup>th</sup>* day of August

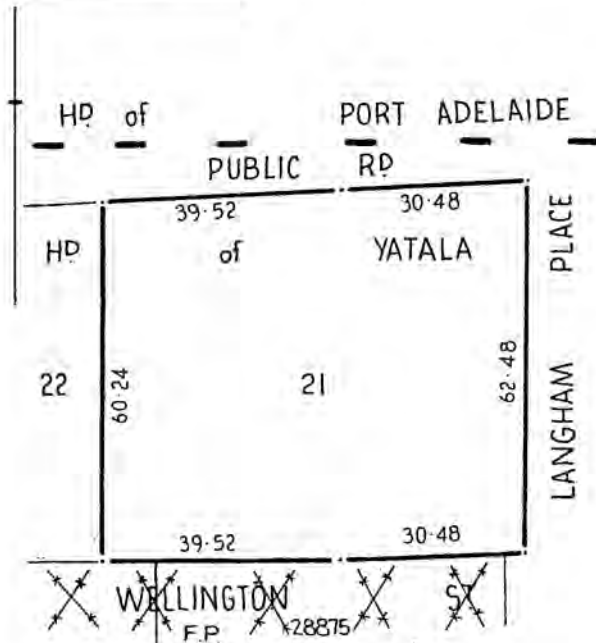
1987, in the presence of *d. Narasimhan*

*R. Y. Hamman*

Deputy Registrar-General



**ROAD PLAN DP 25107  
AFFECTS THIS CT  
ENQUIRIES  
SGO ROAD SECTION**



*76363647*

TRANSFER 6363647 to SOUTH AUSTRALIAN METROPOLITAN FIRE SERVICE of 99 Wakefield Street Adelaide 5000 of the within land Produced 4.6.1987 at 11:20

*Dup CT Reg Amend.*



**CANCELLED**  
CONVERTED TO A COMPUTERISED TITLE



Closed Road Vide D.P. 25107  
Merger Abuttal vide V.6836593

0 10 20 30 40 Metres



# South Australia.



(CERTIFICATE OF TITLE.)

Register Book,

Vol. CXCIII Folio. 54

193 54

Pursuant to Application No. 13459

James Casey of Portland Estate Laborer is

now seized of an estate in fee simple, subject, nevertheless, to such encumbrances, liens, and interests as are notified by memorial underwritten or endorsed hereon in that piece of land situated in the Hundred of Port Adelaide County of Adelaide being the allotments 228 and 229 each containing 1/4 acre plus or minus of the section 130

and bounded as appears in the plan in the margin hereof, and therein colored green, and in the plan deposited in the Lands Titles Registration Office, No. 3 Which said Section is delineated in the public map of the said Hundred deposited in the office of the Surveyor-General, and was originally granted on the 26<sup>th</sup> day of July 1850 under the hand and seal of Sir Murray Edwards, Esq. Young Assistant Governor of the said province to Philip Leve

In witness whereof, I have hereunto signed my name and affixed my seal this 19<sup>th</sup> day of July one thousand eight hundred and 1887

Signed, the 2<sup>nd</sup> day of July  
1887, in presence of

F.P. 11351  
APPROVED

Registrar-General.



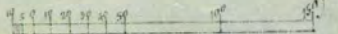
F.P. 13373  
APPROVED

5/5/87

PUBLIC	ROAD
228	2.5
100	
229	2.5
251	

Langham St

Public Road Abuttal vide T. 6071082  
5-5-87



Mortgage No. 57125 from James Casey to Anthony Tall, Henry Simpson and James Page the present Trustees of the Port Adelaide Permanent Land Building and Investment Association. Produced the 29<sup>th</sup> day of July 1874 at noon in the Registry Office.

Discharge of the above Mortgage No. 57125 by receipt endorsed thereon dated the 25<sup>th</sup> day August 1874. Entered the 26<sup>th</sup> day August 1874 at 11 a.m.

Transfer No. 304361 from James Casey to Sarah Casey his wife of an estate in fee simple in the within land for her separate use produced for registration the 29<sup>th</sup> day May 1886 at 3.30 pm in the Registry Office.

Transfer No. 666420 from Sarah Casey to the said Sarah Casey and Bridget Mary Casey and Sarah Ann Casey and Bridget Mary Casey of Portland Estate spinners of an estate in fee simple in the within land. Produced for registration the 16<sup>th</sup> day of November 1916 at 1 pm in the Registry Office.

(over) W. H. ...

Death - The within named Sarah Casey died on the 26 day of March 1935 as appears by Office Copy of Certificate of Death No. 1190385 Produced for registration the 4 day of June 1935 at 11 am

*W. Wood* DEP. REG. GEN.

APPLICATION No. **3674502** THE WITHIN land IS TRANSMITTED TO Robert Paul Anderson of 23 & 1/2 Vincent Street Port Adelaide 5015 AS THE EXECUTOR NAMED IN THE WILL DATED 17.11.1966 OF Alexander Leonard WHO DIED 4.9.1972 VIDE PROBATE DATED 18.05.1973 SUCCEED 10.10.1974 AT 2.25 PM  
*P. R. Whiting* DEP. REG. GEN.

~~XX4559953~~

TRANSFER No. **1436463** FROM Budget Mary Casey and Sarah Ann Casey to Victor Charles Bennetts of 51 George Place Alberton Hachmit and Gabrielle Raymond Bennetts wife OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND. PRODUCED FOR REGISTRATION THE 8 DAY OF August 1935 AT 2 PM  
*W. Wood* DEP. REG. GEN.

REGISTRAR-GENERAL'S CAVEAT No. 4559953 Portion of OVER THE WITHIN LAND ENTERED 27.5.1980 AT 12.05 PM

*WX4738309*

~~F1599080~~ ~~M 1599081~~

TRANSFER No. **1599080** FROM Victor Charles Bennetts and Gabrielle Raymond Bennetts to Colin Moore 455 Langham Place, Stella J. Moore and Dorothy Jean Moore wife OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND. PRODUCED FOR REGISTRATION THE 1 DAY OF December 1947 AT 11.45 am  
*W. Wood* DEP. REG. GEN.

Caveat No. 4559953 HAS BEEN WITHDRAWN VIDE No. 4738309 ENTERED 25.6.1981

~~T 4825101~~

TRANSFER No. **4825101** to One Sprossen of 6 Glamville Street, Ethelton 5015 Carpenter and Joiner OFF THE WITHIN LAND. PRODUCED 15.2.1981 at 3.05 pm

MORTGAGE No. **1599081** FROM Colin Moore and Dorothy Jean Moore to Port History Steam Co. (Pty) Ltd Building Society, No. 36 PRODUCED FOR REGISTRATION THE 1 DAY OF December 1947 AT 11.45 am  
*W. Wood* DEP. REG. GEN.

*T 4869512*

TRANSFER No. **4869512** To The Corporation of the City of Port Adelaide of Port Adelaide 5015 OF THE WITHIN LAND. PRODUCED 31.3.1982 at 10

DISCHARGE OF THE WITHIN MORTGAGE No. **1599081** BY ENDORSEMENT THEREON PRODUCED FOR REGISTRATION THE 28 DAY OF July 1954 AT 11.15 am  
*W. Wood* DEP. REG. GEN.

*R 6284404 DP20135 T 6363647*

Cancelled as regards that portion of the within land comprised in Deposited Plan 20135 (RT 6284404) and new Certificates issued Vol. 4300 Folio 786

TRANSFER No. **1958209** FROM Colin Moore and Dorothy Jean Moore to Alexander Leonard Hosie of 55 Langham Place, Port Adelaide, Maaf Labouchere and Mary Jane Hosie his wife OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND. PRODUCED FOR REGISTRATION THE 1 DAY OF August 1956 AT 11.25 am  
*W. Wood* DEP. REG. GEN.

2789478  
Mortgage No. **2789478** Mary Jane Hosie DIED ON 21.10.1966 PRODUCED 13.1.1967 AT 12.10 pm  
*W. Wood* DEP. REG. GEN.



Register Book.

Vol.

742

Folio

164

Pursuant to Application No 25057.

