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24 February 2026

Mr Sam Raunik
Development Manager
Hamton
Suite 8/111 High Street
PRAHRAN Victoria 3181

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Dear Sam,

**Re: Site History Review – Part of 112 Wilson Street, Moonee Ponds,
Victoria – Rev01**

1. Introduction

1.1 Background

As a component of the Moonee Valley Racecourse (MVRC) redevelopment in Moonee Ponds, Hamton (the Client) is proposing to redevelop the land at 112 Wilson Street (Lot D PS805188), Moonee Ponds, Victoria 3039 (the 'Property') for high-density residential use. Under the Moonee Valley Planning Scheme (Planning Scheme), the approximately 14,900 square metre (m²) Property is within a 'Mixed Use Zone – Schedule 2'¹.

The Project comprises the following developments – Wilson East complex, Track Central complex, Track East complex, Wilson West complex and Track West complex, with details to be confirmed. Wilson East, Track Central and Track East complexes are collectively referred to as the Site (approximately 8,350 m²).

The Property and Site footprints are shown on Figure 1 (Section 2).

Hamton has engaged Pitt & Sherry (Operations) Pty Ltd (pitt&sherry) to complete a Site History Review (SHR) to determine the potential for land contamination to be present at the Site at levels which may pose an unacceptable risk to human health and/or ecological receptors during redevelopment earthworks or for the proposed high-density residential use.

The SHR (this document) has been written and reviewed by two Certified Environmental Practitioner Site Contamination Specialists (CEnvP SC), certified under the Environment Institute of Australia and New Zealand.

¹ Planning Property Report (Attachment B).

1.2 Objectives

The objectives of this SHR are to obtain and compile available information on the current and historical uses of the Site and immediate surrounds and assess:

- The potential for contamination to be present within the Site (i.e. onsite potentially contaminating activities (PCAs))
- The potential for possible contamination from offsite to impact on the Site (offsite PCAs); and
- Whether intrusive investigations (i.e. sampling) are required to confirm (or otherwise) the presence of contamination within the Site and assess the risks posed to human health and/or the environment from the Site during the proposed redevelopment and associated excavation works and for the proposed use.

1.3 Limitations

Limitations of this SHR include:

- No assessment of natural values or heritage (historic and/or Aboriginal) were undertaken; publicly available mapped features are provided in Table 1 (Section 2)
- Historical information was limited to available information sourced and reviewed in Section 3
- Emissions to air have not been considered; no industrial land uses have been identified in the immediate vicinity of the Site (Section 3)
- The quality resolution of some of the early historical images may be insufficient to identify potentially-relevant details to this SHR (Section 3.3); other information sources have been used to supplement historical aerial photographs (Section 3)
- The Site inspection (Section 3.4) was limited to accessible areas only and not all areas were inspected, e.g. demolition was in progress within the southern part of the Site and some shipping containers were locked
- Existing buildings were not inspected for the presence of hazardous building materials (e.g. asbestos containing materials (ACM), lead-based paint). Older buildings are known to contain ACM (Section 3.1) and recommendations have been made to manage risks to human health during demolition (Section 5.2); and
- No intrusive investigations were completed. Sampling has been recommended in Section 5.2 to address the identified PCAs and the potential for acid sulfate soils (ASS).

2. Site setting

Site identification details are provided in Table 1.

The Site and title boundaries are shown on Figure 1.

The Enviro Pro Report² (Attachment A) is a screening tool used to identify a range of current and historical information relating to environmental risks and potentially contaminating land-use practices for a property and its surroundings. The Enviro Pro Report includes information on the Site setting, hydrogeology, environmental registers, licences and incidents, PCAs and natural hazards. It should be noted that the Enviro Pro Report is only as accurate as the databases from which Lotsearch sources its information. Inconsistencies are sometimes identified, and are detailed within this SHR wherever possible, including in Section 3.5.

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² Lotsearch Enviro Professional, 102 Wilson Street, Moonee Ponds, VIC 3039, Lotsearch Pty Ltd, 9 December 2025 (Enviro Pro Report).

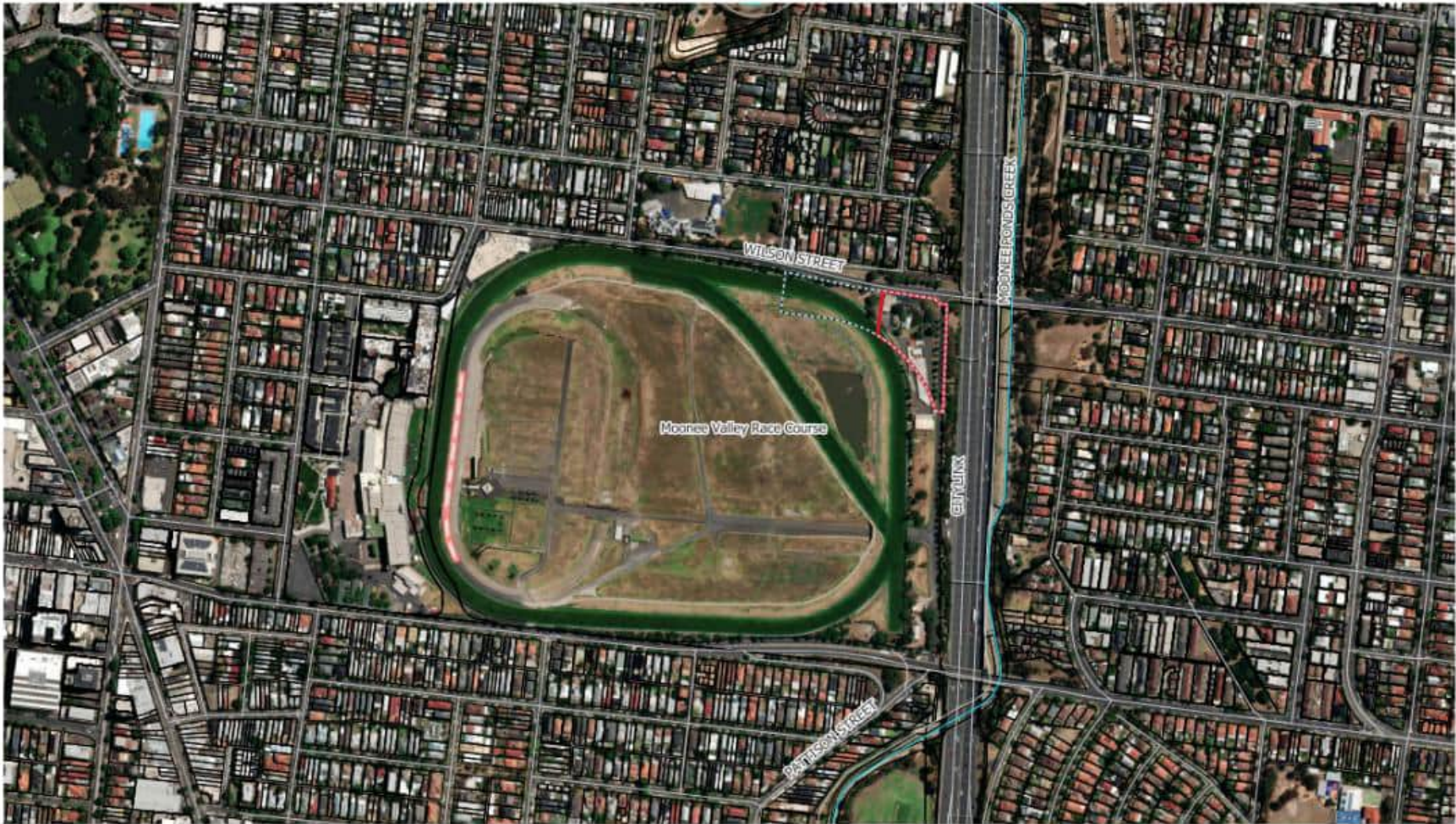


Figure 1 - Property and Site locations

MVRC North-East Precinct Site History Review

Hamton

pitt&sherry

LEGEND  Site Boundary  112 Wilson Street Property Boundary  Watercourses  Cadastre  Road

*Site is approximately 8378 m2 and encompasses 112 Wilson Street (Lot D PS805188)

MAP REF: P.25.1650 DATA SOURCES: LotSearch, Earl,
AUTHOR: Jake Brown
REVISION: B
DATE: 2026-02-24T10:11:01.560

N
▲

0 100 200 300 400 m
COORDINATE SYSTEM: EPSG:28355
SCALE @ A3: 1:5000

Figure 1: Site location and title boundaries

Table 1: Site details

Item	Detail	Information Source
Address	Part of 112 Wilson Street, Moonee Ponds, Victoria 3039.	Hamton
Certificates of title	Part of Lot D PS805188 (112 Wilson Street).	Enviro Pro Report (Attachment A) Planning Property Report (Attachment B)
Site area	Approximately 8,350 m².	Enviro Pro Report (Attachment A)
Zoning	- Site – is within a 'Mixed Use Zone – Schedule 2'; and - Surrounding areas – refer to the Enviro Pro Report (Attachment A) and Planning Property Report (Attachment B).	Enviro Pro Report (Attachment A) Planning Property Report (Attachment B)
Planning overlays	- Planning overlays for the Site comprise: - Development Contributions Plan Overlay – Schedule 1 - Design and Development Overlay – Schedule 12.	Enviro Pro Report (Attachment A)
Regional setting	- Site: - Located south of Wilson Street and west of Pattison Street - Bounded by MVRC to the west and south - Accessible by road via Pattison Street (off Wilson Street); and - Minimal vegetation present, limited to small garden beds and some trees. - Current neighbouring land uses include: - North – residential premises, with Moonee Ponds Primary School to the north-west - East – Citylink roadway, and Moonee Ponds Creek - South – MVRC; and - West – MVRC, with a stormwater pond to the south-west.	Site inspection (Section 3.4) Enviro Pro Report (Attachment A)

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Item	Detail	Information Source
Sensitive receptors	- Sensitive receptors within the Site comprise: - Current – MVRC maintenance personnel - Proposed – residents - Endangered vegetation is mapped approximately 10 m to the south-west of the Site within the stormwater pond (refer to ecology row below) - The eastern two thirds of the Site are within a mapped cultural heritage sensitivity area (refer to heritage row below) - Sensitive receptors in the vicinity of the Site comprise: - Users of the racetrack - Residents along Wilson Street, adjacent to the north of the Site - School students at Moonee Ponds Primary School, approximately 160 m to the north-west; and - Moonee Ponds Creek, approximately 50 m to the east.	Site inspection (Section 3.4) Enviro Pro Report (Attachment A)
Land use	- Current – MVRC maintenance and storage yard; and - Proposed – high-density residential complex.	Site inspection (Section 3.4) Hamton
Local Government Area (LGA)	Moonee Valley (Council).	Planning Property Report (Attachment B)
Infrastructure features	- The Site is serviced by power, water, stormwater, sewer and telecommunications; majority of services are reticulated underground - Stormwater reports to the stormwater pond within the greater MVRC to the south-west of the Site - There are a number of old buildings, sheds which are predominantly used as storage (files, etc.) and a lunchroom / amenities. There are also a number of shipping containers used for pipe storage and two designated shipping containers for chemical storage - There is a portable washdown facility; and - Roads within the Site are predominantly sealed with bitumen / asphalt.	Site inspection (Section 3.4) Planning Property Report (Attachment B)
Topography	- The Site surface elevation is located between around 15 and 19 m Australian Height Datum (AHD), with the highest point being in the north-eastern corner at the Wilson and Pattison streets intersection - The bulk of the Site area is relatively flat, with the elevation increasing again to the south-west towards the racetrack which is situated at a slightly higher elevation; and - The regional topography slopes towards the racetrack.	Site inspection (Section 3.4) Enviro Pro Report (Attachment A)

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Item	Detail	Information Source
Surface water	- There are no surface water bodies within the Site - There is a stormwater pond to the south-west of the Site which collects surface water runoff from 66 Wilson Street (racecourse); and - Moonee Ponds Creek is approximately 50 m east of the Site at its closest point. It flows in a southerly direction to the Yarra River in the Docklands Precinct, approximately 5.6 km south of the Site.	Site inspection (Section 3.4) Enviro Pro Report (Attachment A)
Geology and soils	- Geology – beneath and immediately surrounding the Site is mapped as alluvium (Qa1): gravel, sand, silt; variably sorted and rounded; generally unconsolidated; includes deposits of low terraces; alluvial floodplain deposits - Lithology – beneath and immediately surrounding the Site is mapped as gravel material, sand and silt material - Soils – beneath and immediately surrounding the Site is mapped as sodosol (Tb4) - ASS – areas beneath and immediately surrounding the Site are mapped as having a high (>70%) probability of occurrence of ASS	Enviro Pro Report (Attachment A)
Groundwater	- Hydrogeology – the aquifer type beneath and surrounding the Site is described as fractured or fissured, extensive and of low to moderate productivity - Salinity – groundwater beneath and in the vicinity of the Site is mapped as Groundwater Segment C with total dissolved solids concentrations of between 3,101 and 5,400 mg/L - Groundwater depth – groundwater beneath the Site is mapped as being <5 m bgl (59% of the Site) and 5 to 10 m bgl (41% of the Site) - Groundwater bores – there is one registered investigation borehole onsite (no details available and not identified during Site inspection) - Groundwater dependent ecosystems (GDEs) – none mapped within the Site. Moderate potential GDE (terrestrial) mapped approximately 10 m south-west of the Site associated with mapped vegetation in the stormwater pond. High potential GDE (aquatic) mapped approximately 50 m north-east of the Site associated with Moonee Ponds Creek - Inflow dependent ecosystems (IDEs) – none mapped within the Site. High potential IDE (terrestrial) mapped approximately 10 m south-west of the Site associated with mapped vegetation in the stormwater pond. High potential IDE (aquatic) mapped approximately 50 m north-east of the Site associated with Moonee Ponds Creek; and - Inferred groundwater flow direction is to the east towards Moonee Ponds Creek.	Site inspection (Section 3.4) Enviro Pro Report (Attachment A)

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Item	Detail	Information Source
Heritage	- There are no records for the Site or 500 m buffer on the: - Commonwealth Heritage List - National Heritage List - Victorian Heritage Register; and - The eastern two thirds of the Site is within a mapped cultural heritage sensitivity area.	Enviro Pro Report (Attachment A) Planning Property Report (Attachment B)
Ecology	- Native vegetation – none mapped within the Site. The endangered Plains Grassy Woodland (VVP_0055) is mapped approximately 10 m to the south-west of the Site within the stormwater pond - Ramsar wetlands – none mapped within the Site or within a 1 km buffer - Terrestrial protected environments – none mapped within the Site or within a 1 km buffer; and - Marine protected environments – none mapped within the Site or within a 1 km buffer.	Enviro Pro Report (Attachment A)

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3. Site history

A number of information sources were consulted to identify PCAs with the potential to impact the Site. Where there is the potential for identified PCAs to impact the Site from a contamination perspective, this is identified in **bold red text**. Where PCAs are identified and are considered *unlikely* to impact on the Site from a contamination perspective, justification is provided and the PCA is not generally discussed later in this report.

Identified PCAs with the potential to impact the Site from a contamination perspective are shown in **red** on Figure 2 (Section 4). In many instances the location of the PCA is approximate and it is likely that any contamination impact (if present) would extend beyond the 'dot'.

3.1 Previous environmental investigations and documents

A number of environmental investigations have been historically completed for the broader MVRC redevelopment footprint, many of which are outside the Site footprint. The racetrack was established in 1883³ and has undergone a number of upgrades since.

Sighted documents (from most recent to oldest) comprise:

- *Moonee Valley Racecourse Redevelopment – Waste Classification – June 2025, Rev00, pitt&sherry, 4 June 2025 (2025 Waste Classification)*
- *MVRC Stonepipe⁴ House and Trackside House – Waste Soil Classification, Rev01, pitt&sherry, 9 September 2022 (2022 Waste Classification)*
- *Preliminary Soil and Groundwater Contamination Assessment, Golder, December 2018 (2018 Soil and Groundwater Assessment)*
- *Division 6 Asbestos / Hazardous Materials Audit, Moonee Valley Racing Club, Victoria, JTA Health Safety and Noise Specialists, June 2017 (2017 Hazardous Building Materials Audit); and*
- *Preliminary Site Investigation, Moonee Valley Racecourse, Alpha Environmental, December 2016 (2016 PSI).*

A summary of PCAs from a high-level review of available documents is provided in Table 2.

No sampling has been completed within the Site footprint. Sampling within the broader MVRC redevelopment footprint has identified the following for soils which were classified for offsite disposal (2022 Waste Classification and 2025 Waste Classification):

- Category D waste as a result of reported total and leachable concentrations of several metals (arsenic, copper and/or and nickel)
- Category C waste as a result of reported total concentrations of several metals (arsenic and nickel) and benzo(a)pyrene (BaP)
- Fill materials; and
- Asbestos fragments (i.e. solids) have been encountered in fill materials.

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³ [About MVRC | The Valley](#)

⁴ Stonepine.

Table 2: Identified sources of potential contamination from previous reports

PCA	Comment / Potential for PCA to Impact the Site	Information Source
Asbestos	Asbestos containing materials (ACM) is present in older buildings within the Site (and the broader MVRC precinct).	2016 PSI 2017 Hazardous Building Materials Audit
ASS	High probability of encountering ASS within the Site footprint, at depth.	2016 PSI
Fill material	South-western part of the Site (and the broader MVRC precinct) is likely to have undergone significant cut and fill activities since establishment of the racecourse (alignment and realignment, upgrades, trotting track, access roads and underpass, grandstand and other pavilion construction) Filling of Moonee Ponds Creek (within the Site) during Citylink roadway development and its realignment approximately 50 m east of the Site - Stormwater dam construction; and Reported contaminants of potential concern (CoPCs) – ACM, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), metals.	2016 PSI
Fluorescent light fittings	Polychlorinated biphenyls (PCB) oil containing capacitors are likely to be present in light fixtures throughout the MVRC precinct (including the Site). It is considered that these will be appropriately identified and removed prior to redevelopment.	2017 Hazardous Building Materials Audit
Fuel storage	At least two underground storage tanks (USTs) – one unleaded petrol UST is within the Site and anecdotal information (2016) suggested a leaded UST was decommissioned in situ. USTs were presumably used for refuelling maintenance vehicles / equipment - Three diesel above ground storage tanks (ASTs) – all outside the Site, west of the racetrack; and Reported CoPCs – hydrocarbons, metals.	2016 PSI

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PCA	Comment / Potential for PCA to Impact the Site	Information Source
Groundwater	- The Site is within the West Port Phillip Bay groundwater catchment area - TDS is mapped as 1,001 – 3,500 mg/L (Segment B) - Onsite groundwater bore – for irrigation use (7.6 m deep) - Five groundwater quality restricted use zones (GQRUZ) within 1 km of the Site – all beyond Moonee Pond Creek (east of the Site) and deemed unlikely to pose any significant risk to onsite groundwater beneficial uses - Groundwater likely flows towards Moonee Ponds Creek Potential for impact to groundwater from storage of fuel in USTs and/or leaks from onsite underground sewerage infrastructure; and Reported CoPCs – hydrocarbons, VOCs, SVOCs, metals, nutrients.	2016 PSI 2018 Soil and Groundwater Assessment
Horseracing track	- Established in 1883; and Reported CoPCs – fertilisers, pesticides, herbicides, metals.	2016 PSI
Lead-based paint	Lead-based paint was identified on some surfaces within the broader MVRC precinct and is presumed to be present on original paint layers of original older surfaces.	2017 Hazardous Building Materials Audit
Mechanical workshop	Mechanical workshop and chemical storage within the Site for storage and maintenance of grounds-keeping equipment (e.g. lawn mowers), welding and other light-manufacturing equipment - Chemical storage (5 to 20L) was on wire racking with drop catchers underneath (i.e. bunded). Larger storages were in 1 kL intermediate bulk containers (IBCs) (bundling not mentioned) Chemicals comprised herbicides, pesticides and hydrocarbons (e.g. petrol, kerosene, oils, lubricants); and Reported CoPCs – hydrocarbons, fertilisers, pesticides, herbicides VOCs, SVOCs, metals.	2016 PSI
Nursery	Onsite nursery located within the Site, north of the mechanical workshop; and Reported CoPCs – fertilisers, pesticides, herbicides, nutrients.	2016 PSI

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PCA	Comment / Potential for PCA to Impact the Site	Information Source
Surface water	- No surface water bodies within the Site - The Site is within the Yarra River Catchment area - Moonee Ponds Creek is to the east of the Site and flows in a southerly direction to the Yarra River in the Docklands Precinct, approximately 5.6 km south of the Site. The creek was redirected during the construction of Citylink roadway - Stormwater dam anecdotally (2016) receives stormwater from whole MVRC precinct (outside the Site); and - Reported CoPCs – pesticides, herbicides, metals.	2016 PSI
Trade waste	MVRC has a trade waste agreement with City West Water.	2016 PSI

Notes:

Bold red text – indicates there is potential for the PCA to impact on the Site from a contamination perspective.

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3.2 Enviro Pro Report

Information in this section has been sourced from the Enviro Pro Report (Attachment A), unless noted otherwise. The Enviro Pro Report (Attachment A) identified:

- Environment Protection Authority Victoria (EPA) contamination registers and other pollution notices:
 - Current EPA priority sites register – no records within the Site or within a 1 km buffer
 - Site management orders – no records within the Site or within a 1 km buffer
 - Former EPA priority sites and other pollution notices – no records within the Site, four within a 1 km buffer (the closest of which is approximately 550 m east of the Site on the opposite side of Citylink and Moonee Ponds Creek). None are likely to impact the Site due to distance
 - Contaminated land notifications – no records within the Site, one approximately 950 m north-west with groundwater contamination (light non-aqueous phase liquid). Not likely to impact groundwater beneath the Site due to distance
- EPA preliminary risk screen assessments – no records within the Site or within a 1 km buffer
- EPA environmental audits – one record partially within the Site and 13 records within a 1 km buffer. The onsite record relates to a 53X Statement associated with Citylink project in 1999. All offsite records are on the eastern and opposite side of Citylink and Moonee Ponds Creek. None are likely to impact the Site due to distance
- EPA groundwater zones with restricted uses – no records within the Site and two records within a 1 km buffer (associated with general manufacturing and service station / fuel storage). Both are located over 500 m to the north-east of the Site on the opposite side of Citylink and Moonee Ponds Creek. None are likely to impact the groundwater beneath the Site due to distance
- EPA activities:
 - EPA register of permissions – no records within the Site, one expired permission approximately 800 m west associated with Pascoe Vale Road. Not likely to impact the Site due to expired nature and distance
 - Legacy EPA licenced activities – no records within the Site or within a 1 km buffer
 - Legacy EPA works approvals – no records within the Site or within a 1 km buffer
- Per- and poly- fluoroalkyl substances (PFAS) investigations and management programs – no records within the Site or within a 2 km buffer
- Defence sites and unexploded ordnance – no records within the Site or within a 2 km buffer
- Waste management facilities and landfills:
 - National waste management facilities – no records within the Site or within a 1 km buffer
 - Legacy EPA prescribed industrial waste – no records within the Site and two records within a 1 km buffer (associated with transport). The closest is approximately 400 m north-west of the Site. Neither are likely to impact on the Site due to no treatment / disposal (i.e. transport only) and distance
 - Landfills – no records within the Site or within a 1 km buffer
 - Former waste disposal sites – no records within the Site and two records within a 1 km buffer (currently used as a reserve and park). The closest is approximately 720 m to the north. Neither are likely to impact on the Site given their current land uses and distance
- Former gasworks – no records within the Site or within a 1 km buffer
- Liquid fuel facilities – no records within the Site and three records within a 1 km buffer (all service stations). The closest is located approximately 500 m to the east of the Site on the opposite side of Citylink and Moonee Ponds Creek. None are likely to impact the Site due to distance
- Historical mine shafts – no records within the Site or within a 1 km buffer

- Historical business directories – no records within the Site and nine records within a 150 m buffer (five of which are not specific premises but rather mapped to a road corridor):
 - 89 Wilson Street (approximately 20 m to the north) – engineers (general, mechanical and manufacturing), welders, disinfectant manufacturers and suppliers and/or dyers, bleachers and finishers between 1945 and 1974. Unlikely to impact the Site due to the historical nature of the activities (i.e. any hydrocarbon spills would likely be localised and would have bioremediated in the intervening years)
 - 87 Wilson Street (approximately 30 m to the north-west) – school or college since 1945. Unlikely to impact on the Site due to use class (i.e. a school is not a PCA)
 - 10 Owen Street (approximately 150 m to the south-east) – builders and building contractors in 1950. Unlikely to impact on the Site due to the historical nature of the activity (i.e. any hydrocarbon spills would likely be localised and would have bioremediated in the intervening years), distance and location on the eastern and opposite side of Citylink and Moonee Ponds Creek
 - 22 Shelly Street (mapped to road corridor, now Citylink) – **market gardeners in 1950**; CoPCs would be consistent with those for onsite uses
 - Wilson Street (mapped to road corridor) – **seedsmen and nurserymen from 1925 to 1950**; CoPCs would be consistent with those for onsite uses
 - Bent Street (mapped to road corridor, approximately 130 m to the north at its closest point) – blacksmiths and confectioners in 1925 and damp course manufactures in 1960. Unlikely to impact on the Site due to distance
 - Hunter Street (mapped to road corridor, approximately 220 m to the east at its closest point) – carriage, coach and wagon builders in 1896 and coal and wood yards in 1905. Unlikely to impact on the Site due to distance and location on the eastern and opposite side of Citylink and Moonee Ponds Creek
 - Victoria Street (mapped to road corridor, approximately 95 m to the north-east at its closest point) – various uses since 1896. Unlikely to impact on the Site due to distance and location on the eastern and opposite side of Citylink and Moonee Ponds Creek; and
 - Collings Street (mapped to Road corridor, approximately 120 m to the east at its closest point) – nurses in 1925. Unlikely to impact on the Site due to use class (i.e. a nurse is not a PCA).

3.3 Historical aerial imagery

Historical aerial imagery and maps of the Site and surrounds from 1908 to 2025 (18 images) are provided in the Enviro Pro Report (Attachment A). Notable information includes:

- 1909 (map) – Wright's **Nursery was present in the north-eastern corner of the Site**. Moonee Ponds Creek passed through the southern part of the Site (prior to it being infilled and redirected during the Citylink development). MVRC was present to the south-west, residential premises to the north
- 1916 to 1933 (map) – buildings / sheds (**potential for ACM**) in the northern central part of the Site. Extensive residential development surrounding the Site and the MVRC
- 1945 (image) – sheds through centre portion of the Site and residences along the Wilson Street frontage (**potential for ACM**). **Extensive gardens? nursery? in north-eastern corner of the Site**
- 1968 (image) – Site cleared of vegetation and buildings with only three houses in individual compounds (**potential for ACM**) and a shed in the central northern part of the Site. Stormwater pond visible to the north-west. Moonee Valley Creek appears to have been filled (**fill material of unknown composition**)
- 1975 (image) – racetrack within the Site (**potential for pesticides, herbicides, insecticides**), immediately to the south-west of the houses. Roadway to the east
- 1979 (image) – addition of three large sheds in centre of the Site (**potential for ACM**)
- 1984 (image) – addition of two sheds along the Wilson Street frontage, smaller sheds to the west and a large shed in the south of the Site (**potential for ACM**)

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- 2002 (image) – additional sheds onsite (**potential for ACM**) and internal surfaces predominantly sealed. Citylink present; and
- No evidence of stockpiling activities or above-ground fuel storage tanks were noted on the Site in any of the historical aerial images.

3.4 Site inspection and anecdotal information

A Site inspection was completed by Carly Clark (CEnvP SC) of pitt&sherry on 9 December 2025. Carly was accompanied by Mr Sam Raunik, Development Manager at Hamton and Mr Tony Sailsbury, Track Foreman at MVRC for 30 years. Inspection photographs are provided in Attachment C. The main elements of note from a contamination perspective include the following general observations:

- The Site is predominantly used for MVRC **maintenance activities and storage**. Plants are grown for the racecourse grounds and within buildings. Gardening equipment, tractors, plastic pipes, files and race day equipment (e.g. start gates, barriers, tables etc.) are stored
- There is a portable wash bay which is connected to a filtration system and trade waste
- **Two UST vent pipes are present in the centre of the Site**
- **Older buildings likely to contain ACM and possibly other hazardous building materials** (e.g. lead-based paint)
- There was a fire in one of the sheds around 10 years ago (roof beams). **Potential for use of PFAS-containing firefighting foams**
- **Chemical storage throughout the Site within sheds (not bunded)** in various quantities from 5 L to 1 kL IBCs. **Chemicals consist of insecticides, fertilizers, pesticides, herbicides, fuel and oils**. Safety Data Sheets (SDSs) are provided in Attachment D. There is a new temporary chemical storage arrangement in two designated, purpose-built and self-bunded shipping containers
- The head gardener occupied one of the residences until mid-2025
- **Asbestos has anecdotally been found in fill materials adjacent to the Site** (north-west); potential to extend to within the south-western Site boundary
- Stormwater reports to the stormwater pond to the south-west. The Site is connected to sewer and there are no septic tanks; and
- Demolition was in progress within the southern part of the Site. **Staining was noted on the ground** south of one of the sheds. There was an **unbunded IBC** on the western side of the shed, **presumably containing waste oil**.

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3.5 Integrity assessment

In order to confirm the findings, cross-referencing between the different information sources has been completed as far as practicable and the information presented within this SHR is considered to be generally correct, as long as the limitations in Section 1.3 are noted, and the following discrepancies between different datasets are understood:

- The boundary considered in the Enviro Pro Report (Attachment A) does not exactly align with the Site footprint. Given the buffer distance included in the Enviro Pro Report, the smaller study boundary does not change the validity of the Enviro Pro Report for the Site and hence does not alter the outcomes of this SHR. There may be discrepancies between the distances given in the Enviro Pro Report and those noted in this SHR. These differences reflect the revised Site boundary; and
- The Site address differs between the Enviro Pro Report (102 Wilson Street, Attachment A) and the Planning Property Report (112 Wilson Street, Attachment B). The street number is not material to the findings of this SHR provided the land parcel locations are accurate.

4. Summary of potential for contamination and ASS

4.1 Potential to encounter ASS

As outlined in Table 1 (Section 2):

- Areas beneath and immediately surrounding the Site are mapped as having a high (>70%) probability of occurrence of ASS; and
- Groundwater beneath the Site is mapped as being <5 m bgl (59% of the Site) and 5 to 10 m bgl (41% of the Site).

Potential ASS, if present, would be beneath the water table.

4.2 Potentially contaminating activities

PCAs, identified in this SHR as having potential to impact the Site from a contamination perspective, are listed below. Where an identified PCA is not included below, it has been dismissed in Section 3 as being unlikely to impact on the Site from a contamination perspective.

The locations of identified PCAs within and in the vicinity of the Site are shown on Figure 2.

Identified PCAs with the potential to impact the Site from a contamination perspective comprise:

- Potential for hazardous building materials in remaining buildings within the Site including asbestos, lead-based paint and PCBs in light capacitors
- Potential for asbestos in fill materials, particularly in the south-western part of the Site which is at a higher elevation
- Fill materials of unknown composition within the infilled Moonee Ponds Creek within the southern part of the Site
- Presence of at least one, and potentially two, fuel USTs in the centre of the Site
- Storage of chemicals (not banded) throughout the Site including insecticides, fertilizers, pesticides, herbicides, fuel and oils
- Storage and maintenance of equipment (e.g. tractors, whipper snippers), particularly within the mechanical workshop but also throughout the Site
- Historical market gardens and nursery activities, although associated CoPCs would be consistent with those for current onsite PCAs
- Potential for PFAS contamination from the onsite historical building fire
- Potential for groundwater contamination as a result of the former storage of fuel underground; and
- Presence of underground services which could potentially act as a conduit for any mobile contamination, if present (i.e. from the former storage of fuel underground and/or leaks from onsite underground sewerage infrastructure), to migrate beneath the Site.

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Figure 2: Potentially contaminating activities

5. Conclusions and recommendations

5.1 Conclusions

Based on the findings of this SHR and noting the limitations in Section 1.3, the following conclusions are made:

- The racetrack was established in 1883
- The Site has most recently been used as a maintenance and storage depot for the MVRC
- The proposed use (residential) is more sensitive than the current use
- The potential for contamination (in soil and/or groundwater) to be present **within / beneath** the Site is considered possible based on the onsite PCAs listed in Section 4.2
- The potential for ASS to be present within the Site is considered likely based on ASS mapping; and
- The actual risks posed by any potential contamination to human health and/or the environment from the Site during any proposed use and/or excavation works, cannot be confirmed without intrusive investigations (i.e. sampling within the Site footprint).

5.2 Recommendations

Based on the findings of this SHR and noting the limitations in Section 1.3, **development works within the Site**, must consider:

- Appropriately remove and dispose of any ACM and other hazardous building materials prior to building demolition. In Victoria, demolition of buildings containing asbestos must comply with the *Occupational Health and Safety Act 2004* and the *Occupational Health and Safety Regulations 2017 (Part 4.4 – Asbestos)*. This means asbestos must be identified, removed by licensed removalists, and disposed of at approved facilities before demolition proceeds
- Appropriate waste soils management i.e. containment of stockpiles, sampling, classification and lawful disposal (refer below)
- Decommission by removal of the known unleaded petrol UST (and potentially leaded fuel UST) in line with EPA Victoria requirements⁵ and the Australian Standard AS 4976–2008: *The removal and disposal of underground petroleum storage tanks*. This involves preparing a decommissioning plan, safely removing the tank(s), and managing contaminated soil and/or groundwater
- Relocate chemical storage to the proposed maintenance yard ensuring incompatible chemicals are segregated and all chemical containers are banded
- Relocate maintenance equipment to the proposed maintenance yard and appropriately dispose of any wastes offsite
- Complete grid sampling throughout the Site and targeted sampling in relation to identified PCAs (Section 4.2) for contamination to determine contamination status and to ensure the Site is suitable for the proposed high-density residential use. If unacceptable or potentially unacceptable risks are identified for the proposed use and excavation works, further delineation sampling may be recommended to guide any remediation works required, or a specific management plan may be required to manage identified risks to within acceptable levels

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⁵ *Victorian underground petroleum storage systems: A guide to preventing and managing leaks and spills*, Publication 1670, EPA Victoria, February 2018 (EPA Publication 1670).

- Complete sampling throughout the Site in relation to mapped ASS (Section 4.1). In Victoria, the EPA requires that investigations follow the *Industrial Waste Management Policy (Waste Acid Sulfate Soils) 1999* and guidance in EPA Publication 655.1⁶. This means a site-specific investigation must be undertaken to confirm the presence, extent, and risk of ASS before disturbance, with appropriate sampling, laboratory testing, and management plans prepared
- Develop a Construction Environmental Management Plan (CEMP) which must include measures for:
 - ASS management (if required)
 - Dust suppression
 - Waste soils management; soils to be disposed offsite will require sampling and testing in accordance with EPA Publication 1828.3⁷; soils classified under EPA Publication 1828.3 as anything other than fill materials and which are to be disposed offsite, require controlled management and disposal. They must be taken to a licenced landfill or treatment facility that is approved to accept the waste, and the EPA must be notified using the Waste Tracker system before the soils are transported
 - Sediment runoff controls
 - Any requirements for the proposed development footprint (e.g. capping, paving exposed soil surfaces) to be determined based on the level of any contamination identified; and
 - Measures for encountering unexpected contamination (e.g. ACM-containing fill, stained or odorous soils, USTs), which may include stop works, communicate with site supervisor, and the assessment of potential contamination by a qualified professional.

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⁶ *Acid sulfate soil and rock*, Publication 655.1, EPA Victoria, 2009 (EPA Publication 655.1).

⁷ *Waste disposal categories: characteristics and thresholds*, Publication 1828.3, EPA Victoria, September 2024 (EPA Publication 1828.3).

6. References

[About MVRC | The Valley](#)

Acid sulfate soil and rock, Publication 655.1, EPA Victoria, 2009 (EPA Publication 655.1)

Australian Standard AS 4976–2008: The removal and disposal of underground petroleum storage tanks, Standards Australia, 2008 (AS 4976)

Division 6 Asbestos / Hazardous Materials Audit, Moonee Valley Racing Club, Victoria, JTA Health Safety and Noise Specialists, June 2017 (2017 Hazardous Building Materials Audit)

Industrial Waste Management Policy (Waste Acid Sulfate Soils) 1999

Lotsearch Enviro Professional, 102 Wilson Street, Moonee Ponds, VIC 3039, Lotsearch Pty Ltd, 9 December 2025 (Enviro Pro Report)

Moonee Valley Racecourse Redevelopment – Waste Classification – June 2025, Rev00, pitt&sherry, 4 June 2025 (2025 Waste Classification)

MVRC Stonepipe⁸ House and Trackside House – Waste Soil Classification, Rev01, pitt&sherry, 9 September 2022 (2022 Waste Classification)

National Environment Protection (Assessment of Site Contamination) Measure 1999 amended 2013 (ASC NEPM)

Occupational Health and Safety Act 2004

Occupational Health and Safety Regulations 2017

Planning Property Report (Attachment B)

Preliminary Site Investigation, Moonee Valley Racecourse, Alpha Environmental, December 2016 (2016 PSI)

Preliminary Soil and Groundwater Contamination Assessment, Golder, December 2018 (2018 Soil and Groundwater Assessment)

Safety Data Sheets (Attachment C)

Victorian underground petroleum storage systems: A guide to preventing and managing leaks and spills, Publication 1670, EPA Victoria, February 2018 (EPA Publication 1670)

Waste disposal categories: characteristics and thresholds, Publication 1828.3, EPA Victoria, September 2024 (EPA Publication 1828.3)

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⁸ Stonepine.