Henry Joseph Barrow the elder of Portland Estate Laborer is the proprietor of an estate in fee simple

subject nevertheless to such incumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in that piece of land situated in the County of Adelaide being the allotment 230 containing nine perches or thereabouts of the subdivision of sections 1129 and 1130 in the Hundred of Port Adelaide and Yatala laid out as Portland Estate

and bounded as appears in the plan in the margin hereof and therein colored green and in the plan deposited in the Lands Titles Registration Office No. 3 Which said Section is delineated in the public map of the said Hundred deposited in the office of the Surveyor-General.

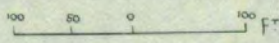
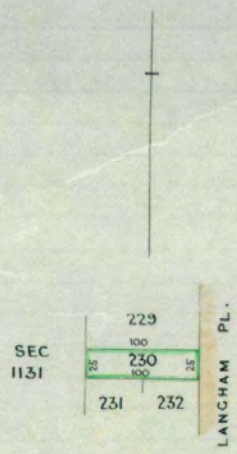
In witness whereof I have hereunto signed my name and affixed my seal this 20th day of January 1906

Signed the 20th day of January 1906 in the presence of E. J. Playford

M. Miles Registrar-General



Transfer No 584192 from Henry Joseph Barrow the elder to Richard Udy Bennetts of Port Adelaide Laborer of an estate in fee simple in the withinland Produced for registration the 25 day of March 1915 at 2:45 pm Unwitnessed Deponent The above named Richard Udy Bennetts is altered to Richard Udy Bennetts vide Request in Memorandum No 587017 Produced for registration the 1 day of May 1915 at 2:45 pm



601

Handwritten signatures and initials at the bottom right of the page.

T. 1361101

**TRANSFER No. 1361101** FROM  
*Richard Ledy Kennells to Arnold  
 William George Vincent of Portland, Labourer and  
 Hilda Gladys Vincent his wife*  
 OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND.  
 PRODUCED FOR REGISTRATION THE *9* DAY OF  
*January 1942* AT *2.55 pm*  
*Colfeccans* DEP. REG. GENL.

12550947

DEATH No. *2550947* *Hilda Gladys Vincent*  
 DIED ON *15/2/1959* PRODUCED *2/6/1959* AT *2.40 pm*  
*Dyboodt, J. P.* DEP. REG. GENL.

T4886875

**TRANSFER No. 4886875** TO  
*The Corporation of The City of Port  
 Adelaide of 163 St. Vincent Street Port  
 Adelaide 5015*  
 OF THE WITHIN LAND. PRODUCED *D.S. 1982* AT *11.50 am*



RT6284404 DP20135 T6363647

Cancelled all regards ~~with~~ ~~portion~~ of the within  
land comprised in Deposited Plan 20135 (RT6284404)  
and new Certificates issued

Vol. 4300 Folio 786



Cancelled as regards that portion of the within land comprised in Deposited Plan 20135 (R76284404) and new Certificates issued Vol. 4300 Folio 786



Register Book,

Vol. 1122 Folio 132

Pursuant to Memorandum of Transfer N<sup>o</sup> 716270

Richard Owen Evans of Port Adelaide Shipping Agent is the proprietor of an estate in fee simple

subject nevertheless to such incumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in

That piece of land situated in the County of Adelaide being Portion of Allotments 231 and 232 of the subdivision of Sections 1129 and 1130 situated in the Hundreds of Port Adelaide and Yatala laid out as Portland Estate and bounded as appears in the plan in the margin hereof and therein colored green which said piece of land contains twenty five perches or thereabouts and measures as well on the northerly side next other portion of the said Allotments as on the southerly side next Wellington Street one hundred feet or thereabouts on the easterly side next Langham Place sixty eight feet or thereabouts and on the westerly side next portion of Section 1131 sixty seven feet or thereabouts and is more particularly delineated in the said plan which said Allotments are bounded as appears in the plan in the deposited in the Lands Titles Registration Office N<sup>o</sup> 3

which said Sections are delineated in the public map of the said Hundreds deposited in the office of the Surveyor-General.

In witness whereof I have hereunto signed my name and affixed my seal this eighteenth day of June 1919.

Signed the 18th day of June 1919, in the presence of B.E. Bellhouse

W. J. P. Registrar-General



Mortgage N<sup>o</sup> 722704 from Richard Owen Evans to The Metropolitan Larr-Bankett Building Society N<sup>o</sup> 25 Produced for registration the 24 day of July 1919 at 12.5 pm

Writ N<sup>o</sup> 1152053 under Seal of the Supreme Court dated the 18 day of May 1933 Official copy produced for registration the 18 day of May 1933 at 2.45 pm including other land

over

O.C. 11605 Supreme

Order of Court No 1160558 dated the 13 day of November 1933 extending the time of the within writ No 1155053 for 6 Calendar months from and including the 18 day of November 1933. Produced for registration the 17 day of November 1933 at 2.30pm

W. Merwood Dep Reg Genl

W/O  
Caveat

TRANSFER No. 1393385 FROM Tabitha Evans to Constance Lykes of 31 Leslie Place Portland transferred from an ESTATE IN FEE SIMPLE IN THE WITHIN LAND. PRODUCED FOR REGISTRATION THE 13 DAY OF August 1943 AT 1.15 pm J. R. Rogers DEP. REG. GENL.

O.C. 1168446

Order of Supreme Court No 1168446 dated the 15 day of May 1934 renewing the within writ No 1152053 for one year from and including the 15 day of May 1934 and extending the date upon which a caveat may be lodged for registration until the 13 day of May 1935 except Vol 1174 do no 120 Office copy produced for registration the 16 day of May 1934 at 11.35am

W. Merwood Dep Reg Genl

TRANSFER No. 1907734 FROM Constance Lykes to Jean Karanickolas of 51A Port Road Southward of a house and stairs of Paraschos of 84 young street Park side La Bourne OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND as tenants in common PRODUCED FOR REGISTRATION THE 30 DAY OF August 1955 AT 11.35am J. R. Rogers DEP. REG. GENL.

MORTGAGE No. 1907735 FROM Jean Karanickolas and Stavros Paraschos to Constance Lykes PRODUCED FOR REGISTRATION THE 30 DAY OF August 1955 AT 11.35am J. R. Rogers DEP. REG. GENL.

Application No. 1178416 pursuant to Sequestration Order made the 31 day of August 1934 to her by the estate and interest of the within named Richard Owen Evans in the within land is transmitted to Arnold Victor Richardson of Adelaide Official Receiver the trustee of the said estate. Produced for registration the 1st day of November 1934 at 3pm W. Merwood Dep Reg Genl

TRANSFER No. 1971560 FROM Jean Karanickolas to the within named Stavros Paraschos of 65 Wingham Place Portland to have one undivided moiety in OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND PRODUCED FOR REGISTRATION THE 1 DAY OF December 1956 AT 2.10 p.m. J. E. Russell DEP. REG. GENL.

DISCHARGE OF THE within MORTGAGE No. 732701 BY ENDORSEMENT THEREON PRODUCED FOR REGISTRATION THE 6 DAY OF June 1935 AT 3pm W. Merwood DEP. REG. GENL.

DISCHARGE OF THE WITHIN MORTGAGE No. 1907735 BY ENDORSEMENT THEREON PRODUCED FOR REGISTRATION THE 17 DAY OF October 1957 AT 2.20pm Bennet DEP. REG. GENL.

TRANSFER No. 1190695 FROM Arnold Victor Richardson to William Herbert Dring of Hindmarsh Gentleman OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND. PRODUCED FOR REGISTRATION THE 6 DAY OF June 1935 AT 3pm W. Merwood DEP. REG. GENL.

TRANSFER No. 284655 TO The Corporation of the City of Port Adelaide of St. Vincent Street Port Adelaide OF THE WITHIN LAND. PRODUCED 196 AT 2.35 PM 168.7 DEP. REG. GENL. J. G. Bohman

TRANSFER No. 1190646 FROM William Herbert Dring to Tabitha Evans of Britton Road London Maine OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND. PRODUCED FOR REGISTRATION THE 6 DAY OF June 1935 AT 3pm J. F. Sargent DEP. REG. GENL.

RT6284404 DP20135 7 636367

SEE PAGE OF 01



Pursuant to Memorandum of Transfer No 716227

Tabitha Evans of Hindon Married Woman is

the proprietor of an estate in fee simple

subject nevertheless to such incumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in

That piece of land situated in the County of Adelaide being Portion of Allotments 231 and 232 of the subdivision of Sections 1129 and 1130 situated in the Hundreds of Port Adelaide and Yatala laid out as Portland Estate and bounded as appears in the plan in the margin hereof and therein colored green which said piece of land contains twenty two perches or thereabouts and measures as well on the northerly side next Allotment 230 as on the southerly side next other portion of the said Allotment 231 and 232 one hundred feet or thereabouts on the easterly side next Langham Place sixty two feet or thereabouts and on the westerly side next portion of Section 1131 sixty one feet or thereabouts and is more particularly delineated in the said plan which said Allotments are bounded as appears in the plan deposited in the Lands Titles Registration Office No 5

which said Sections are delineated in the public maps of the said Hundreds deposited in the office of the Surveyor-General.

In witness whereof I have hereunto signed my name and affixed my seal this eighteenth day of June 1919.

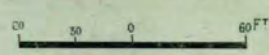
Signed the 18th day of June 1919, in the presence of B. E. Bellhouse

W. H. Woodcock Registrar-General



Mortgage No 728770 from Tabitha Evans to The Port Central Stan-Bowkett Building Society No 23. Produced for registration the 2 day of October 1919 at 2.35 pm W. H. Woodcock Depy Reg.

Mortgage No 987474 from Tabitha Evans to The Port Central Stan-Bowkett Building Society No 23. Produced for registration the 5 day of January 1927 at 12.35 pm W. H. Woodcock Depy Reg.



DISCHARGE OF THE MORTGAGE No. 728770 and 987474 BY ENDORSEMENT THEREON PRODUCED FOR REGISTRATION THE 27 DAY OF October 1935 AT 2pm W. H. Woodcock DEP. REG. GENL.

Over

Caveat No. 1204954 lodged by Arnold Victor Richardson and dated the 24 day of January 1936 over the within land. Produced for registration the 24 day of January 1936 at 11.50 am. (Including other land)

A. S. Herbert Dep. Reg. Gen.  
~~11745062 W. Richardson~~  
 The within Caveat No. 1204954 was withdrawn on the 13 day of May 1937 as appears by Memorandum No. 1242145 Produced for registration the 10 day of August 1937 at 11.45 am  
G. Hentelow Dep. Reg. Gen.

TRANSFER No. 1967423 FROM  
 Maxine Olive Andrew and  
 Madge Thora Hastings to  
 The Corporation of the City  
 of Port Adelaide  
 OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND  
 PRODUCED FOR REGISTRATION THE 18 DAY OF  
 October 1956 AT 11.35 am  
G. E. Russell DEP. REG. GENL.  
 P.A. No. 1703800  
 R-62-404-DP20135 T 6363647

Cancelled as regards that portion of the within land comprised in Deposited Plan 20135 (RT 624404) and new Certificates issued  
 Vol. 43rd Folios 786



TRANSFER No. 1242062 FROM  
 Tabitha Evans to Arnold Victor Richardson of Adelaide  
 Official Receiver  
 OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND.  
 PRODUCED FOR REGISTRATION THE 9 DAY OF  
 August 1937 AT 2.30 PM  
G. Hentelow DEP. REG. GENL.

~~1267123~~

TRANSFER No. 1267123 FROM  
 Arnold Victor Richardson to  
 Maxine Olive Hutchard and  
 Madge Thora Hutchard both of  
 14 Burnside Road Burnside  
 OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND.  
 PRODUCED FOR REGISTRATION THE 4 DAY OF  
 July 1938 AT 2.10 pm  
A. S. Herbert DEP. REG. GENL.

MARRIAGE. The within named Maxine Olive Hutchard was married to Hugh Graham Andrew of 28 Cool Bay Avenue Northwood Middlesex England on the 6 day of December 1940 at Kensington as appears by Certified Copy of Certificate of Marriage No. 1979429 Entered the 27 day of February 1956 at 3 pm. Produced for registration the 27 day of January 1956 at 11.30 am.  
A. Bennetts Dep. Reg. Gen.

MARRIAGE. The within named Madge Thora Hutchard was married to Anthony Brian Hastings of Hyland Terrace Chelsea Park Public servant on the 4 day of December 1947 at Kensington as appears by Certified Copy of Certificate of Marriage No. 1979430 Entered the 27 day of February 1956 at 3 pm. Produced for registration the 27 day of January 1956 at 11.30 am.  
A. Bennetts Dep. Reg. Gen.

**ORIGINAL**  
**CERTIFICATE OF TITLE**

**South Australia**

Register Book,  
Volume 4177 Folio 838



New Certificate for the whole of the Land in Vol.3461 Folio 174

THE CORPORATION OF THE CITY OF PORT ADELAIDE of care of Post Office Box 110 Port Adelaide 5015 is the proprietor of an estate in fee simple subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in ALLOTMENT 11 of portion of Section 1130 and other land HUNDREDS OF PORT ADELAIDE AND YATALA in the area named PORT ADELAIDE (L.T.R.O. FILED PLAN No.13299) and delineated on the plan hereon by bold black lines

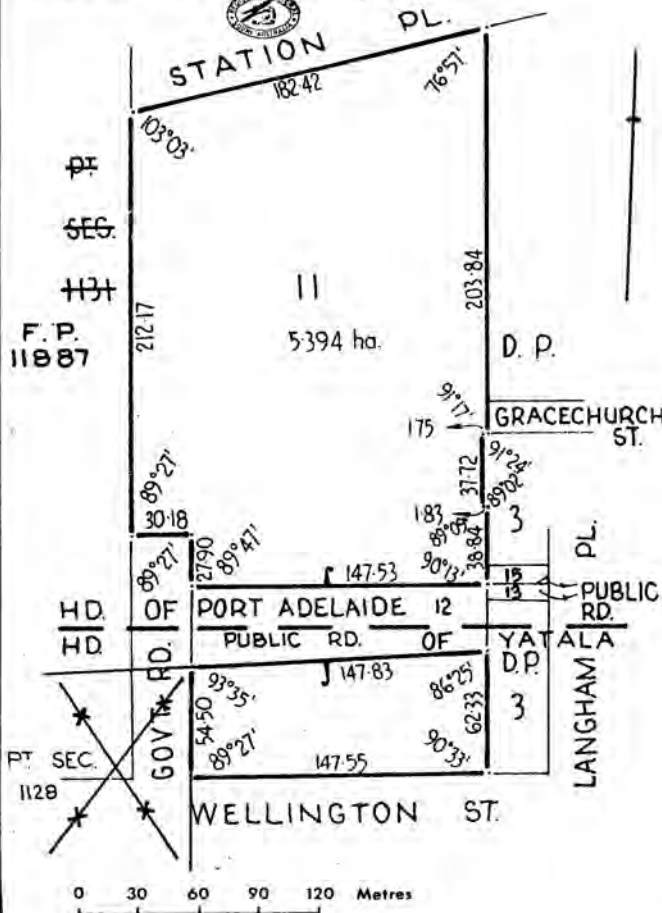
In witness whereof I have signed my name and affixed my seal this *9<sup>th</sup>* day of *July* 1981  
Signed the *9<sup>th</sup>* day of *July* 1981, in the presence of *Maurie*

*John Hughes*

Deputy Registrar-General



Closed Roads vide Highways Act Road Plan F.P. 20368.  
Abuttal vide V 6036229. 1-7-87



~~RT 6284404 DP 20135~~ 7 6363647

Cancelled as regards that portion of the WILLIHA land comprised in Deposited Plan 20135 (RT6284404) and new Certificates issued

Vol. 4300 Folios 784 to 786 incl.