7. Important information about your report

In some circumstances the scope of services may have been limited by a range of factors such as time, budget, access and/or site disturbance constraints. The Report may only be used and relied on by the Client for the purpose set out in the Report. Any use which a third party makes of this document, or any reliance on or decisions to be made based on it, is the responsibility of the Client or such third parties.

The services undertaken by pitt&sherry in connection with preparing the Report were limited to those specifically detailed in the report and are subject to the restrictions, limitations and exclusions set out in the Report. The Report's accuracy is limited to the time period and circumstances existing at the time the Report was prepared. The opinions, conclusions and any recommendations in the Report are based on conditions encountered and information reviewed at the date of preparation of the Report. pitt&sherry has no responsibility or obligation to update the Report to account for events or changes occurring after the date that the report was prepared. If such events or changes occurred after the date that the report was prepared render the Report inaccurate, in whole or in part, pitt&sherry accepts no responsibility, and disclaims any liability whatsoever for any injury, loss or damage suffered by anyone arising from or in connection with their use of, reliance upon, or decisions or actions based on the Report, in whole or in part, for whatever purpose.

In preparing the Report, pitt&sherry has relied upon data, surveys, analyses, designs, plans and other information provided by or on behalf of the Client and other individuals and organisations, most of which are referred to in the Report ("the Data"). Except as otherwise stated in the Report, pitt&sherry has not verified the accuracy, completeness, usefulness or relevance of the Data.

To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in the Report ("Conclusions") are based in whole or part on the Data, those Conclusions are contingent upon the accuracy, completeness, usefulness or relevance of the Data. pitt&sherry does not warrant the accuracy and will not be liable in relation to Conclusions should any of the Data, be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to pitt&sherry.

The opinions, conclusions and any recommendations in the Report are based on conditions encountered and information reviewed at the date of the site visit. pitt&sherry has no responsibility or obligation to update the Report to account for events or changes occurring subsequent to the date that the site visit was carried out. pitt&sherry does not accept responsibility arising from, or in connection with, any change to the site conditions. pitt&sherry is also not responsible for updating the Report if the site conditions change.

Yours sincerely,



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Carly Clark
Senior Principal Environmental Scientist, CEnvP SC 40054

Reviewed by: Fiona Keserue-Ponte, Senior Principal Environmental Scientist, CEnvP SC 41034

Enc.

- Attachment A – Enviro Pro Report
- Attachment B – Planning Property Report
- Attachment C – Site Inspection Photographs
- Attachment D – Safety Data Sheets

Enviro Pro Report

Attachment A

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LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 10 Dec 2025 16:45:28

Reference: LS112265 EP

Address: 102 Wilson Street, Mooney Ponds, VIC 3039

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.

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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
Topographic and Cadastre data	VIC Department of Energy, Environment and Climate Action	12/11/2025	11/11/2025	Monthly	-	-	-	-
Current EPA Priority Sites	Environment Protection Authority Victoria	05/12/2025	05/12/2025	Weekly	1000m	0	0	0
EPA Site Management Orders	Environment Protection Authority Victoria	24/11/2025	24/11/2025	Monthly	1000m	0	0	0
Former EPA Priority Sites & other Remedial Notices	Environment Protection Authority Victoria	08/08/2025	29/04/2025	Quarterly	1000m	0	0	5
EPA Contaminated Land Notifications	Environment Protection Authority Victoria	08/08/2025	17/04/2025	Quarterly	1000m	0	0	1
EPA PFAS Site Investigations	Environment Protection Authority Victoria	08/12/2025	19/06/2025	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Australian Department of Defence	17/11/2025	17/11/2025	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Australian Department of Defence	17/11/2025	17/11/2025	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	14/11/2025	21/05/2025	Monthly	2000m	0	0	0
Defence Controlled Areas	Australian Department of Defence	16/10/2025	16/10/2025	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Australian Department of Defence	12/11/2025	02/09/2022	Quarterly	2000m	0	0	0
National Unexploded Ordnance (UXO)	Australian Department of Defence	16/10/2025	16/10/2025	Quarterly	2000m	0	0	0
EPA Preliminary Risk Screening Assessments	Environment Protection Authority Victoria	24/11/2025	24/11/2025	Monthly	1000m	0	0	0
EPA Environmental Audit Reports	Environment Protection Authority Victoria	21/11/2025	21/11/2025	Monthly	1000m	1	1	14
EPA Groundwater Zones with Restricted Uses	Environment Protection Authority Victoria	01/12/2025	01/12/2025	Monthly	1000m	0	0	2
EPA Register of Permissions	Environment Protection Authority Victoria	07/05/2025	07/05/2025	Monthly	1000m	0	0	1
Legacy EPA Licensed Activities	Environment Protection Authority Victoria	19/07/2022	22/07/2021	Not required	1000m	0	0	0
Legacy EPA Works Approvals	Environment Protection Authority Victoria	13/12/2022	13/12/2022	Not Required	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	30/05/2025	19/01/2023	Annually	1000m	0	0	0
Statewide Waste and Resource Recovery Infrastructure Plan Facilities	Sustainability Victoria	30/04/2024	31/12/2012	None Planned	1000m	0	0	0
Legacy EPA Prescribed Industrial Waste	Environment Protection Authority Victoria	12/08/2020	12/08/2020	Not Required	1000m	0	0	2
EPA Victorian Landfill Register	Environment Protection Authority Victoria	01/12/2025	01/12/2025	Monthly	1000m	0	0	0
Former Waste Disposal Sites	Various historical sources collated by Lotsearch	15/08/2017	29/12/1998	Not required	1000m	0	0	2
Former Gasworks	Various historical sources collated by Lotsearch	15/08/2017	15/08/2017	Not required	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	28/10/2025	30/11/2022	Annually	1000m	0	0	3
Historical Business Directories (Premise & Intersection Matches)	Hardie Grant; Sands & McDougall, State Library Victoria			Not required	150m	0	24	26
Historical Business Directories (Road & Area Matches)	Hardie Grant; Sands & McDougall, State Library Victoria			Not required	150m	-	54	55
Historical Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant; Sands & McDougall, State Library Victoria			Not required	500m	0	0	3

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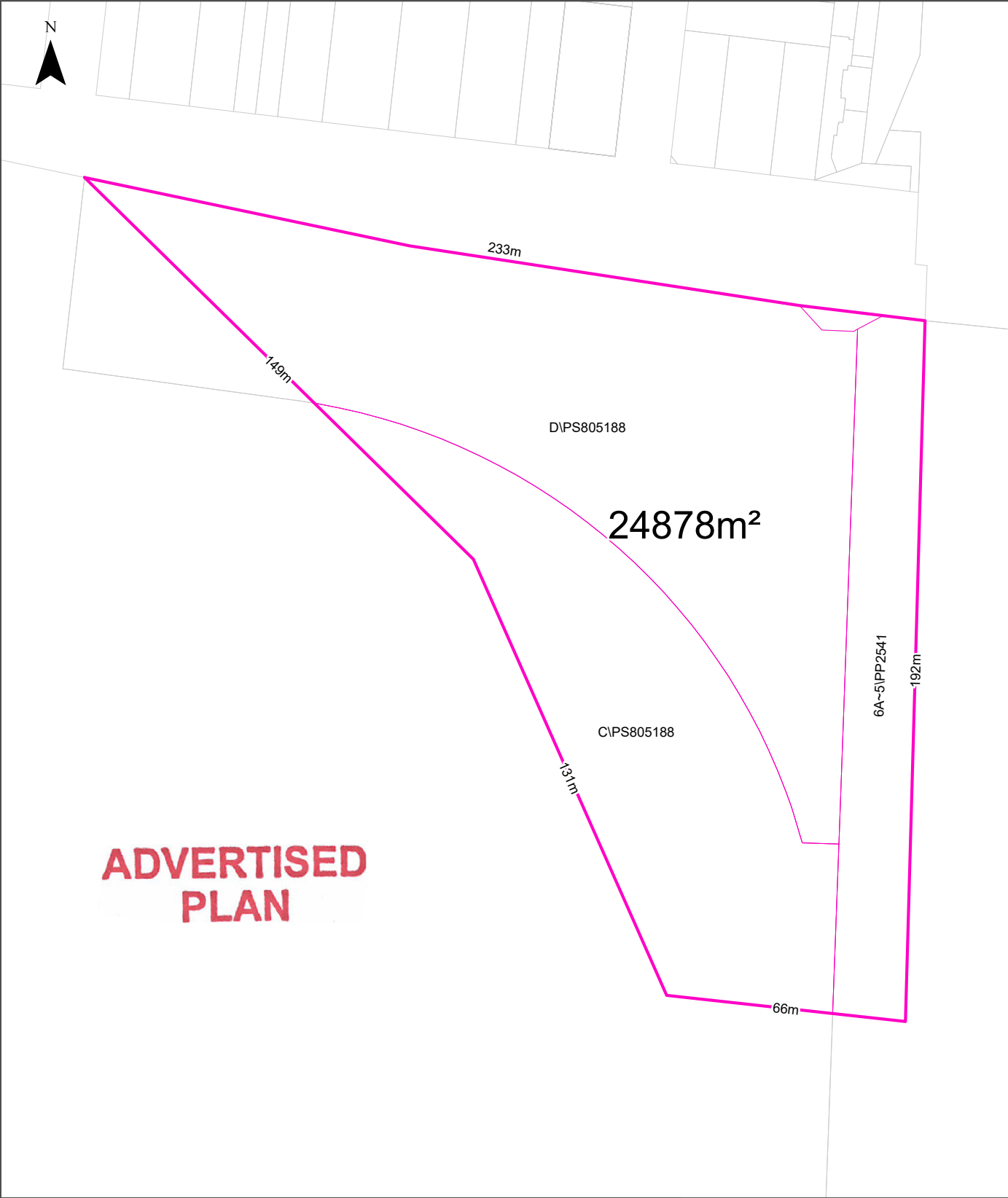
Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Historical Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant; Sands & McDougall, State Library Victoria			Not required	500m	-	23	23
Features of Interest	VIC Department of Energy, Environment and Climate Action	04/12/2025	04/12/2025	Quarterly	1000m	2	5	82
Hydrogeology Map of Australia	Geoscience Australia	22/04/2025	19/08/2019	Annually	1000m	1	1	1
Watertable Salinity	VIC Department of Energy, Environment and Climate Action	14/11/2025	14/11/2025	Quarterly	1000m	1	1	2
Depth to Watertable	VIC Department of Energy, Environment and Climate Action	02/10/2025	05/12/2014	Annually	0m	2	-	-
Surface Elevation	Centre for eResearch and Digital Innovation (CeRDI), Federation University	02/07/2025	23/09/2013	Annually	0m	1	-	-
Basement Elevation	VIC Department of Energy, Environment and Climate Action	22/08/2025	23/09/2013	Annually	0m	1	-	-
Groundwater Boreholes WMIS	VIC Department of Energy, Environment and Climate Action	15/10/2025	15/10/2025	Quarterly	2000m	1	2	491
Groundwater Boreholes Earth Resources Database	VIC Department of Jobs, Skills, Industry and Regions	30/01/2025	17/02/2010	Annually	2000m	0	0	0
Groundwater Boreholes Fed Uni	Federation University Australia	21/12/2017	07/01/2014	Annually	2000m	0	0	0
Historical Mining Activity - Shafts	VIC Department of Jobs, Skills, Industry and Regions	12/09/2025	12/09/2025	Annually	1000m	0	0	0
Geological Units 1:50,000	VIC Department of Energy, Environment and Climate Action	30/04/2025	24/06/2014	Annually	1000m	1	2	5
Geological Structures 1:50,000	VIC Department of Energy, Environment and Climate Action	30/04/2025	24/06/2014	Annually	1000m	0	0	0
Dykes and Marker Beds 50k	VIC Department of Energy, Environment and Climate Action	30/04/2025	24/06/2014	Annually	1000m	0	0	0
Shear zones 250k	VIC Department of Energy, Environment and Climate Action	30/04/2025	24/06/2014	Annually	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agricultural and Resource Economics and Sciences	15/01/2025	17/02/2011	Annually	1000m	1	1	1
Victorian Soil Type Mapping	VIC Department of Jobs, Skills, Industry and Regions	20/05/2025	24/09/2024	Annually	1000m	0	0	0
Atlas of Australian Acid Sulfate Soils	CSIRO	15/01/2025	21/02/2013	Annually	1000m	1	1	2
Coastal Acid Sulfate Soils	VIC Department of Jobs, Skills, Industry and Regions	29/04/2025	22/04/2025	Annually	1000m	0	0	2
Planning Scheme Zones	VIC Department of Energy, Environment and Climate Action	08/12/2025	07/12/2025	Monthly	1000m	4	11	81
Planning Scheme Overlay	VIC Department of Energy, Environment and Climate Action	08/12/2025	08/12/2025	Monthly	1000m	4	13	211
Commonwealth Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	28/10/2025	04/12/2014	Annually	500m	0	0	0
National Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	28/10/2025	04/12/2014	Annually	500m	0	0	0
Victorian Heritage Register	VIC Department of Energy, Environment and Climate Action	28/11/2025	28/11/2025	Quarterly	500m	0	0	0
Cultural Heritage Sensitivity	State Government Victoria - Department of Premier and Cabinet	04/12/2025	20/11/2025	Quarterly	500m	1	1	2
Bushfire Prone Area	VIC Department of Energy, Environment and Climate Action	08/12/2025	10/07/2025	Monthly	1000m	0	0	0
Fire History	State Government Victoria - Department of Energy, Environment and Climate Action	11/11/2025	15/09/2025	Monthly	1000m	0	0	0
Victorian Coastal Inundation Sea Level Rise	VIC Department of Energy, Environment and Climate Action	06/02/2025	16/11/2024	Annually	1000m	0	0	0
Native Vegetation (Modelled 2005 Ecological Vegetation Classes)	VIC Department of Energy, Environment and Climate Action	11/06/2025	11/06/2025	Annually	1000m	0	1	5
Ramsar Wetland Areas in Victoria	VIC Department of Energy, Environment and Climate Action	19/05/2025	05/03/2025	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Terrestrial	Australian Department of Climate Change, Energy, The Environment and Water	20/03/2025	19/06/2024	Annually	1000m	0	0	0

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Marine	Australian Department of Climate Change, Energy, The Environment and Water	20/03/2025	30/06/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems Atlas	Bureau of Meteorology	30/05/2025	07/05/2020	Annually	1000m	0	2	3
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	30/05/2025	07/05/2020	Annually	1000m	0	2	4

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Site Diagram

102 Wilson Street, Mooney Ponds, VIC 3039



Legend Site Boundary Internal Parcel Boundaries	Total Area: 24878m ² Total Perimeter: 771m	
	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.	
	Scale: 0 25 50 Meters	Date: 10 December 2025

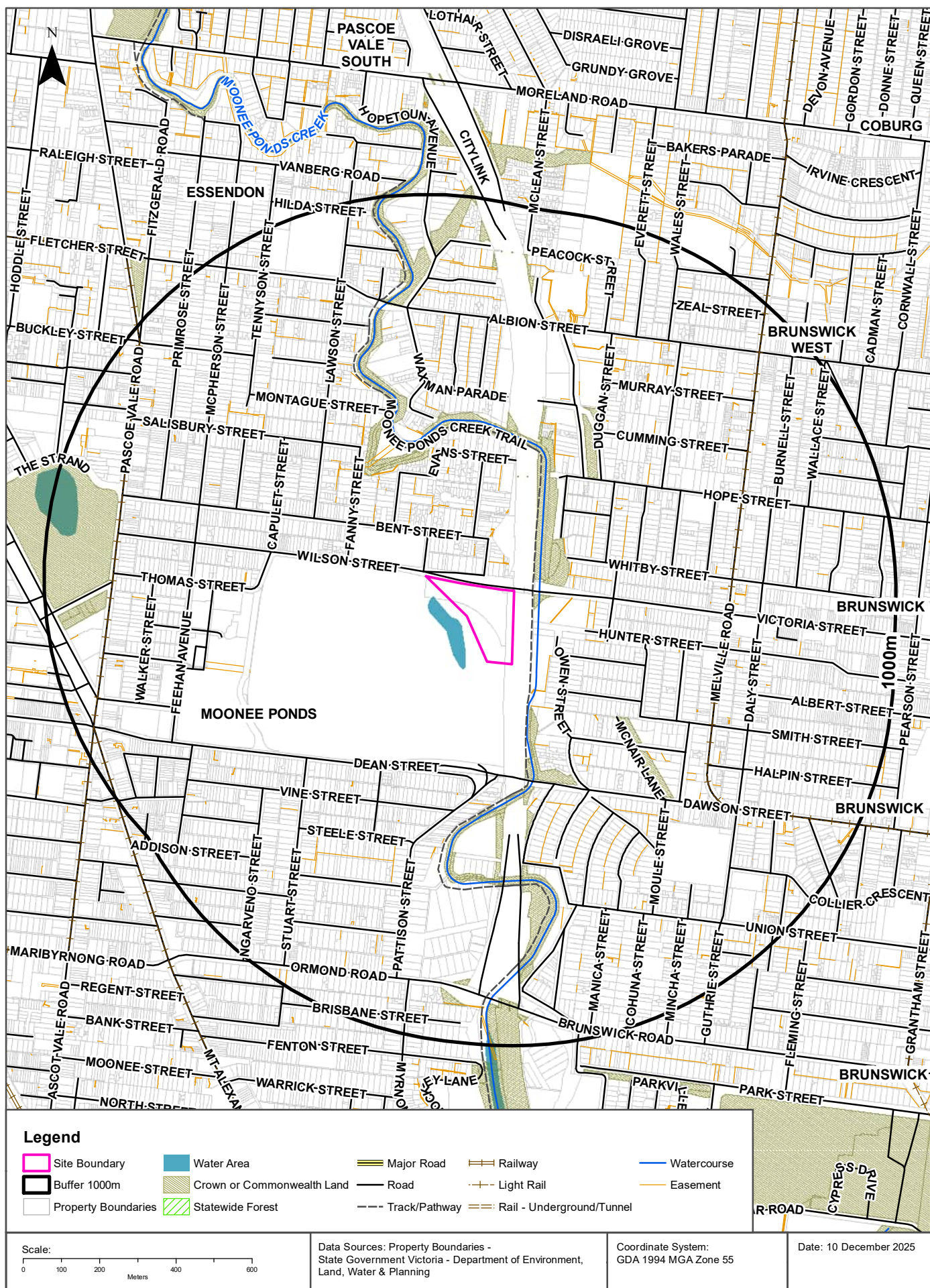
Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning

Coordinate System: GDA 1994 MGA Zone 55

Topographic Data

102 Wilson Street, Mooney Ponds, VIC 3039

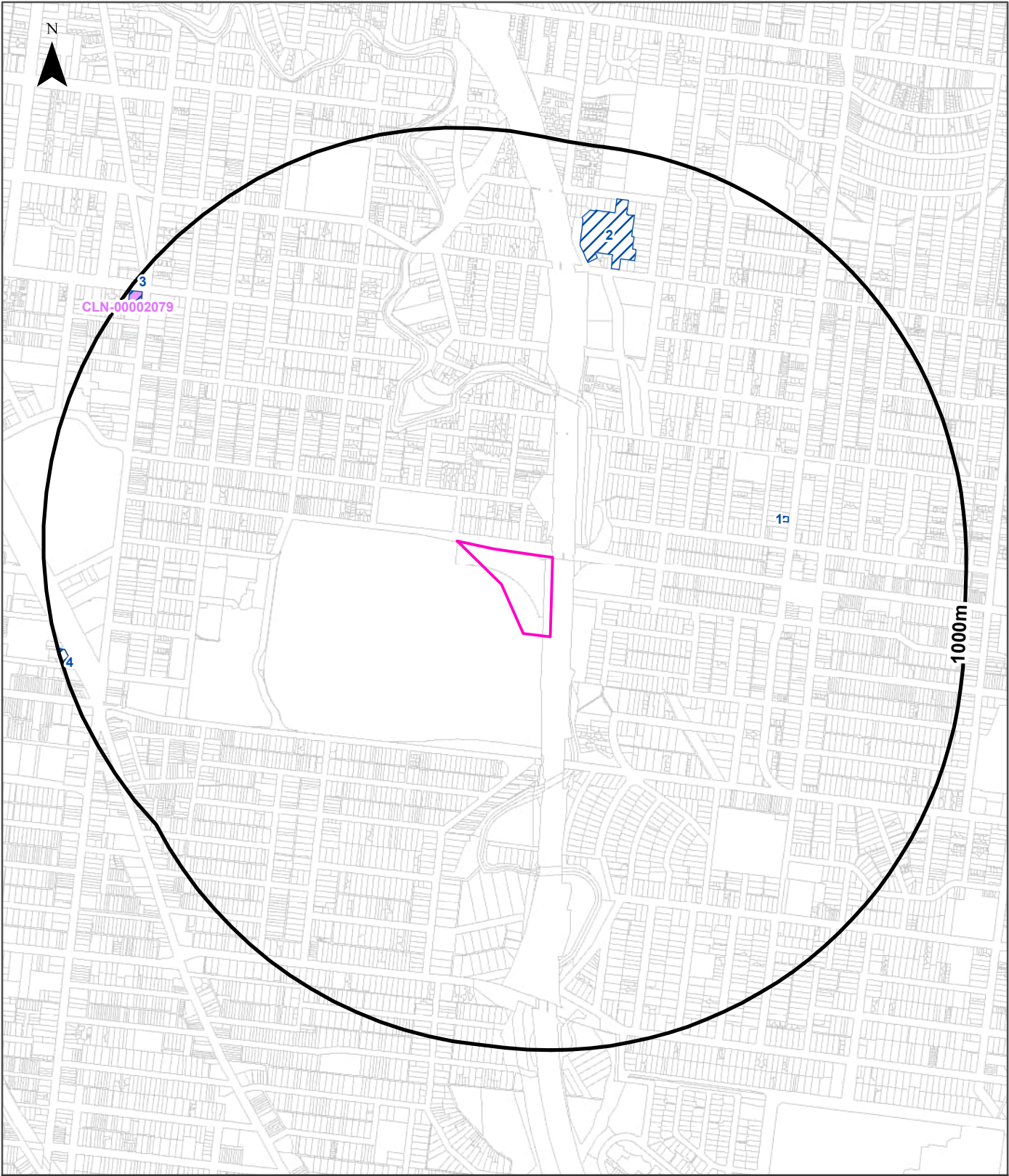
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EPA Contamination Registers & Other Pollution Notices

102 Wilson Street, Mooney Ponds, VIC 3039



Legend

	Site Boundary		Priority Sites
	Buffer 1000m		Site Mangement Orders
	Property Boundaries		Former Priority Sites & Other Pollution Notices
			Contaminated Land Notifications

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Scale: 0 100 200 400 600 Meters

Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning

Coordinate System: GDA 1994 MGA Zone 55

Date: 10 December 2025

EPA Contamination Registers & Other Pollution Notices

102 Wilson Street, Mooney Ponds, VIC 3039

Current EPA Priority Sites Register

Sites on the current EPA priority sites register that exist within the dataset buffer:

Notice No	Address	Suburb	Issue	Loc Conf	Dist (m)	Direction
N/A	No records in buffer					

Priority Sites Register Custodian: State Government Victoria - Environment Protection Authority (EPA)

Site Management Orders

Sites within the dataset buffer that have been issued a Site Management Orders:

Site Management Order ID	Issue Date	Address	Status	Loc Conf	Dist (m)	Direction
N/A	No records in buffer					

Site Management Orders Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

Former EPA Priority Sites & Other Pollution Notices

Sites within the dataset buffer that have been issued a Pollution Notice:

Note. Due to pollution notices being revoked and removed from published lists this is not an exhaustive list of all past pollution notices.

Map ID	Notice No	Notice Type	Company	Address	Suburb	Status	Issue	Date Issued	Loc Conf	Dist	Dir
1	90008762	Pollution Abatement Notice	KDR VICTORIA PTY LTD [BRUNSWICK WEST]	75B MELVILLE RD / BRUNSWICK WEST VIC 3055	BRUNSWICK WEST	Previous Pollution Notice		07/09/2018	Premise Match	554m	East
2	IMPN-00001769	Improvement Notice	KINGSTON PLANT HIRE VICTORIA PTY LTD	1 Gronn Place Brunswick West 3055	Brunswick West	Previous Pollution Notice		22/12/2021	Premise Match	713m	North
3	REV-IMPN-00007212	Improvement Notice	ON THE RUN PTY LTD	181-187 Pascoe Vale Road, Moonee Ponds, Victoria, 3039, Australia	Moonee Ponds	Current Pollution Notice		25/07/2024	Premise Match	947m	North West
4	REV-EAN-00006721	Environmental Action Notice	JET RESTAURANTS PTY LTD	655-657 Mt Alexander Road, Moonee Ponds, Victoria, 3039	Moonee Ponds	Inactive		24/04/2024	Premise Match	977m	West
	REV-IGN-00006681	Information Gathering Notice	JET RESTAURANTS PTY LTD	655-657 Mt Alexander Road, Moonee Ponds, Victoria, 3039, Australia	Moonee Ponds	Inactive		21/05/2024	Premise Match	977m	West

Pollution Notice Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

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Contaminated Land Notifications

Sites within the dataset buffer that have been notified to the EPA under Section 40 of the Environmental Protection Act 2017:

Notification No	Company	Address	Status	Type of Noification	Date Issued	Loc Conf	Dist	Dir
CLN-00002079	PEREGRINE CORPORATION PTY LTD	181-187 Pascoe Vale Road, Moonee Ponds, Victoria, 3039, Australia	Active	Contaminated Land - Section 10(1) - Groundwater contamination; Section 10(3) - Non-aqueous phase liquid	03/09/2024	Premise Match	947m	North West

Contaminated Land Notifications Custodian: State Government Victoria – Environment Protection Authority (EPA)

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PFAS Investigation & Management Programs

102 Wilson Street, Mooney Ponds, VIC 3039

EPA PFAS Site Investigations

Sites being investigated by the EPA for PFAS contamination within the dataset buffer:

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

EPA PFAS Site Investigations Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

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

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Defence Sites and Unexploded Ordnance

102 Wilson Street, Mooney Ponds, VIC 3039

Defence Controlled Areas (DCA)

Defence Controlled Areas provided by the Department of Defence within the dataset buffer:

Site ID	Location Name	Loc Conf	Dist	Dir
N/A	No records in buffer			

Defence Controlled Areas, Data Custodian: Department of Defence, Australian Government

Defence 3 Year Regional Contamination Investigation Program (RCIP)

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

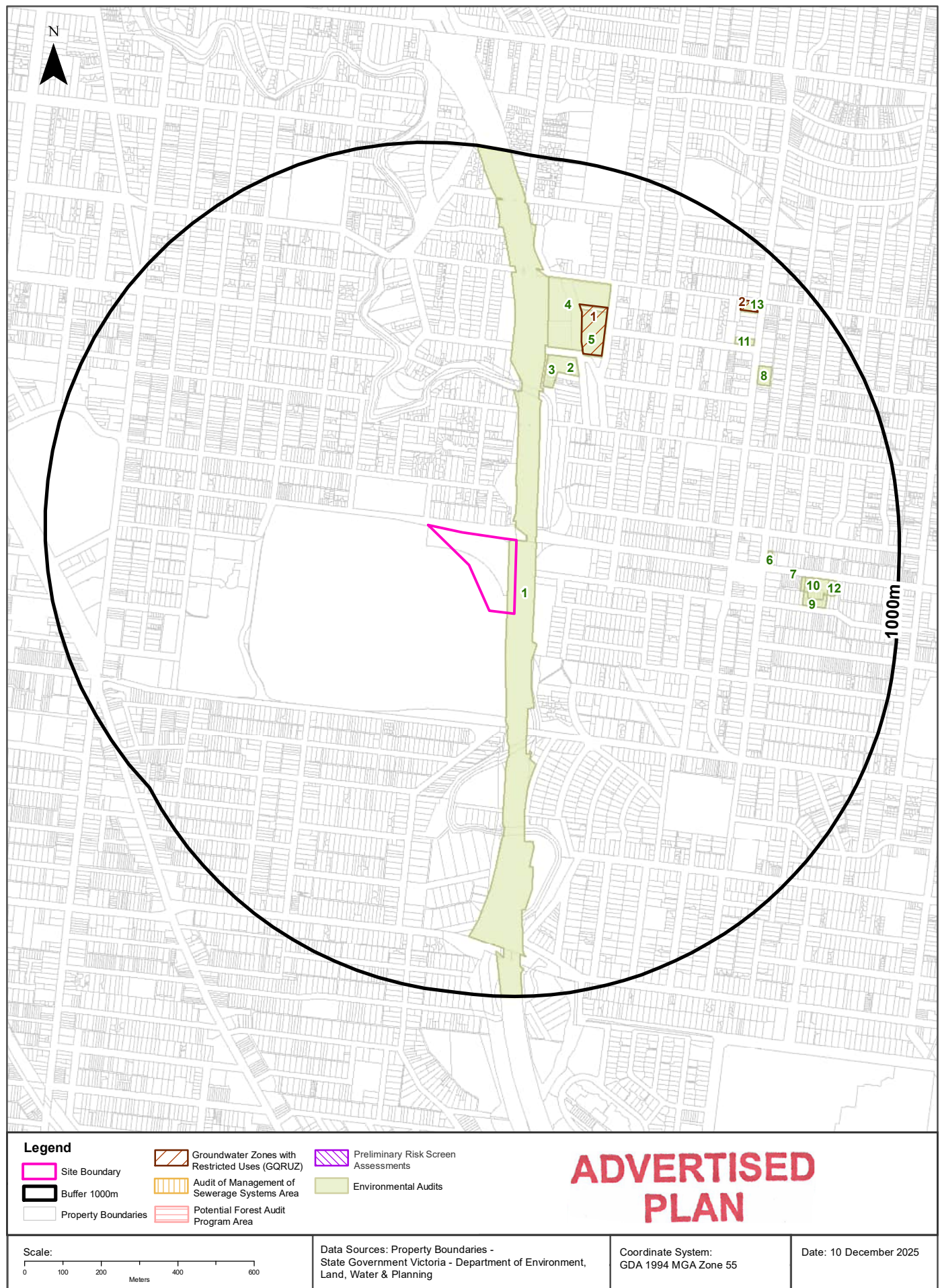
National Unexploded Ordnance (UXO)

Sites which have been assessed by the Department of Defence for the potential presence of unexploded ordnance within the dataset buffer:

Site ID	Location Name	Category	Area Description	Additional Information	Commonwealth	Loc Conf	Dist	Dir
N/A	No records in buffer							

National Unexploded Ordnance (UXO), Data Custodian: Department of Defence, Australian Government

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EPA Records

102 Wilson Street, Mooney Ponds, VIC 3039

EPA Preliminary Risk Screen Assessments

EPA Preliminary Risk Screen Assessment records that exist within the dataset buffer:

PRSA ID	Site Address	Completion Date	Attachment A	Attachment B	Attachment C	Loc Conf	Distance	Direction
N/A		No records in buffer						

Preliminary Risk Screen Assessments Audit Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

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EPA Environmental Audits

EPA environmental audit records that exist within the dataset buffer:

Note. Please click on CARMS No. to activate a hyperlink to online documentation. If link does not work, documentation may still be accessible via the EPA Interaction Portal.

Map ID	Transaction No	CARMS No	Site	Address	Suburb	Date Complete	Audit Category	Loc Conf	Dist	Dir
1	0008000688	33298-1	WESTERN LINK CITYLINK TULLAMARINE FWY WESTERN LINKPORTION MELBOURNE CITYLINK PROJECT TULLAMARINE F	WESTERN LINK CITYLINK TULLAMARINE FWY WESTERN LINKPORTION MELBOURNE CITYLINK PROJECT TULLAMARINE F	WEST MELBOURNE	3/03/1999 12:00:00 AM	53X Statement	Premise Match	0m	On-site
2	0008000228	23268-1	LOT 17 , PT LOTS 27 & 29 EGGINTON STREET	LOT 17 , PT LOTS 27 & 29 EGGINTON STREET	BRUNSWICK WEST	15/09/1994 12:00:00 AM	53X Certificate	Premise Match	410m	North
3	0008000229	23268-B	PT LOTS 27 & 29 EGGINTON STREET	PT LOTS 27 & 29 EGGINTON STREET	BRUNSWICK WEST	15/09/1994 12:00:00 AM	53X Statement	Premise Match	410m	North
4	0008002175	60040-1	408 - 502 ALBION ST AUDIT AREA 1, LOT 1,2,B, OLIVE YORK WAY AND THE CARRIAGEWAY EASEMENT ON LOT C	408 - 502 ALBION ST AUDIT AREA 1, LOT 1,2,B, OLIVE YORK WAY AND THE CARRIAGEWAY EASEMENT ON LOT C	BRUNSWICK WEST	30/04/2009 12:00:00 AM	53X Statement	Premise Match	513m	North
5	0008002176	60040-2	408 - 502 ALBION ST AUDIT AREA 2, LOT C EXCLUDING THE CARRIAGEWAY EASEMENT	408 - 502 ALBION ST AUDIT AREA 2, LOT C EXCLUDING THE CARRIAGEWAY EASEMENT	BRUNSWICK WEST	31/05/2010 12:00:00 AM	53X Statement	Premise Match	516m	North East
	0008005920	60040-3	BUILDING C 101 ,3 DUGGAN ST	BUILDING C 101 ,3 DUGGAN ST	BRUNSWICK WEST	17/11/2018 12:00:00 AM	53V No audit recommendations	Premise Match	516m	North East
6	0008001697	52001-1	523-525 VICTORIA ST	523-525 VICTORIA ST	BRUNSWICK WEST	9/06/2004 12:00:00 AM	53X Statement	Premise Match	655m	East
7	0008000829	36111-B	CERTIFICATE OF TITLE VOL.1816 FOL.109 490-492 VICTORIA ST	CERTIFICATE OF TITLE VOL.1816 FOL.109 490-492 VICTORIA ST	BRUNSWICK WEST	11/08/2004 12:00:00 AM	53X Certificate	Premise Match	744m	East
8	0008001336	45459-1	118-124 MELVILLE RD	118-124 MELVILLE RD	BRUNSWICK WEST	5/10/2001 12:00:00 AM	53X Statement	Premise Match	749m	North East
9	0008000831	36111-D	SOUTHERN BLOCK 490-492 VICTORIA STREET LOTS 8, 9, 10, 11, 12 AND AREA MARKED "COMMON PROPERTY" ON PS412559W	SOUTHERN BLOCK 490-492 VICTORIA STREET LOTS 8, 9, 10, 11, 12 AND AREA MARKED "COMMON PROPERTY" ON PS412559W	BRUNSWICK WEST	11/08/2004 12:00:00 AM	53X Certificate	Premise Match	751m	East
10	0008000828	36111-A	490-492 VICTORIA ST	490-492 VICTORIA ST	BRUNSWICK WEST	11/08/2004 12:00:00 AM	53X Statement	Premise Match	754m	East
11	0008001205	41817-1	123 MELVILLE RD	123 MELVILLE RD	BRUNSWICK	25/09/2000 12:00:00 AM	53X Statement	Premise Match	768m	North East
12	0008000830	36111-C	CERTIFICATE OF TITLE VOL.7631 FOL.017 490-492 VICTORIA ST	CERTIFICATE OF TITLE VOL.7631 FOL.017 490-492 VICTORIA ST	BRUNSWICK WEST	11/08/2004 12:00:00 AM	53X Certificate	Premise Match	814m	East
13	0008001507	48497-1	137-139 MELVILLE RD	137-139 MELVILLE RD	BRUNSWICK WEST	14/05/2003 12:00:00 AM	53X Statement	Premise Match	838m	North East

Environmental Audit Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

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EPA Groundwater Zones with Restricted Uses (GQRUZ)

EPA Groundwater Zones with Restricted Uses (GQRUZ) records that exist within the dataset buffer:

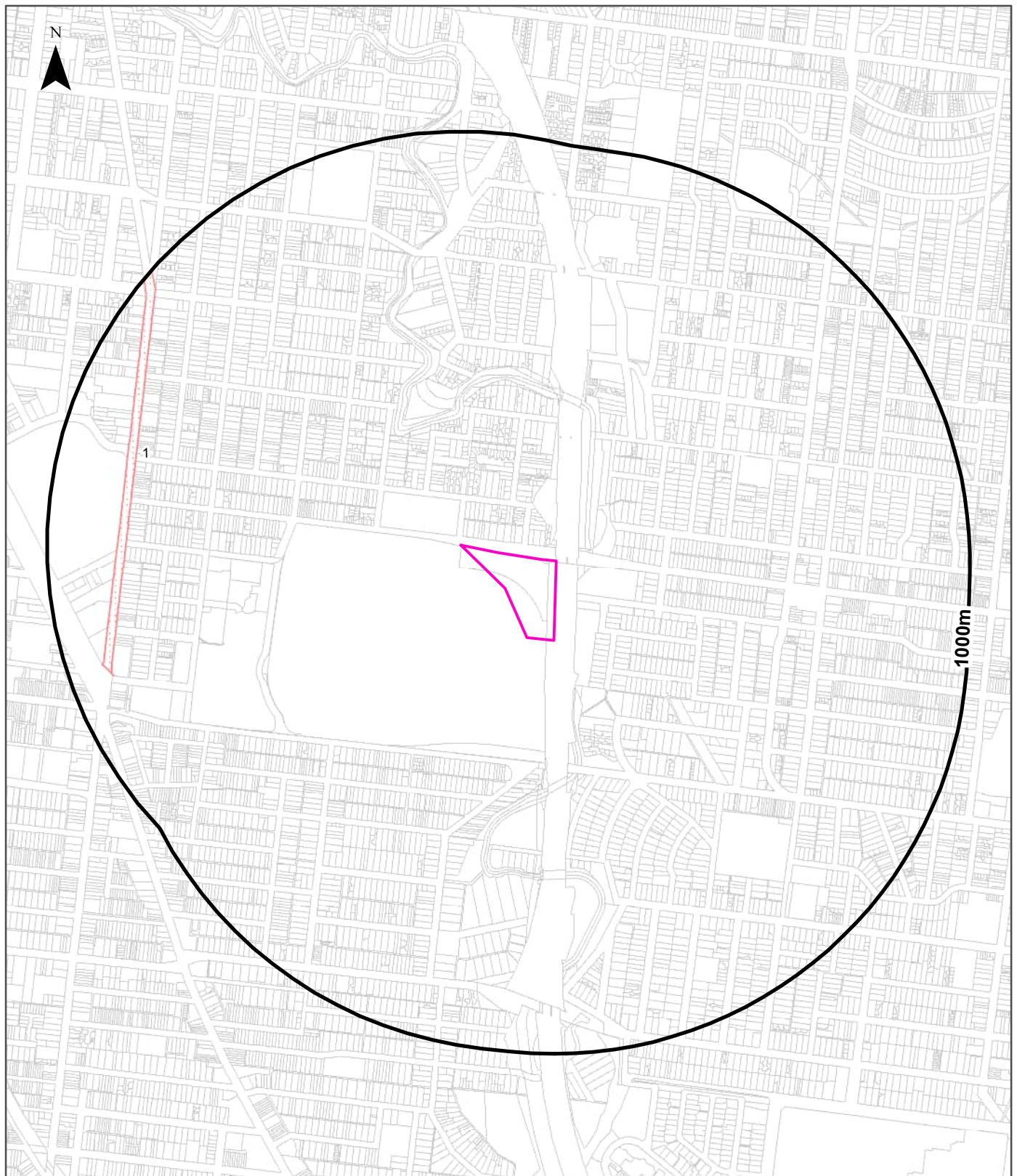
Map ID	File No	Reference No	Site History	Site Address	Restricted Uses	Status	Loc Conf	Dist	Dir
1	60040-2	7000245	Manufacturing - general	408 - 502 ALBION ST AUDIT AREA 2, LOT C EXCLUDING THE CARRIAGEWAY EASEMENT BRUNSWICK WEST VIC 3055	Drinking water Water used for industrial purposes Livestock water supply Water used for recreational purposes (e.g. swimming)	Current	As Supplied	517m	North East
2	48497-1	7000115	Service station/fuel storage	137 - 139 MELVILLE RD BRUNSWICK WEST VIC 3055	Drinking water Water used for industrial purposes Livestock water supply Water used for recreational purposes (e.g. swimming)	Current	As Supplied	840m	North East

Environmental GQRUZ Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

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EPA Activities - Register of Permissions

102 Wilson Street, Mooney Ponds, VIC 3039



Legend

- Site Boundary
- Buffer 1000m
- Register of Permissions Record
- Property Boundaries

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Scale:
0 100 200 400 600
Meters

Data Sources: Property Boundaries -
State Government Victoria - Department of Environment,
Land, Water & Planning

Coordinate System:
GDA 1994 MGA Zone 55

Date: 10 December 2025

EPA Activities

102 Wilson Street, Mooney Ponds, VIC 3039

EPA Activities - Register of Permissions

EPA Register of Permissions records that exist within the dataset buffer:

Note - Records with the following activities have been excluded:

- L05 (Operation of events outside of hours or extended operations)
- L06 (Conducting more than six outdoor concerts)

Map ID	Permission ID	Permission Type	Activity	Premise Address	Status	Issue Date	Expiry Date	Doc Link	Loc Conf	Dist (m)	Dir
1	WD000300514	Waste Designation	Non-scheduled Activity	Pascoe Vale Road Moonee Ponds 3039	Expired	08/09/2023	31/08/2024	Link	Road Match	805m	West

EPA Register of Permissions Custodian: State Government Victoria - Environment Protection Authority (EPA)
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EPA Activities

102 Wilson Street, Mooney Ponds, VIC 3039

Legacy EPA Licensed Activities

Activities licensed under the repealed *Environment Protection Act 1970 (Vic.)* within the dataset buffer:

Trans No	Licence No	Licence Type	Organisation	Premise Ref	Premise Address 1	Premise Address 2	Activities	Loc Conf	Dist (m)	Direction
N/A	No records in buffer									

Legacy Activity Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

Legacy EPA Works Approvals

Works approvals licensed under the repealed *Environment Protection Act 1970 (Vic.)* within the dataset buffer:

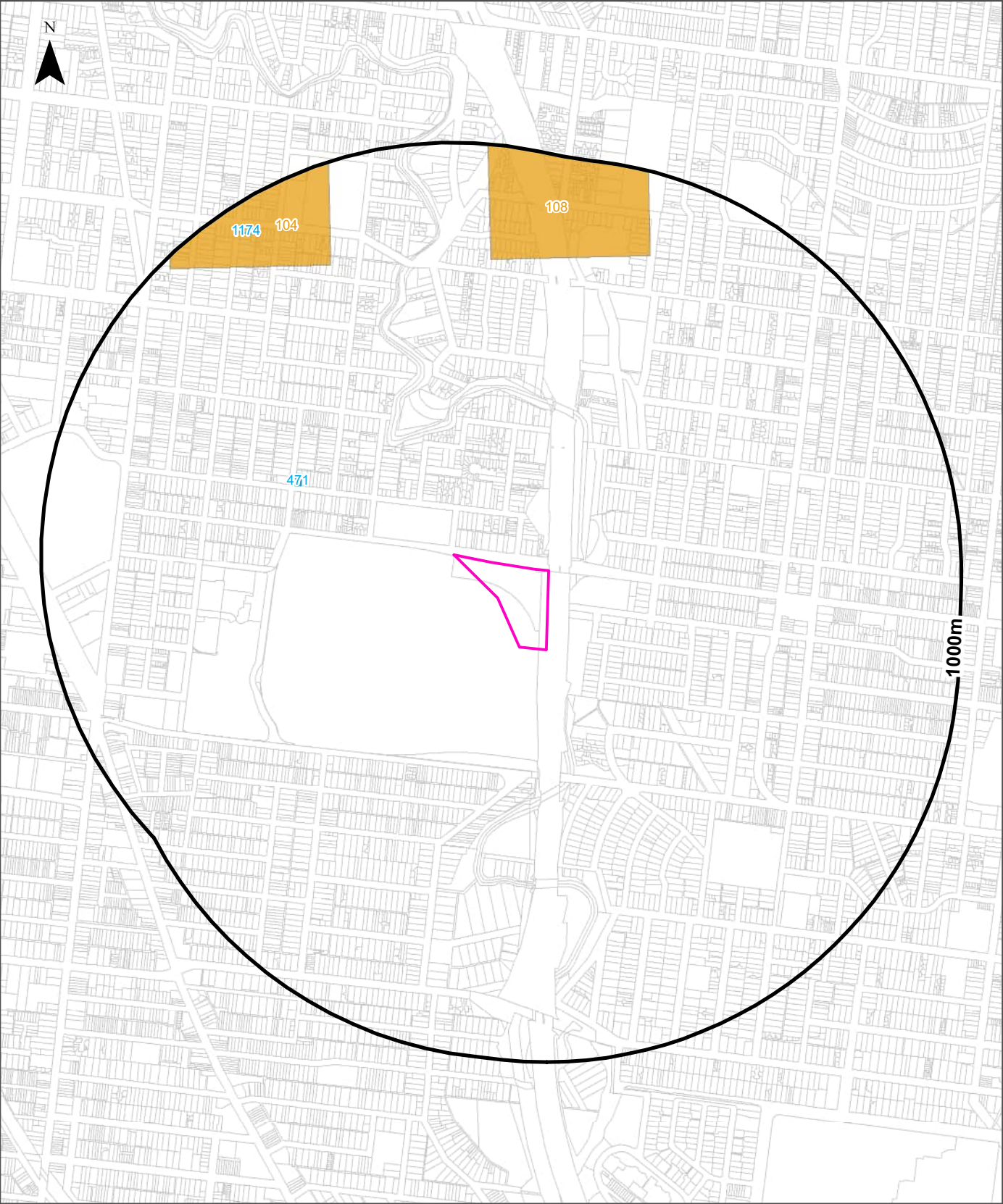
Transaction No	Status	Approval No	Organisation	Premise Address	Suburb	Scheduled Categories	Loc Conf	Dist (m)	Direction
N/A	No records in buffer								

Legacy Works Approvals Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

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Waste Management Facilities and Landfills

102 Wilson Street, Mooney Ponds, VIC 3039



Site Boundary

Report Buffer

Property Boundary

Waste Management Facilities

Statewide Waste and Resource Recovery Infrastructure Plan Facility

Legacy EPA Prescribed Industrial Waste Site

EPA Victorian Landfill Register

Area identified as Former Waste Disposal Site

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Scale:	Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning	Coordinate System: GDA 1994 MGA Zone 55	Date: 10 December 2025
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Waste Management Facilities and Landfills

102 Wilson Street, Mooney Ponds, VIC 3039

National Waste Management Facilities Database

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

Map ID	Owner	Name	Address	Management Type	Facility Type	Status	Loc Conf	Dist	Dir
N/A	No records in buffer								

Source: Waste Management Facilities Database

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Statewide Waste and Resource Recovery Infrastructure Plan Facilities

Statewide Waste and Resource Recovery Infrastructure Plan Facilities within the dataset buffer:

Map Id	Owner	Site Name	Address	Suburb	Category	Sub Category	Loc Conf	Distance	Direction
N/A	No records in buffer								

SWRRIPF Data Source: State Government Victoria - Department of Sustainability

Legacy EPA Prescribed Industrial Waste

EPA Prescribed Industrial Waste treaters, disposers and permitted transporters under the repealed *Environment Protection Act 1970 (Vic.)* within the dataset buffer:

Map Id	Company Name	Address	Suburb	Treatment /Disposal	Transport	Accredited Agent	EPA List Status	Loc Conf	Dist (m)	Dir
471	PHILIP MIFSUD	25 BENT ST	MOONEE PONDS VIC 3039	No	Yes	No	Former EPA Register Record	Premise Match	409m	North West
1174	DONKALA PTY LTD	82 MCPHERSON ST	ESSENDON VIC 3040	No	Yes	Yes	Former EPA Register Record	Premise Match	921m	North West

Legacy Prescribed Industrial Waste Data Source: State Government Victoria - Environment Protection Authority (EPA)

EPA Victorian Landfill Register

EPA Victorian Landfill Register sites within the dataset buffer:

Landfill Register No.	Site	Address	Operating Status	Est. Year Of Closure	Waste type	Loc Conf	Dist (m)	Direction
N/A	No records in buffer							

EPA Victorian Landfill Register Data Source: State Government Victoria - Environment Protection Authority (EPA)

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Former Waste Disposal sites

Former Waste Disposal sites identified from various historical sources within the dataset buffer:

Note - As this is a dataset collated from various historical sources, it is not an exhaustive list of all former waste disposal sites

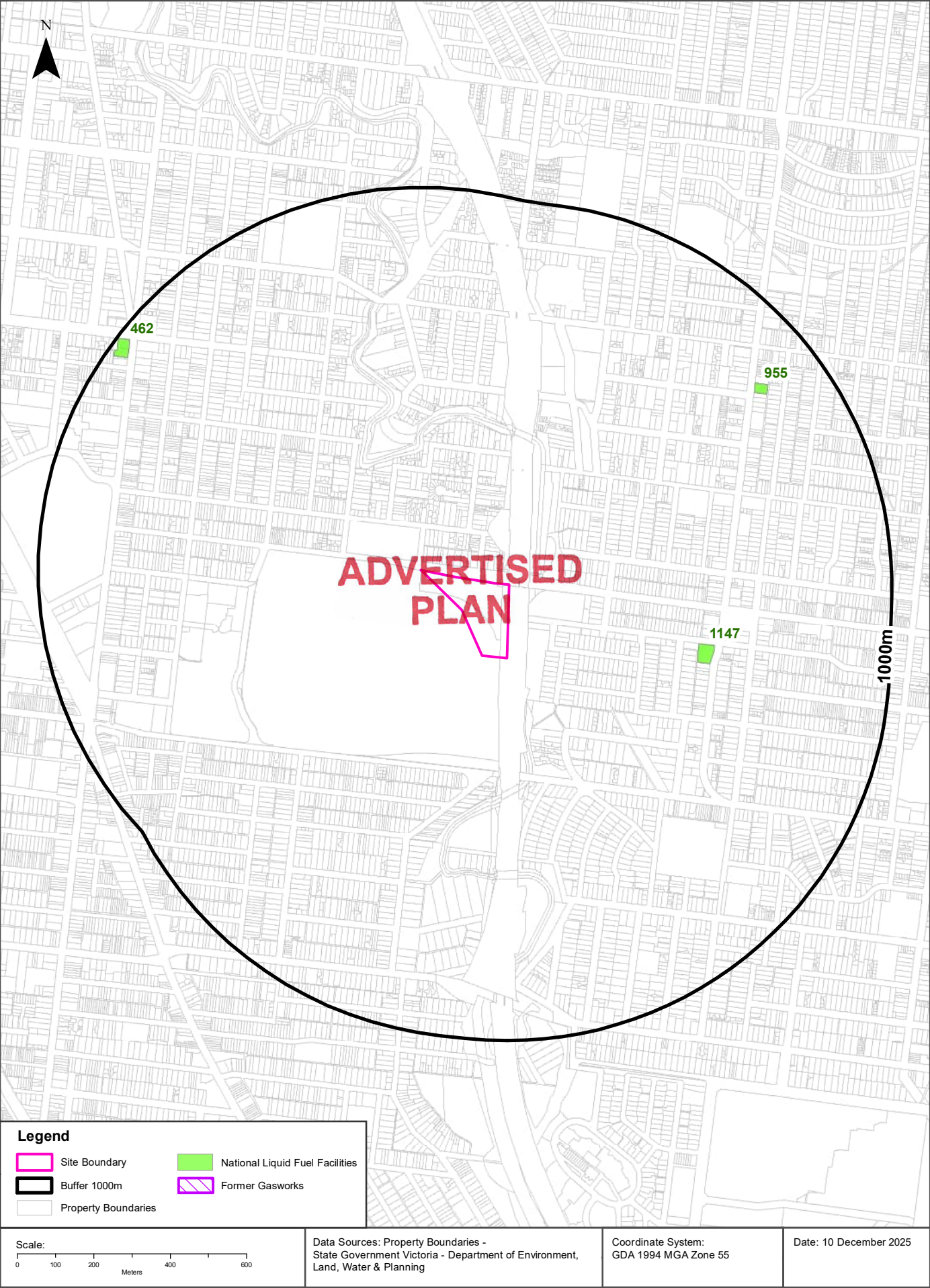
Map Id	Title	Suburb	Fill Type	Prior Use	Current Use	Start Year	Finish Year	Other Information	Melway Page	Melway Grid	Location Confidence	Dist	Direction
108	John's Reserve	Brunswick	municipal	Creek bed	reserve	1955		Next to Merri Ck. covers a MMBW drain to surrounding groundlevel	29	B4	Melway Map Grid Reference	723m	North
104	Montgomery Park	Essedon	unknown	clay pits	park			Quantity and nature of fill unknown.	28	K4	Melway Map Grid Reference	765m	North West

Former Waste Disposal Sites Data Source: Collated from various historical sources

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Former Gasworks & Liquid Fuel Facilities

102 Wilson Street, Mooney Ponds, VIC 3039



Former Gasworks and Liquid Fuel Facilities

102 Wilson Street, Mooney Ponds, VIC 3039

Former Gasworks

Former Gasworks identified from various historical sources within the dataset buffer:

Note - As this is a dataset collated from various historical sources, it is not an exhaustive list of all former Gasworks

Map Id	Site Name	Date Opened	Year Closed	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Collated from various historical sources

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 (m)	Direction
1147	7-Eleven Pty Ltd	West Brunswick	Melville Road	Brunswick	Petrol Station	Operational		13/07/2012	Premise Match	496m	East
955	United	Brunswick West Melville	134-136 Melville Road	Brunswick West	Petrol Station	Operational		25/07/2011	Premise Match	815m	North East
462	BP	BP Moonee Vale	181-183 Pascoe Vale Road	Moonee Ponds	Petrol Station	Operational		25/07/2011	Premise Match	947m	North West

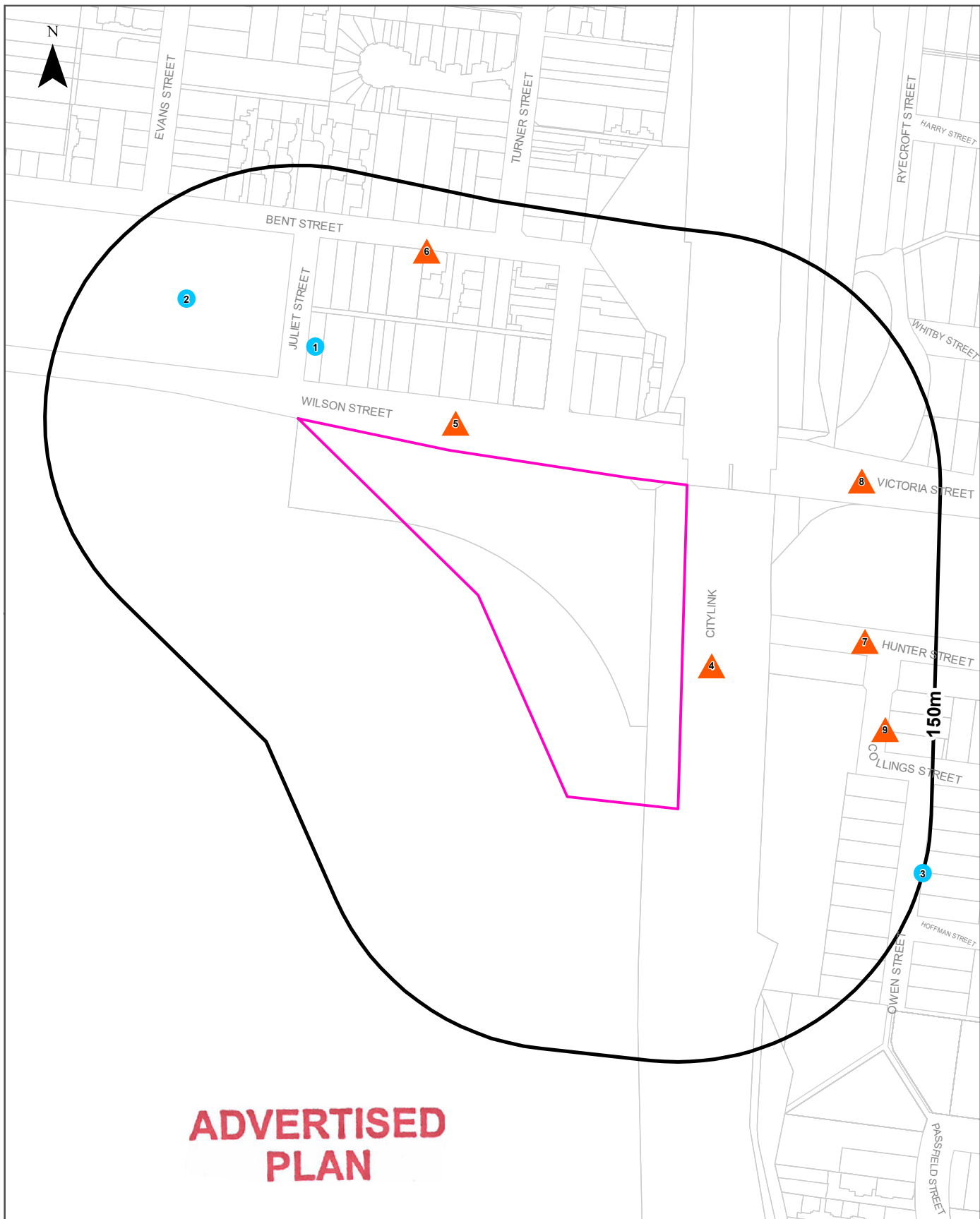
Source: Waste Management Facilities Database

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Historical Business Directories

102 Wilson Street, Mooney Ponds, VIC 3039



Legend		Scale: 0 40 80 120 160 Meters	Coordinate System: GDA 1994 MGA Zone 55
Site Boundary	Business directory records mapped to a specific premise		Date: 10 December 2025
Buffer 150m	Business directory records mapped to a road intersection	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 © State Government Victoria - Dept. of Environment, Land, Water & Planning 2025	
Property Boundary	Business directory records mapped to a road corridor		
Business directory records mapped to a general area			

Historical Business Directories

102 Wilson Street, Moonee Ponds, VIC 3039

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Business Directory Records 1896-1991 Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1984, 1980, 1977, 1974, 1965, 1960, 1950, 1945, 1925, 1905 & 1896, 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	DISINFECTANT MFRS. &/OR DISTS.	Dai Zone Products Pty. Ltd., 89 Wilson St., Moonee Ponds. 3039	121809	1974	Premise Match	23m	North West
	DYERS &/OR BLEACHERS.	Dai-Zone Products Pty. Ltd., 89 Wilson St., Moonee Ponds. 3039	123733	1974	Premise Match	23m	North West
	WELDERS-ELECTRIC &/OR OXY-ACETYLENE.	Dynamic Engineering Co. Pty. Ltd., 89 Wilson St., Moonee Ponds. 3039	187635	1974	Premise Match	23m	North West
	DYERS &/OR BLEACHERS.	Sunshine Bleach Pty. Ltd., 89 Wilson St., Moonee Ponds. 3039	123747	1974	Premise Match	23m	North West
	DISINFECTANT MFRS. & SUPPLIES	Dai-Zone Products Pty. Ltd., 89 Wilson St., Moonee Ponds	29512	1965	Premise Match	23m	North West
	DYERS, BLEACHERS & FINISHERS	Dai-Zone Products Pty. Ltd., 89 Wilson St., Moonee Ponds	31736	1965	Premise Match	23m	North West
	WELDERS-ELECTRIC & OXY-ACETYLENE	Dynamic Engineering Co. Pty. Ltd., 89 Wilson St., Moonee Ponds	101714	1965	Premise Match	23m	North West
	CHEMISTS-MFR. & WHOLESALE	Sunshine Bleach Co. Pty. Ltd., 89 Wilson St., M. Ponds	17000	1965	Premise Match	23m	North West
	DYERS, BLEACHERS & FINISHERS	Sunshine Bleach Pty. Ltd., 89 Wilson St., Moonee Ponds	31750	1965	Premise Match	23m	North West
	DYERS, BLEACHERS & FINISHERS	Dai-Zone Products Pty. Ltd., 89 Wilson St., Moonee Ponds	62816	1960	Premise Match	23m	North West
	DISINFECTANT MFRS. & SUPPLIES	Dai-Zone Products Pty. Ltd., 89 Wilson St., Moonee Ponds	60791	1960	Premise Match	23m	North West
	WELDERS-ELECTRIC & OXY-ACETYLENE	Dynamic Engineering Co. Pty. Ltd., 89 Wilson St., Moonee Ponds	29796	1960	Premise Match	23m	North West
	CHEMISTS—MFR. & WHOLESALE	Sunshine Bleach Co. Pty. Ltd., 89 Wilson St., M. Ponds	48710	1960	Premise Match	23m	North West
	DISINFECTANT MFRS. & SUPPLIES	Sunshine Bleach Co. Pty. Ltd., 89 Wilson St., M. Ponds	60813	1960	Premise Match	23m	North West
	DYERS, BLEACHERS & FINISHERS	Sunshine Bleach Pty. Ltd., 89 Wilson St., Moonee Ponds	62830	1960	Premise Match	23m	North West
	ENGINEERS-GENERAL, MECHANICAL & MANUFACTURING	Barker Engineering Co. Pty. Ltd., 89 Wilson St., Moonee Ponds	29788	1950	Premise Match	23m	North West
	ENGINEERS-GENERAL, MECHANICAL & MANUFACTURING	Dynamic Engineering Co. Pty. Ltd., 89 Wilson St., Moonee Ponds	29931	1950	Premise Match	23m	North West
	WELDERS-ELECTRIC & OXY-ACETYLENE	Dynamic Engineering Co. Pty. Ltd., 89 Wilson St., Moonee Ponds	79959	1950	Premise Match	23m	North West
	Engineers-General	Georges T1 & Engnrg, 89 Wilson-st, M. Pds., W.4	40249	1945	Premise Match	23m	North West
2	SCHOOLS &/OR COLLEGES.	Moonee Ponds Central School., Wilson St., Moonee Ponds. 3039	175416	1974	Premise Match	27m	North West
	SCHOOLS, COLLEGES, ETC.	Moonee Ponds Central School., Wilson St., Moonee Ponds	88934	1965	Premise Match	27m	North West
	SCHOOLS, COLLEGES, ETC.	Moonee Ponds Central School, Wilson St., Moonee Ponds	17799	1960	Premise Match	27m	North West
	SCHOOLS, COLLEGES, ETC.	Moonee Ponds Central School, Wilson St., Moonee Ponds	70419	1950	Premise Match	27m	North West
	Schools And Colleges	State Schools-M.Pds., W.4, Wilson-st	32941	1945	Premise Match	27m	North West
3	BUILDERS & BUILDING CONTRACTORS	Court, W., 10 Owen St., West Brunswick	143111	1950	Premise Match	150m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
3	BUILDERS & BUILDING CONTRACTORS	Court, W., 10 Owen St., West Brunswick	8570	1950	Premise Match	150m	South East

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Business Directory Records 1896-1991 Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1984, 1980, 1977, 1974, 1965, 1960, 1950, 1945, 1925, 1905 & 1896, 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
4	MARKET GARDENERS	Bullen, A. P., 22 Shelley St., Moonee Ponds	53246	1950	Road Match	0m
5	SEEDSMEN & NURSERYMEN	Wright's, James, Valley Nurseries, Wilson St., Moonee Ponds	71254	1950	Road Match	0m
	Nurserymen	Valley, Wilson-st, M. Pds., W.4	31360	1945	Road Match	0m
	Tennis Courts	Wilson-St, M. Pds, W.4	34419	1945	Road Match	0m
	NURSERYMEN	Wriglit James. Wilson-St. M. Pds.	392323	1925	Road Match	0m
6	DAMP COURSE MANUFACTURERS	Kubl T. P., 63 Bent-Sl., Moonee Ponds	58687	1960	Road Match	32m
	CONFECTIONERS	Musson Mrs E Bent st e M.Pds.	393158	1925	Road Match	32m
	BLACKSMITHS	Warlce A Bent st e M. Pds.	367292	1925	Road Match	32m
7	COAL AND WOOD YARDS	Bean A. B., Hunter St West Bk.	161530	1905	Road Match	65m
	CARRIAGE, COACH, AND WAGGON BUILDERS AND DEALERS	Poulsen Paul Hunter St West Bk.	25444	1896	Road Match	65m
8	Safety Equipment Mfrs &/or Dists	Hemco Industries, Victoria St Brunswick West 3055	48142	1991	Road Match	66m
	Motor Garages & Service Stations	Shell Oil Brunswick West., Victoria St. Brunswick West. 3055	3656	1991	Road Match	66m
	MOTOR' GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Shell Oil Brunswick West., Victoria St., Brunswick West.3055	44882	1984	Road Match	66m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Shell Oil Brunswick West, Victoria St., Brunswick West.	1752	1980	Road Match	66m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Shell Oil Brunswick West., Victoria St., West Brunswick.3055	25811	1977	Road Match	66m
	MOTOR SERVICE STATIONS - PETROL, OIL.	Shell Oil Brunswick West, Victoria St., 3056	160335	1974	Road Match	66m
	MOTOR SERVICE STATIONS- PETROL, ETC.	Shell Oil Co. (Aust.) Ltd., Victoria St., Brunswick West	72700	1965	Road Match	66m
	DISPENSARIES	Brunswick, 30 Victoria St., West Brunswick	60821	1960	Road Match	66m
	SOAP, CANDLE, TALLOW & GLYCERINE MANUFACTURERS	Growdridge's Eucalyptus Soap Co., 22 Victoria St., West Brunswick	20475	1960	Road Match	66m
	AMUSEMENT MACHINES	Juke Boxes (Wilding & Porter Pty. Ltd.), 10-12 Victoria St., West Brunswick	33114	1960	Road Match	66m
	BUILDERS AND BUILDING CONTRACTORS BRUNSWICK WEST	Littlejohn, D., 131 Victoria St., West Brunswick	40230	1960	Road Match	66m
	TAXI PROPRIETORS	Rowe, E. W., 79 Victoria St., West Brunswick	24275	1960	Road Match	66m
	BURGLAR PROTECTIVE SYSTEMS	Scientific Alarms Co., 190 Victoria St., West Brunswick	42446	1960	Road Match	66m
	FURNITURE MFRS. & WHLSRS.	Wilding & Porter, 10-12 Victoria St., West Brunswick	77400	1960	Road Match	66m
	BABY HEALTH CENTRES	Brunswick West, Victoria St.	3913	1950	Road Match	66m
	BUILDERS & BUILDING CONTRACTORS	Littlejohn, D., 131 Victoria St., West Brunswick	9091	1950	Road Match	66m

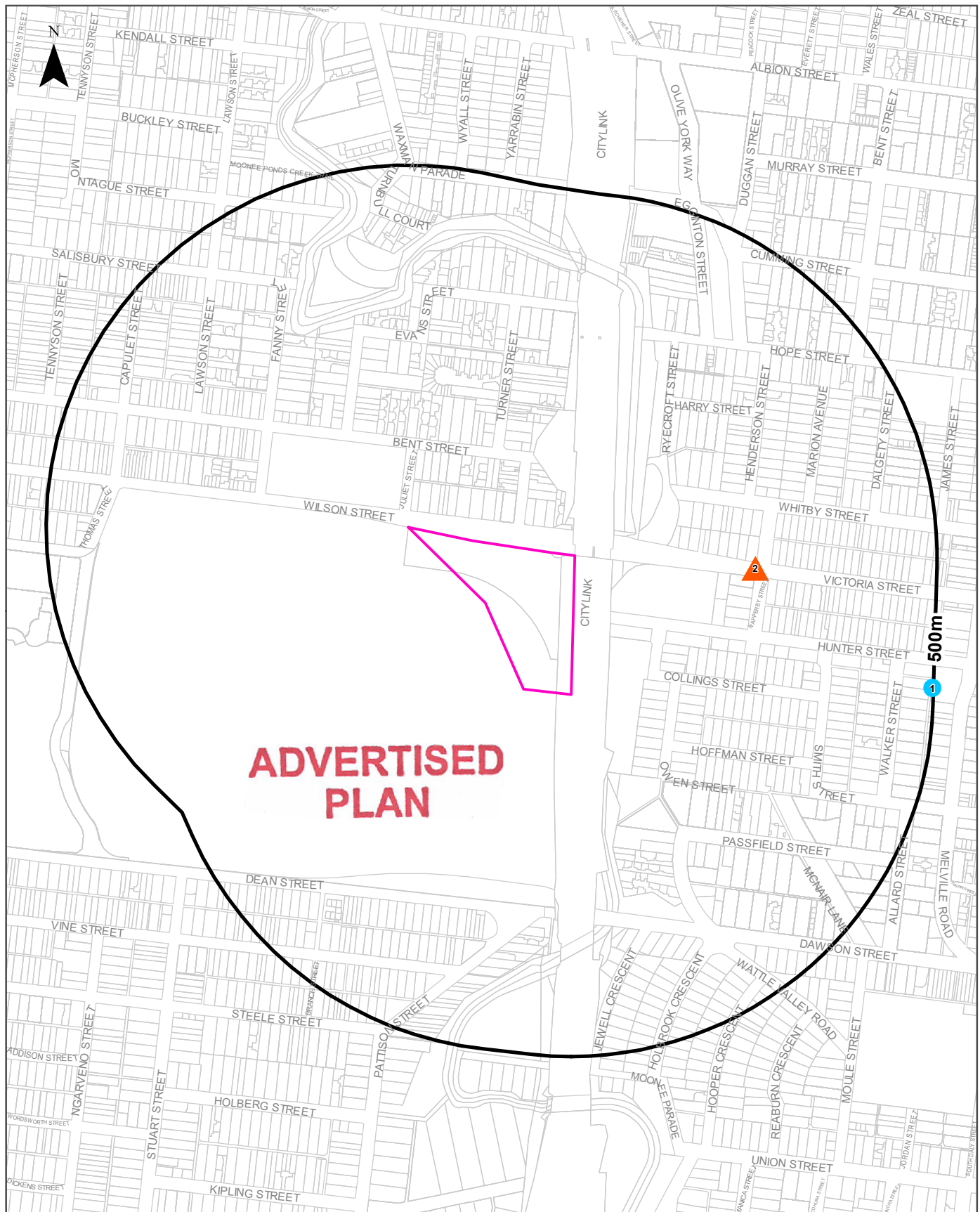
Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
8	KNITTED GOODS-MANUFACTURERS & KNITTING MILLS	Wonderwear Knitwear, 188a Victoria St, West Brunswick	141609	1950	Road Match	66m
	KNITTED GOODS-MANUFACTURERS & KNITTING MILLS	Wonderwear Knitwear, 188a Victoria St., West Brunswick	49734	1950	Road Match	66m
	Plumbers and Gasfitters	Henshall, A. J., 216 Victoria-st w, Bwick W.,N12	35814	1945	Road Match	66m
	Boot and Shoe Repairers	Johnson, C. W., 228 Victoria-st w, Bwick W.,N.12	35676	1945	Road Match	66m
	Pottery Manufacturers	Melb. Pottery Co., Victoria-st w, Bwick, N.10	43862	1945	Road Match	66m
	Dairy Produce-Retail	Merrigan, F., 224 Victoria-st, Bwick W., N.12	23895	1945	Road Match	66m
	Dentists	Snelling, J. M., Victoria-st w, Bwick, N.10	35730	1945	Road Match	66m
	Schools And Colleges	State Schools-Bwick W., N.12, Victoria-st w	35819	1945	Road Match	66m
	DAIRYMEN & MILK VENDORS	Duncan H. M 312 Victoria st w B'wick	367517	1925	Road Match	66m
	POTTERIES, STONEWARE, AND PIPE MAKERS	Melb. Pottery Co Victoria-St W Bk	553291	1925	Road Match	66m
	SAW MILLERS	Mitchell T & Co Pty Ltd . 142 Victoria-St W B'Wick.	395192	1925	Road Match	66m
	BRUSH & BROOM MANUFACTURERS AND IMPORTERS	Victorian Broom Co Pty Ltd 178-182 Victoria St, Brunswick West	361698	1925	Road Match	66m
	HOSPITALS (PUBLIC)	Eye & Ear Hosp., 455 Victoria Pgr	209279	1905	Road Match	66m
	BOOT AND SHOE MANUFACTURERS & IMPORTERS	Jepson T., Victoria St W Bk.	203289	1905	Road Match	66m
	BRICK MAKERS	Littlejohn Bros., Victoria St W Bk.	161529	1905	Road Match	66m
	COAL AND WOOD YARDS	Mccormack M., Victoria St W Bk.	161531	1905	Road Match	66m
	POTTERIES, STONEWARE. AND PIPE MAKERS	Melbourne Pottery Co Evans J. P. Mgr., Victoria St W Bk.	203297	1905	Road Match	66m
	ENGINEERS-MARINE	Micwilliam T., Victoria St W Bk.	203294	1905	Road Match	66m
	POTTERIES, STONEWARE. AND PIPE MAKERS	Mills J & Co., Victoria St W Bk.	203298	1905	Road Match	66m
	CONFECTIONERS & PASTRYCOOKS	Sandmann A., Victoria St W Bk.	182302	1905	Road Match	66m
	CONFECTIONERS & PASTRYCOOKS	Whitehead Mrs S., . Victoria St W Bk.	182303	1905	Road Match	66m
	BUTCHERS AND MEAT SALESMEN	Wright W. J., Victoria St W Bk.	182300	1905	Road Match	66m
	CONFECTIONERS AND PASTRYCOOKS	Biggs Mrs Sarah Victoria St W Bk.	25787	1896	Road Match	66m
	STORES - GENERAL	Bosanko John Victoria St West Bk.	28544	1896	Road Match	66m
	WATCHMAKERS AND JEWELLERS	Cohen, B., 301 Victoria St. W,	16892	1896	Road Match	66m
	TILE MAKERS	Hoffman's Patent Steam Brick And Tile Co Ltd, Victoria St West, Bk.	28753	1896	Road Match	66m
	BUTCHERS AND MEAT SALESMEN	Marshall Thomas Victoria St W Bk.	25250	1896	Road Match	66m
	BOOT AND SHOE MAKERS AND DEALERS	Stephenson, Wm., Victoria St W, Bk.	25031	1896	Road Match	66m
9	NURSES	Taylor Mrs L . Collings-St. Bwk.	392332	1925	Road Match	104m