*83*



# SAPPA Parcel Report

Date Created: February 7, 2023

The South Australian Property and Planning Atlas is available at the Plan SA website <https://sappa.plan.sa.gov.au/>



## Address Details

Scale ≈ 1:1128 (on A4 page)

**Unit Number:**

50 metres≈

**Street Number:**

**Street Name:** GRAND JUNCTION

**Street Type:** RD

**Suburb:** PORT ADELAIDE

**Postcode:** 5015

## Property Details:

**Council:** CITY OF PORT ADELAIDE ENFIELD

**State Electorate:** CHELTENHAM (2014), PORT ADELAIDE (2018), PORT ADELAIDE (2022)

**Federal Electorate:** PORT ADELAIDE (2013), PORT ADELAIDE (2016), HINDMARSH (2019)

**Hundred:** YATALA

**Valuation Number:** 0400847008

The information provided, is not represented to be accurate, current or complete at the time of printing this report.

The Government of South Australia accepts no liability for the use of this data, or any reliance placed on it.

This report and its contents are (c) copyright Government of South Australia.

**Title Reference:** CT5450/700

**Plan No. Parcel No.:** D20135A21

*Zoning details next page*



**Government of South Australia**  
Attorney-General's Department

## Zone Details

### Zones

Employment (Z1501) - E

### Overlays

**Airport Building Heights (Regulated) (O0303) - All structures over 110 metres**

The Airport Building Heights (Regulated) Overlay seeks to ensure building height does not pose a hazard to the operation and safety requirements of commercial and military airfields.

**Advertising Near Signalised Intersections (O0305)**

The Advertising Near Signalised Intersections Overlay seeks to ensure advertising near signalised intersections does not pose an unacceptable risk to pedestrian or road safety.

**Hazards (Flooding) (O2403)**

The Hazards (Flooding) Overlay seeks to minimise flood hazard risk to people, property, infrastructure and the environment.

**Hazards (Flooding - General) (O2414)**

The Hazards (Flooding - General) Overlay seeks to minimise impacts of general flood risk through appropriate siting and design of development.

**Major Urban Transport Routes (O3907)**

The Major Urban Transport Routes Overlay seeks to ensure safe and efficient vehicle movement and access along major urban transport routes.

**Prescribed Wells Area (O4804)**

The Prescribed Wells Area Overlay seeks to ensure sustainable water use in prescribed wells areas.

**Regulated and Significant Tree (O5404)**

The Regulated and Significant Tree Overlay seeks to mitigate the loss of regulated trees through appropriate development and redevelopment.

**Traffic Generating Development (O6001)**

The Traffic Generating Development Overlay aims to ensure safe and efficient vehicle movement and access along urban transport routes and major urban transport routes.



(CERTIFICATE OF TITLE.)

Register Book,

Vol. CXCIII Folio. 56  
193 54

pursuant to Application No 13459

James Casey of Portland Estate Laborer is

now seized of an estate in fee simple, subject, nevertheless, to such encumbrances, liens, and interests as are notified by memorial underwritten or endorsed hereon in that piece of land situated in the Hundred of Port Adelaide County of Adelaide being the allotments 228 and 229 each containing three perches or thereabouts of the section 130

and bounded as appears in the plan in the margin hereof, and therein colored green, and in the plan deposited in the Lands Titles Registration Office, No. 3 Which said Section is delineated in the public map of the said Hundred deposited in the office of the Surveyor-General, and was originally granted the 26<sup>th</sup> day of July 1850 under the hand and seal of Sir Henry Edward Fox Young Lieutenant-Governor of the said province to Philip Leve

In witness whereof, I have hereunto signed my name and affixed my seal this 10<sup>th</sup> day of July one thousand eight hundred and 1894

Signed, the 2<sup>nd</sup> day of July  
1894, in presence of 119 Payne

F.P. 11351  
APPROVED

Registrar-General.

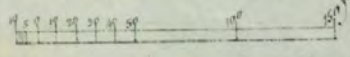


~~F.P. 13373~~  
~~APPROVED~~

PUBLIC	ROAD
228	25
229	25
230	

Langshaw Pl

Public Road Abuttal vide T. 6071082  
5-5-87



Mortgage No 51125 from James Casey to Anthony Holt Henry Chipman and James Page the present Trustees of the Port Adelaide Permanent Land Building and Investment Association. Produced the 9<sup>th</sup> day of July 1874 at 11 a.m.

Discharge of the above Mortgage No 51125 by receipt Endorsed, thereon dated the 23<sup>rd</sup> day August 1874. Entered the 26<sup>th</sup> day August 1874 at 11 a.m.

Transfer No 304361 from James Casey to Sarah Casey his wife of an estate in fee simple in the within land for her separate use produced for registration the 29 day May 1896 at 5.30 pm

Transfer No 66642 from Sarah Casey to the said Sarah Casey and Bridget Mary Casey and Sarah Ann Casey and Bridget Mary Casey of Portland Estate Spinners of an estate in fee simple in the within land. Produced for registration the 16 day of November 1915 at 1 pm

(over) H. H. Turner Registrar-General

Death - The within named Sarah Casey died on the 26 day of March 1935 as appears by Office Copy of Certificate of Death No. 1190385. Produced for registration the 4 day of June 1935 at 11 am.

*W. Wood* DEP. REG. GENL.

APPLICATION No. **3674502** THE WITHIN LAND IS TRANSMITTED TO Robert Paul Anderson of 234 St. Vincent Street Port Adelaide, Adelaide AS THE EXECUTOR NAMED IN THE WILL DATED 17.11.1966 OF Alexander Leonard WHO DIED 2.9.1972 VIDE PROBATE DATED 2.4.1973 SUCCEED 10.10.1974 AT 2.25pm  
*P. R. Whittington* DEP. REG. GENL.

~~XX4559953~~

REGISTRAR-GENERAL'S CAVEAT No. 4559953  
Portion of OVER THE WITHIN LAND  
ENTERED 27.3.1980 AT 12.05pm

~~WX4738309~~

Caveat No. 4559953 HAS BEEN WITHDRAWN VIDE No. 4738309 ENTERED 25.6.1981

~~F 4825101~~

TRANSFER No. **4825101** to Ove Sorensen of 6 Glamville Street, Ethelton 5015 Carpenter and Joiner  
OF THE WITHIN LAND PRODUCED 15.12.1981 at 3.05pm

~~F 4869512~~

TRANSFER No. **4869512** to The Corporation of the City of Port Adelaide of Port Adelaide 5015 OF THE WITHIN LAND. PRODUCED 31.3.1982 at 16  
RT6224404 DP20135 76363647

Cancelled as regards that portion of the within land comprised in Deposited Plan 20135 (RT 6224404) and new Certificates issued  
Vol. 4300 Folio 786

TRANSFER No. **1436463** FROM Bridget Mary Casey and Sarah Ann Casey to Victor Charles Bennetto of St Georges Place Alberton Raymond Bennetto Raymond Bennetto's wife OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND.  
PRODUCED FOR REGISTRATION THE 8 DAY OF August 1945 AT 2.15pm  
*W. Wood* DEP. REG. GENL.

~~F 1599080~~ ~~M 1599081~~

TRANSFER No. **1599080** FROM Victor Charles Bennetto and Gabrielle Raymond Bennetto to Colin Moore 455 Langham Place, Port Adelaide and Dorothy Jean Moore his wife OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND.  
PRODUCED FOR REGISTRATION THE 1 DAY OF December 1947 AT 11.45am  
*W. Wood* DEP. REG. GENL.

MORTGAGE No. **1599081** FROM Colin Moore and Dorothy Jean Moore to Port History Stars - Bowdler Building Society No. 36  
PRODUCED FOR REGISTRATION THE 1 DAY OF December 1947 AT 11.45am  
*W. Wood* DEP. REG. GENL.

~~D 1599081~~ 28/7/84

DISCHARGE OF THE WITHIN MORTGAGE No. **1599081** BY ENDORSEMENT THEREON PRODUCED FOR REGISTRATION THE 28 DAY OF July 1954 AT 11.15am  
*W. Wood* DEP. REG. GENL.

~~T 1958209~~

TRANSFER No. **1958209** FROM Colin Moore and Dorothy Jean Moore to Alexander Leonard Hoise of 55 Langham Place, Port Adelaide, Walter Labouches and Mary Jane Hoise his wife OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND.  
PRODUCED FOR REGISTRATION THE 1 DAY OF August 1956 AT 11.25am  
*W. Wood* DEP. REG. GENL.

~~2789478~~

Death No. Mary Jane Hoise DIED ON 21.10.1966 PRODUCED 13.1.1967 AT 12.10pm  
*W. Wood* DEP. REG. GENL.

**ORIGINAL**  
**CERTIFICATE OF TITLE**

**South Australia**

Register Book,  
Volume 4300 Folio 786



New Certificate for the whole of the Land in Vol.193 Folio 54 Vol.742 Folio 164 and Vol.1122 Foliors 132 and 133 and the balance of the Land in Vol.4177 Folio 838

THE CORPORATION OF THE CITY OF PORT ADELAIDE of care of Post Office Box 110 Port Adelaide 5015 is the proprietor of an estate in fee simple subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in ALLOTMENT 21 of portion of Section 1130 and other land HUNDREDS OF PORT ADELAIDE AND YATALA in the area named PORT ADELAIDE (L.T.R.O. DEPOSITED PLAN No.20135) and delineated on the plan hereon by bold black lines

In witness whereof I have signed my name and affixed my seal this 6<sup>th</sup> day of August 1987

Signed the 6<sup>th</sup> day of August

1987, in the presence of *d. Hasanaji*

*R. Rahman*

Deputy Registrar-General



T6363647

TRANSFER 6363647 to SOUTH AUSTRALIAN METROPOLITAN FIRE SERVICE of 99 Wakefield Street Adelaide 5000 of the within land Produced 4.6.1987 at 11:20

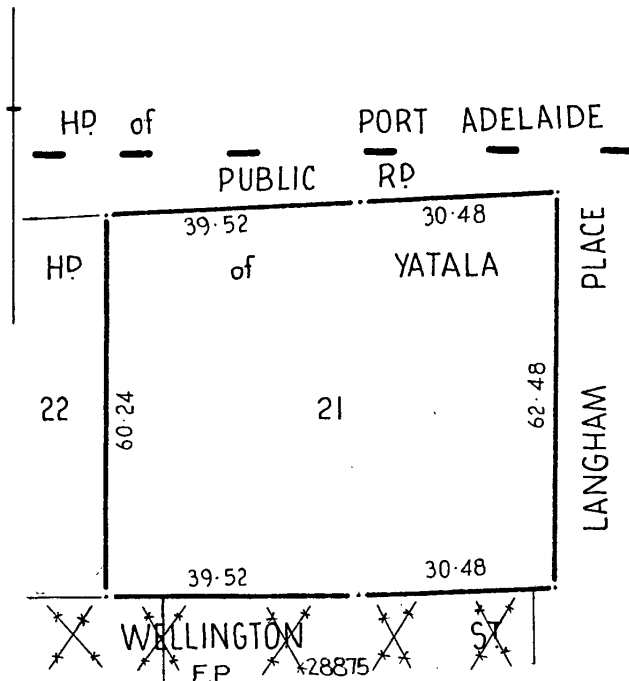
Dup CT Req Amend.



**CANCELLED**  
CONVERTED TO A COMPUTERISED TITLE



ROAD PLAN DP.25107  
AFFECTS THIS CT  
ENQUIRIES  
SGO ROAD SECTION



Closed Road Vide D.P. 25107  
Merger Abuttal vide V.6836593

0 10 20 30 40 Metres

93



# **Appendix D**

## **Photographic Log**

## Port Adelaide Fire Station



**Photo 37** View of Entrance, facing S, from Grand Junction Rd



**Photo 38** Rear recreation area and washdown bay, facing north



**Photo 39** Storage shed in SE corner, taken from rear of building, facing south east



**Photo 40** View of wash down bay facing south west



**Photo 41** View of surrounding property, Pay Dirt excavations



**Photo 42** View vehicle access and drain from Langham Pl, facing W

# **Appendix E**

**MFS Staff Surveys**

**AFFF Historical Use Questionnaires)**

**MFS Station – AFFF Historical Use Questionnaire**

Please distribute the following questionnaire to nominated MFS personnel who have worked at MFS sites when active use of AFFF (*aqueous film-forming foam, firefighting foam*) occurred before it was phased out in 2016. When applicable, please annotate key site features on the site plans attached at the end of this questionnaire.

**MFS Station:**

**Name:**

**Position when working at the site:**

**Phone number:**

**Email:**

**Date of response:**

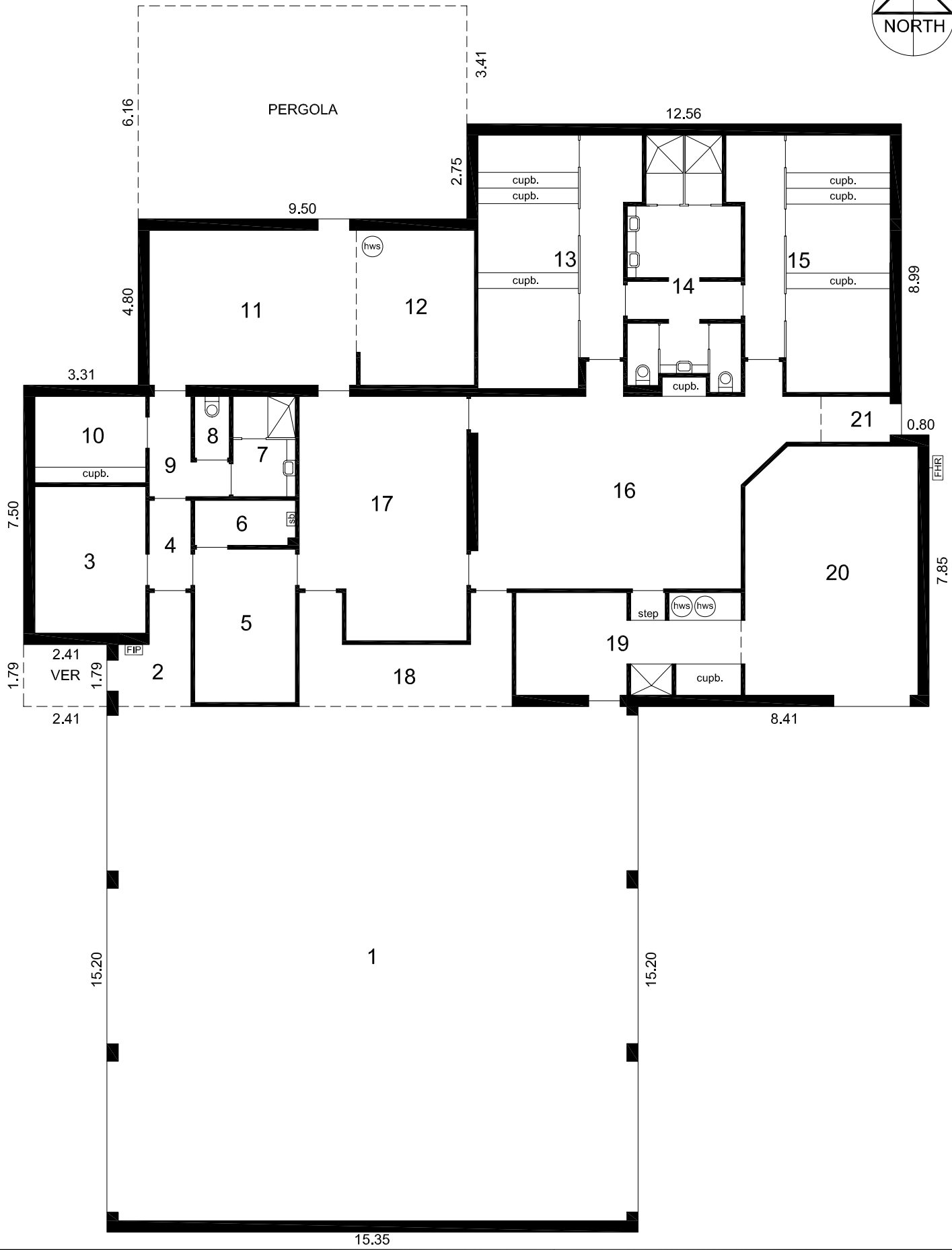
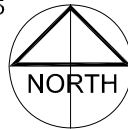
Item	Question	Response
1	<i>When did you start working at this station?</i>	
2	<i>How long have you worked at this station?</i>	
3	<i>Can you describe where stormwater from the site is usually discharged to (e.g. stormwater pit, nearby creek / pond, street gutter)?</i>	
4	<i>Can you describe any changes in how stormwater has been managed at the site over time?</i>	
5	<i>Is stormwater harvested within the site?</i>	
5.1	<i>If yes, please describe where and how stormwater is harvested.</i>	
5.2	<i>For what purposes is stormwater harvested?</i>	
6	<i>Are there groundwater wells / bores at the site?</i>	
6.1	<i>If yes, for what purpose is groundwater used at the site?</i>	