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Dry Cleaners, Motor Garages & Service Stations

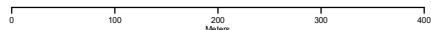
102 Wilson Street, Mooney Ponds, VIC 3039



Legend

- Site Boundary
- Buffer 500m
- 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 55

Date: 10 December 2025

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Historical Business Directories

102 Wilson Street, Mooney Ponds, VIC 3039

Dry Cleaners, Motor Garages & Service Stations Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from Sands & McDougall's Directories (1925, 1945) and UBD Business Directories (1948-1992), mapped to a premise or road intersection, within the dataset buffer. As spatial coverage varies between directory editions, this table may not include every year in the dataset.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTOR GARAGES & SERVICE STATIONS.	Seven Eleven Store, 31 Melville Rd., West Brunswick. 3055	6465	1988	Premise Match	496m	East
	MOTOR SERVICE STATIONS - PETROL, OIL.	Caltex Oil Brunswick West, Cnr. Melville Rd. & Hunter St., 3055	159404	1974	Premise Match	496m	East
	MOTOR SERVICE STATIONS, PETROL, ETC.	Caltex Oil (Australia) Pty. Limited., Cnr. Melville Rd. & Hunter St., Brunswick West	71780	1965	Premise Match	496m	East

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Dry Cleaners, Motor Garages & Service Stations Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from Sands & McDougall's Directories (1925, 1945) and UBD Business Directories (1948-1992), mapped to a road or an area within the dataset buffer. As spatial coverage varies between directory editions, this table may not include every year in the dataset. 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 GARAGES AND SERVICE STATIONS.	Shell Oil Brunswick West, Victoria St., Brunswick West. 3055	32310	1992	Road Match	66m
	Motor Garages & Service Stations	Shell Oil Brunswick West., Victoria St. Brunswick West. 3055	3656	1991	Road Match	66m
	MOTOR GARAGES & SERVICE STATIONS.	Shell Oil Brunswick West, Victoria St., Brunswick West. 3055.	25774	1990	Road Match	66m
	MOTOR GARAGES & SERVICE STATIONS	Shell Oil Brunswick West, Victoria St., Brunswick West. 3055.	15835	1989	Road Match	66m
	MOTOR GARAGES & SERVICE STATIONS.	Shell Oil Brunswick West, Victoria St., Brunswick West. 3055	6537	1988	Road Match	66m
	MOTOR GARAGES & SERVICE STATIONS.	Shell Oil Brunswick West, Victoria St., Brunswick West. 3055.	66399	1986	Road Match	66m
	MOTOR' GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Shell Oil Brunswick West., Victoria St., Brunswick West.3055	44882	1984	Road Match	66m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Shell Oil Brunswick West, Victoria St., Brunswick West 3055	46998	1982	Road Match	66m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Shell Oil Brunswick West, Victoria St., Brunswick West.	1752	1980	Road Match	66m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Shell Oil Brunswick West, Victoria St., Brunswick West 3055	36846	1979	Road Match	66m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Shell Oil Brunswick West, Victoria St., West Brunswick 3055	27106	1978	Road Match	66m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Shell Oil Brunswick West., Victoria St., West Brunswick.3055	25811	1977	Road Match	66m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Shell Brunswick West., Victoria St., West Brunswick 3055	19123	1976	Road Match	66m
	MOTOR SERVICE STATIONS - PETROL, OIL.	Shell Brunswick West, Victoria St., Brunswick West 3055	9429	1975-76	Road Match	66m
	MOTOR SERVICE STATIONS - PETROL, OIL.	Shell Oil Brunswick West, Victoria St., 3056	160335	1974	Road Match	66m
	MOTOR SERVICE STATIONS- PETROL, OIL.	Shell Oil, Brunswick West Victoria St., 3055	52245	1972	Road Match	66m
	MOTOR SERVICE STATIONS-PETROL, ETC.	Shell Oil Co. (Aust.) Ltd., Victoria St., Brunswick West	39455	1971	Road Match	66m
	MOTOR SERVICE STATIONS, PETROL, ETC.	Shell Oil Co. (Aust.) Ltd., Victoria St., Brunswick West.,	24362	1969	Road Match	66m
	MOTOR SERVICE STATIONS, PETROL, ETC.	Shell Oil Co. (Aust.) Ltd., Victoria St., Brunswick West	13281	1968-69	Road Match	66m
	MOTOR SERVICE STATIONS—PETROL, ETC.	Shell Oil Co. (Aust.) Ltd., Victoria St., Brunswick West	4839	1967	Road Match	66m
	MOTOR SERVICE STATIONS, PETROL, ETC.	Shell Oil Co. (Aust.) Ltd., Victoria St., Brunswick West	62335	1966-67	Road Match	66m
	MOTOR SERVICE STATIONS, PETROL, ETC.	Shell Oil Co. (Aust.) Ltd., Victoria St., Brunswick West	48787	1966	Road Match	66m
	MOTOR SERVICE STATIONS-PETROL, ETC.	Shell Oil Co. (Aust.) Ltd., Victoria St., Brunswick West	72700	1965	Road Match	66m

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Scale: 0 30 60 90 120 Meters	Data Source Aerial Imagery: © 2025 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.	Coordinate System: GDA 1994 MGA Zone 55	Date: 08 December 2025
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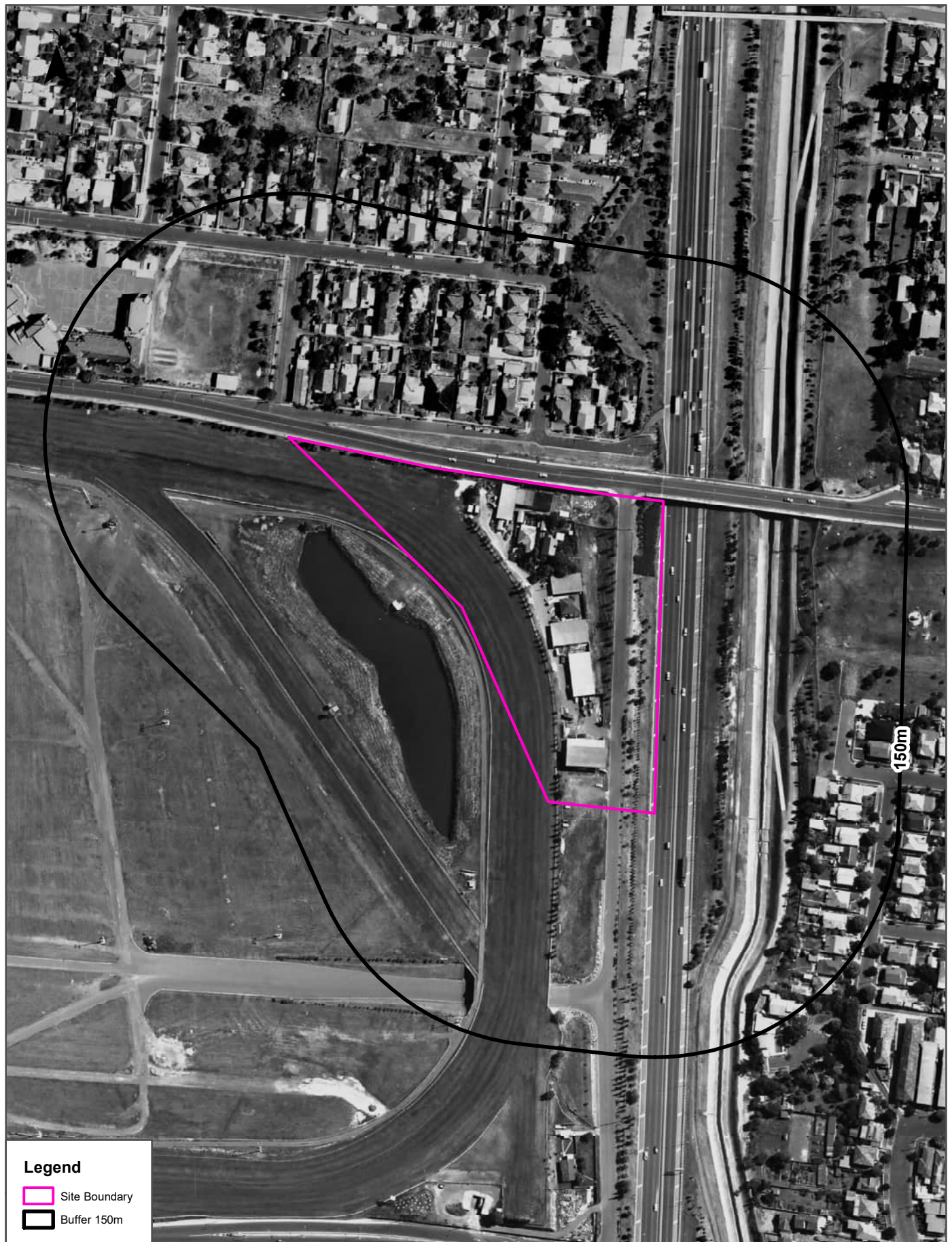


Scale: 0 30 60 90 120 Meters	Data Source Aerial Imagery: © Department of Environment, Land, Water and Planning (Vicmap Topographic Mapping Program)	Coordinate System: GDA 1994 MGA Zone 55	Date: 08 December, 2025
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Aerial Imagery 1984

102 Wilson Street, Mooney Ponds, VIC 3039

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Scale:

0 100
Meters

Data Source Aerial Imagery: © Department of Environment, Land, Water and Planning (Vicmap Topographic Mapping Program) and Photomapping Services

Coordinate System:
GDA 1994 MGA Zone 55

Date: 08 December 2025

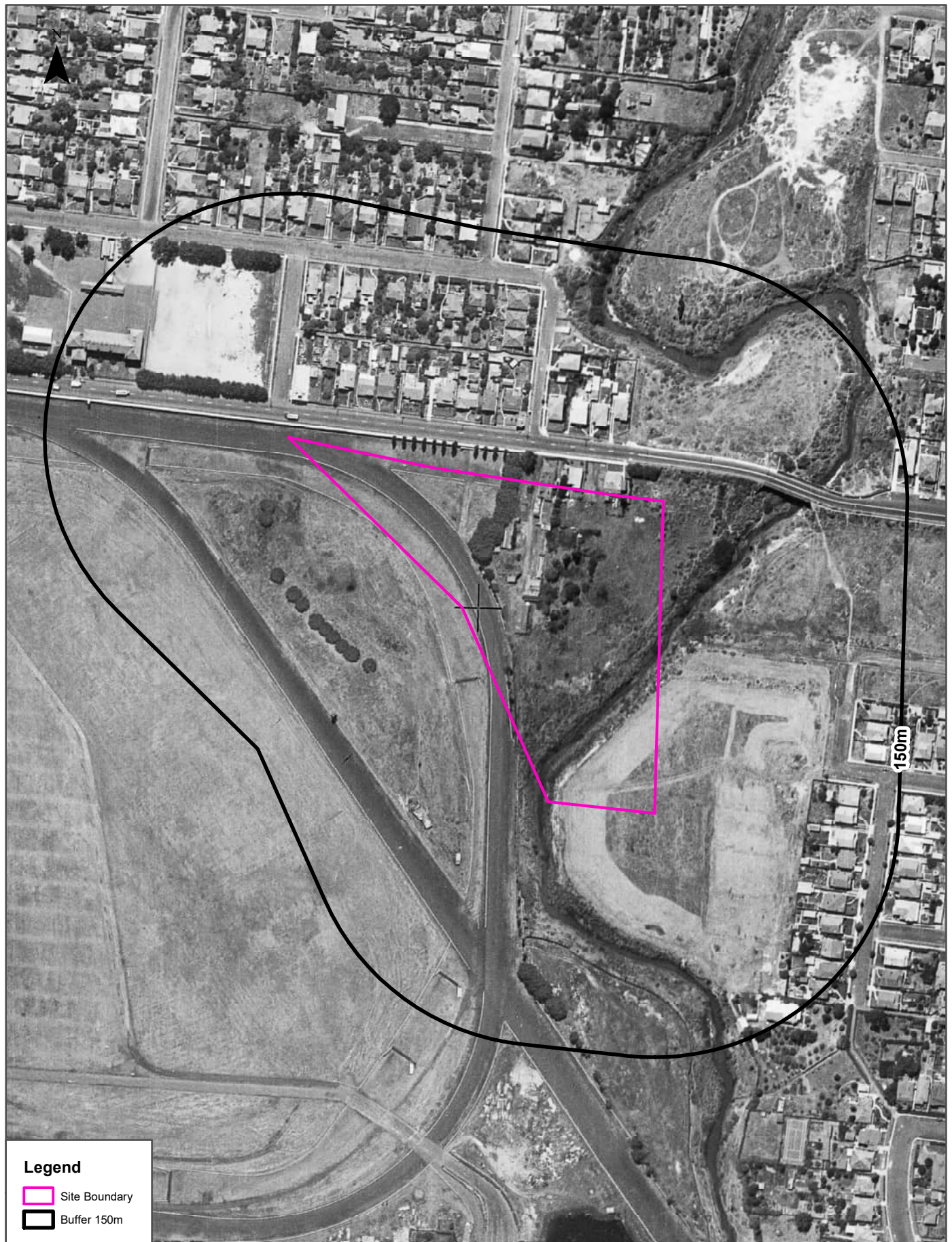


Scale: 0 30 60 90 120 Meters	Data Source Aerial Imagery: © Department of Environment, Land, Water and Planning (Vicmap Topographic Mapping Program)	Coordinate System: GDA 1994 MGA Zone 55	Date: 08 December, 2025
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Scale: 0 30 60 90 120 Meters	Data Source Aerial Imagery: © Department of Environment, Land, Water and Planning (Vicmap Topographic Mapping Program)	Coordinate System: GDA 1994 MGA Zone 55	Date: 08 December, 2025
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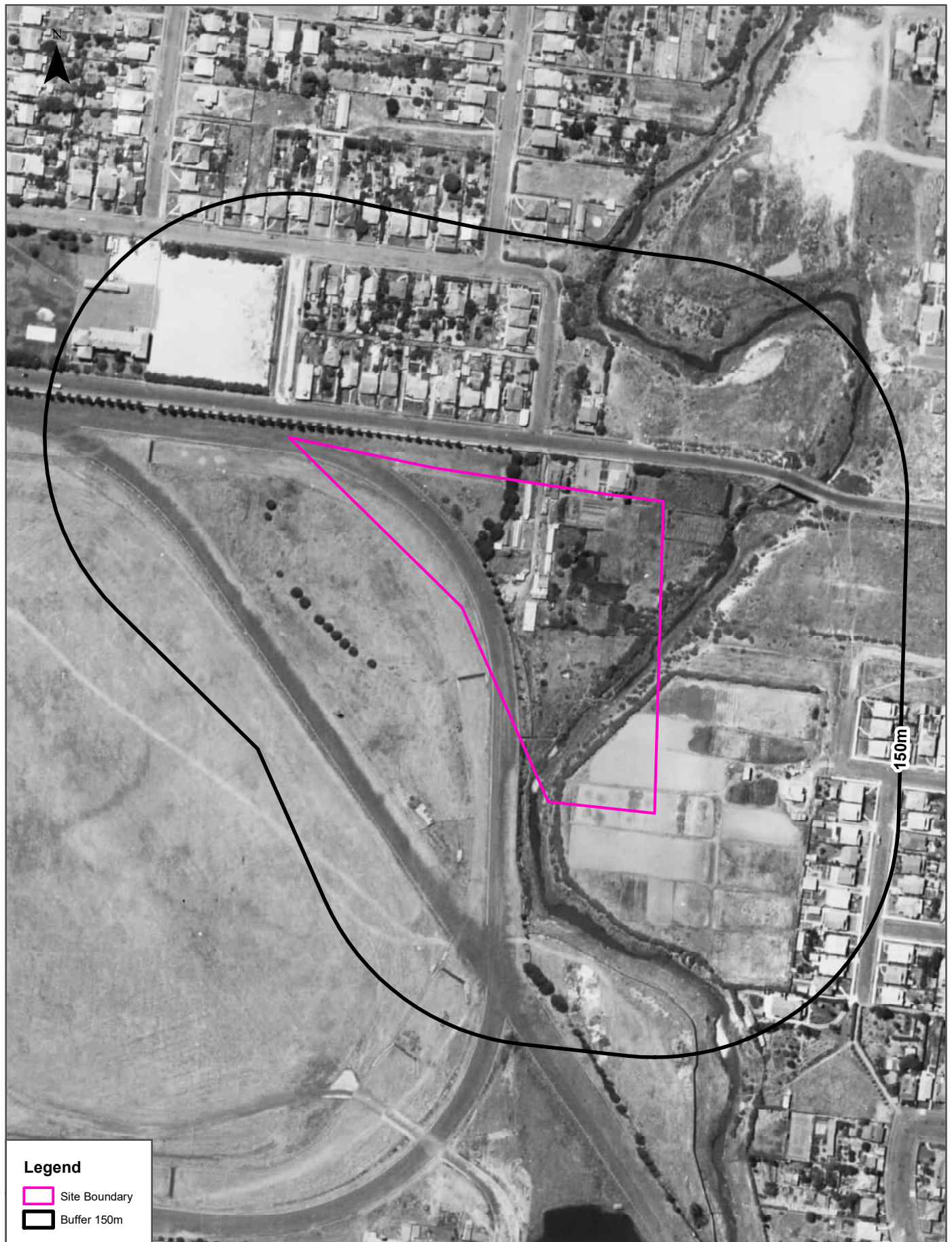
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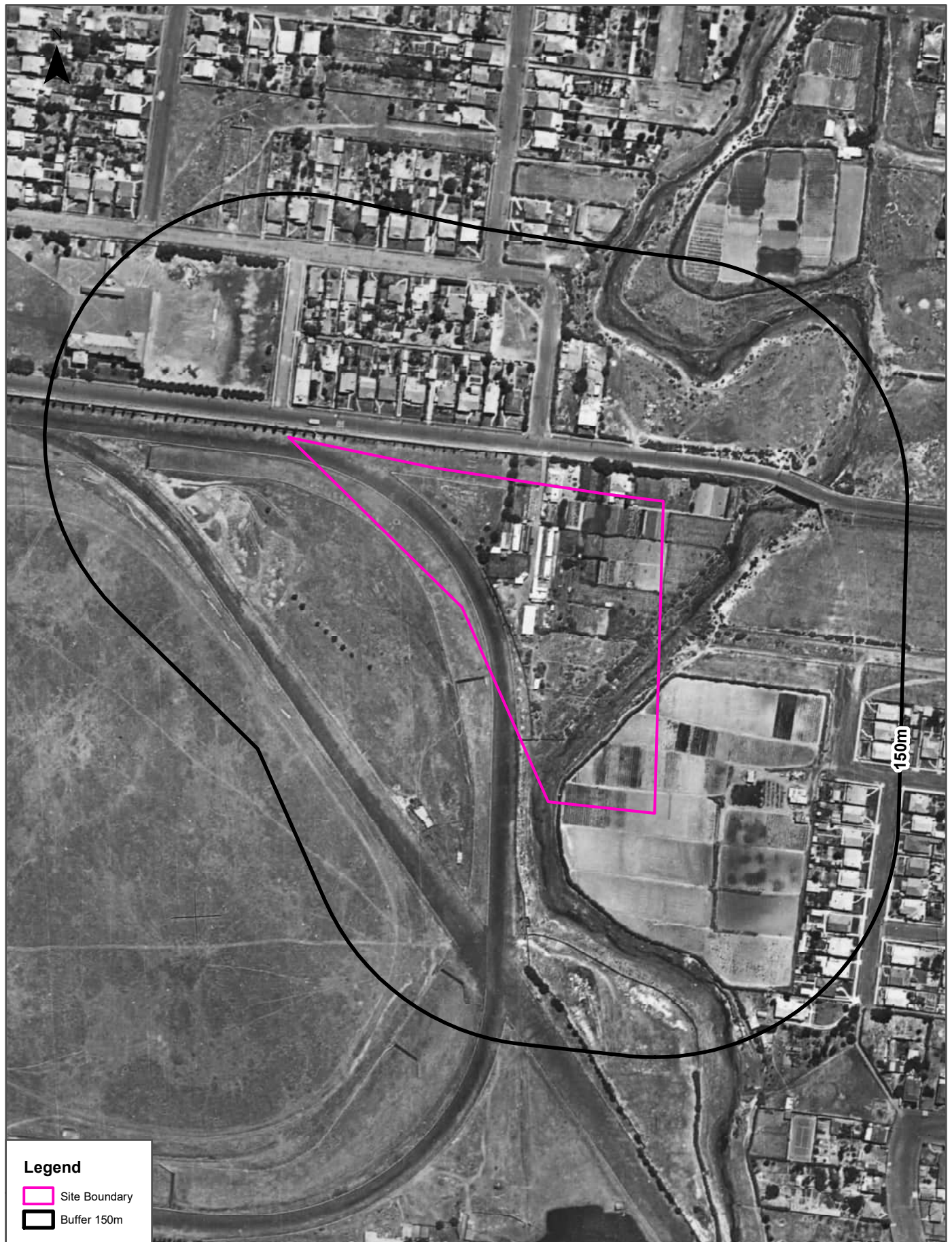
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Data Source Aerial Imagery: © Department of Environment, Land, Water and Planning (Vicmap Topographic Mapping Program) and Photomapping Services

Coordinate System:
GDA 1994 MGA Zone 55

Date: 08 December 2025





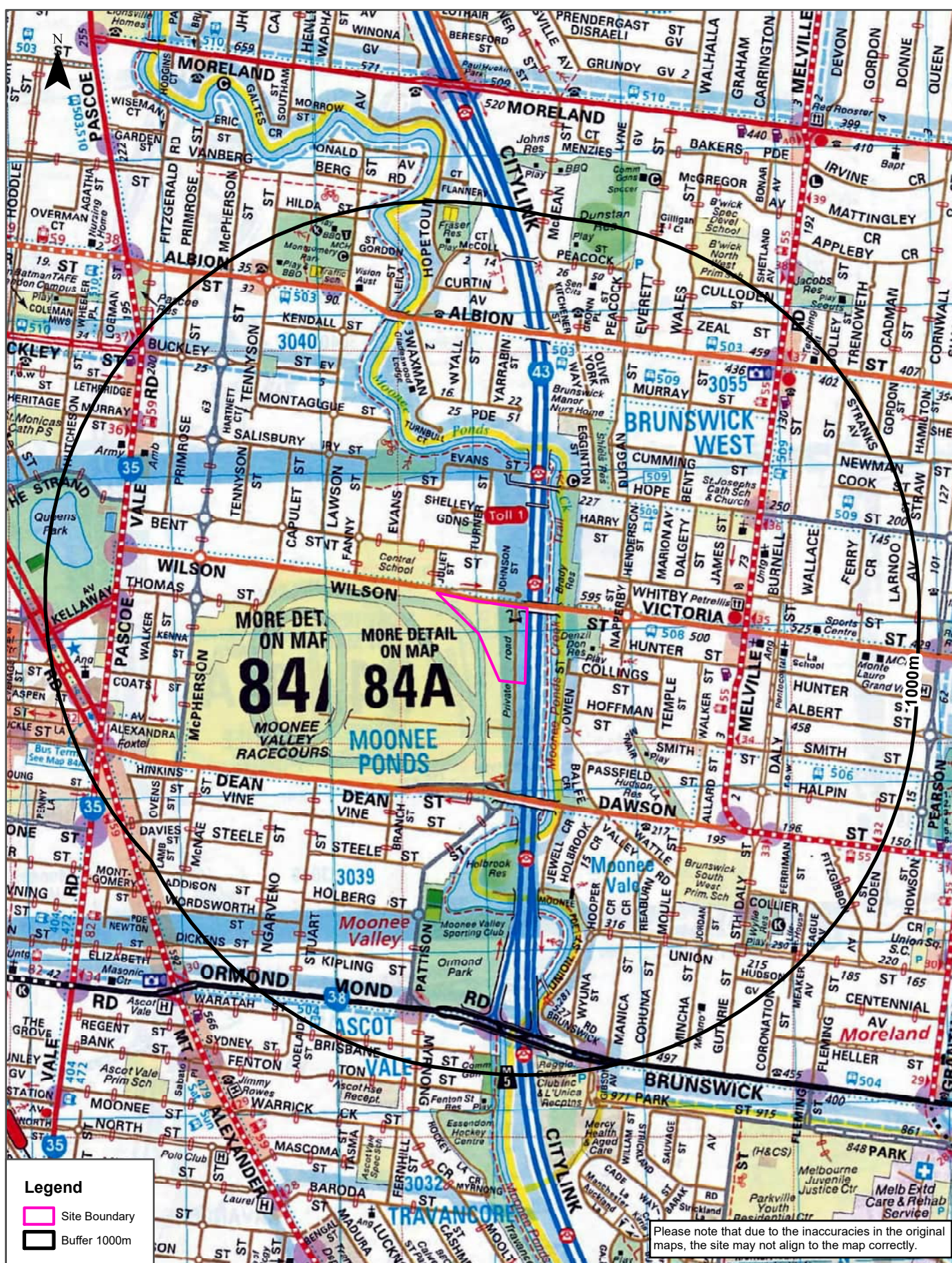


Scale: 0 100 Meters	Data Source Aerial Imagery: © Department of Environment, Land, Water and Planning (Vicmap Topographic Mapping Program) and Photomapping Services	Coordinate System: GDA 1994 MGA Zone 55	Date: 08 December 2025
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Historical Map 2009

102 Wilson Street, Mooney Ponds, VIC 3039

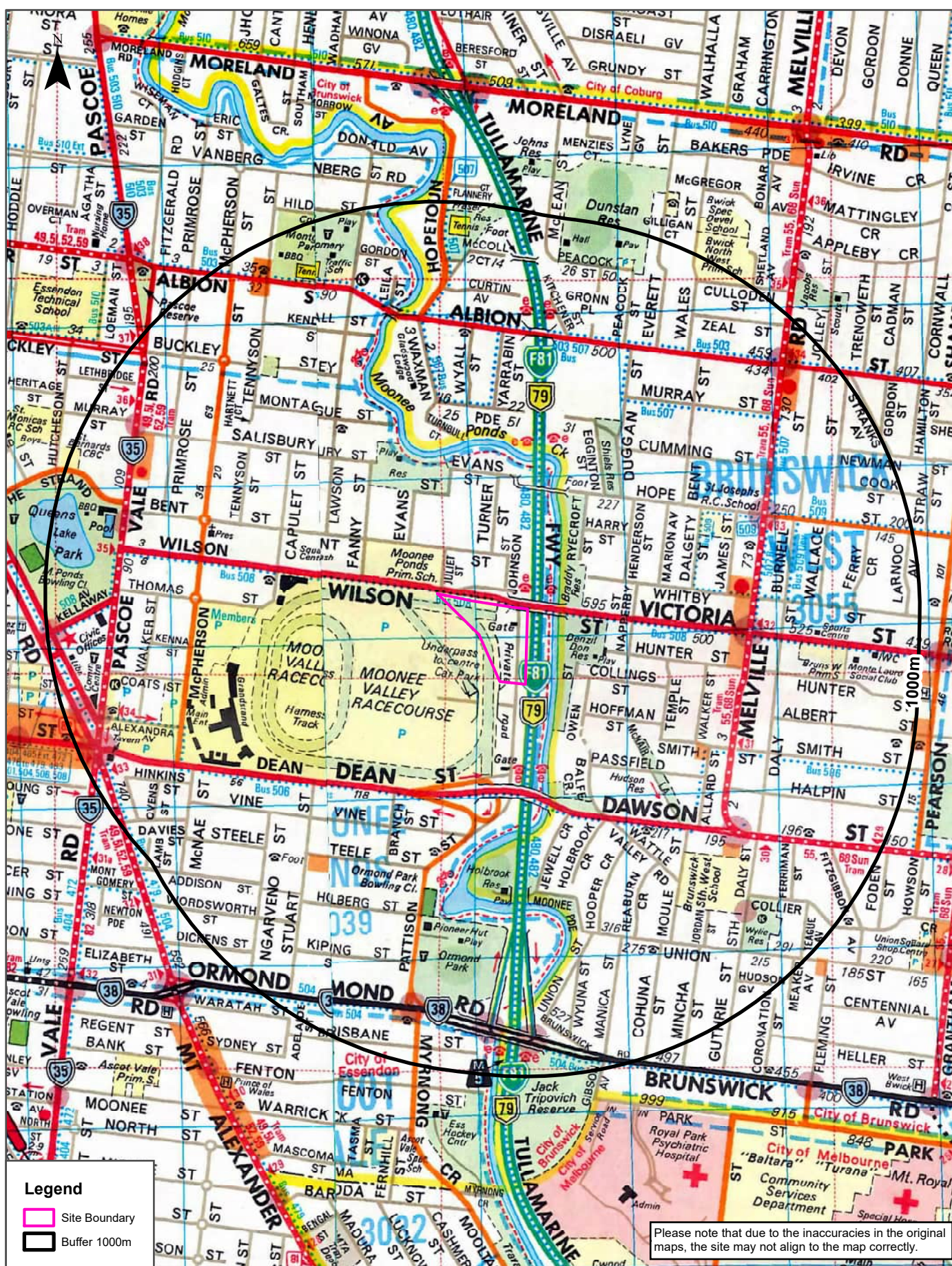
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Historical Map 1986

102 Wilson Street, Mooney Ponds, VIC 3039

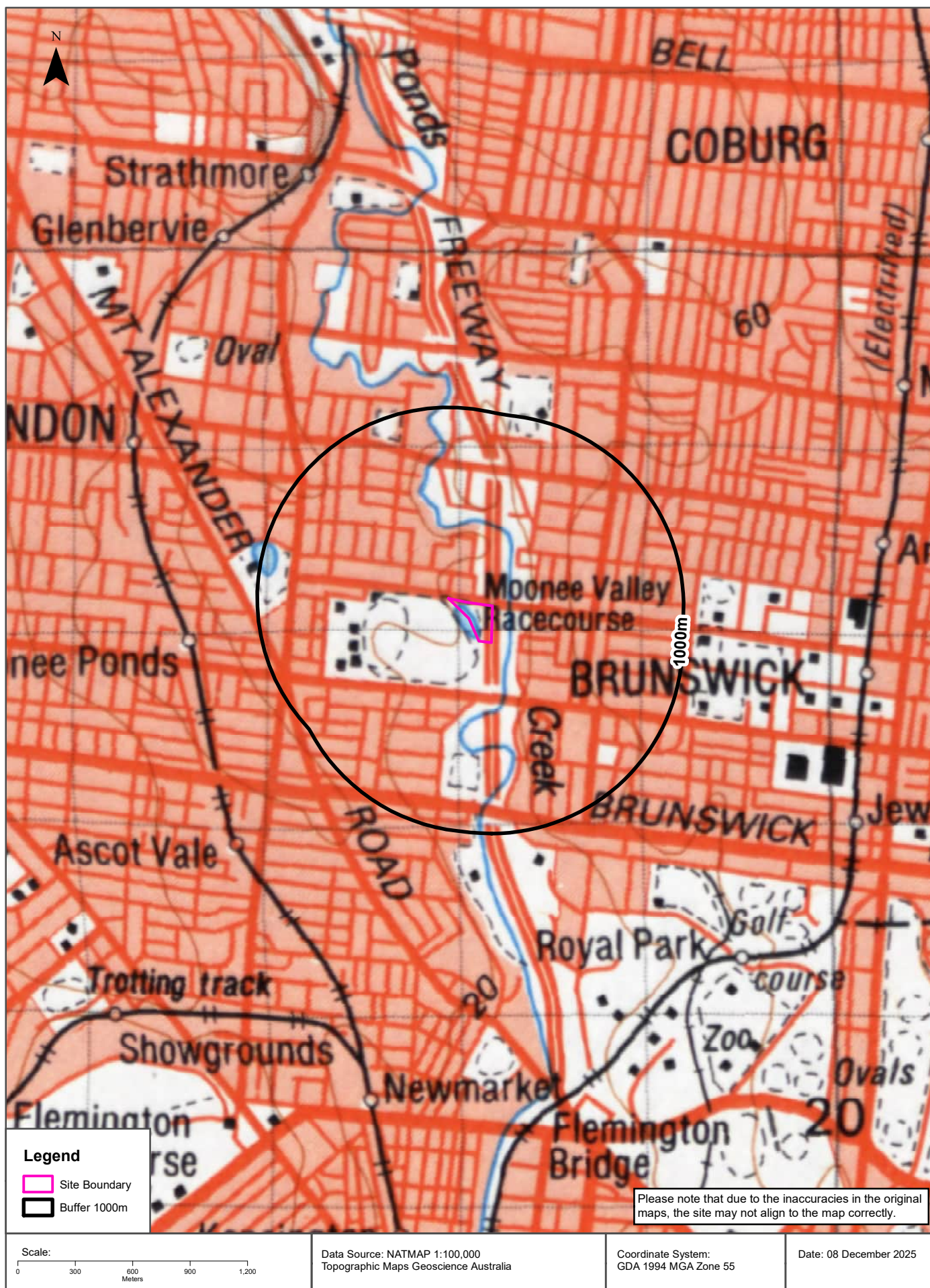
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Historical Map 1982

102 Wilson Street, Mooney Ponds, VIC 3039

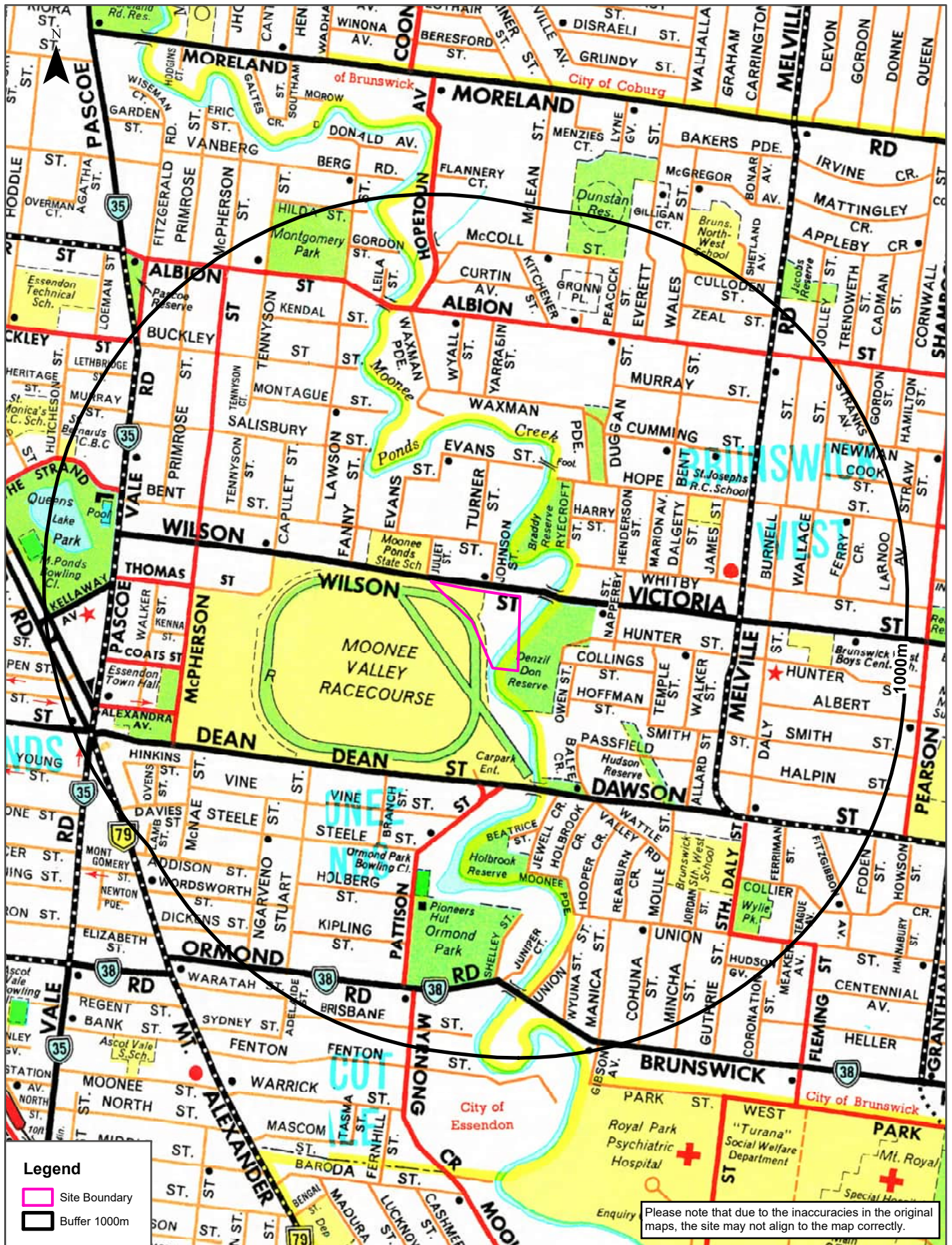
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Historical Map 1966