Item	Question	Response
6.2	<i>Where are the groundwater well / bores located on site? Please mark the location on the attached site plan.</i>	
7	<i>Date when AFFF was first used on site?</i>	
8	<i>Can you provide the product names of any AFFF used on the site? (e.g. Ansulite, 3M Light Water)</i>	
9	<i>Was AFFF used in regular training exercises? If so:</i>	
9.1	<i>How often was the training? (e.g. weekly, monthly, quarterly)</i>	
9.2	<i>Can you describe the location of the training areas and annotate them on the site plan?</i>	
9.3	<i>Can provide an estimate of how much AFFF was used in each training?</i>	
9.4	<i>Was the training ground sealed / open?</i>	
9.5	<i>Was AFFF dispersed aerially? If so, please indicate the maximum extent on the site plan?</i>	
9.6	<i>When was the date of the last training event that included the use of AFFF?</i>	
10	<i>Please describe how the waste water was managed following training events? Specifically, was there a recycling system, storage pond, storage tanks or drains? Please annotate waste water discharge point / pathways on the site plan.</i>	
11	<i>Did any waste water flow into drains that directed the waste water off-site? Please annotate the waste water discharge points / pathways on the site plan.</i>	
12	<i>Were there any changes how the waste water was managed over time? If so, please describe the changes.</i>	
13	<i>Is there any inventory of AFFF use for the site?</i>	

Item	Question	Response
14	<i>Can you estimate the total volume of AFFF used on site before it was phased out in 2016?</i>	
15	<i>Where was AFFF stored on site? Please annotate the storage location on the site plan.</i>	
15.1	<i>What type and size of storage containers were used to store AFFF on site?</i>	
15.2	<i>What is the number of storage containers or the total volume of AFFF that was typically stored on site at any given time prior to 2016?</i>	
16	<i>Please describe where and how AFFF was transferred from storage containers to the fire trucks / fire-fighting appliances. What equipment was used to transfer the AFFF?</i>	
17	<i>How were spent drums of AFFF disposed of?</i>	
18	<i>Were there any wash down areas for fire trucks, equipment or AFFF containers? If so:</i>	
18.1	<i>How was the waste water from such areas managed? (e.g. recycling, treatment, storage pond or discharge to drains)</i>	
18.2	<i>Were there any changes how the waste water was managed over? If so, please describe the changes.</i>	
19	<i>Please describe / annotate the specific location(s) of any other chemical storage facilities (including fuel and oil) and describe the type and typical use of those chemicals.</i>	
20	<i>Is there an incident log / register for the site?</i>	

Item	Question	Response
21	<i>Are you aware of any AFFF (or other chemical) releases that may have occurred outside of typical application scenarios? If so:</i>	
21.1	<i>When did such release(s) happen?</i>	
21.2	<i>What substance(s) was/were released?</i>	
21.3	<i>Where did such release(s) happen? Please annotate the release point(s) on the site plan.</i>	
21.4	<i>Where was the released AFFF or chemical discharged to? Please annotate the discharge point(s) on the site plan.</i>	
22	<i>Are there areas of the site where training activities and / or AFFF release(s) have historically occurred that are now unused or have been built on?</i>	
23	<i>Have there been any significant bulk earthworks on the Station site that resulted in soil being relocated from one area to another?</i>	
24	<i>Please describe any changes to the Station that you are aware of with respect to the storage and use of AFFF.</i>	

*Any other comments or notes.*



Asset Name	<b>PORT ADELAIDE SAMFS</b>				
Building Use	<b>FIRE STATION</b>				
Created by.	<i>Archink</i>	Drawn	<i>A Bentley</i>	Date	<i>Apr 2010</i>
Modified by.	-	Drawn	-	Date	-
Bldg area m <sup>2</sup>	<b>611</b>	Ver area m <sup>2</sup>	<b>4</b>	Plan ref.	<i>7811-WD1</i>



**Government of South Australia**  
 Department for Transport,  
 Energy and Infrastructure

Strategic Asset Management Information System Plan

**SAMIS 09166-01-1**

**MFS Station – AFFF Historical Use Questionnaire**

Please distribute the following questionnaire to nominated MFS personnel who have worked at MFS sites when active use of AFFF (*aqueous film-forming foam, firefighting foam*) occurred before it was phased out in 2016. When applicable, please annotate key site features on the site plans attached at the end of this questionnaire.

**MFS Station:**

**Name:**

**Position when working at the site:**

**Phone number:**

**Email:**

**Date of response:**

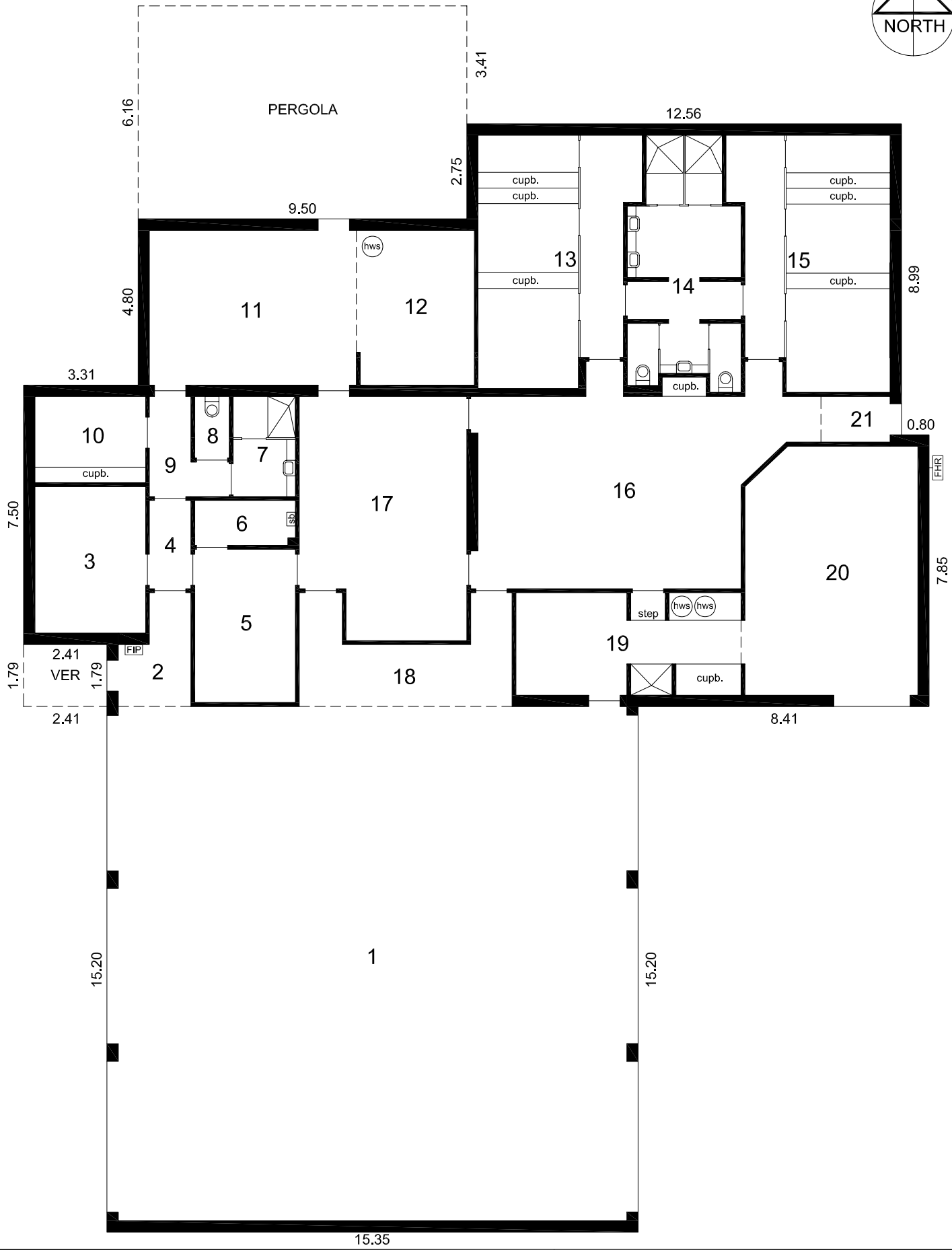
Item	Question	Response
1	<i>When did you start working at this station?</i>	
2	<i>How long have you worked at this station?</i>	
3	<i>Can you describe where stormwater from the site is usually discharged to (e.g. stormwater pit, nearby creek / pond, street gutter)?</i>	
4	<i>Can you describe any changes in how stormwater has been managed at the site over time?</i>	
5	<i>Is stormwater harvested within the site?</i>	
5.1	<i>If yes, please describe where and how stormwater is harvested.</i>	
5.2	<i>For what purposes is stormwater harvested?</i>	
6	<i>Are there groundwater wells / bores at the site?</i>	
6.1	<i>If yes, for what purpose is groundwater used at the site?</i>	