102 Wilson Street, Mooney Ponds, VIC 3039

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Scale:
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Meters

Data Source: Maps reproduced from 1966, Edition 1
of the Melway Street Directory

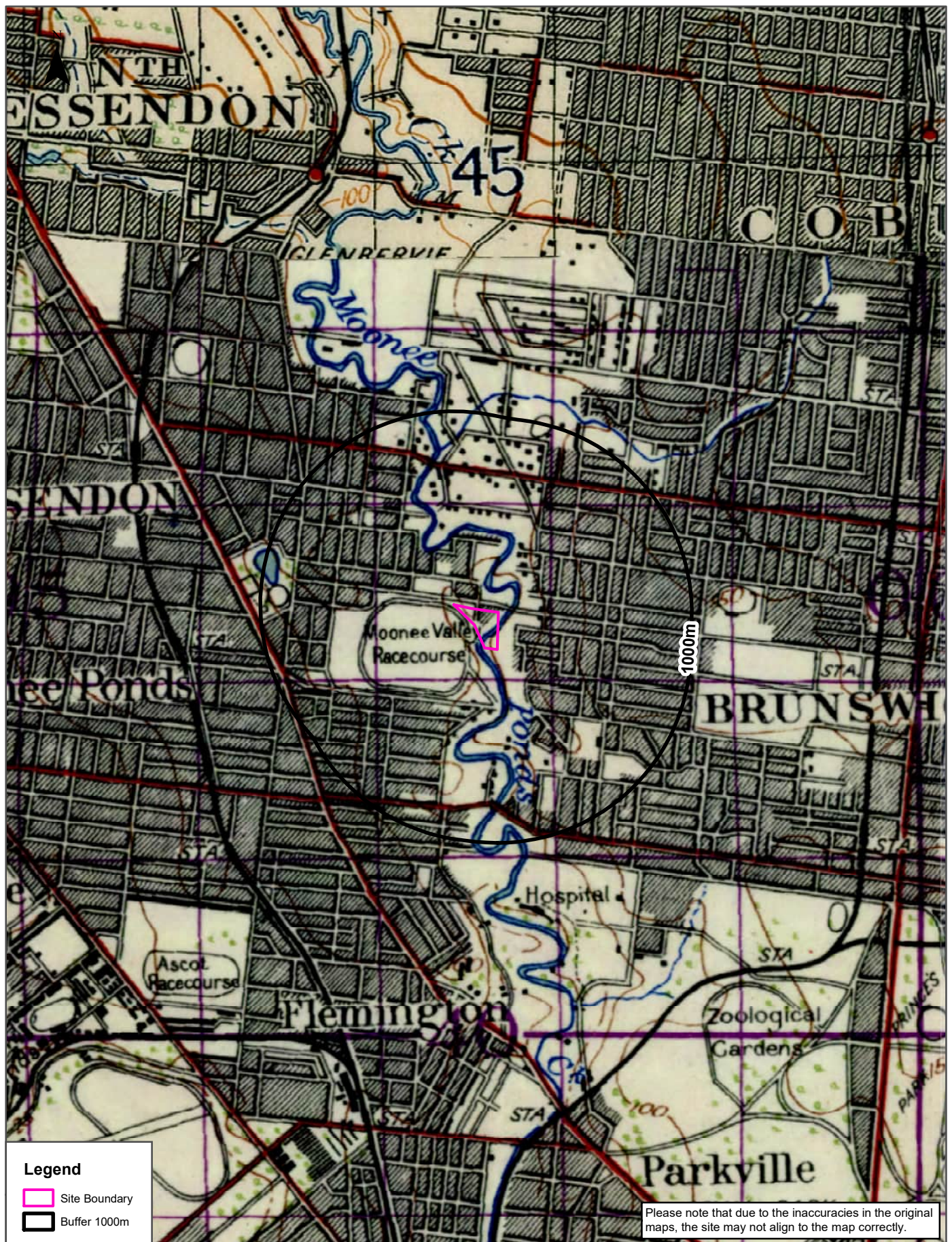
Coordinate System:
GDA 1994 MGA Zone 55

Date: 08 December 2025

Historical Map 1916 - 1933

102 Wilson Street, Mooney Ponds, VIC 3039

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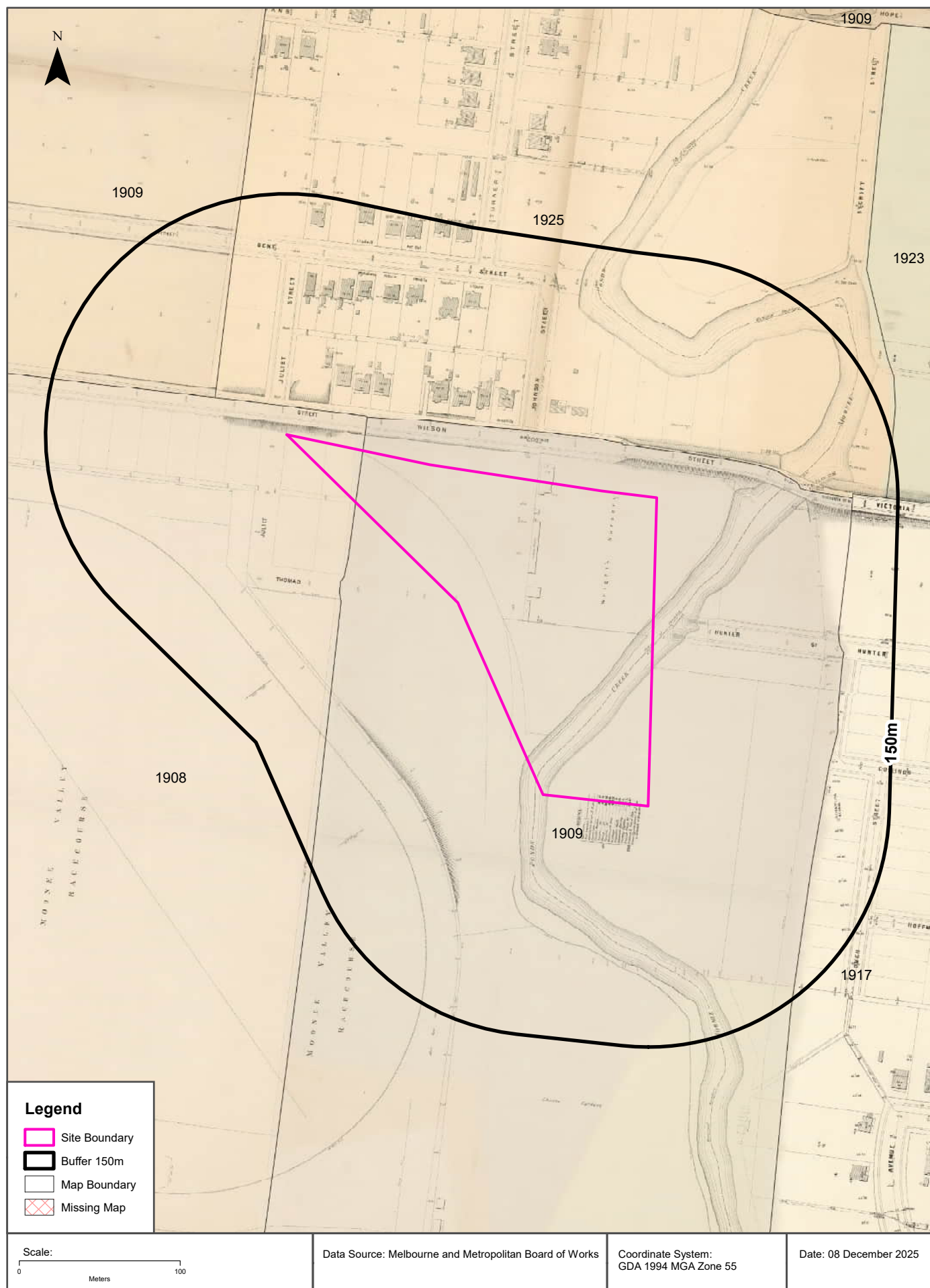
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0 300 600 900 1,200
Meters

Data Source: Australia 1:63360
Produced by Australian Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 55

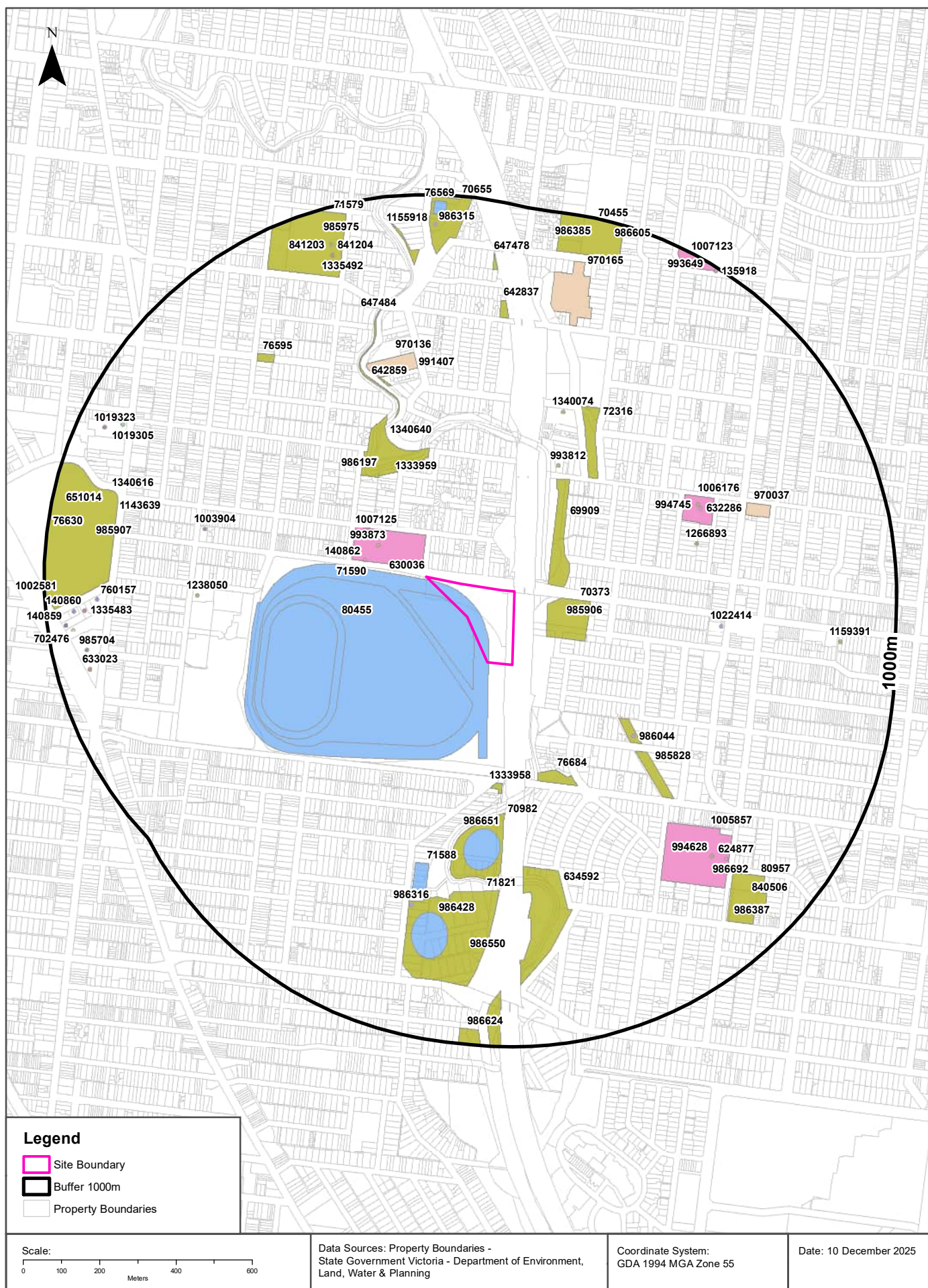
Date: 08 December 2025



Features of Interest

102 Wilson Street, Mooney Ponds, VIC 3039

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Features of Interest

102 Wilson Street, Mooney Ponds, VIC 3039

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Features of Interest

Features of Interest within the dataset buffer:

Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
630036	sport facility	horse racetrack		0m	On-site
71590	sport facility	racecourse	Moonee Valley Racecourse	0m	On-site
1007125	education centre	education complex		27m	North West
70373	reserve	park	Denzil Don Reserve	86m	East
69909	reserve	park	Brady Reserve	90m	North East
993873	care facility	child care	Teamkids - Moonee Ponds Primary	146m	North West
985906	recreational resource	playground		154m	East
140862	education centre	primary school	Moonee Ponds Primary School	163m	North West
80455	sport facility	harness racetrack		249m	West
1340640	reserve	park	Fanny Street Reserve	286m	North West
76684	reserve	park	C G Barker Reserve	289m	South East
1333959	recreational resource	bmX track	Fanny Street Bike Track	298m	North West
985828	reserve	park	Hudson Reserve	308m	South East
1333958	reserve	park	Pattison Street Pocket Park	310m	South
986197	recreational resource	playground		341m	North West
993812	care facility	child care	Dewdrops Early Learning - Brunswick West	346m	North East
72316	reserve	park	Sheils Reserve	357m	North East
986044	recreational resource	playground		361m	South East
70982	reserve	park	Holbrook Reserve	386m	South
647484	reserve	park		426m	North West
986651	sport facility	sports ground		432m	South
1006176	education centre	education complex		476m	North East
1340074	care facility	aged care	Estia Health Brunswick	485m	North
1266893	care facility	child care	Brunswick South West School Holiday Program	487m	East
642859	reserve	park		510m	North West
634592	reserve	park	Moonee Ponds Creek Linear Reserve	526m	South
994745	care facility	child care	St Josephs Oshc Brunswick West	526m	North East
632286	education centre	primary school	St Josephs School	529m	North East
970136	residential building	retirement village	Gladswood Lodge	537m	North
1022414	recreational resource	club house	Estonian House	537m	East
71588	sport facility	bowling green	Moonee Valley Bowling Club	547m	South
991407	care facility	aged care	Benetas Gladswood Lodge	561m	North
1005857	education centre	education complex		576m	South East
1003904	place of worship	church	Essendon Presbyterian Church	589m	West
71821	reserve	park	Ormond Park	590m	South
1238050	care facility	child care	Nido Early School Moonee Valley	597m	West
986550	sport facility	sports ground		626m	South
970037	residential building	retirement village	St Josephs Place	637m	East
986316	recreational resource	playground		659m	South
986428	sport facility	sports ground		669m	South
76595	reserve	park		690m	North West
642837	reserve	park		706m	North

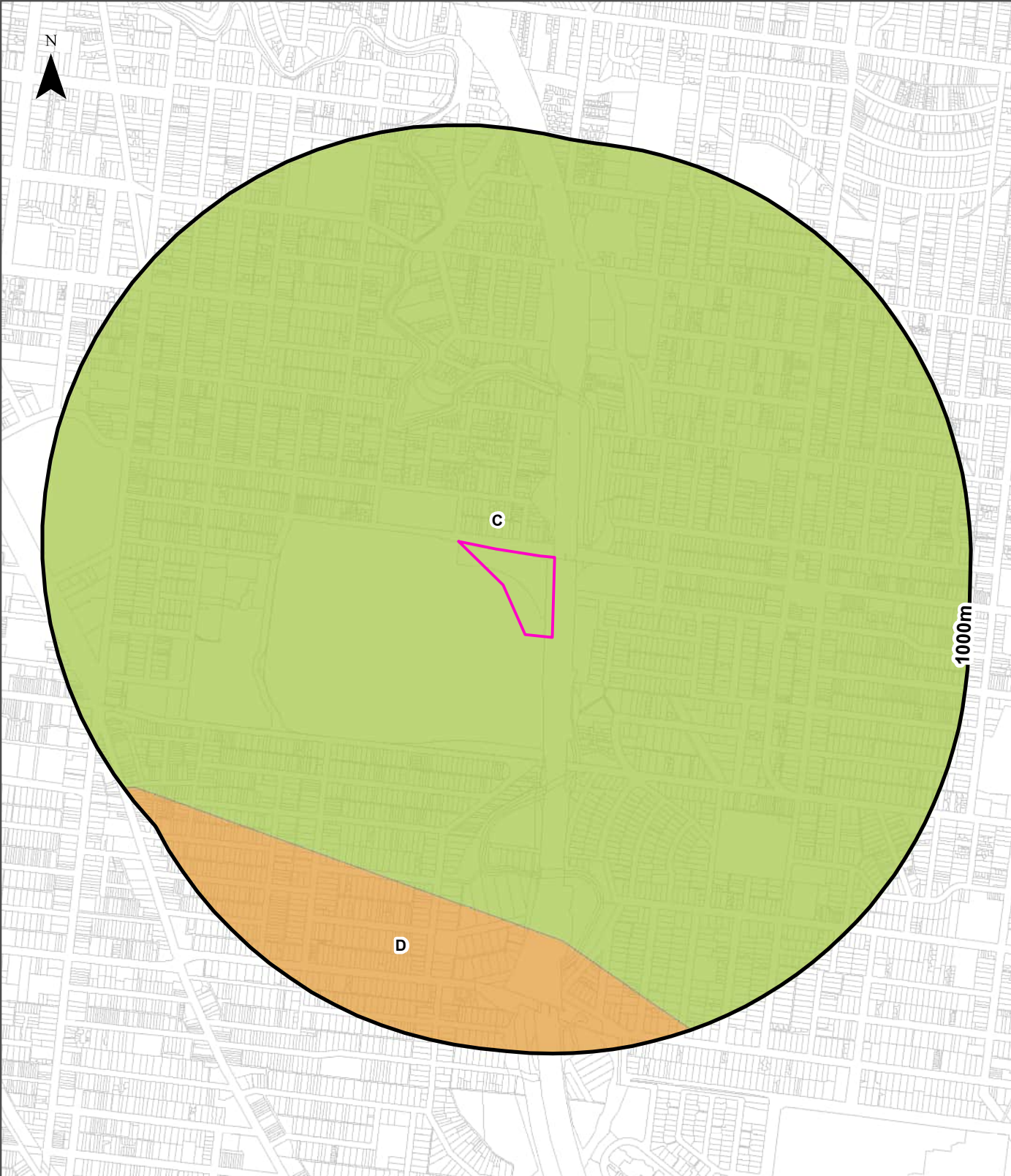
Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
970165	residential building	retirement village	Gronn Place	713m	North
994628	care facility	child care	Teamkids - Brunswick South West Primary	717m	South East
624877	education centre	primary school	Brunswick South West Primary School	749m	South East
80957	reserve	park	Wylie Reserve	790m	South East
986692	sport facility	sports ground		800m	South East
71579	reserve	park	Montgomery Park	818m	North West
1155918	reserve	park		818m	North
647478	reserve	park		824m	North
1340616	reserve	gardens	Queens Park	825m	West
1143639	sport facility	sports complex	Queens Park Swimming Pool	827m	West
70655	reserve	park	Fraser Reserve	845m	North
1159391	care facility	child care	Only About Children Brunswick West	850m	East
651014	sport facility	swimming pool		855m	West
760157	admin facility	municipal office	Moonee Valley City Council	859m	West
1335492	community venue	hall	Essendon Traffic School	873m	North West
840506	care facility	child care	Denzil Don Free Kindergarten	883m	South East
985907	recreational resource	playground		883m	West
1019305	landmark	monument	Moonee Ponds War Memorial	884m	North West
986387	recreational resource	playground		892m	South East
1335483	community venue	community centre	Kellaway Avenue Neighbourhood Centre	894m	West
70455	reserve	park	Dunstan Reserve	899m	North
841203	care facility	child care	Montgomery Park Childrens Centre	899m	North West
841204	care facility	child care	Montgomery Park Kindergarten	899m	North West
985704	place of worship	church	St Thomas Anglican Church	904m	West
633023	community venue	hall	Moonee Ponds Town Hall (Clocktower Centre)	908m	West
986605	sport facility	sports ground		910m	North
986315	recreational resource	playground		918m	North
140860	admin facility	law court	Moonee Ponds	922m	West
986385	recreational resource	playground		923m	North
1019323	defence site	barracks		924m	North West
702476	cultural centre	library	Sam Merrifield Library	929m	West
140859	emergency facility	police station	Moonee Ponds Police Station	947m	West
76569	sport facility	tennis court		950m	North
986624	reserve	gardens	Essendon Community Gardens	957m	South
1002581	landmark	monument	Essendon War Memorial	957m	West
1007123	education centre	education complex		958m	North East
76630	sport facility	bowling green	Moonee Ponds Bowling Club	969m	West
985975	recreational resource	playground		972m	North
135918	education centre	primary school	Brunswick North West Primary School	987m	North East
993649	care facility	child care	Brunswick North West Primary School Oshc	997m	North East

Features of Interest Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Watertable Salinity

102 Wilson Street, Mooney Ponds, VIC 3039



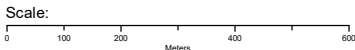
Legend

- Site Boundary
- Buffer 1000m
- Property Boundaries

Groundwater Segment (TDS mg/L)

- | | |
|-----------------|------------------|
| A1 (0-600) | D (5401 - 7100) |
| A2 (601-1200) | E (7101 - 10000) |
| B (1201-3100) | F (>10000) |
| C (3101 - 5400) | |

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PLAN**



Data Sources: Property Boundaries -
State Government Victoria - Department of Environment,
Land, Water & Planning

Coordinate System:
GDA 1994 MGA Zone 55

Date: 10 December 2025

Hydrogeology & Groundwater

102 Wilson Street, Mooney Ponds, VIC 3039

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Dist(m)	Dir
Fractured or fissured, extensive aquifers of low to moderate productivity	0	On-site

Hydrogeology Map of Australia: Commonwealth of Australia (Geoscience Australia)

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Watertable Salinity

Watertable Salinity concentrations within the dataset buffer:

Groundwater Segment	Total Dissolved Solids (mg/L)	Dist(m)	Dir
C	3101 - 5400	0	On-site
D	5401 - 7100	661	South

Source: Watertable Salinity

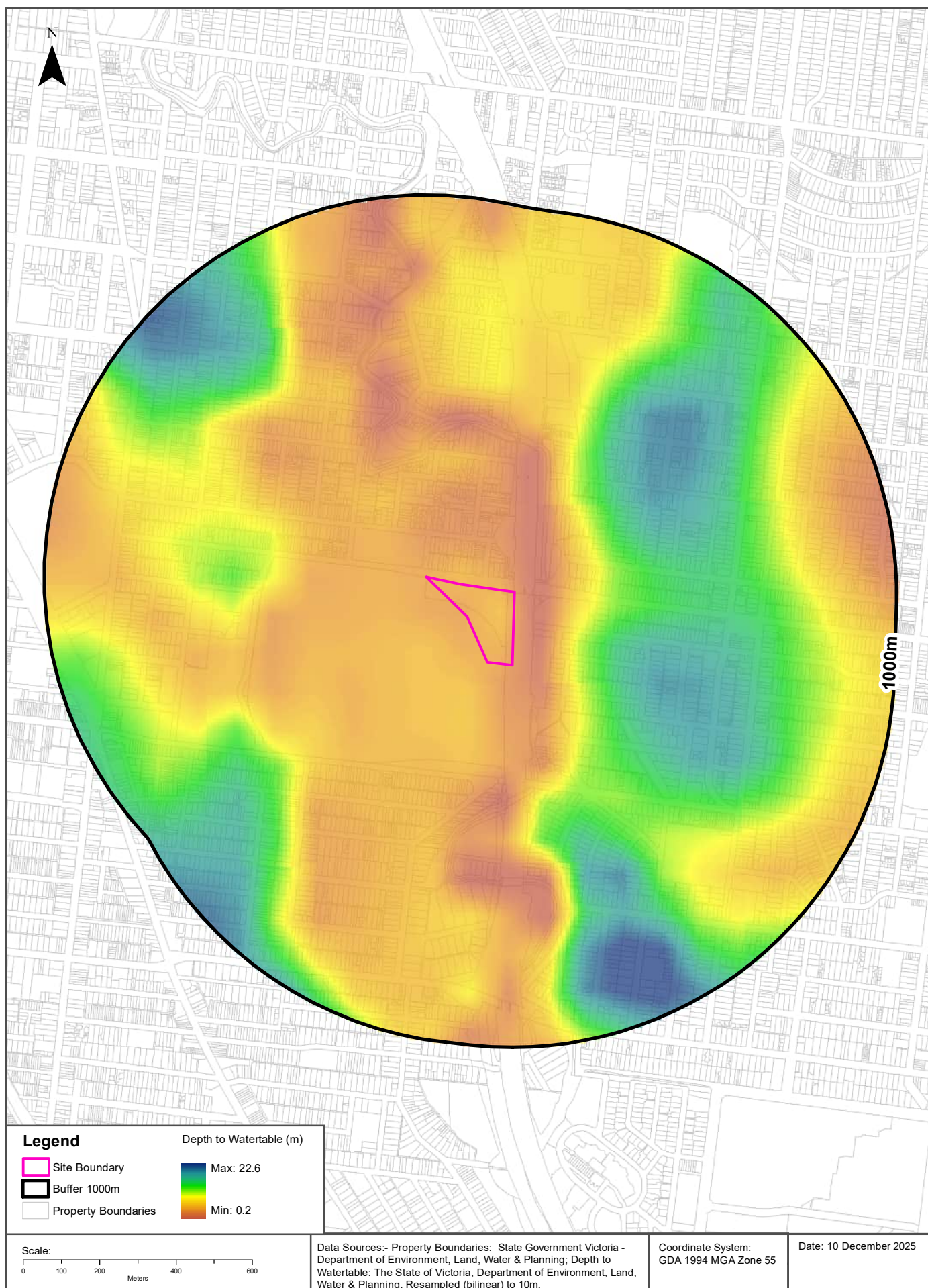
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Depth to Watertable

102 Wilson Street, Mooney Ponds, VIC 3039

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Hydrogeology & Groundwater

102 Wilson Street, Mooney Ponds, VIC 3039

Depth to Watertable

On-site Depth to Watertable:

Depth to Watertable	Percent Of Site Area
Less than 5 metres	59
5 to 10 metres	41

Surface Elevation

Approximate on-site Surface Elevation:

Surface Elevation
15 AHDm to 19 AHDm

Basement Elevation

Approximate on-site Basement Elevation:

Basement Elevation - Basement Rocks comprise Lower Palaeozoic basement rocks that form the highlands and the crystalline basement; and Mesozoic rocks of the Otway and Gippsland basins both outcropping and subsurface
2 AHDm to 5 AHDm

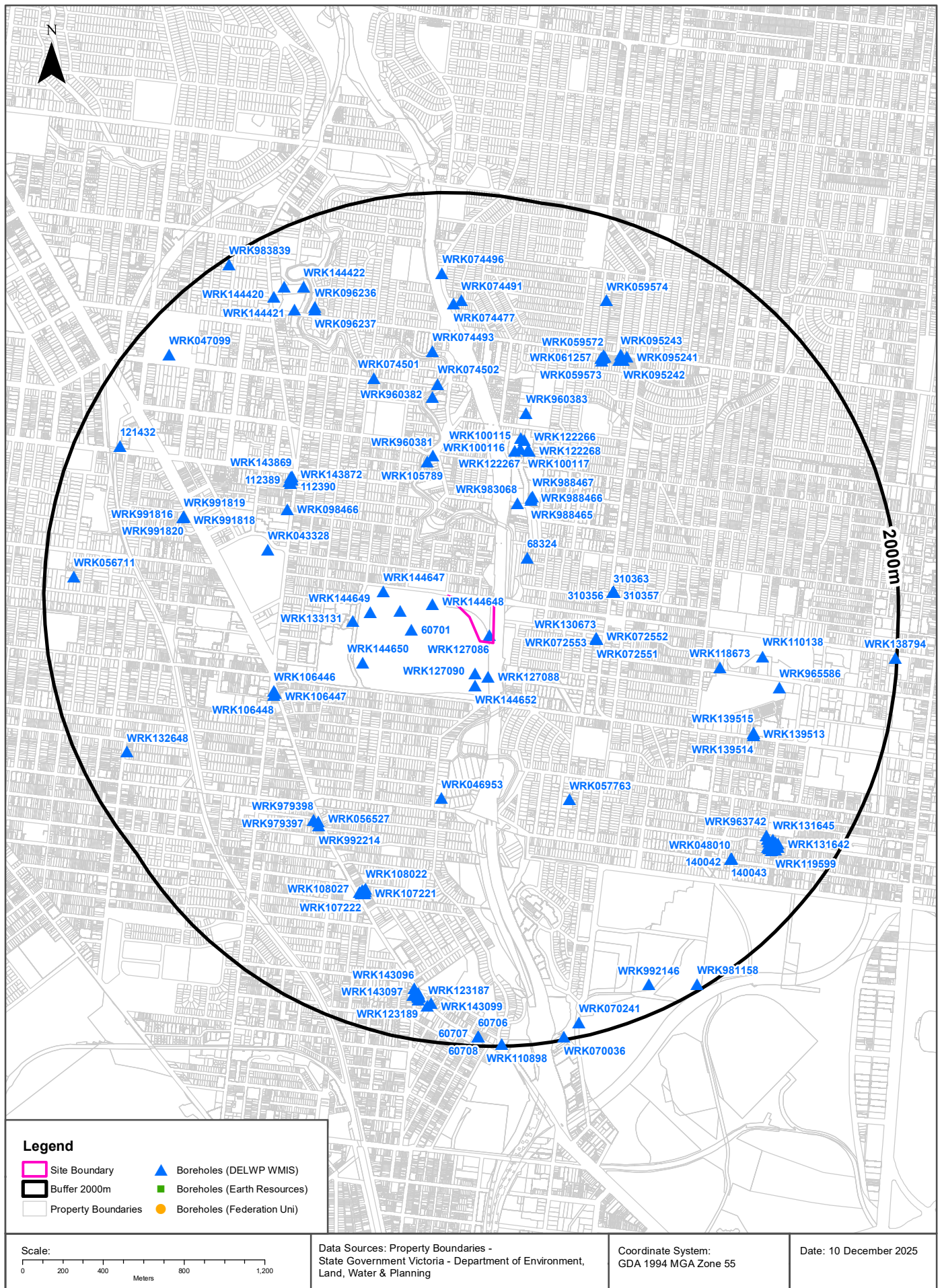
Groundwater Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Groundwater Boreholes

102 Wilson Street, Mooney Ponds, VIC 3039

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Groundwater Boreholes

102 Wilson Street, Mooney Ponds, VIC 3039

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Boreholes (DELWP WMIS)

Boreholes from the Department of Environment, Land, Water & Planning's Water Measurement Information System, within the dataset buffer:

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK127086	Investigation						0m	On-site
WRK144648	Observation						86m	West
WRK127090	Investigation						161m	South
WRK127088	Investigation						169m	South
WRK144652	Observation						219m	South
60701	Irrigation	0.00m-3.05m FILL 3.05m-6.40m GREY CLAY 6.40m-9.14m GREY AND YELLOW CLAY 9.14m-13.11m FINE SAND 13.11m-17.07m COARSE SAND 17.07m-18.90m MUDSTONE 18.90m-37.40m BLACK MUDSTONE	0.00m-10.36m INNER LINING - CASING = Not Known 9.14m-17.06m INNER LINING - SCREEN = Not Known 17.06m-18.90m INNER LINING - CASING = Not Known 9.14m-18.90m OUTER LINING - GRAVEL = Gravel		9.14m-17.06m	09/01/1973	245m	West
WRK144651	Observation						247m	West
68324	Domestic		0.00m-3.00m INNER LINING - CASING = Not Known 3.00m-3.50m INNER LINING - SCREEN = Not Known		3.00m-3.50m	06/02/1983	283m	North East
WRK144647	Observation						320m	West
WRK144649	Observation						391m	West
WRK133131	Observation						488m	West
WRK130673	Investigation						509m	East
WRK072551	Observation	0.00m-0.80m FILL 0.80m-16.00m SILTSTONE	0.00m-10.00m INNER LINING - CASING = Pvc 10.00m-16.00m INNER LINING - SCREEN = Pvc 0.00m-8.50m OUTER LINING - GRAVEL = Cement 8.50m-9.50m OUTER LINING - GRAVEL = Bentonite 9.50m-16.00m OUTER LINING - GRAVEL = Gravel		10.00m-16.00m Siltstone	09/01/2013	511m	East
WRK072552	Observation					09/01/2013	512m	East
WRK072553	Observation					10/01/2013	512m	East
WRK983068							514m	North
WRK144650	Observation						535m	West
WRK988465							547m	North East
WRK988466							558m	North East
WRK988467							567m	North East
310356	Non Groundwater					31/12/1952	593m	East
310357	Non Groundwater					31/12/1952	593m	East
310358	Non Groundwater					31/12/1952	593m	East
310359	Non Groundwater					31/12/1952	593m	East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310360	Non Groundwater					31/12/1952	593m	East
310361	Non Groundwater					31/12/1952	593m	East
310362	Non Groundwater					31/12/1952	593m	East
310363	Non Groundwater					31/12/1952	593m	East
310364	Non Groundwater					31/12/1952	593m	East
310365	Non Groundwater					31/12/1952	593m	East
310366	Non Groundwater					31/12/1952	593m	East
310367	Non Groundwater					31/12/1952	593m	East
310368	Non Groundwater					31/12/1952	593m	East
310369	Non Groundwater					31/12/1952	593m	East
310370	Non Groundwater					31/12/1952	593m	East
310371	Non Groundwater					31/12/1952	593m	East
310372	Non Groundwater					31/12/1952	593m	East
310373	Non Groundwater					31/12/1952	593m	East
310374	Non Groundwater					31/12/1952	593m	East
310375	Non Groundwater					31/12/1952	593m	East
310376	Non Groundwater					31/12/1952	593m	East
310377	Non Groundwater					31/12/1952	593m	East
310378	Non Groundwater					31/12/1952	593m	East
310379	Non Groundwater					31/12/1952	593m	East
310380	Non Groundwater					31/12/1952	593m	East
310381	Non Groundwater					31/12/1952	593m	East
310382	Non Groundwater					31/12/1952	593m	East
310383	Non Groundwater					31/12/1952	593m	East
310384	Non Groundwater					31/12/1952	593m	East
310385	Non Groundwater					31/12/1952	593m	East
310386	Non Groundwater					31/12/1952	593m	East
310387	Non Groundwater					31/12/1952	593m	East
310388	Non Groundwater					31/12/1952	593m	East
310389	Non Groundwater					31/12/1952	593m	East
310390	Non Groundwater					31/12/1952	593m	East
310391	Non Groundwater					31/12/1952	593m	East
310392	Non Groundwater					31/12/1952	593m	East
310393	Non Groundwater					31/12/1952	593m	East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310394	Non Groundwater					31/12/1952	593m	East
310395	Non Groundwater					31/12/1952	593m	East
310396	Non Groundwater					31/12/1952	593m	East
310397	Non Groundwater					31/12/1952	593m	East
310398	Non Groundwater					31/12/1952	593m	East
310399	Non Groundwater					31/12/1952	593m	East
310400	Non Groundwater					31/12/1953	593m	East
310401	Non Groundwater					31/12/1953	593m	East
310402	Non Groundwater					31/12/1953	593m	East
310403	Non Groundwater					31/12/1953	593m	East
310404	Non Groundwater					31/12/1953	593m	East
310405	Non Groundwater					31/12/1953	593m	East
310406	Non Groundwater					31/12/1953	593m	East
310407	Non Groundwater					31/12/1953	593m	East
310408	Non Groundwater					31/12/1953	593m	East
310409	Non Groundwater					31/12/1953	593m	East
310410	Non Groundwater					31/12/1953	593m	East
310411	Non Groundwater					31/12/1953	593m	East
310412	Non Groundwater					31/12/1953	593m	East
310413	Non Groundwater					31/12/1953	593m	East
310414	Non Groundwater					31/12/1953	593m	East
310415	Non Groundwater					31/12/1953	593m	East
310416	Non Groundwater					31/12/1953	593m	East
310417	Non Groundwater					31/12/1953	593m	East
310418	Non Groundwater					31/12/1953	593m	East
310419	Non Groundwater					31/12/1953	593m	East
310420	Non Groundwater					31/12/1953	593m	East
310421	Non Groundwater					31/12/1953	593m	East
310422	Non Groundwater					31/12/1953	593m	East
310423	Non Groundwater					31/12/1953	593m	East
310424	Non Groundwater					31/12/1953	593m	East
310425	Non Groundwater					31/12/1953	593m	East
310426	Non Groundwater					31/12/1953	593m	East
310427	Non Groundwater					31/12/1953	593m	East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310428	Non Groundwater					31/12/1953	593m	East
310429	Non Groundwater					31/12/1953	593m	East
310430	Non Groundwater					31/12/1953	593m	East
310431	Non Groundwater					31/12/1953	593m	East
310432	Non Groundwater					31/12/1953	593m	East
310433	Non Groundwater					31/12/1953	593m	East
310434	Non Groundwater					31/12/1953	593m	East
310435	Non Groundwater					31/12/1953	593m	East
310436	Non Groundwater					31/12/1953	593m	East
310437	Non Groundwater					31/12/1953	593m	East
310438	Non Groundwater					31/12/1953	593m	East
310439	Non Groundwater					31/12/1953	593m	East
310440	Non Groundwater					31/12/1953	593m	East
310441	Non Groundwater					31/12/1955	593m	East
310442	Non Groundwater					31/12/1955	593m	East
310443	Non Groundwater					31/12/1955	593m	East
310444	Non Groundwater					31/12/1955	593m	East
310445	Non Groundwater					31/12/1955	593m	East
310446	Non Groundwater					31/12/1955	593m	East
310447	Non Groundwater					31/12/1955	593m	East
310448	Non Groundwater					31/12/1955	593m	East
310449	Non Groundwater					31/12/1955	593m	East
310450	Non Groundwater					31/12/1955	593m	East
310451	Non Groundwater					31/12/1955	593m	East
310452	Non Groundwater					31/12/1955	593m	East
310453	Non Groundwater					31/12/1955	593m	East
310454	Non Groundwater					31/12/1955	593m	East
310455	Non Groundwater					31/12/1955	593m	East
310456	Non Groundwater					31/12/1955	593m	East
310457	Non Groundwater					31/12/1955	593m	East
310458	Non Groundwater					31/12/1955	593m	East
310459	Non Groundwater					31/12/1955	593m	East
310460	Non Groundwater					31/12/1955	593m	East
310461	Non Groundwater					31/12/1955	593m	East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310462	Non Groundwater					31/12/1955	593m	East
310463	Non Groundwater					31/12/1955	593m	East
310464	Non Groundwater					31/12/1955	593m	East
310465	Non Groundwater					31/12/1955	593m	East
310466	Non Groundwater					31/12/1955	593m	East
310467	Non Groundwater					31/12/1955	593m	East
310468	Non Groundwater					31/12/1955	593m	East
310469	Non Groundwater					31/12/1955	593m	East
310470	Non Groundwater					31/12/1955	593m	East
310471	Non Groundwater					31/12/1955	593m	East
310472	Non Groundwater					31/12/1955	593m	East
310473	Non Groundwater					31/12/1955	593m	East
310474	Non Groundwater					31/12/1955	593m	East
310475	Non Groundwater					31/12/1955	593m	East
310476	Non Groundwater					31/12/1955	593m	East
310477	Non Groundwater					31/12/1955	593m	East
310478	Non Groundwater					31/12/1955	593m	East
310479	Non Groundwater					31/12/1955	593m	East
310480	Non Groundwater					31/12/1955	593m	East
310481	Non Groundwater					31/12/1955	593m	East
310482	Non Groundwater					31/12/1955	593m	East
310483	Non Groundwater					31/12/1955	593m	East
310484	Non Groundwater					31/12/1955	593m	East
310485	Non Groundwater					31/12/1955	593m	East
310486	Non Groundwater					31/12/1955	593m	East
310487	Non Groundwater					31/12/1955	593m	East
310488	Non Groundwater					31/12/1955	593m	East
310489	Non Groundwater					31/12/1955	593m	East
310490	Non Groundwater					31/12/1955	593m	East
310491	Non Groundwater					31/12/1955	593m	East
310492	Non Groundwater					31/12/1955	593m	East
310493	Non Groundwater					31/12/1955	593m	East
310494	Non Groundwater					31/12/1955	593m	East
310495	Non Groundwater					31/12/1955	593m	East