Item	Question	Response
6.2	<i>Where are the groundwater well / bores located on site? Please mark the location on the attached site plan.</i>	
7	<i>Date when AFFF was first used on site?</i>	
8	<i>Can you provide the product names of any AFFF used on the site? (e.g. Ansulite, 3M Light Water)</i>	
9	<i>Was AFFF used in regular training exercises? If so:</i>	
9.1	<i>How often was the training? (e.g. weekly, monthly, quarterly)</i>	
9.2	<i>Can you describe the location of the training areas and annotate them on the site plan?</i>	
9.3	<i>Can provide an estimate of how much AFFF was used in each training?</i>	
9.4	<i>Was the training ground sealed / open?</i>	
9.5	<i>Was AFFF dispersed aerially? If so, please indicate the maximum extent on the site plan?</i>	
9.6	<i>When was the date of the last training event that included the use of AFFF?</i>	
10	<i>Please describe how the waste water was managed following training events? Specifically, was there a recycling system, storage pond, storage tanks or drains? Please annotate waste water discharge point / pathways on the site plan.</i>	
11	<i>Did any waste water flow into drains that directed the waste water off-site? Please annotate the waste water discharge points / pathways on the site plan.</i>	
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13	<i>Is there any inventory of AFFF use for the site?</i>	

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17	<i>How were spent drums of AFFF disposed of?</i>	
18	<i>Were there any wash down areas for fire trucks, equipment or AFFF containers? If so:</i>	
18.1	<i>How was the waste water from such areas managed? (e.g. recycling, treatment, storage pond or discharge to drains)</i>	
18.2	<i>Were there any changes how the waste water was managed over? If so, please describe the changes.</i>	
19	<i>Please describe / annotate the specific location(s) of any other chemical storage facilities (including fuel and oil) and describe the type and typical use of those chemicals.</i>	
20	<i>Is there an incident log / register for the site?</i>	

Item	Question	Response
21	<i>Are you aware of any AFFF (or other chemical) releases that may have occurred outside of typical application scenarios? If so:</i>	
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21.2	<i>What substance(s) was/were released?</i>	
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23	<i>Have there been any significant bulk earthworks on the Station site that resulted in soil being relocated from one area to another?</i>	
24	<i>Please describe any changes to the Station that you are aware of with respect to the storage and use of AFFF.</i>	

*Any other comments or notes.*



Asset Name	<b>PORT ADELAIDE SAMFS</b>				
Building Use	<b>FIRE STATION</b>				
Created by.	<i>Archink</i>	Drawn	<i>A Bentley</i>	Date	<i>Apr 2010</i>
Modified by.	-	Drawn	-	Date	-
Bldg area m <sup>2</sup>	<b>611</b>	Ver area m <sup>2</sup>	<b>4</b>	Plan ref.	<i>7811-WD1</i>



**Government of South Australia**  
 Department for Transport,  
 Energy and Infrastructure

Strategic Asset Management Information System Plan

**SAMIS 09166-01-1**



**MFS Station – AFFF Historical Use Questionnaire**

Please distribute the following questionnaire to nominated MFS personnel who have worked at MFS sites when active use of AFFF (*aqueous film-forming foam, firefighting foam*) occurred before it was phased out in 2016. When applicable, please annotate key site features on the site plans attached at the end of this questionnaire.

**MFS Station:** Port Adelaide SAMFS Fire Station

**Name:**

**Position when working at the site:** Fire fighter

**Phone number:**

**Email:**

**Date of response:** 20/6/22

Item	Question	Response
1	When did you start working at this station?	1987
2	How long have you worked at this station?	30 years including relieving
3	Can you describe where stormwater from the site is usually discharged to (e.g. stormwater pit, nearby creek / pond, street gutter)?	Storm water pit
4	Can you describe any changes in how stormwater has been managed at the site over time?	None that I am aware of.
5	Is stormwater harvested within the site?	No.
5.1	If yes, please describe where and how stormwater is harvested.	—
5.2	For what purposes is stormwater harvested?	—
6	Are there groundwater wells / bores at the site?	No
6.1	If yes, for what purpose is groundwater used at the site?	Not applicable

Item	Question	Response
6.2	Where are the groundwater well / bores located on site? Please mark the location on the attached site plan.	Not applicable
7	Date when AFFF was first used on site?	Early 80's
8	Can you provide the product names of any AFFF used on the site? (e.g. Ansulite, 3M Light Water)	
9	Was AFFF used in regular training exercises? If so:	Yes
9.1	How often was the training? (e.g. weekly, monthly, quarterly)	Annually
9.2	Can you describe the location of the training areas and annotate them on the site plan?	
9.3	Can provide an estimate of how much AFFF was used in each training?	Up to 100 litres
9.4	Was the training ground sealed / open?	Open
9.5	Was AFFF dispersed aerially? If so, please indicate the maximum extent on the site plan?	
9.6	When was the date of the last training event that included the use of AFFF?	Mid 1990's
10	Please describe how the waste water was managed following training events? Specifically, was there a recycling system, storage pond, storage tanks or drains? Please annotate waste water discharge point / pathways on the site plan.	No recycling or storage at site.
11	Did any waste water flow into drains that directed the waste water off-site? Please annotate the waste water discharge points / pathways on the site plan.	Yes
12	Were there any changes how the waste water was managed over time? If so, please describe the changes.	None that I am aware of.
13	Is there any inventory of AFFF use for the site?	No.

Item	Question	Response
14	Can you estimate the total volume of AFFF used on site before it was phased out in 2016?	Unknown.
15	Where was AFFF stored on site? Please annotate the storage location on the site plan.	Yes
15.1	What type and size of storage containers were used to store AFFF on site?	200 litre drums. Metal later replaced by Plastic drums.
15.2	What is the number of storage containers or the total volume of AFFF that was typically stored on site at any given time prior to 2016?	24 x 200 litre Drums
16	Please describe where and how AFFF was transferred from storage containers to the fire trucks / fire-fighting appliances. What equipment was used to transfer the AFFF?	Foam <del>eq</del> equipment such as large Foam Canon and and Inductor lines were stored in a trailer as per plan
17	How were spent drums of AFFF disposed of?	Unknown.
18	Were there any wash down areas for fire trucks, equipment or AFFF containers? If so:	Rear yard.
18.1	How was the waste water from such areas managed? (e.g. recycling, treatment, storage pond or discharge to drains)	No recycling. Discharged to drains.
18.2	Were there any changes how the waste water was managed over? If so, please describe the changes.	None that I am aware of.
19	Please describe / annotate the specific location(s) of any other chemical storage facilities (including fuel and oil) and describe the type and typical use of those chemicals.	Underground diesel fuel storage tank Easter side of yard
20	Is there an incident log / register for the site?	Yes. Doesn't capture historical AFFF use.