ADVERTISED PLAN

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310496	Non Groundwater					31/12/1955	593m	East
310497	Non Groundwater					31/12/1955	593m	East
310498	Non Groundwater					31/12/1955	593m	East
310499	Non Groundwater					31/12/1955	593m	East
310500	Non Groundwater					31/12/1955	593m	East
310501	Non Groundwater					31/12/1955	593m	East
310502	Non Groundwater					31/12/1955	593m	East
310503	Non Groundwater					31/12/1955	593m	East
310504	Non Groundwater					31/12/1955	593m	East
310505	Non Groundwater					31/12/1955	593m	East
310506	Non Groundwater					31/12/1955	593m	East
310507	Non Groundwater					31/12/1955	593m	East
310508	Non Groundwater					31/12/1955	593m	East
310509	Non Groundwater					31/12/1955	593m	East
310510	Non Groundwater					31/12/1955	593m	East
310511	Non Groundwater					31/12/1955	593m	East
310512	Non Groundwater					31/12/1955	593m	East
310513	Non Groundwater					31/12/1955	593m	East
310514	Non Groundwater					31/12/1955	593m	East
310515	Non Groundwater					31/12/1955	593m	East
310516	Non Groundwater					31/12/1955	593m	East
310517	Non Groundwater					31/12/1955	593m	East
310518	Non Groundwater					31/12/1955	593m	East
310519	Non Groundwater					31/12/1955	593m	East
310520	Non Groundwater					31/12/1955	593m	East
310521	Non Groundwater					31/12/1955	593m	East
310522	Non Groundwater					31/12/1955	593m	East
310523	Non Groundwater					31/12/1955	593m	East
310524	Non Groundwater					31/12/1955	593m	East
310525	Non Groundwater					31/12/1955	593m	East
310526	Non Groundwater					31/12/1955	593m	East
310527	Non Groundwater					31/12/1955	593m	East
310528	Non Groundwater					31/12/1955	593m	East
310529	Non Groundwater					31/12/1955	593m	East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310530	Non Groundwater					31/12/1959	593m	East
310531	Non Groundwater					31/12/1959	593m	East
310532	Non Groundwater					31/12/1959	593m	East
310533	Non Groundwater					31/12/1959	593m	East
310534	Non Groundwater					31/12/1959	593m	East
310535	Non Groundwater					31/12/1959	593m	East
310536	Non Groundwater					31/12/1961	593m	East
310537	Non Groundwater					31/12/1961	593m	East
310538	Non Groundwater					31/12/1961	593m	East
310539	Non Groundwater					31/12/1961	593m	East
310540	Non Groundwater					31/12/1961	593m	East
310541	Non Groundwater					31/12/1968	593m	East
310542	Non Groundwater					31/12/1968	593m	East
310543	Non Groundwater					31/12/1968	593m	East
310544	Non Groundwater					31/12/1969	593m	East
310545	Non Groundwater					31/12/1969	593m	East
310546	Non Groundwater					31/12/1969	593m	East
310547	Sec Bores (Use Unidentified)					05/04/1965	593m	East
310548	Sec Bores (Use Unidentified)					05/04/1965	593m	East
310549	Sec Bores (Use Unidentified)					06/04/1965	593m	East
310550	Sec Bores (Use Unidentified)					06/04/1965	593m	East
310551	Sec Bores (Use Unidentified)					06/04/1965	593m	East
310552	Sec Bores (Use Unidentified)					06/04/1965	593m	East
310553	Sec Bores (Use Unidentified)					19/01/1965	593m	East
310554	Sec Bores (Use Unidentified)					18/01/1965	593m	East
310555	Sec Bores (Use Unidentified)					18/01/1965	593m	East
310556	Sec Bores (Use Unidentified)					18/01/1965	593m	East
310557	Sec Bores (Use Unidentified)					19/01/1965	593m	East
310558	Sec Bores (Use Unidentified)					19/01/1965	593m	East

ADVERTISED PLAN

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310559	Sec Bores (Use Unidentified)					19/01/1965	593m	East
310560	Sec Bores (Use Unidentified)					18/01/1965	593m	East
310561	Sec Bores (Use Unidentified)					22/01/1965	593m	East
310562	Sec Bores (Use Unidentified)					21/01/1965	593m	East
310563	Sec Bores (Use Unidentified)					20/01/1965	593m	East
310564	Sec Bores (Use Unidentified)					20/01/1965	593m	East
310565	Sec Bores (Use Unidentified)					20/01/1965	593m	East
310566	Sec Bores (Use Unidentified)					23/01/1965	593m	East
310567	Sec Bores (Use Unidentified)					23/01/1965	593m	East
310568	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310569	Sec Bores (Use Unidentified)					18/08/1969	593m	East
310570	Sec Bores (Use Unidentified)					18/08/1969	593m	East
310571	Sec Bores (Use Unidentified)					18/08/1969	593m	East
310572	Sec Bores (Use Unidentified)					12/05/1968	593m	East
310573	Sec Bores (Use Unidentified)					12/05/1968	593m	East
310574	Sec Bores (Use Unidentified)					12/05/1968	593m	East
310575	Sec Bores (Use Unidentified)					12/05/1968	593m	East
310576	Sec Bores (Use Unidentified)					14/04/1968	593m	East
310577	Sec Bores (Use Unidentified)					25/03/1968	593m	East
310578	Sec Bores (Use Unidentified)					25/03/1968	593m	East
310579	Sec Bores (Use Unidentified)					25/03/1968	593m	East
310580	Sec Bores (Use Unidentified)					25/03/1968	593m	East
310581	Sec Bores (Use Unidentified)					25/03/1968	593m	East
310582	Sec Bores (Use Unidentified)					19/03/1968	593m	East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310583	Sec Bores (Use Unidentified)					19/03/1968	593m	East
310584	Sec Bores (Use Unidentified)					19/03/1968	593m	East
310585	Sec Bores (Use Unidentified)					19/03/1968	593m	East
310586	Sec Bores (Use Unidentified)					19/03/1968	593m	East
310587	Sec Bores (Use Unidentified)					19/03/1968	593m	East
310588	Sec Bores (Use Unidentified)					19/03/1968	593m	East
310589	Sec Bores (Use Unidentified)					19/03/1968	593m	East
310590	Sec Bores (Use Unidentified)					19/03/1968	593m	East
310591	Sec Bores (Use Unidentified)					19/03/1968	593m	East
310592	Sec Bores (Use Unidentified)					08/06/1966	593m	East
310593	Sec Bores (Use Unidentified)					08/06/1966	593m	East
310594	Sec Bores (Use Unidentified)					14/02/1966	593m	East
310595	Sec Bores (Use Unidentified)					14/02/1966	593m	East
310596	Sec Bores (Use Unidentified)					20/01/1966	593m	East
310597	Sec Bores (Use Unidentified)					21/01/1966	593m	East
310598	Sec Bores (Use Unidentified)					23/10/1964	593m	East
310599	Sec Bores (Use Unidentified)					23/10/1964	593m	East
310600	Sec Bores (Use Unidentified)					23/10/1964	593m	East
310601	Sec Bores (Use Unidentified)					23/10/1964	593m	East
310602	Sec Bores (Use Unidentified)					23/08/1964	593m	East
310603	Sec Bores (Use Unidentified)					03/09/1964	593m	East
310604	Sec Bores (Use Unidentified)					04/11/1964	593m	East
310605	Sec Bores (Use Unidentified)					04/11/1964	593m	East
310606	Sec Bores (Use Unidentified)					04/11/1964	593m	East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310607	Sec Bores (Use Unidentified)					04/11/1964	593m	East
310608	Sec Bores (Use Unidentified)					24/10/1964	593m	East
310609	Sec Bores (Use Unidentified)					24/10/1964	593m	East
310610	Sec Bores (Use Unidentified)					24/10/1964	593m	East
310611	Sec Bores (Use Unidentified)					24/10/1964	593m	East
310612	Sec Bores (Use Unidentified)					12/08/1964	593m	East
310613	Sec Bores (Use Unidentified)					01/11/1964	593m	East
310614	Sec Bores (Use Unidentified)					01/11/1964	593m	East
310615	Sec Bores (Use Unidentified)					01/11/1964	593m	East
310616	Sec Bores (Use Unidentified)					29/10/1964	593m	East
310617	Sec Bores (Use Unidentified)					29/10/1964	593m	East
310618	Sec Bores (Use Unidentified)					29/10/1964	593m	East
310619	Sec Bores (Use Unidentified)					28/10/1964	593m	East
310620	Sec Bores (Use Unidentified)					28/10/1964	593m	East
310621	Sec Bores (Use Unidentified)					28/10/1964	593m	East
310622	Sec Bores (Use Unidentified)					28/10/1964	593m	East
310623	Sec Bores (Use Unidentified)					17/08/1964	593m	East
310624	Sec Bores (Use Unidentified)					15/08/1964	593m	East
310625	Sec Bores (Use Unidentified)					22/09/1964	593m	East
310626	Sec Bores (Use Unidentified)					30/10/1964	593m	East
310627	Sec Bores (Use Unidentified)					30/10/1964	593m	East
310628	Sec Bores (Use Unidentified)					30/10/1964	593m	East
310629	Sec Bores (Use Unidentified)					30/10/1964	593m	East
310630	Sec Bores (Use Unidentified)					24/09/1964	593m	East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310631	Sec Bores (Use Unidentified)					23/09/1964	593m	East
310632	Sec Bores (Use Unidentified)					26/10/1964	593m	East
310633	Sec Bores (Use Unidentified)					17/08/1964	593m	East
310634	Sec Bores (Use Unidentified)					17/08/1964	593m	East
310635	Sec Bores (Use Unidentified)					25/09/1964	593m	East
310636	Sec Bores (Use Unidentified)					23/09/1964	593m	East
310637	Sec Bores (Use Unidentified)					21/08/1964	593m	East
310638	Sec Bores (Use Unidentified)					07/08/1964	593m	East
310639	Sec Bores (Use Unidentified)					02/09/1964	593m	East
310640	Sec Bores (Use Unidentified)					20/09/1964	593m	East
310641	Sec Bores (Use Unidentified)					27/08/1964	593m	East
310642	Sec Bores (Use Unidentified)					25/08/1964	593m	East
310643	Sec Bores (Use Unidentified)					04/07/1964	593m	East
310644	Sec Bores (Use Unidentified)					28/08/1964	593m	East
310645	Sec Bores (Use Unidentified)					07/07/1964	593m	East
310646	Sec Bores (Use Unidentified)					20/09/1964	593m	East
310647	Sec Bores (Use Unidentified)					31/08/1964	593m	East
310648	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310649	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310650	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310651	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310652	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310653	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310654	Sec Bores (Use Unidentified)					31/12/1970	593m	East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310655	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310656	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310657	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310658	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310659	Sec Bores (Use Unidentified)					05/11/1964	593m	East
310660	Sec Bores (Use Unidentified)					05/11/1964	593m	East
310661	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310662	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310663	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310664	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310665	Sec Bores (Use Unidentified)					27/09/1955	593m	East
310666	Sec Bores (Use Unidentified)					27/09/1955	593m	East
310667	Sec Bores (Use Unidentified)					27/09/1955	593m	East
310668	Sec Bores (Use Unidentified)					27/09/1955	593m	East
310669	Sec Bores (Use Unidentified)					27/09/1955	593m	East
310670	Sec Bores (Use Unidentified)					27/09/1955	593m	East
310671	Sec Bores (Use Unidentified)					27/09/1955	593m	East
310672	Sec Bores (Use Unidentified)					27/09/1955	593m	East
310673	Sec Bores (Use Unidentified)					27/09/1955	593m	East
310674	Sec Bores (Use Unidentified)					27/09/1955	593m	East
310675	Sec Bores (Use Unidentified)					27/09/1955	593m	East
310676	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310677	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310678	Sec Bores (Use Unidentified)					31/12/1970	593m	East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310679	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310680	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310681	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310682	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310683	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310684	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310685	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310686	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310687	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310688	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310689	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310690	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310691	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310692	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310693	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310694	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310695	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310696	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310697	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310698	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310699	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310700	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310701	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310702	Sec Bores (Use Unidentified)					09/12/1963	593m	East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
310703	Sec Bores (Use Unidentified)					09/12/1963	593m	East
310704	Sec Bores (Use Unidentified)					31/12/1970	593m	East
310705	Sec Bores (Use Unidentified)					05/06/1970	593m	East
310706	Sec Bores (Use Unidentified)					05/06/1970	593m	East
310707	Sec Bores (Use Unidentified)					12/03/1974	593m	East
310708	Sec Bores (Use Unidentified)					12/03/1974	593m	East
310709	Sec Bores (Use Unidentified)					12/03/1974	593m	East
310710	Sec Bores (Use Unidentified)					12/03/1974	593m	East
310711	Sec Bores (Use Unidentified)					12/03/1974	593m	East
WRK105789	Observation	0.00m-0.12m CONcrete 0.12m-1.30m FILL 1.30m-2.85m SILTy Clay Grye/brown 2.85m-8.00m Weathered Basalt 8.00m-10.50m SANDy Clay	0.00m-4.50m INNER LINING - CASING = UPVC class 12 4.50m-10.50m INNER LINING - SCREEN = UPVC class 12 0.20m-3.00m OUTER LINING - GRAVEL = Cement 3.00m-4.00m OUTER LINING - GRAVEL = Bentonite 4.00m-10.50m OUTER LINING - GRAVEL = Seal			17/04/2018	675m	North
WRK960381	Groundwater Investigation	0.00m-2.00m FILL 2.00m-6.00m CLAY 6.00m-15.20m SAND & GRAVEL 15.20m-19.80m SILTSTONE	13.80m-16.80m INNER LINING - SLOT = Pvc 0.00m-4.70m OUTER LINING - GRAVEL = Cement 4.70m-6.00m OUTER LINING - GRAVEL = Bentonite 6.00m-19.80m OUTER LINING - GRAVEL = Packer			14/01/2003	699m	North
WRK100116	Investigation	0.00m-0.20m FILL 0.20m-5.00m CLAY 5.00m-9.00m CLAY 9.00m-11.00m SANDy Clay 11.00m-13.50m CLAY	0.00m-7.50m INNER LINING - CASING = UPVC class 12 7.50m-13.50m INNER LINING - SCREEN = UPVC class 12 0.00m-7.00m OUTER LINING - GRAVEL = Cement 7.00m-7.50m OUTER LINING - GRAVEL = Bentonite 7.50m-13.50m OUTER LINING - GRAVEL = Seal			02/05/2017	768m	North
WRK122267	Investigation						780m	North
WRK122268	Investigation						781m	North
WRK100117	Investigation	0.00m-0.20m FILL 0.20m-5.00m CLAY 5.00m-8.00m CLAYgrey 8.00m-11.00m SANDy Clay 11.00m-12.00m yellow brown	0.00m-7.00m INNER LINING - CASING = UPVC class 12 7.00m-12.00m INNER LINING - SCREEN = UPVC class 12 0.20m-6.00m OUTER LINING - GRAVEL = Cement 6.00m-6.50m OUTER LINING - GRAVEL = Bentonite 6.50m-12.00m OUTER LINING - GRAVEL = Seal			02/05/2017	785m	North
WRK046953							800m	South
WRK122266	Investigation						828m	North
WRK100115	Investigation	0.00m-3.00m CLAY 3.00m-7.00m CLAY 7.00m-10.00m SANDy Clay 10.00m-12.50m CLAY	0.00m-7.00m INNER LINING - CASING = UPVC class 12 7.00m-12.50m INNER LINING - SCREEN = UPVC class 12 0.00m-6.00m OUTER LINING - GRAVEL = Cement 6.00m-6.50m OUTER LINING - GRAVEL = Bentonite 6.50m-12.50m OUTER LINING - GRAVEL = Seal			02/05/2017	834m	North

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK057763	Domestic & Stock	0.00m-1.00m topsoil 1.00m-28.00m mudstone 28.00m-43.00m grey sandstone 43.00m-45.00m bluestone	0.00m-33.00m INNER LINING - CASING = Pvc 33.00m-39.00m INNER LINING - SLOT = Pvc 39.00m-45.00m INNER LINING - CASING = Pvc 19.00m-20.00m OUTER LINING - GRAVEL = Bentonite		0.00m-33.00m Mudstone 33.00m-39.00m Sandstone 39.00m-45.00m Basalt	06/07/2010	863m	South East
WRK098466	Investigation	0.00m-0.20m CONCRETE SLAB 0.20m-1.00m FILL MATERIAL 1.00m-3.50m SILTY CLAY 3.50m-9.00m SANDY CLAY 9.00m-12.00m SANDY CLAY 12.00m-15.00m SANDY CLAY 15.00m-19.00m SANDY CLAY 19.00m-22.70m SILTY CLAY	0.00m-16.70m INNER LINING - CASING = Pvc 16.70m-22.70m INNER LINING - SCREEN = Pvc 0.00m-15.00m OUTER LINING - GRAVEL = Cement 15.00m-16.00m OUTER LINING - GRAVEL = Bentonite 16.00m-22.70m OUTER LINING - GRAVEL = Seal		16.70m-22.70m Sand	03/03/2017	905m	North West
WRK043328	Domestic & Stock		13.00m-13.00m OUTER LINING - GRAVEL = Cement			07/02/2007	920m	West
112390	Groundwater Investigation	0.00m-0.13m CONCRETE 0.13m-0.50m SAND MEDIUM GREY MOIST DENSE 0.50m-3.50m SANDY CLAY RED/BROWN VERY STIFF 3.50m-5.50m CLAYEY SAND RED/BROWN DENSE 5.50m-11.00m SAND FINE YELLOW SOME GREY/SILTY 11.00m-12.00m SILT GREEN 12.00m-13.00m SILTY CLAY LIGHT BROWN 13.00m-15.00m SILTY CLAY WHITE MOIST STIFF	-0.10m-6.00m INNER LINING - CASING = Pvc 6.00m-15.00m INNER LINING - SCREEN = Pvc 8.00m-8.50m OUTER LINING - GRAVEL = Bentonite 8.50m-15.00m OUTER LINING - GRAVEL = Gravel		6.00m-15.00m Sand	08/11/1991	958m	North West
WRK960383	Groundwater Investigation	0.00m-2.00m FILL 2.00m-9.00m CLAY 9.00m-12.00m CLAYEY SAND 12.00m-15.00m SILTY CLAY 15.00m-20.25m SILTSTONE	0.00m-15.10m INNER LINING - CASING = Pvc 15.10m-18.00m INNER LINING - SCREEN = Pvc 18.00m-20.25m INNER LINING - CASING = Pvc 0.00m-3.00m OUTER LINING - GRAVEL = Bentonite 3.00m-20.25m OUTER LINING - GRAVEL = Not Known		15.10m-18.00m Siltstone 18.00m-20.25m Siltstone	14/01/2003	959m	North
WRK143870	Observation						963m	North West
WRK143871	Observation						969m	North West
112389	Groundwater Investigation	0.00m-0.13m CONCRETE 0.13m-2.00m SANDY CLAY BROWN VERY STIFF 2.00m-3.00m SANDY CLAY GREY STIFF 3.00m-4.00m CLAYEY SAND GREY/RED 4.00m-8.00m SAND FINE ORANGE/BROWN DENSE SOME GRAVEL	-0.10m-3.50m INNER LINING - CASING = Pvc 3.50m-8.00m INNER LINING - SCREEN = Pvc 2.00m-2.50m OUTER LINING - GRAVEL = Bentonite 2.50m-8.00m OUTER LINING - GRAVEL = Gravel		3.50m-8.00m Sand	08/11/1991	970m	North West
WRK143869	Observation						975m	North West
WRK143872	Observation						976m	North West
WRK106447	Investigation						980m	West
WRK106446	Investigation						981m	West
WRK960382	Groundwater Investigation	0.00m-5.00m CLAY 5.00m-10.00m SAND 10.00m-20.00m SANDY CLAY	0.00m-16.05m INNER LINING - CASING = Pvc 16.05m-19.05m INNER LINING - SCREEN = Pvc 0.00m-2.70m OUTER LINING - GRAVEL = Not Known 2.70m-3.70m OUTER LINING - GRAVEL = Bentonite 3.70m-20.00m OUTER LINING - GRAVEL = Packer		16.05m-19.05m Siltstone	14/01/2003	988m	North
WRK106448	Investigation						991m	West
WRK074502	Observation					01/01/2006	1054 m	North
WRK118673	Investigation						1129 m	East
WRK074501	Observation					01/01/2006	1142 m	North West

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK056527	Observation	0.00m-1.30m crushed basalt/fill 1.30m-3.00m brown clay 3.00m-7.00m silty clay 7.00m-7.50m siltstone 7.50m-14.00m silty sandy clay	0.00m-6.00m INNER LINING - CASING = Pvc 6.00m-14.00m INNER LINING - SCREEN = Pvc 0.10m-4.50m OUTER LINING - GRAVEL = Cement 4.50m-5.50m OUTER LINING - GRAVEL = Bentonite			15/07/2010	1199 m	South West
WRK979397							1209 m	South West
WRK979398							1209 m	South West
WRK992214							1214 m	South West
WRK074493	Observation					01/01/2006	1218 m	North
WRK059573	Observation	0.00m-0.40m fill 0.40m-4.50m clayey sand 4.50m-16.00m siltstone	0.00m-10.00m INNER LINING - CASING = Pvc 10.00m-16.00m INNER LINING - SLOT = Pvc 0.00m-7.00m OUTER LINING - GRAVEL = Cement 7.00m-9.00m OUTER LINING - GRAVEL = Bentonite 9.00m-16.00m OUTER LINING - GRAVEL = Gravel		10.00m-16.00m Siltstone	03/11/2010	1319 m	North East
WRK061257	Observation	0.00m-0.14m FILL 2.30m-9.30m CLAY 9.30m-11.50m SILTSTONE	0.00m-7.00m INNER LINING - CASING = Pvc 7.00m-11.50m INNER LINING - SCREEN = Pvc 0.00m-5.80m OUTER LINING - GRAVEL = Cement 5.80m-6.90m OUTER LINING - GRAVEL = Bentonite 6.90m-11.50m OUTER LINING - GRAVEL = Gravel		0.00m-7.00m Clay 7.00m-11.50m Siltstone	04/03/2011	1332 m	North East
WRK061258	Observation		7.00m-11.50m INNER LINING - CASING = Pvc			04/03/2011	1332 m	North East
WRK110138	Observation						1335 m	East
WRK983261							1337 m	North East
WRK061256	Observation	0.00m-0.16m FILL 2.30m-7.30m CLAY 7.30m-11.00m SILTSTONE	0.00m-7.00m INNER LINING - CASING = Pvc 7.00m-11.00m INNER LINING - SCREEN = Pvc 0.00m-5.30m OUTER LINING - GRAVEL = Cement 5.30m-6.80m OUTER LINING - GRAVEL = Bentonite 6.80m-11.00m OUTER LINING - GRAVEL = Gravel		0.00m-7.00m Clay 7.00m-11.00m Siltstone	04/03/2011	1344 m	North East
WRK059572	Observation	0.00m-2.90m fill 2.90m-5.70m silty clay 5.70m-9.00m siltstone	0.00m-4.50m INNER LINING - CASING = Pvc 4.50m-9.00m INNER LINING - SLOT = Pvc 0.00m-2.00m OUTER LINING - GRAVEL = Cement 2.00m-4.00m OUTER LINING - GRAVEL = Bentonite 4.00m-9.00m OUTER LINING - GRAVEL = Gravel		0.00m-4.50m Clay 4.50m-9.00m Siltstone		1346 m	North East
WRK108022	Observation	0.00m-0.50m FILL 0.50m-1.30m CLAYgrey 1.30m-10.50m SILTy sand grey 10.50m-12.00m SILTy clay grey 12.00m-20.00m SILT	0.00m-17.00m INNER LINING - CASING = Pvc 17.00m-20.00m INNER LINING - SCREEN = Pvc 0.00m-16.00m OUTER LINING - GRAVEL = Cement 16.00m-16.50m OUTER LINING - GRAVEL = Bentonite 16.50m-20.00m OUTER LINING - GRAVEL = Gravel			15/08/2018	1348 m	South West
WRK095244	Observation	0.00m-0.80m FILL 0.80m-15.00m SILTSTONE	0.00m-8.00m INNER LINING - CASING = UPVC class 12 8.00m-15.00m INNER LINING - SCREEN = UPVC class 12 0.00m-6.00m OUTER LINING - GRAVEL = Cement 6.00m-7.00m OUTER LINING - GRAVEL = Bentonite 7.00m-15.00m OUTER LINING - GRAVEL = Gravel			03/08/2016	1358 m	North East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK107221	Observation	0.00m-0.50m FILLMATERIAL 0.50m-1.50m SILTY SANDY CLAY 1.50m-3.50m SANDY CLAY - BROWN AND GREY 3.50m-9.00m SILTY SAND	0.00m-6.00m INNER LINING - CASING = Pvc 6.00m-9.00m INNER LINING - SCREEN = Pvc 0.00m-5.50m OUTER LINING - GRAVEL = Cement 5.50m-6.00m OUTER LINING - GRAVEL = Bentonite 6.00m-9.00m OUTER LINING - GRAVEL = Gravel			25/06/2018	1359 m	South West
WRK108023	Observation	0.00m-0.60m FILL 0.60m-3.00m SILTY clay gret 3.00m-8.80m SILTY sand grey	0.00m-5.80m INNER LINING - CASING = Pvc 5.80m-8.80m INNER LINING - SCREEN = Pvc 0.00m-5.10m OUTER LINING - GRAVEL = Cement 5.10m-5.60m OUTER LINING - GRAVEL = Bentonite 5.60m-8.80m OUTER LINING - GRAVEL = Gravel			15/08/2018	1362 m	South West
WRK139515	Observation						1363 m	South East
WRK108026	Observation	0.00m-0.50m FILL 0.50m-6.00m SILTY SAND 6.00m-7.50m GRAVELLY SAND GREY RED 7.50m-9.00m CEMENTED SAND	0.00m-6.00m INNER LINING - CASING = Pvc 6.00m-9.00m INNER LINING - SCREEN = Pvc 0.00m-5.00m OUTER LINING - GRAVEL = Cement 5.00m-5.50m OUTER LINING - GRAVEL = Bentonite 5.50m-9.00m OUTER LINING - GRAVEL = Gravel			17/08/2018	1365 m	South West
WRK139513	Observation						1365 m	South East
WRK991818	Observation					03/09/2009	1365 m	West
WRK991819	Observation					03/09/2009	1365 m	West
WRK991820	Observation					02/09/2009	1365 m	West
WRK095242	Observation	0.00m-1.50m FILL 1.50m-7.50m SILTClay 7.50m-15.00m Weathered Slat	0.00m-8.00m INNER LINING - CASING = UPVC class 12 8.00m-15.00m INNER LINING - SCREEN = UPVC class 12 0.00m-6.00m OUTER LINING - GRAVEL = Cement 6.00m-7.00m OUTER LINING - GRAVEL = Bentonite 7.00m-15.00m OUTER LINING - GRAVEL = Gravel			03/08/2016	1367 m	North East
WRK139514	Observation						1367 m	South East
WRK991816	Observation	0.00m-14.00m soil 14.00m-25.00m basalt	0.00m-19.00m INNER LINING - CASING = Pvc 19.00m-25.00m INNER LINING - SCREEN = Pvc 0.00m-17.00m OUTER LINING - GRAVEL = Cement 17.00m-18.00m OUTER LINING - GRAVEL = Bentonite 18.00m-25.00m OUTER LINING - GRAVEL = Gravel		0.00m-19.00m 19.00m-25.00m Basalt	03/09/2009	1368 m	West
WRK108025	Observation	0.00m-0.50m FILL 0.50m-0.80m SILTY sand grey 0.80m-1.40m CLAYbrown 1.50m-2.00m FERous cemented sand 2.00m-9.00m SILTY SAND BROWN 9.00m-16.50m CLAYSILT GREY MITTLED 16.50m-20.00m SILTSTONE	0.00m-17.00m INNER LINING - CASING = Pvc 17.00m-20.00m INNER LINING - SCREEN = Pvc 0.00m-16.00m OUTER LINING - GRAVEL = Cement 16.00m-16.50m OUTER LINING - GRAVEL = Bentonite 16.50m-20.00m OUTER LINING - GRAVEL = Gravel			16/08/2018	1374 m	South
WRK108027	Observation	0.00m-0.50m FILL 0.50m-3.60m CLAYGREY 3.60m-7.50m CEMENTED SAND RED 7.50m-9.00m SILTY SAND BROWN 9.00m-10.50m CLAYEY SILT BROWN 10.50m-20.00m SILTSTONEEXTREMELY WEATHERED	0.00m-17.00m INNER LINING - CASING = Pvc 17.00m-20.00m INNER LINING - SCREEN = Pvc 0.00m-16.00m OUTER LINING - GRAVEL = Cement 16.00m-16.50m OUTER LINING - GRAVEL = Bentonite 16.50m-20.00m OUTER LINING - GRAVEL = Gravel			17/08/2018	1377 m	South West

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK107222	Observation	0.00m-0.50m FILL 0.50m-1.00m SILTY SAND 1.00m-1.60m SANDCEMENTED BROWN 1.60m-3.00m SANDRED 3.00m-6.00m SILTY SAND RED & bROWN	0.00m-5.00m INNER LINING - CASING = Pvc 5.00m-6.00m INNER LINING - SCREEN = Pvc 0.00m-4.50m OUTER LINING - GRAVEL = Cement 4.50m-5.00m OUTER LINING - GRAVEL = Bentonite 5.00m-6.00m OUTER LINING - GRAVEL = Gravel			25/06/2018	1380 m	South West
WRK095243	Observation	0.00m-2.50m FILL 2.50m-8.00m SILTY Clay 8.00m-15.00m NOT KNOWN	0.00m-8.00m INNER LINING - CASING = UPVC class 12 8.00m-15.00m INNER LINING - SCREEN = UPVC class 12 0.00m-6.00m OUTER LINING - GRAVEL = Cement 6.00m-7.00m OUTER LINING - GRAVEL = Bentonite 7.00m-15.00m OUTER LINING - GRAVEL = Gravel			02/08/2016	1386 m	North East
WRK095241	Observation	0.00m-1.50m FILL 1.50m-7.50m SILTY Clay 7.50m-15.00m Weathered basalt	0.00m-8.00m INNER LINING - CASING = UPVC class 12 8.00m-15.00m INNER LINING - SCREEN = UPVC class 12 0.00m-6.00m OUTER LINING - GRAVEL = Cement 6.00m-7.00m OUTER LINING - GRAVEL = Bentonite			03/08/2016	1390 m	North East
WRK965586	Groundwater Investigation	0.00m-11.50m FILL, VAR LAYERS SILTY SANDY C 11.50m-13.50m MUD STONE, CREAMY BROWN SOIL	0.00m-6.00m INNER LINING - CASING = Pvc Class 18 6.00m-13.50m INNER LINING - SCREEN = Pvc Class 18 0.00m-5.00m OUTER LINING - GRAVEL = Cement 5.00m-6.00m OUTER LINING - GRAVEL = Bentonite 6.00m-13.50m OUTER LINING - GRAVEL = Seal			21/04/2004	1433 m	East
WRK074477	Observation					01/01/2006	1451 m	North
WRK074491	Observation					01/01/2006	1470 m	North
WRK096237	Investigation	0.00m-10.00m CLAY	0.00m-7.00m INNER LINING - CASING = UPVC class 12 7.00m-10.00m INNER LINING - SCREEN = UPVC class 12 0.00m-0.30m OUTER LINING - GRAVEL = Cement 0.30m-5.50m OUTER LINING - GRAVEL = Bentonite 5.50m-6.50m OUTER LINING - GRAVEL = Bentonite 6.50m-10.00m OUTER LINING - GRAVEL = Gravel			21/10/2016	1565 m	North West
WRK096236	Investigation	0.00m-10.00m CLAY	0.00m-7.00m INNER LINING - CASING = Pvc 7.00m-10.00m INNER LINING - SCREEN = Pvc 0.00m-0.30m OUTER LINING - GRAVEL = Cement 0.30m-6.50m OUTER LINING - GRAVEL = Bentonite 6.50m-10.00m OUTER LINING - GRAVEL = Gravel			21/10/2016	1579 m	North West
140042	Groundwater Investigation	0.00m-0.10m CONCRETE 0.10m-0.30m CRUSHED ROCK 0.30m-1.50m SILTY CLAY, GREY, PLASTIC, MOIST 1.50m-7.00m SANDY CLAY, BROWN, PLASTIC, MOIST 7.00m-10.00m SANDY SILT, BROWN, WET	0.00m-7.00m INNER LINING - CASING = Pvc Class 18 7.00m-10.00m INNER LINING - SCREEN = Pvc Class 18 0.00m-5.50m OUTER LINING - GRAVEL = Cement 5.50m-6.50m OUTER LINING - GRAVEL = Bentonite 6.50m-10.00m OUTER LINING - GRAVEL = Gravel			21/10/1999	1591 m	South East
140043	Groundwater Investigation	0.00m-0.20m CONCRETE 0.20m-0.40m CRUSHED ROCK 0.40m-6.50m SILTY CLAY, GREY, MOIST, PLASTIC 6.50m-7.50m SILTY CLAY, BROWN MOIST, PLASTIC 7.50m-10.00m SANDY SILT, BROWN, WET	0.00m-7.00m INNER LINING - CASING = Pvc Class 18 7.00m-10.00m INNER LINING - SCREEN = Pvc Class 18 0.00m-5.50m OUTER LINING - GRAVEL = Cement 5.50m-6.50m OUTER LINING - GRAVEL = Bentonite 6.50m-10.00m OUTER LINING - GRAVEL = Gravel			20/10/1999	1591 m	South East

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
140044	Groundwater Investigation	0.00m-0.20m ASPHALT 0.20m-0.40m CRUSHED ROCK 0.40m-7.00m SANDY CLAY, BROWN, PLASTIC, MOIST 7.00m-9.00m SANDY SILT, BROWN, WET	0.00m-6.00m INNER LINING - CASING = Pvc Class 18 6.00m-9.00m INNER LINING - SCREEN = Pvc Class 18 0.00m-4.50m OUTER LINING - GRAVEL = Cement 4.50m-5.50m OUTER LINING - GRAVEL = Bentonite 5.50m-9.00m OUTER LINING - GRAVEL = Gravel			11/01/2000	1591 m	South East
WRK048010	Groundwater Investigation	0.00m-1.50m CLAY FILL, BROWN 1.50m-7.00m SILTY CLAY, BROWN, MODERATE PLASTICITY, MOIST 7.00m-10.00m SANDY SILT, BROWN, WET	0.00m-7.00m INNER LINING - CASING = Pvc Class 18 7.00m-10.00m INNER LINING - SCREEN = Pvc Class 18 0.00m-5.50m OUTER LINING - GRAVEL = Cement 5.50m-6.50m OUTER LINING - GRAVEL = Bentonite 6.50m-10.00m OUTER LINING - GRAVEL = Gravel			20/08/1999	1591 m	South East
WRK074496	Observation					01/01/2006	1600 m	North
WRK059574	Observation	0.00m-3.60m fill 3.60m-10.00m silty clay	0.00m-4.50m INNER LINING - CASING = Pvc 4.50m-10.00m INNER LINING - SLOT = Pvc 0.00m-2.00m OUTER LINING - GRAVEL = Cement 2.00m-4.00m OUTER LINING - GRAVEL = Bentonite 4.00m-10.00m OUTER LINING - GRAVEL = Gravel		4.50m-10.00m Clay	04/11/2010	1604 m	North
WRK144421	Observation						1611 m	North West
WRK963742	Domestic & Stock, Groundwater Investigation	0.00m-1.25m FILL 1.25m-11.20m SILTY CLAY 11.20m-12.00m SANDY CLAY	0.50m-12.00m INNER LINING - CASING = Pvc 12.00m-18.00m INNER LINING - SCREEN = Pvc 0.00m-1.00m OUTER LINING - GRAVEL = Cement 1.00m-18.00m OUTER LINING - GRAVEL = Gravel			11/10/2003	1656 m	South East
WRK131644	Investigation						1671 m	South East
WRK119594	Observation						1683 m	South East
WRK131649	Investigation						1684 m	South East
WRK119598	Observation						1693 m	South East
WRK131645	Investigation						1693 m	South East
WRK144422	Observation						1693 m	North West
WRK119595	Observation						1694 m	South East
WRK131646	Investigation						1702 m	South East
WRK119597	Observation						1703 m	South East
WRK131648	Investigation						1703 m	South East
WRK131650	Investigation						1712 m	South East
WRK144420	Observation						1714 m	North West
WRK119596	Observation						1716 m	South East
WRK131651	Investigation						1720 m	South East
WRK131647	Investigation						1725 m	South East
WRK131642	Investigation						1726 m	South East
WRK119599	Observation						1733 m	South East
WRK144419	Observation						1735 m	North West

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK131643	Investigation						1736 m	South East
WRK143096	Observation						1750 m	South
WRK132648	Investigation						1766 m	West
WRK123187	Investigation						1770 m	South
WRK130410	Investigation						1772 m	South
WRK143095	Observation						1773 m	South
WRK106269	Investigation	0.00m-0.40m FILL 0.40m-12.00m SANDY CLAY ORANGE BROWN BECOMING MOIST AT DEPTH	0.00m-6.00m INNER LINING - CASING = Pvc Class 18 6.00m-12.00m INNER LINING - SCREEN = Pvc Class 18 0.00m-5.00m OUTER LINING - GRAVEL = Cement 5.00m-5.50m OUTER LINING - GRAVEL = Bentonite 5.50m-12.00m OUTER LINING - GRAVEL = Gravel			12/05/2018	1782 m	South
WRK143097	Observation						1782 m	South
WRK123188	Investigation						1783 m	South
121432	Groundwater Investigation	0.00m-0.50m CURB BLUESTONE 0.50m-17.00m FIRM CLAYEY SANDS YELLOW/BROWN 17.00m-21.30m COARSE DENSE SANDS 21.30m-35.40m SILTY SANDS F & C YELLOW/BROWN 35.40m-43.20m GRAVELLY SILTY SAND YELLOW/BROWN WITH SILTY CLAY LAYERS	-0.20m-32.20m INNER LINING - CASING = Pvc Class 18 0.00m-43.20m INNER LINING - CASESCRN = Not Known 32.20m-41.20m INNER LINING - SCREEN = Not Known 41.20m-42.20m INNER LINING - CASING = Pvc Class 18 0.00m-1.02m OUTER LINING - GRAVEL = Cement 23.00m-24.00m OUTER LINING - GRAVEL = Bentonite 24.00m-43.20m OUTER LINING - GRAVEL = Gravel		0.00m-32.20m	12/12/1993	1784 m	North West
WRK143094	Observation						1784 m	South
WRK143093	Observation						1788 m	South
WRK123189	Investigation						1800 m	South
WRK143099	Observation						1809 m	South
WRK143098	Observation						1823 m	South
WRK047099	Irrigation	0.00m-0.50m TOP SOIL/FILL 0.50m-9.00m BRIGHTON GROUP SANDS 9.00m-12.00m SILTY CLAY 12.00m-24.00m SILTY SANDY CLAY WITH IRONSTONE LAYERS 24.00m-38.00m SILTY CLAY 38.00m-52.00m SILTSTONE 52.00m-85.00m SILTSTONE DARK GREY	0.00m-52.00m INNER LINING - CASING = Pvc 52.00m-110.00m INNER LINING - CASING = Pvc 110.00m-122.00m INNER LINING - SLOT = Pvc 14.00m-15.00m OUTER LINING - GRAVEL = Packer			21/10/2008	1827 m	North West
WRK056711	Domestic & Stock	0.00m-0.30m SOIL 0.30m-30.50m CLAY 30.50m-30.80m SAND 30.80m-34.00m CLAY 34.00m-40.00m SAND	0.00m-34.00m INNER LINING - CASING = Pvc 34.00m-40.00m INNER LINING - SCREEN = Pvc 0.00m-26.00m OUTER LINING - GRAVEL = Cement 26.00m-30.00m OUTER LINING - GRAVEL = Bentonite 30.00m-40.00m OUTER LINING - GRAVEL = Gravel		34.00m-40.00m Sand	25/08/2010	1855 m	West
WRK992146							1860 m	South East
WRK070241	Observation					12/09/2012	1928 m	South
60706	Groundwater Investigation	0.00m-0.45m CONCRETE & FILL 0.45m-0.80m SILTY BROWN CLAY 0.80m-7.50m STIFF BROWN/GINGER MOTTLED CLAY 7.50m-10.00m DENSE SILTY FINE SANDS	-0.30m-5.50m INNER LINING - CASING = Pvc 5.50m-10.00m INNER LINING - SCREEN = Pvc		5.50m-10.00m Sand	01/05/1991	1952 m	South

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Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
60707	Groundwater Investigation	0.00m-0.50m FILLING 0.50m-0.80m SILTY BROWN CLAY 0.80m-7.80m STIFF BROWN CLAY 7.80m-11.00m DENSE SILTY SANDS	-0.30m-5.00m INNER LINING - CASING = Pvc 5.00m-11.00m INNER LINING - SCREEN = Pvc		5.00m-11.00m Sand	01/05/1991	1952 m	South
60708	Groundwater Investigation	0.00m-0.60m FILLING 0.60m-3.60m SOFT WET SANDS 3.60m-5.30m STIFF BROWN CLAY 5.30m-7.50m VERY STIFF BROWN CLAY 7.50m-9.00m MEDIUM SILTY SANDS 9.00m-13.00m DENSE SILTY SANDS	-0.30m-5.00m INNER LINING - CASING = Pvc 5.00m-13.00m INNER LINING - SCREEN = Pvc		5.00m-13.00m Sand	02/05/1991	1952 m	South
60709	Groundwater Investigation	0.00m-0.50m FILLING 0.50m-0.70m SOFT BLACK ASH 0.70m-7.00m FIRM MOTTLED SILTY CLAY 7.00m-11.00m DENSE SILTY SANDS	-0.30m-6.50m INNER LINING - CASING = Pvc 6.50m-11.00m INNER LINING - SCREEN = Pvc		6.50m-11.00m Sand	02/05/1991	1952 m	South
WRK981158							1969 m	South East
WRK983839	Domestic & Stock	0.00m-3.00m brown clay 3.00m-50.00m medium to coarse gravels 50.00m-70.00m grey mudstone 70.00m-75.00m grey sandstone 75.00m-105.00m grey mudstone 105.00m-120.00m basalt	0.00m-102.00m INNER LINING - CASING = Pvc 102.00m-114.00m INNER LINING - SLOT = Pvc 0.00m-45.00m OUTER LINING - GRAVEL = Cement 64.00m-65.00m OUTER LINING - GRAVEL = Bentonite			19/06/2009	1970 m	North West
WRK070036	Observation					06/09/2012	1983 m	South
WRK110898	Observation						1988 m	South
WRK138794	Observation						1992 m	East

Boreholes WMIS Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Boreholes (Earth Resources Database)

Boreholes from the Earth Resources dataset, within the dataset buffer:

Bore Id	Bore Type	Company	Usage	Method	Status	Drill Date	Depth	Elevation	Accuracy (m)	Dist (m)	Dir
N/A	No records in buffer										

Boreholes Earth Resources Data Source: © The State of Victoria, Department of Economic Development, Jobs, Transport and Resources 2015. Creative Commons Attribution 3.0 Australia

Boreholes (Federation University)

Boreholes from the Federation University Australia dataset, within the dataset buffer:

Bore Id	Authority	Type	Uses	Initial TD	Log	Dist (m)	Dir
N/A	No records in buffer						

Boreholes FedUni Data Source: © Federation University Australia

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Historical Mining Activity - Shafts

102 Wilson Street, Mooney Ponds, VIC 3039

Historical Mining Activity - Shafts

Mine Shaft Locations were collected by a variety of methods from 1869 in some areas of the state, mainly concentrating in Ballarat and Bendigo. In places a shaft may be recorded multiple times with a different source. In cases where several shaft locations are shown close together (generally with separations less than stated position errors) and they have different sources, it is possible that one shaft has been mapped several times. In cases where several shaft locations are shown close together but they have the same information source, it is possible that each shaft location represents a different shaft on the ground.

Historical Mine Shafts within the dataset buffer:

Map Id	Name	Source	Depth (m)	Collar (ft)	Fill/Cap Method	Location Desc	Location Accuracy	Distance	Direction
N/A	No records in buffer								

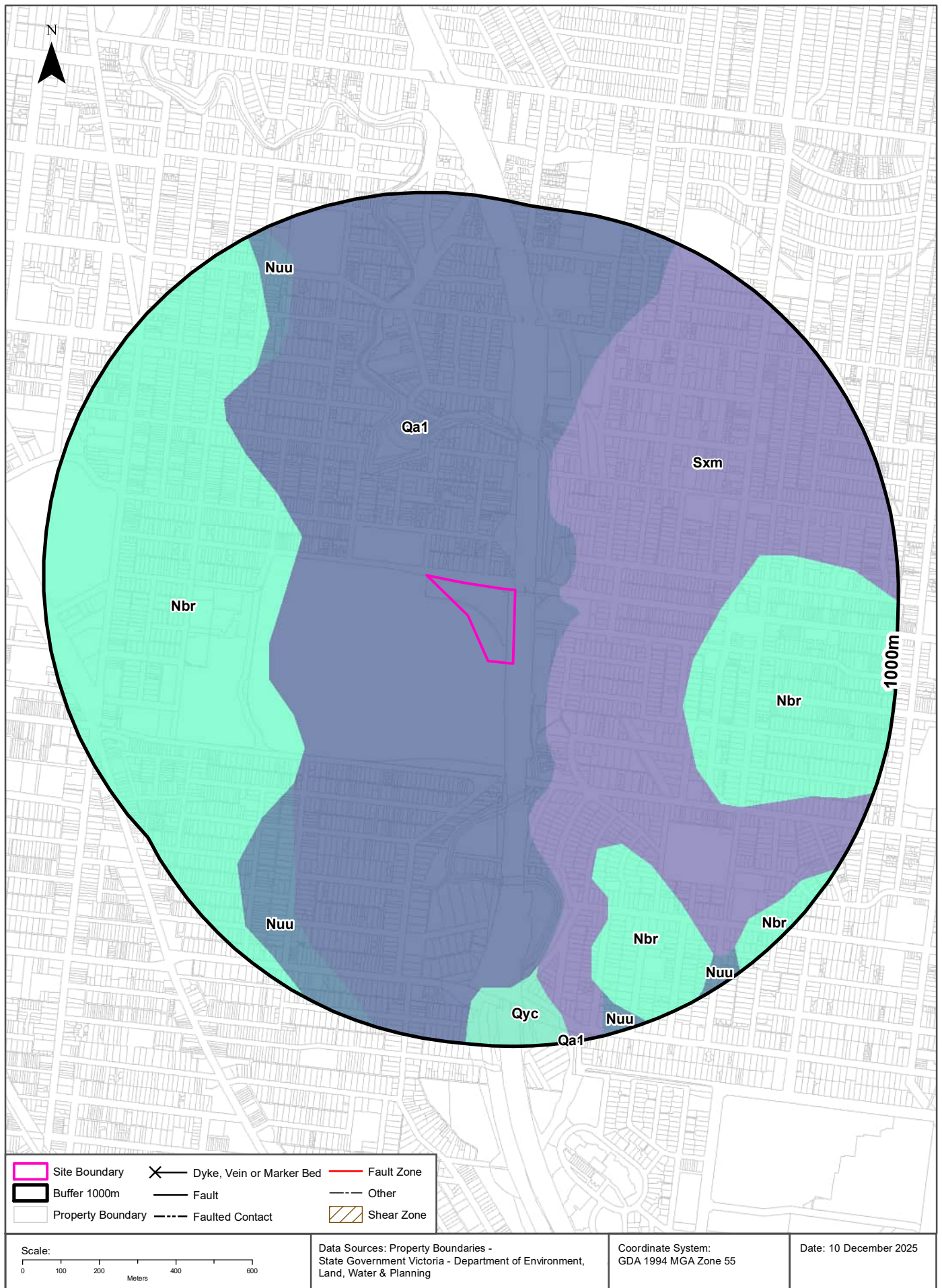
Historical Mining Activity Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
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Geology

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Geology

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Geological Units 1:50,000

What are the Geological Units within the dataset buffer?

Symbol	Name	Description	Geological Age	Lithology	Distance	Direction
Qa1	alluvium(Qa1): generic	Gravel, sand, silt: variably sorted and rounded; generally unconsolidated; includes deposits of low terraces; alluvial floodplain deposits	Pleistocene to Holocene	gravel material (significant); sand (significant); silt material (significant)	0m	On-site
Sxm	Melbourne Formation(Sxm): generic	Siltstone and sandstone: mainly thin-bedded; most beds show undisturbed Bouma sequences.	Silurian to Silurian	sandstone (major proportion); siltstone (major proportion)	98m	East
Nbr	Red Bluff Sandstone (Nbr): generic	Sandstone, conglomerate: pale yellow and brown; fine to coarse-grained, massive to well bedded; cross-bedded; local ironstone	Miocene to Pliocene	conglomerate (significant); sandstone (significant)	342m	West
Nuu	Tullamarine Basalt (Nuu): generic	Lava flows: alkali olivine basalt	Aquitanian to Burdigalian	basalt (all)	598m	South West
Qyc	Coode Island Silt(Qyc): generic	Black silt, clay: lagoon deposits; abundant marine fossils including bivalves, gastropods, barnacles and foraminifera.	Holocene to Holocene	silt material (major proportion); clay lithology (minor proportion)	790m	South

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
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Geological Structures 1:50,000

What are the Geological Faults or Faulted Contacts within the dataset buffer?

Map Id	Type	Name	Contact	Positional Accuracy	Distance	Direction
N/A	No records in buffer					

What are the Dykes, Marker Beds and Veins within the dataset buffer?

Map Id	Type	Name	Description	Positional Accuracy	Distance	Direction
N/A	No records in buffer					

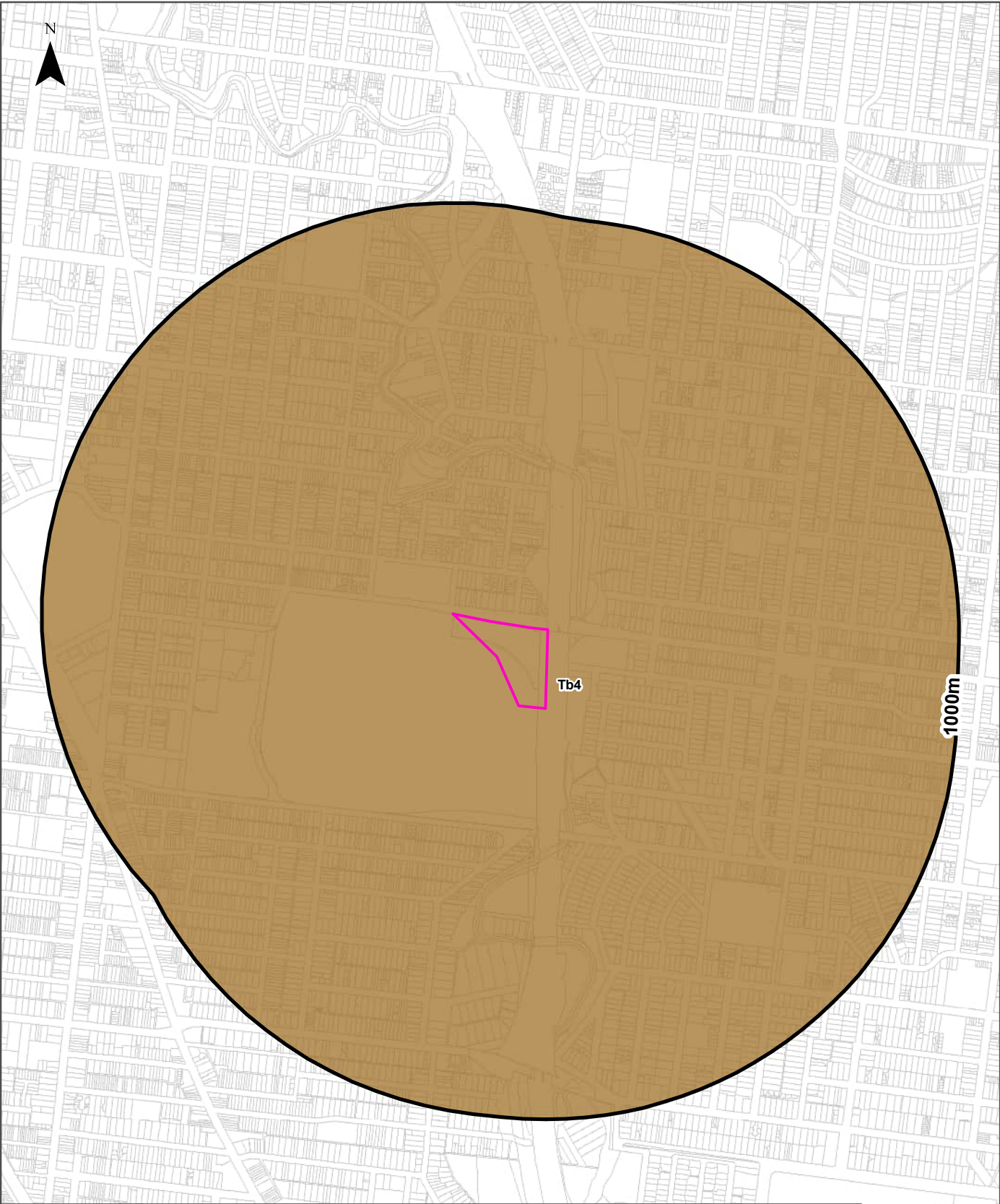
Geological Structures 1:250,000

What are the Shear Zones within the dataset buffer?

Map Id	Type	Name	Description	Positional Accuracy	Distance	Direction
N/A	No records in buffer					

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Legend

- Site Boundary
- Buffer 1000m
- Property Boundary

Australian Soil Classification Orders

Anthroposol	Dermosol	Kandosol	Podosol	Tenosol	No Data
Calcarosol	Ferrosol	Kurosol	Rudosol	Vertosol	
Chromosol	Hydrosol	Organosol	Sodosol	Lake	

Scale: 0 100 200 400 600 Meters

Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning

Coordinate System: GDA 1994 MGA Zone 55

Date: 10 December 2025

Soils

102 Wilson Street, Mooney Ponds, VIC 3039

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
Tb4	Sodosol	Undulating to hilly, dissected by streams with narrow to moderate expanses of flats: gentle to steep slopes of hard acidic ,yellow mottled soils (Dy3.41 and Dy3.81) with (Dy5.41 and Dy5.81), some areas of shallow grey-brown sandy soils (Uc6.11) on upper slopes and various (D) soils including (Db2.42 and Dd1.l) and also leached sands (Uc2.3) on mid and lower slopes; valley plains of (Dy3.41) with some areas of leached sands (Uc2.2 and Uc2.3), with flats and former swampy areas of dark cracking clays (Ug5.16, acid or neutral in reaction) and smaller areas of other soils including (Gn), (Ug), and (Dd3) soils, some of which have peaty surfaces; small areas of units Ob6 in the western part, and Pb3 in the south-eastern part of the unit.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO

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Soils

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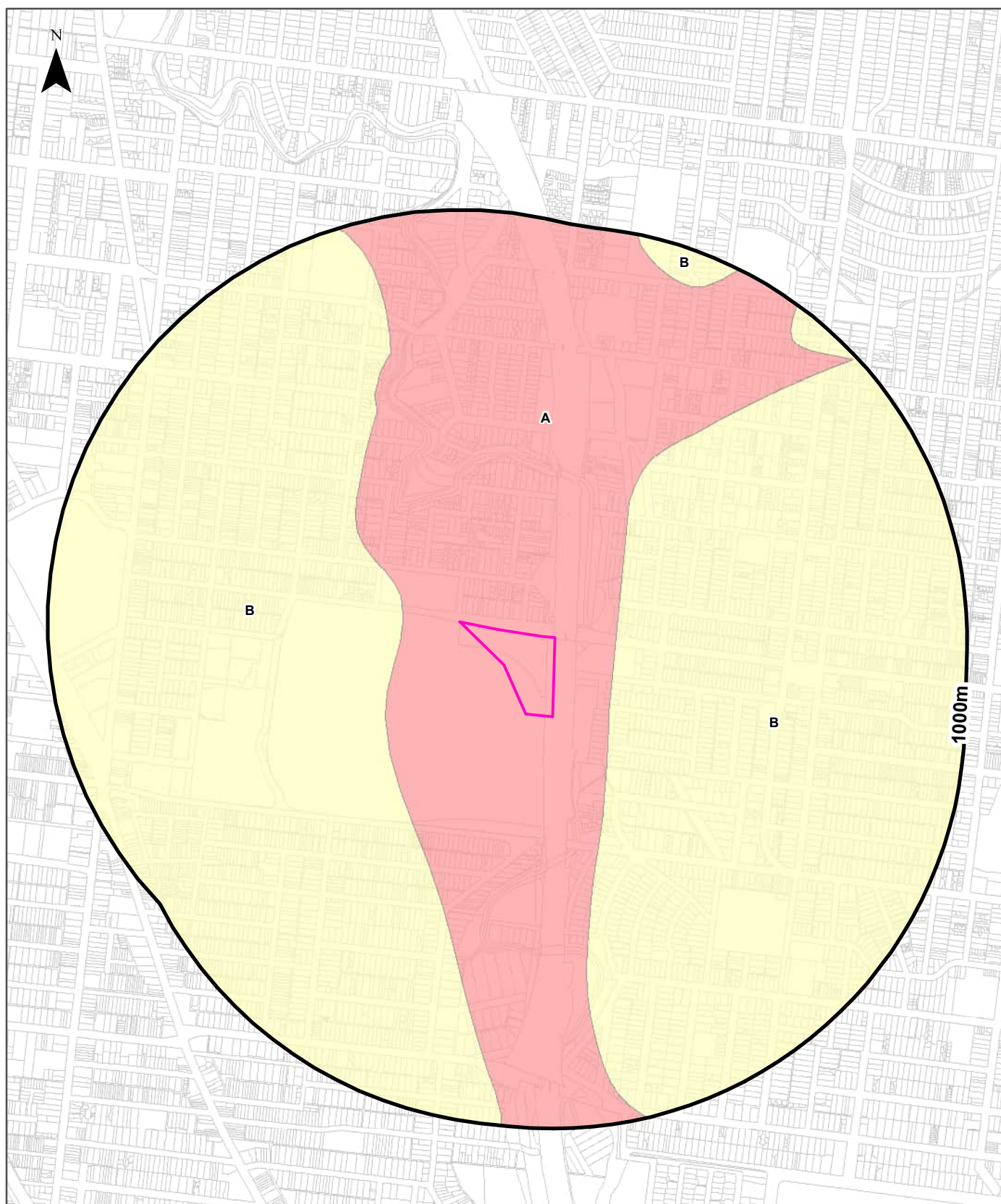
Victorian Soil Type Mapping

Victorian Soil Types within the dataset buffer:

Symbol	Description	Distance	Direction
N/A	No records in buffer		

Victorian Soil Type Mapping Data Source: Department of Economic Development, Jobs, Transport and Resources
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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 & Topographic Data:
State of Victoria - Department of Environment and Primary
Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 10 December 2025

Acid Sulfate Soils

102 Wilson Street, Mooney Ponds, VIC 3039

Atlas of Australian Acid Sulfate Soils

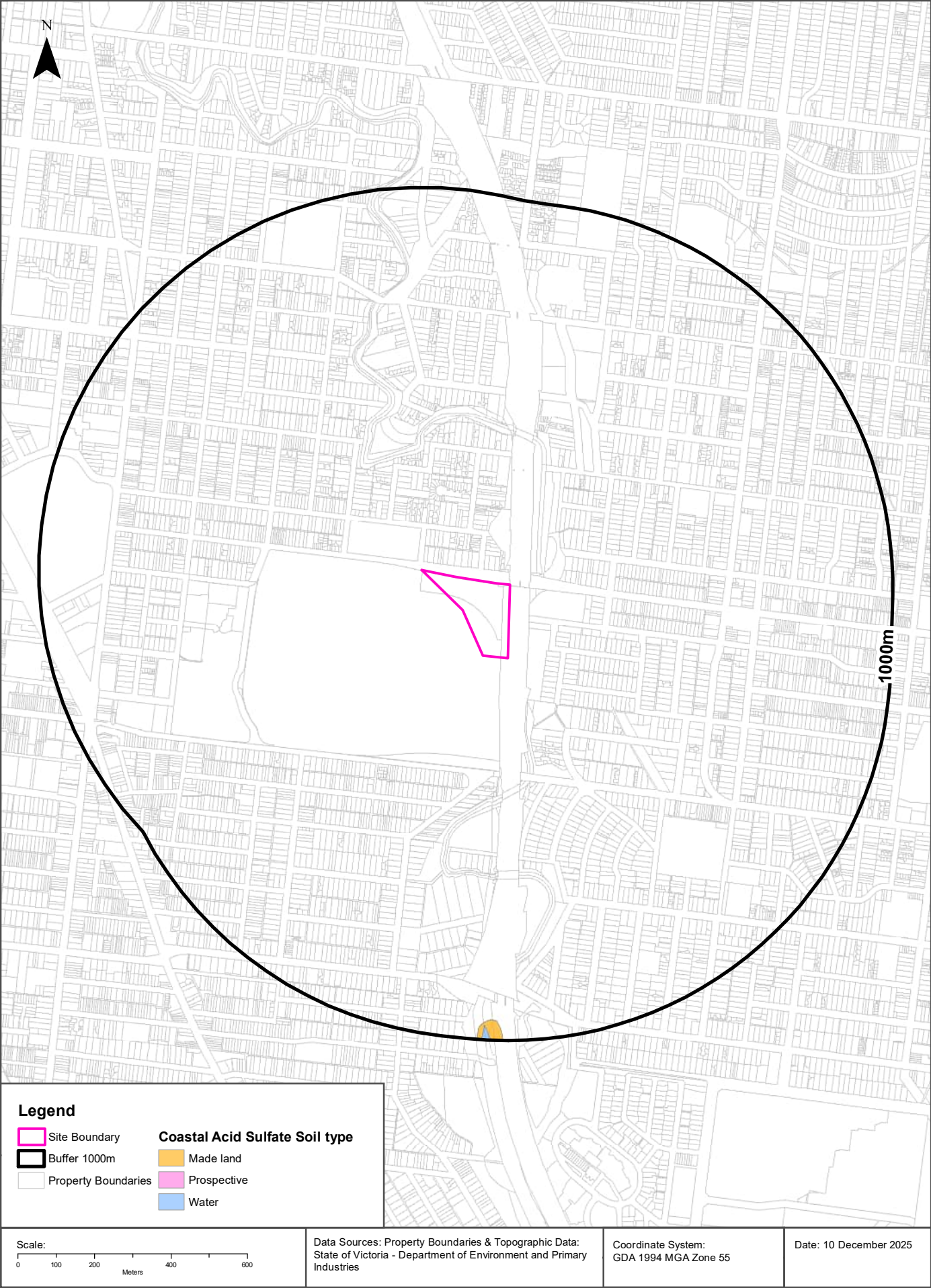
Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance	Direction
A	High Probability of occurrence. >70% chance of occurrence.	0m	On-site
B	Low Probability of occurrence. 6-70% chance of occurrence.	135m	East

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Acid Sulfate Soils

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Coastal Acid Sulfate Soils

Coastal Acid Sulfate Soil types within the dataset buffer:

Coastal Acid Sulfate Soil Types	Distance (m)	Direction
Made land	944	South
Water	958	South

Coastal Acid Sulfate Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Planning Zones

Planning zones within the dataset buffer:

Zone Code	Description	Distance	Direction
MUZ2	MIXED USE ZONE - SCHEDULE 2	0m	On-site
SUZ2	SPECIAL USE ZONE - SCHEDULE 2	0m	On-site
TRZ2	TRANSPORT ZONE 2 - PRINCIPAL ROAD NETWORK	0m	On-site
R1Z	GENERAL RESIDENTIAL ZONE	0m	On-site
PUZ2	PUBLIC USE ZONE - EDUCATION	14m	North West
PPRZ	PUBLIC PARK AND RECREATION ZONE	49m	North East
NRZ1	NEIGHBOURHOOD RESIDENTIAL ZONE - SCHEDULE 1	65m	South East
PPRZ	PUBLIC PARK AND RECREATION ZONE	65m	South East
PPRZ	PUBLIC PARK AND RECREATION ZONE	72m	North East
PPRZ	PUBLIC PARK AND RECREATION ZONE	85m	North
TRZ2	TRANSPORT ZONE 2 - PRINCIPAL ROAD NETWORK	96m	South
PPRZ	PUBLIC PARK AND RECREATION ZONE	191m	North
PPRZ	PUBLIC PARK AND RECREATION ZONE	249m	South
R1Z	GENERAL RESIDENTIAL ZONE	266m	South West
PPRZ	PUBLIC PARK AND RECREATION ZONE	286m	North
PPRZ	PUBLIC PARK AND RECREATION ZONE	308m	South East
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	310m	North East
PPRZ	PUBLIC PARK AND RECREATION ZONE	310m	South
TRZ2	TRANSPORT ZONE 2 - PRINCIPAL ROAD NETWORK	346m	South
UFZ	URBAN FLOODWAY ZONE	350m	North
PPRZ	PUBLIC PARK AND RECREATION ZONE	357m	North East
NRZ1	NEIGHBOURHOOD RESIDENTIAL ZONE - SCHEDULE 1	378m	North
PPRZ	PUBLIC PARK AND RECREATION ZONE	383m	South
TRZ2	TRANSPORT ZONE 2 - PRINCIPAL ROAD NETWORK	387m	North
PPRZ	PUBLIC PARK AND RECREATION ZONE	390m	South East
ACZ1	ACTIVITY CENTRE ZONE - SCHEDULE 1	426m	West
RGZ1	RESIDENTIAL GROWTH ZONE - SCHEDULE 1	472m	North East
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	490m	South East
C1Z	COMMERCIAL 1 ZONE	493m	East
MUZ1	MIXED USE ZONE - SCHEDULE 1	503m	North
MUZ1	MIXED USE ZONE - SCHEDULE 1	525m	East
PPRZ	PUBLIC PARK AND RECREATION ZONE	528m	South

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Zone Code	Description	Distance	Direction
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	548m	South East
TRZ1	TRANSPORT ZONE 1 - STATE TRANSPORT INFRASTRUCTURE	551m	East
TRZ4	TRANSPORT ZONE 4 - OTHER TRANSPORT USE	557m	East
RGZ1	RESIDENTIAL GROWTH ZONE - SCHEDULE 1	561m	East
PPRZ	PUBLIC PARK AND RECREATION ZONE	568m	South
TRZ2	TRANSPORT ZONE 2 - PRINCIPAL ROAD NETWORK	570m	South West
C1Z	COMMERCIAL 1 ZONE	573m	East
PUZ2	PUBLIC USE ZONE - EDUCATION	576m	South East
NRZ1	NEIGHBOURHOOD RESIDENTIAL ZONE - SCHEDULE 1	584m	East
RGZ1	RESIDENTIAL GROWTH ZONE - SCHEDULE 1	584m	East
MUZ1	MIXED USE ZONE - SCHEDULE 1	602m	East
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	604m	East
NRZ1	NEIGHBOURHOOD RESIDENTIAL ZONE - SCHEDULE 1	647m	East
C1Z	COMMERCIAL 1 ZONE	654m	North East
RGZ1	RESIDENTIAL GROWTH ZONE - SCHEDULE 1	671m	North East
PPRZ	PUBLIC PARK AND RECREATION ZONE	690m	North West
C1Z	COMMERCIAL 1 ZONE	698m	North
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	702m	North East
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	705m	North East
MUZ2	MIXED USE ZONE - SCHEDULE 2	713m	North
PPRZ	PUBLIC PARK AND RECREATION ZONE	713m	North
C1Z	COMMERCIAL 1 ZONE	754m	North East
B2Z	COMMERCIAL 1 ZONE	770m	North West
PPRZ	PUBLIC PARK AND RECREATION ZONE	790m	South East
NRZ1	NEIGHBOURHOOD RESIDENTIAL ZONE - SCHEDULE 1	800m	North East
C1Z	COMMERCIAL 1 ZONE	815m	North East
PPRZ	PUBLIC PARK AND RECREATION ZONE	818m	North West
PPRZ	PUBLIC PARK AND RECREATION ZONE	825m	West
R1Z	GENERAL RESIDENTIAL ZONE	833m	North West
ACZ1	ACTIVITY CENTRE ZONE - SCHEDULE 1	836m	West
PPRZ	PUBLIC PARK AND RECREATION ZONE	845m	North
R1Z	GENERAL RESIDENTIAL ZONE	861m	South
MUZ	MIXED USE ZONE	876m	North West
PPRZ	PUBLIC PARK AND RECREATION ZONE	882m	South
PPRZ	PUBLIC PARK AND RECREATION ZONE	892m	South
B2Z	COMMERCIAL 1 ZONE	894m	North West
RGZ1	RESIDENTIAL GROWTH ZONE - SCHEDULE 1	895m	North East

Zone Code	Description	Distance	Direction
PPRZ	PUBLIC PARK AND RECREATION ZONE	899m	North
MUZ	MIXED USE ZONE	916m	North West
SUZ1	SPECIAL USE ZONE - SCHEDULE 1	939m	South
RGZ1	RESIDENTIAL GROWTH ZONE - SCHEDULE 1	951m	North East
PUZ2	PUBLIC USE ZONE - EDUCATION	958m	North East
ACZ1	ACTIVITY CENTRE ZONE - SCHEDULE 1	966m	West
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	971m	North East
ACZ1	ACTIVITY CENTRE ZONE - SCHEDULE 1	975m	West
NRZ1	NEIGHBOURHOOD RESIDENTIAL ZONE - SCHEDULE 1	975m	South
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	990m	North East
R1Z	GENERAL RESIDENTIAL ZONE	992m	North West
B2Z	COMMERCIAL 1 ZONE	994m	South West