Item	Question	Response
21	Are you aware of any AFFF (or other chemical) releases that may have occurred outside of typical application scenarios? If so:	No
21.1	When did such release(s) happen?	Not applicable
21.2	What substance(s) was/were released?	N/A.
21.3	Where did such release(s) happen? Please annotate the release point(s) on the site plan.	—
21.4	Where was the released AFFF or chemical discharged to? Please annotate the discharge point(s) on the site plan.	In waste water to drains
22	Are there areas of the site where training activities and / or AFFF release(s) have historically occurred that are now unused or have been built on?	Area behind green storage shed where foam was stored.
23	Have there been any significant bulk earthworks on the Station site that resulted in soil being relocated from one area to another?	No.
24	Please describe any changes to the Station that you are aware of with respect to the storage and use of AFFF.	None.

Any other comments or notes.



16000 L Diesel VST

6 incidents over 1 shift over 30 years used foam  
→ wash out lines afterwards

- Cleanaway
- car fires (alloy blocks, 17g wheels)

Foam cannon → set and dripped next to storage shed  
post learning use

- 150L AFFF instead of high-expansion foam 1 incident  
150-120L Appliances → accidental release

- 1 incident AFFF instead of training foam  
knee deep blanket of foam

- regular appliance testing → release of small amounts  
of foam

# **Appendix F**

**SA EPA Statement to Form 1 Section 7  
Search Results**



**Environment Protection Authority**  
GPO Box 2607 Adelaide SA 5001  
211 Victoria Square Adelaide SA 5000  
T (08) 8204 2004  
Country areas 1800 623 445

Receipt No :  
Admin No : 113002 (77111)

GHD  
Level 4  
211 Victoria Square  
ADELAIDE SA 5000

Contact: Section 7  
Telephone: (08) 8204 2026  
Email: epasection7@sa.gov.au

Contact: Public Register  
Telephone: (08) 8204 9128  
Email: epa.publicregister@sa.gov.au

02 March, 2023

### **EPA STATEMENT TO FORM 1 - CONTRACTS FOR SALE OF LAND OR BUSINESS**

The EPA provides this statement to assist the vendor meet its obligations under section 7(1)(b) of the *Land and Business (Sale and Conveyancing) Act 1994*. A response to the questions prescribed in Schedule 1-Contracts for sale of land or business-forms (Divisions 1 and 2) of the *Land and Business (Sale and Conveyancing) Act 1994* is provided in relation to the land.

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5450 Folio 700  
Address Allotment 21 (DP 20135), Grand Junction Road, PORT ADELAIDE SA 5015

#### **Schedule – Division 1 – *Land and Business (Sale and Conveyancing) Regulations 2010***

#### **PARTICULARS OF MORTGAGES, CHARGES AND PRESCRIBED ENCUMBRANCES AFFECTING THE LAND**

##### **8. *Environment Protection Act 1993***

Does the EPA hold any of the following details relating to the *Environment Protection Act 1993*:

8.1	Section 59 - Environment performance agreement that is registered in relation to the land.	NO
8.2	Section 93 - Environment protection order that is registered in relation to the land.	NO
8.3	Section 93A - Environment protection order relating to cessation of activity that is registered in relation to the land.	NO
8.4	Section 99 - Clean-up order that is registered in relation to the land.	NO
8.5	Section 100 - Clean-up authorisation that is registered in relation to the land.	NO
8.6	Section 103H - Site contamination assessment order that is registered in relation to the land.	NO
8.7	Section 103J - Site remediation order that is registered in relation to the land.	NO

8.8	Section 103N - Notice of declaration of special management area in relation to the land (due to possible existence of site contamination).	NO
8.9	Section 103P - Notation of site contamination audit report in relation to the land.	NO
8.10	Section 103S - Notice of prohibition or restriction on taking water affected by site contamination in relation to the land.	NO

**Schedule – Division 2 – Land and Business (Sale and Conveyancing) Regulations 2010**

**PARTICULARS RELATING TO ENVIRONMENT PROTECTION**

**3-Licences and exemptions recorded by EPA in public register**

Does the EPA hold any of the following details in the public register:

a)	details of a current licence issued under Part 6 of the <i>Environment Protection Act 1993</i> to conduct any prescribed activity of environmental significance under Schedule 1 of that Act at the land?	NO
b)	details of a licence no longer in force issued under Part 6 of the <i>Environment Protection Act 1993</i> to conduct any prescribed activity of environmental significance under Schedule 1 of that Act at the land?	NO
c)	details of a current exemption issued under Part 6 of the <i>Environment Protection Act 1993</i> from the application of a specified provision of that Act in relation to an activity carried on at the land?	NO
d)	details of an exemption no longer in force issued under Part 6 of the <i>Environment Protection Act 1993</i> from the application of a specified provision of that Act in relation to an activity carried on at the land?	NO
e)	details of a licence issued under the repealed <i>South Australian Waste Management Commission Act 1979</i> to operate a waste depot at the land?	NO
f)	details of a licence issued under the repealed <i>Waste Management Act 1987</i> to operate a waste depot at the land?	NO
g)	details of a licence issued under the repealed <i>South Australian Waste Management Commission Act 1979</i> to produce waste of a prescribed kind (within the meaning of that Act) at the land?	NO
h)	details of a licence issued under the repealed <i>Waste Management Act 1987</i> to produce prescribed waste (within the meaning of that Act) at the land?	NO

**4-Pollution and site contamination on the land - details recorded by the EPA in public register**

Does the EPA hold any of the following details in the public register in relation to the land or part of the land:

a)	details of serious or material environmental harm caused or threatened in the course of an activity (whether or not notified under section 83 of the <i>Environment Protection Act 1993</i> )?	<b>YES</b>
----	--	------------

- |    |  |     |
|----|--|-----|
| b) | details of site contamination notified to the EPA under section 83A of the <i>Environment Protection Act 1993</i> ?  | NO  |
| c) | a copy of a report of an environmental assessment (whether prepared by the EPA or some other person or body and whether or not required under legislation) that forms part of the information required to be recorded in the public register?                          | YES |
| d) | a copy of a site contamination audit report?   | NO  |
| e) | details of an agreement for the exclusion or limitation of liability for site contamination to which section 103E of the <i>Environment Protection Act 1993</i> applies?   | NO  |
| f) | details of an agreement entered into with the EPA relating to an approved voluntary site contamination assessment proposal under section 103I of the <i>Environment Protection Act 1993</i> ?  | NO  |
| g) | details of an agreement entered into with the EPA relating to an approved voluntary site remediation proposal under section 103K of the <i>Environment Protection Act 1993</i> ?   | NO  |
| h) | details of a notification under section 103Z(1) of the <i>Environment Protection Act 1993</i> relating to the commencement of a site contamination audit?  | NO  |
| i) | details of a notification under section 103Z(2) of the <i>Environment Protection Act 1993</i> relating to the termination before completion of a site contamination audit?   | NO  |
| j) | details of records, held by the former <i>South Australian Waste Management Commission</i> under the repealed <i>Waste Management Act 1987</i> , of waste (within the meaning of that Act) having been deposited on the land between 1 January 1983 and 30 April 1995? | NO  |

**5-Pollution and site contamination on the land - other details held by EPA**

Does the EPA hold any of the following details in relation to the land or part of the land:

- |    |  |    |
|----|--|----|
| a) | a copy of a report known as a "Health Commission Report" prepared by or on behalf of the <i>South Australian Health Commission</i> (under the repealed <i>South Australian Health Commission Act 1976</i> )?   | NO |
| b) | details (which may include a report of an environmental assessment) relevant to an agreement entered into with the EPA relating to an approved voluntary site contamination assessment proposal under section 103I of the <i>Environment Protection Act 1993</i> ? | NO |
| c) | details (which may include a report of an environmental assessment) relevant to an agreement entered into with the EPA relating to an approved voluntary site remediation proposal under section 103K of the <i>Environment Protection Act 1993</i> ?              | NO |
| d) | a copy of a pre-1 July 2009 site audit report?   | NO |
| e) | details relating to the termination before completion of a pre-1 July 2009 site audit?   | NO |

Records identified in this EPA Statement to Form 1: **SC62641**

**The above records have been identified with a YES response in this EPA Statement to Form 1 and can be obtained by contacting the Public Register on (08) 8204 9128 or email [epa.publicregister@sa.gov.au](mailto:epa.publicregister@sa.gov.au)**

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete.



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