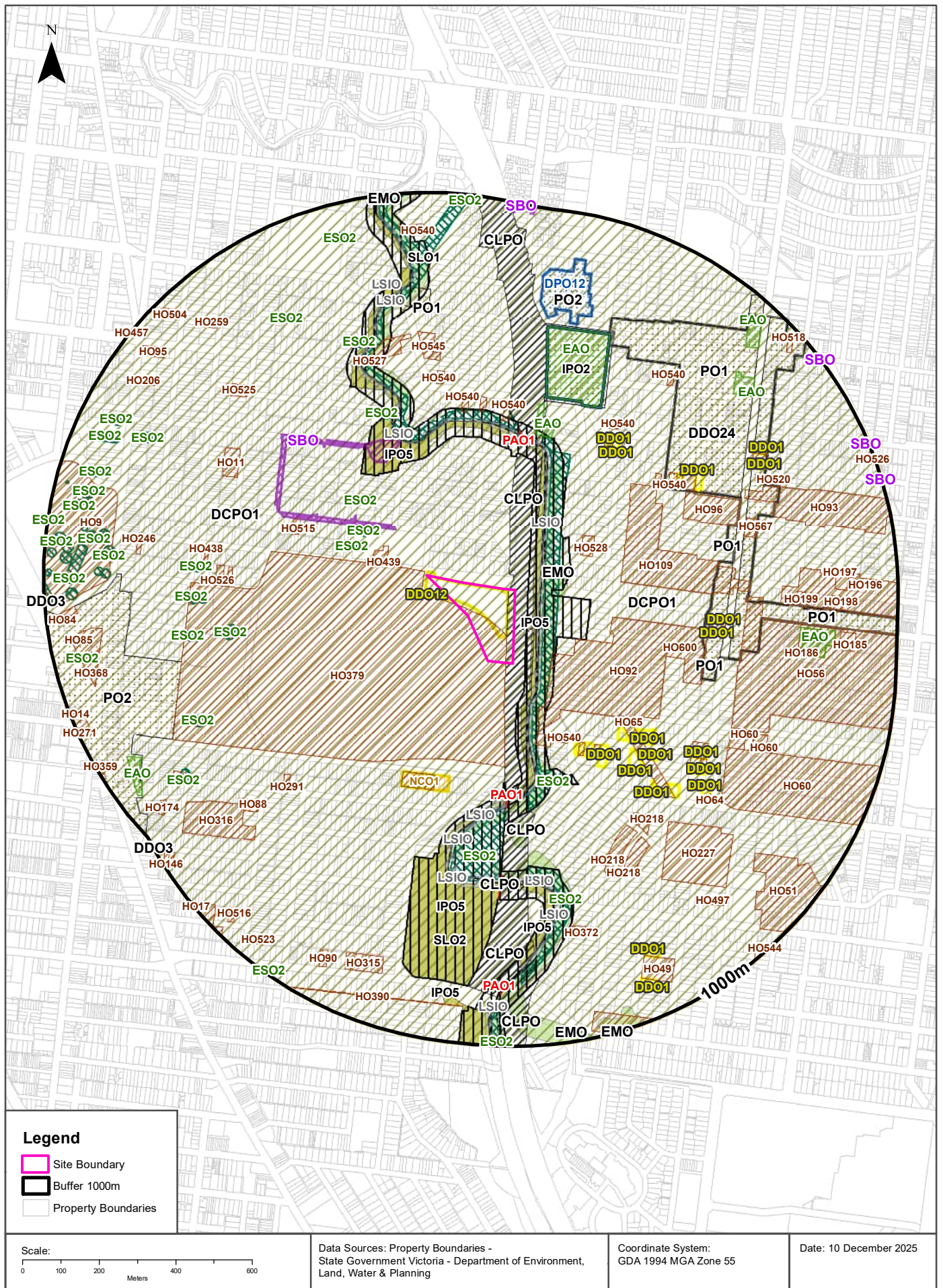
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Planning Overlays

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Planning

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Planning Overlays

Planning overlays within the dataset buffer:

Zone Code	Description	Distance	Direction
DCPO1	DEVELOPMENT CONTRIBUTIONS PLAN OVERLAY - SCHEDULE 1	0m	On-site
DDO12	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 12	0m	On-site
HO379	HERITAGE OVERLAY (HO379)	0m	On-site
CLPO	CITY LINK PROJECT OVERLAY	0m	On-site
SLO2	SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 2	31m	South
IPO5	INCORPORATED PLAN OVERLAY - SCHEDULE 5	45m	East
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	58m	North East
DCPO1	DEVELOPMENT CONTRIBUTIONS PLAN OVERLAY - SCHEDULE 1	65m	East
EMO	EROSION MANAGEMENT OVERLAY	65m	South East
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	65m	North East
SLO1	SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 1	65m	East
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	73m	East
HO92	HERITAGE OVERLAY (HO92)	97m	East
HO439	HERITAGE OVERLAY (HO439)	111m	North West
SBO	SPECIAL BUILDING OVERLAY	146m	North West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	177m	North West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	188m	North West
HO540	HERITAGE OVERLAY (HO540)	192m	South East
HO528	HERITAGE OVERLAY (HO528)	194m	North East
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	198m	North West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	259m	North West
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	260m	South East
HO540	HERITAGE OVERLAY (HO540)	268m	South East
HO109	HERITAGE OVERLAY (HO109)	276m	East
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	278m	South East
IPO5	INCORPORATED PLAN OVERLAY - SCHEDULE 5	286m	North
HO540	HERITAGE OVERLAY (HO540)	298m	South East
HO65	HERITAGE OVERLAY (HO65)	307m	South East
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	310m	South East
IPO5	INCORPORATED PLAN OVERLAY - SCHEDULE 5	312m	South
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	315m	South East
DDO11	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 11	317m	South

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Zone Code	Description	Distance	Direction
NCO1	NEIGHBOURHOOD CHARACTER OVERLAY - SCHEDULE 1	317m	South
HO463	HERITAGE OVERLAY (HO463)	327m	South
CLPO	CITY LINK PROJECT OVERLAY	329m	South
PAO1	PUBLIC ACQUISITION OVERLAY - PS MAP REF PAO1	334m	South
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	338m	South
HO515	HERITAGE OVERLAY (HO515)	352m	North West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	356m	North
PAO1	PUBLIC ACQUISITION OVERLAY - PS MAP REF PAO1	359m	South
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	361m	South East
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	362m	North West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	367m	South
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	373m	South
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	378m	South East
CLPO	CITY LINK PROJECT OVERLAY	382m	North
PAO1	PUBLIC ACQUISITION OVERLAY - PS MAP REF PAO1	388m	North
PAO1	PUBLIC ACQUISITION OVERLAY - PS MAP REF PAO1	403m	North
EAO	ENVIRONMENTAL AUDIT OVERLAY	410m	North
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	418m	South East
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	425m	North West
HO600	HERITAGE OVERLAY (HO600)	429m	East
HO540	HERITAGE OVERLAY (HO540)	432m	North
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	433m	North East
EMO	EROSION MANAGEMENT OVERLAY	436m	North
HO540	HERITAGE OVERLAY (HO540)	438m	North
HO540	HERITAGE OVERLAY (HO540)	444m	North East
HO540	HERITAGE OVERLAY (HO540)	450m	North
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	452m	North East
HO540	HERITAGE OVERLAY (HO540)	458m	North East
DDO24	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 24	472m	North East
PO1	PARKING OVERLAY - PRECINCT 1	472m	North East
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	474m	South East
HO96	HERITAGE OVERLAY (HO96)	476m	North East
HO540	HERITAGE OVERLAY (HO540)	484m	North East
HO540	HERITAGE OVERLAY (HO540)	489m	North East
EMO	EROSION MANAGEMENT OVERLAY	492m	South
PO1	PARKING OVERLAY - PRECINCT 1	493m	East
HO218	HERITAGE OVERLAY (HO218)	498m	South East

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Zone Code	Description	Distance	Direction
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	499m	North East
HO540	HERITAGE OVERLAY (HO540)	502m	North
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	507m	East
HO111	HERITAGE OVERLAY (HO111)	508m	East
HO527	HERITAGE OVERLAY (HO527)	508m	West
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	509m	South East
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	511m	East
HO540	HERITAGE OVERLAY (HO540)	511m	South East
EAO	ENVIRONMENTAL AUDIT OVERLAY	513m	North
HO218	HERITAGE OVERLAY (HO218)	513m	South East
IPO2	INCORPORATED PLAN OVERLAY - SCHEDULE 2	513m	North
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	516m	West
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	517m	South East
HO540	HERITAGE OVERLAY (HO540)	524m	South East
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	528m	South
HO526	HERITAGE OVERLAY (HO526)	530m	West
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	531m	South East
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	538m	North East
HO10	HERITAGE OVERLAY (HO10)	549m	South East
PAO1	PUBLIC ACQUISITION OVERLAY - PS MAP REF PAO1	551m	South
HO11	HERITAGE OVERLAY (HO11)	558m	North West
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	559m	South
HO218	HERITAGE OVERLAY (HO218)	560m	South East
PO1	PARKING OVERLAY - PRECINCT 1	561m	East
HO545	HERITAGE OVERLAY (HO545)	564m	North
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	566m	South
CLPO	CITY LINK PROJECT OVERLAY	568m	South
IPO5	INCORPORATED PLAN OVERLAY - SCHEDULE 5	568m	South
PAO1	PUBLIC ACQUISITION OVERLAY - PS MAP REF PAO1	570m	South
CLPO	CITY LINK PROJECT OVERLAY	571m	South
HO438	HERITAGE OVERLAY (HO438)	574m	West
HO227	HERITAGE OVERLAY (HO227)	576m	South East
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	578m	West
HO527	HERITAGE OVERLAY (HO527)	580m	North
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	584m	South East
HO56	HERITAGE OVERLAY (HO56)	584m	East
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	590m	West

ADVERTISED PLAN

Zone Code	Description	Distance	Direction
HO60	HERITAGE OVERLAY (HO60)	594m	South East
HO291	HERITAGE OVERLAY (HO291)	595m	South West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	601m	West
HO60	HERITAGE OVERLAY (HO60)	601m	South East
HO567	HERITAGE OVERLAY (HO567)	613m	East
HO64	HERITAGE OVERLAY (HO64)	613m	South East
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	619m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	620m	North West
HO93	HERITAGE OVERLAY (HO93)	645m	East
HO60	HERITAGE OVERLAY (HO60)	653m	South East
HO525	HERITAGE OVERLAY (HO525)	663m	North West
HO540	HERITAGE OVERLAY (HO540)	667m	North East
PO2	PARKING OVERLAY - PRECINCT 2	680m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	689m	West
HO196	HERITAGE OVERLAY (HO196)	693m	East
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	697m	North East
PO1	PARKING OVERLAY - PRECINCT 1	698m	North
HO372	HERITAGE OVERLAY (HO372)	700m	South
HO88	HERITAGE OVERLAY (HO88)	700m	South West
HO112	HERITAGE OVERLAY (HO112)	704m	North East
DPO12	DEVELOPMENT PLAN OVERLAY - SCHEDULE 12	713m	North
HO520	HERITAGE OVERLAY (HO520)	713m	North East
PO2	PARKING OVERLAY - PRECINCT 2	713m	North
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	719m	North East
HO199	HERITAGE OVERLAY (HO199)	733m	East
HO316	HERITAGE OVERLAY (HO316)	740m	South West
HO186	HERITAGE OVERLAY (HO186)	741m	East
EAO	ENVIRONMENTAL AUDIT OVERLAY	744m	East
HO246	HERITAGE OVERLAY (HO246)	750m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	753m	North West
CLPO	CITY LINK PROJECT OVERLAY	759m	South
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	760m	North West
EAO	ENVIRONMENTAL AUDIT OVERLAY	768m	North East
HO497	HERITAGE OVERLAY (HO497)	796m	South East
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	800m	North West
HO51	HERITAGE OVERLAY (HO51)	801m	South East
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	804m	South West

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Zone Code	Description	Distance	Direction
HO70	HERITAGE OVERLAY (HO70)	812m	South West
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	816m	South East
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	816m	West
HO315	HERITAGE OVERLAY (HO315)	818m	South
HO198	HERITAGE OVERLAY (HO198)	823m	East
HO9	HERITAGE OVERLAY (HO9)	825m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	826m	West
HO49	HERITAGE OVERLAY (HO49)	833m	South East
PAO1	PUBLIC ACQUISITION OVERLAY - PS MAP REF PAO1	833m	South
HO197	HERITAGE OVERLAY (HO197)	834m	East
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	835m	West
PAO1	PUBLIC ACQUISITION OVERLAY - PS MAP REF PAO1	847m	South
HO185	HERITAGE OVERLAY (HO185)	848m	East
HO259	HERITAGE OVERLAY (HO259)	848m	North West
HO85	HERITAGE OVERLAY (HO85)	858m	West
IPO5	INCORPORATED PLAN OVERLAY - SCHEDULE 5	861m	South
HO90	HERITAGE OVERLAY (HO90)	862m	South West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	865m	West
HO206	HERITAGE OVERLAY (HO206)	867m	North West
EAO	ENVIRONMENTAL AUDIT OVERLAY	876m	North East
HO368	HERITAGE OVERLAY (HO368)	877m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	878m	North West
EAO	ENVIRONMENTAL AUDIT OVERLAY	884m	South West
DDO1	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 1	885m	South East
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	887m	South
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	889m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	890m	North West
HO95	HERITAGE OVERLAY (HO95)	892m	North West
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	893m	South
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	894m	South
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	894m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	895m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	896m	West
HO174	HERITAGE OVERLAY (HO174)	898m	South West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	899m	North
HO540	HERITAGE OVERLAY (HO540)	899m	North
HO390	HERITAGE OVERLAY (HO390)	901m	South

Zone Code	Description	Distance	Direction
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	908m	South
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	913m	West
HO84	HERITAGE OVERLAY (HO84)	916m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	918m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	921m	West
HO516	HERITAGE OVERLAY (HO516)	923m	South West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	926m	West
HO523	HERITAGE OVERLAY (HO523)	927m	South West
HO33	HERITAGE OVERLAY (HO33)	930m	South
HO504	HERITAGE OVERLAY (HO504)	936m	North West
EMO	EROSION MANAGEMENT OVERLAY	941m	South
HO518	HERITAGE OVERLAY (HO518)	943m	North East
HO17	HERITAGE OVERLAY (HO17)	954m	South West
HO512	HERITAGE OVERLAY (HO512)	958m	South West
HO14	HERITAGE OVERLAY (HO14)	965m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	966m	West
HO271	HERITAGE OVERLAY (HO271)	968m	West
SBO	SPECIAL BUILDING OVERLAY	968m	North
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	969m	West
HO146	HERITAGE OVERLAY (HO146)	969m	South West
HO544	HERITAGE OVERLAY (HO544)	970m	South East
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	978m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	979m	West
DDO3	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 3	981m	West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	981m	South West
HO359	HERITAGE OVERLAY (HO359)	983m	West
HO526	HERITAGE OVERLAY (HO526)	984m	North East
HO358	HERITAGE OVERLAY (HO358)	987m	South West
HO457	HERITAGE OVERLAY (HO457)	992m	North West
ESO2	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2	996m	West
DDO3	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 3	997m	South West

Planning Overlay Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Heritage

102 Wilson Street, Mooney Ponds, VIC 3039

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
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
Creative Commons 3.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/3.0/au/deed.en>

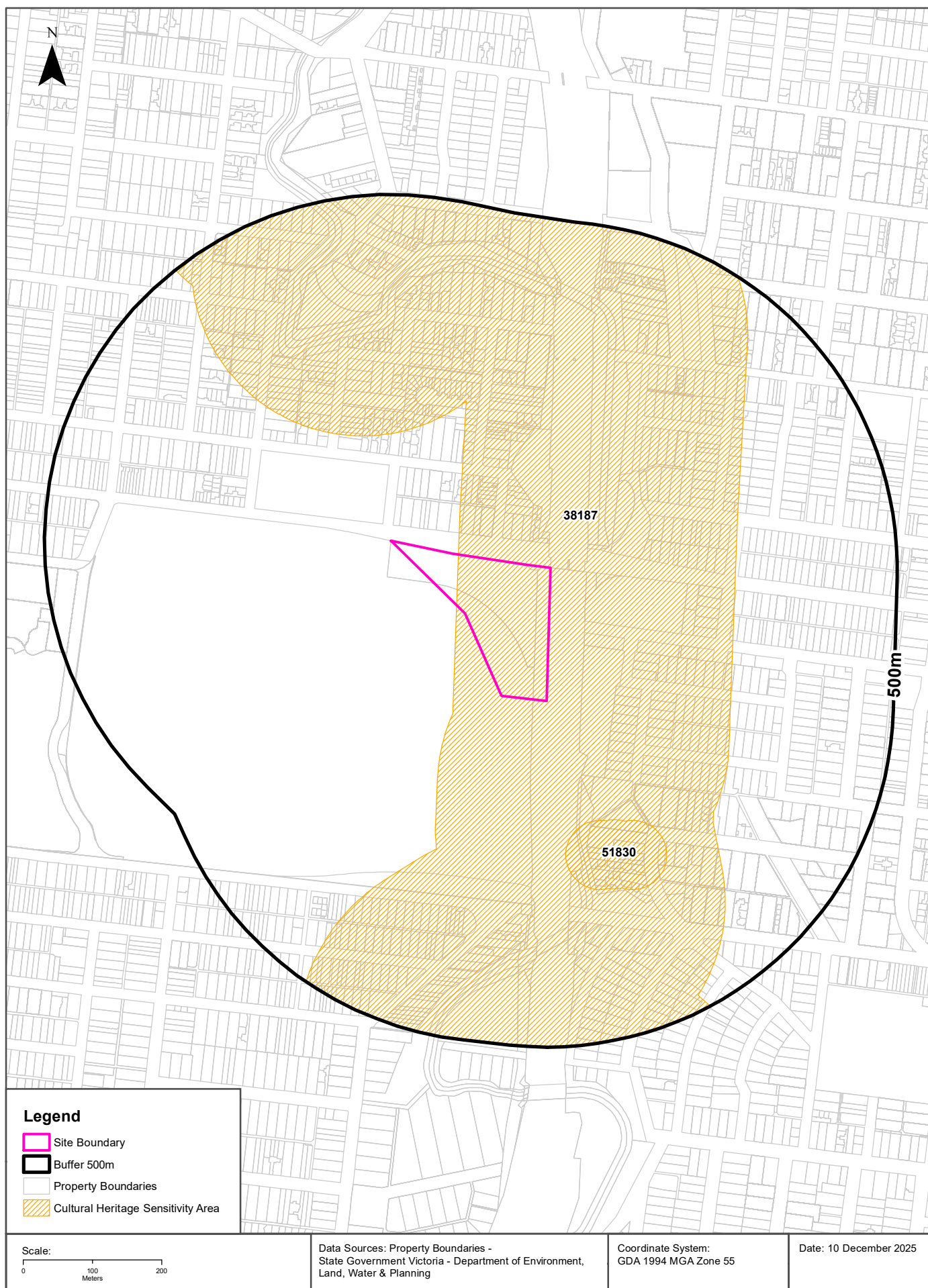
Victorian Heritage Register

What are the Victorian Heritage Register items located within the dataset buffer?:

VHR Number	Description	Distance	Direction
N/A	No records in buffer		

Victorian Heritage Register Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Heritage

102 Wilson Street, Mooney Ponds, VIC 3039

Cultural Heritage Sensitivity

Areas of Cultural Heritage Sensitivity as specified in Division 3 of Part 2 in the Victorian Aboriginal Heritage Regulations 2018, within the dataset buffer:

Map Id	Distance	Direction
38187	0m	On-site
51830	186m	South East

Cultural Heritage Sensitivity Data Custodian: State Government Victoria - Department of Premier and Cabinet
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Natural Hazards

102 Wilson Street, Mooney Ponds, VIC 3039

Bushfire Prone Areas

What are the designated bushfire prone areas within the dataset buffer?

Map ID	Feature	Plan No	LGA	Gazetted Date	Distance	Direction
N/A	No records in buffer					

Bushfire Prone Area Data Custodian: State Government Victoria - Dept of Transport, Planning & Local Infrastructure
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Fire History

What are the fire history records of fires primarily on public land, within the dataset buffer?

Map Id	Fire Type	Fire Key	Season	Fire No	Fire Name	Treatment	Fire Cover	Start Date	Dist (m)	Direction
N/A	No records in buffer									

Fire History Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Victorian Coastal Inundation Sea Level Rise

What coastal inundation sea level rise features exist within the dataset buffer?

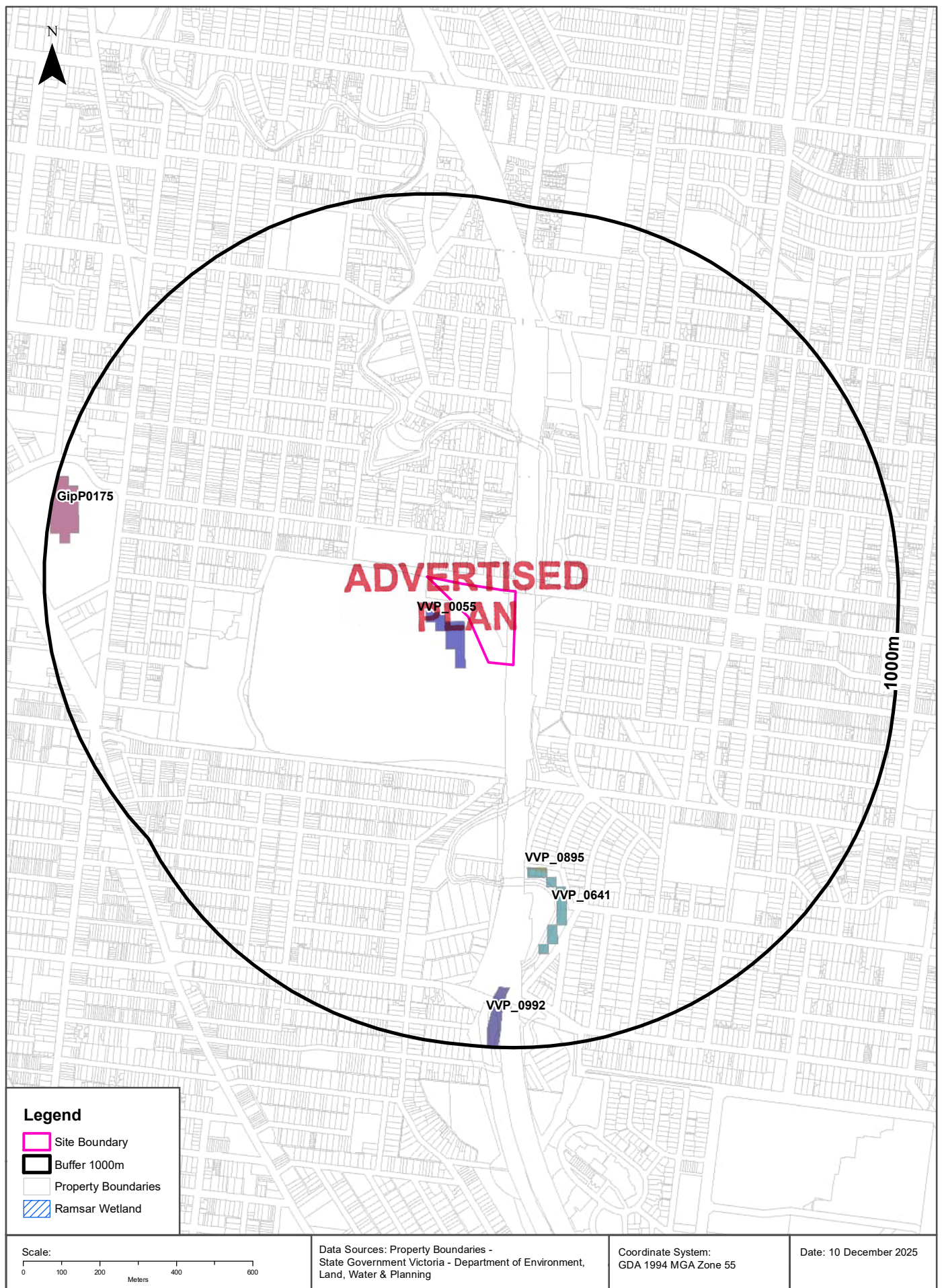
Description	Distance	Direction
No records in buffer		

Victorian Coastal Inundation Sea Level Rise Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Ecological Constraints - Native Vegetation 2005 & Ramsar Wetlands

102 Wilson Street, Mooney Ponds, VIC 3039



Ecological Constraints

102 Wilson Street, Mooney Ponds, VIC 3039

Native Vegetation (Modelled 2005 Ecological Vegetation Classes)

What native vegetation exists within the dataset buffer?

Veg Code	EVC Name	EVCCode	Group	Subgroup	Bioregion	Conservation Status	Geographic Occurance	Dist	Dir
VVP_0055	Plains Grassy Woodland	0055	Plains Woodlands or Forests	Freely-draining	Victorian Volcanic Plain	Endangered	Common	13m	South West
VVP_0895	Escarpment Shrubland	0895	Plains Woodlands or Forests	Freely-draining	Victorian Volcanic Plain	Endangered	Naturally Restricted	530m	South
VVP_0641	Riparian Woodland	0641	Riparian Scrubs or Swampy Scrubs and Woodlands		Victorian Volcanic Plain	Endangered	Common	532m	South
VVP_0992	Water Body - Fresh	0992	No native vegetation recorded		Victorian Volcanic Plain	Not Applicable	not applicable	840m	South
GipP0175	Grassy Woodland	0175	Lower Slopes or Hills Woodlands	Grassy	Gippsland Plain	Endangered	Common	916m	West

Native Vegetation Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Ramsar Wetlands

What Ramsar wetland areas exist within the dataset buffer?

Map ID	Site Name	Lake Name	Distance	Direction
N/A	No records in buffer			

Ramsar Wetland Area Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Ecological Constraints

102 Wilson Street, Mooney Ponds, VIC 3039

Collaborative Australian Protected Areas Database - Terrestrial

Protected areas in terrestrial environments identified by the CAPAD within the dataset buffer:

Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
N/A	No records in buffer						

Collaborative Australian Protected Areas Database - Marine

Protected areas in marine environments identified by the CAPAD within the dataset buffer:

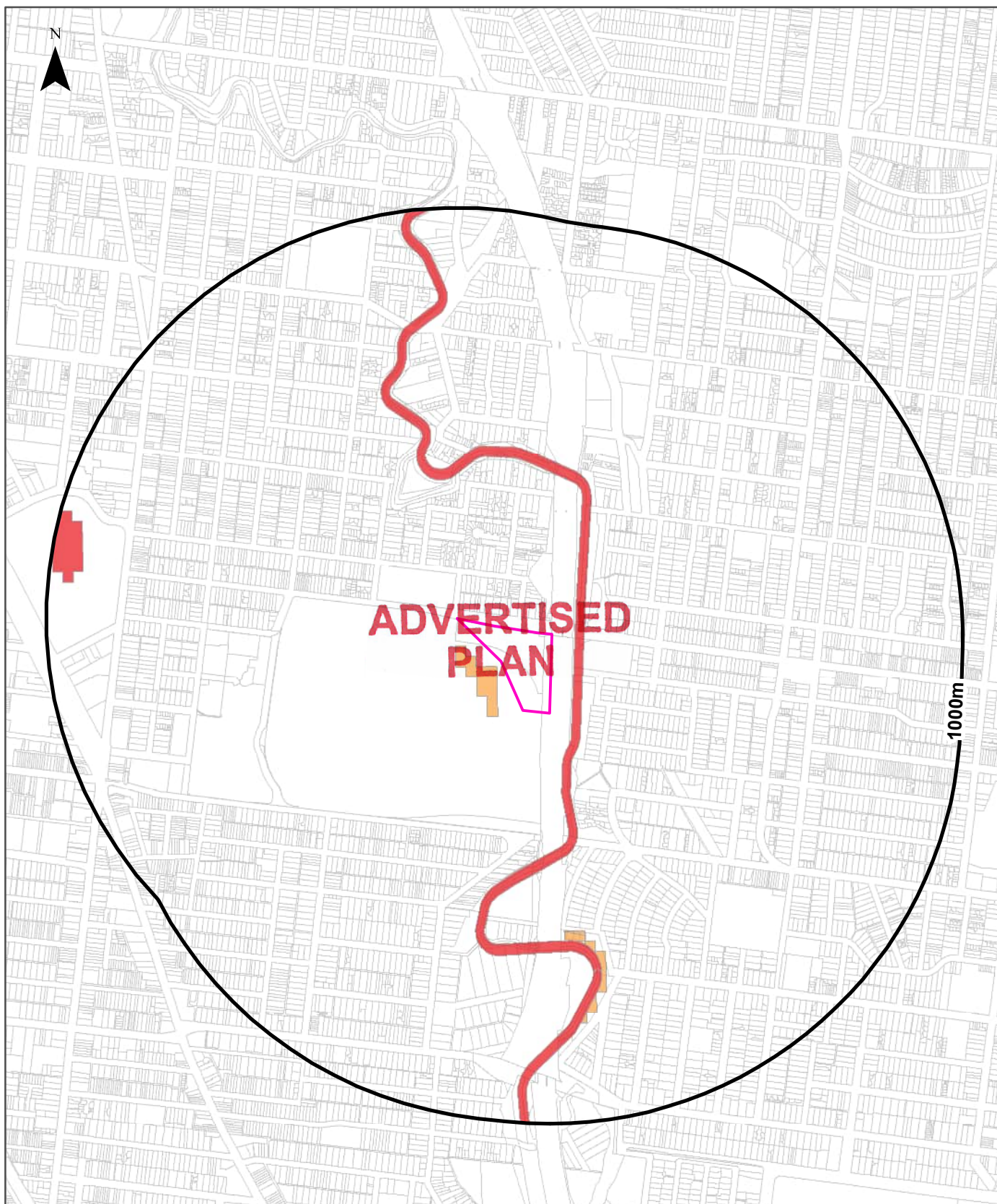
Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
N/A	No records in buffer						

Source: Collaborative Australian Protected Areas Database (CAPAD) 2022
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Ecological Constraints - Groundwater Dependent Ecosystems Atlas

102 Wilson Street, Mooney Ponds, VIC 3039



Legend

Site Boundary	High potential GDE - from national assessment	Low potential GDE - from national assessment
Buffer 1000m	High potential GDE - from regional studies	Low potential GDE - from regional studies
Property Boundaries	Moderate potential GDE - from national assessment	Known GDE - from regional studies
	Moderate potential GDE - from regional studies	Unclassified potential GDE - from regional studies

Scale:
0 100 200 400 600
Meters

Data Sources: Property Boundaries -
State Government Victoria - Department of Environment,
Land, Water & Planning

Coordinate System:
GDA 1994 MGA Zone 55

Date: 10 December 2025

Ecological Constraints

102 Wilson Street, Mooney Ponds, VIC 3039

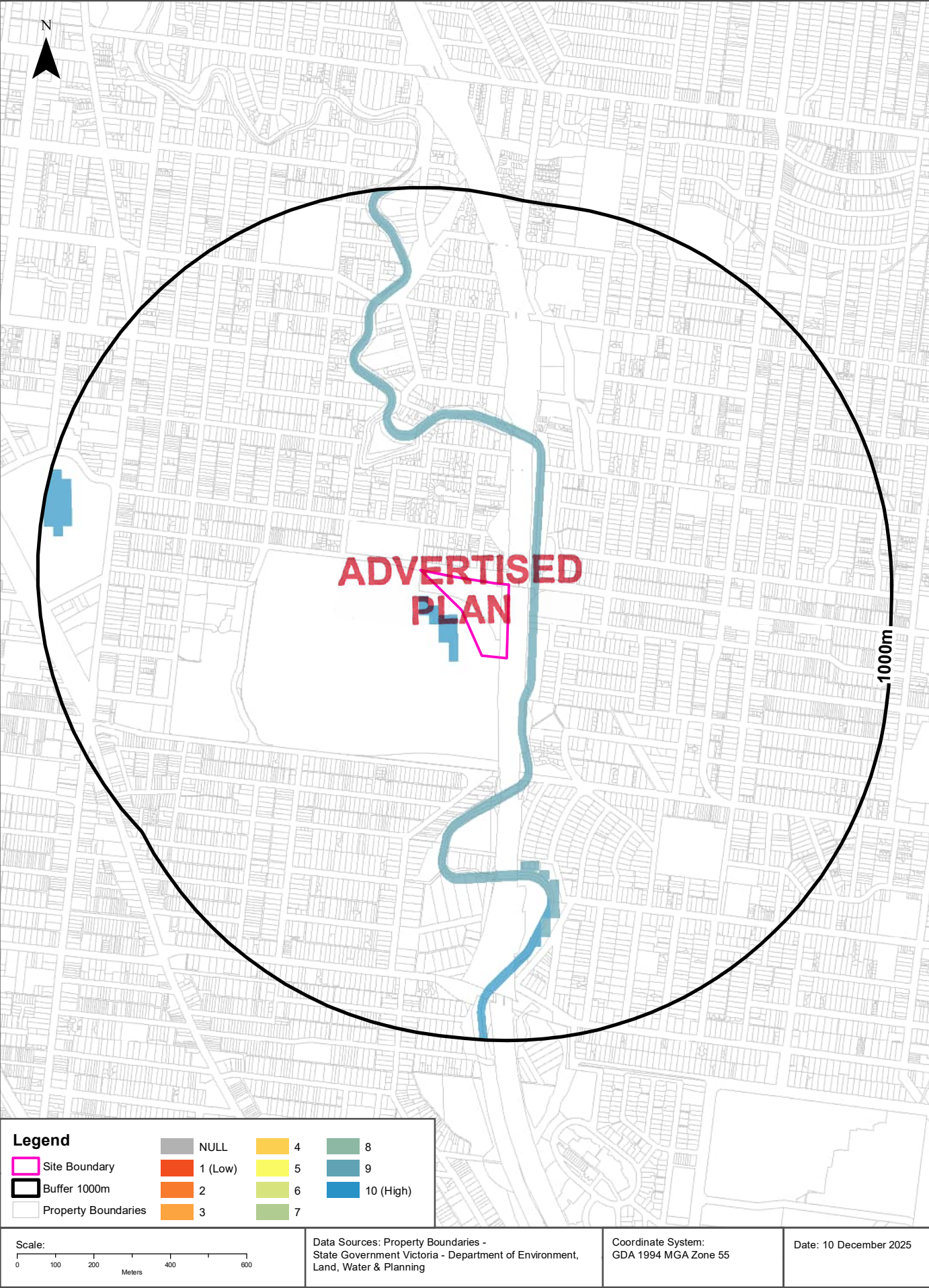
Groundwater Dependent Ecosystems Atlas

Type	Name	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial		Moderate potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	13m	South West
Aquatic		High potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	River	Unconsolidated sedimentary	54m	North East
Terrestrial		High potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	916m	West

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology

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Ecological Constraints

102 Wilson Street, Mooney Ponds, VIC 3039

Inflow Dependent Ecosystems Likelihood

Type	Name	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial		10	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	13m	South West
Aquatic		9	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	River	Unconsolidated sedimentary	54m	North East
Terrestrial		9	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	530m	South
Aquatic		10	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	River	Unconsolidated sedimentary	633m	South

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology

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Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading “LC” or “LocConf”. These codes lookup to the following location confidences:

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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Planning Property Report

Attachment B

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pitt&sherry

PLANNING PROPERTY REPORT

From www.planning.vic.gov.au at 10 December 2025 11:08 AM

PROPERTY DETAILS

Lot and Plan Number: **Lot D PS805188**
Address: **112 WILSON STREET MOONEE PONDS 3039**
Standard Parcel Identifier (SPI): **D\PS805188**
Local Government Area (Council): **MOONEE VALLEY**
Council Property Number: **187731**
Planning Scheme: **Moonee Valley**
Directory Reference: **Melway 84A K2**

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www.mvcc.vic.gov.au

[Planning Scheme - Moonee Valley](#)

UTILITIES

Rural Water Corporation: **Southern Rural Water**
Melbourne Water Retailer: **Greater Western Water**
Melbourne Water: **Inside drainage boundary**
Power Distributor: **JEMENA**

STATE ELECTORATES

Legislative Council: **NORTHERN METROPOLITAN**
Legislative Assembly: **ESSENDON**
OTHER
Registered Aboriginal Party: **Wurundjeri Woi Wurrung Cultural Heritage Aboriginal Corporation**
Fire Authority: **Fire Rescue Victoria**

[View location in VicPlan](#)

Planning Zones

[MIXED USE ZONE \(MUZ\) \(MOONEE VALLEY\)](#)

[MIXED USE ZONE - SCHEDULE 2 \(MUZ2\) \(MOONEE VALLEY\)](#)



	ACZ - Activity Centre		C1Z - Commercial 1		GRZ - General Residential
	MUZ - Mixed Use		NRZ - Neighbourhood Residential		PPRZ - Public Park and Recreation
	PUZ2 - Public Use-Education		R1Z - Residential 1		RGZ - Residential Growth
	SUZ - Special Use		TRZ2 - Principal Road Network		Tram line
	Water area		Water course		

Note: labels for zones may appear outside the actual zone - please compare the labels with the legend.

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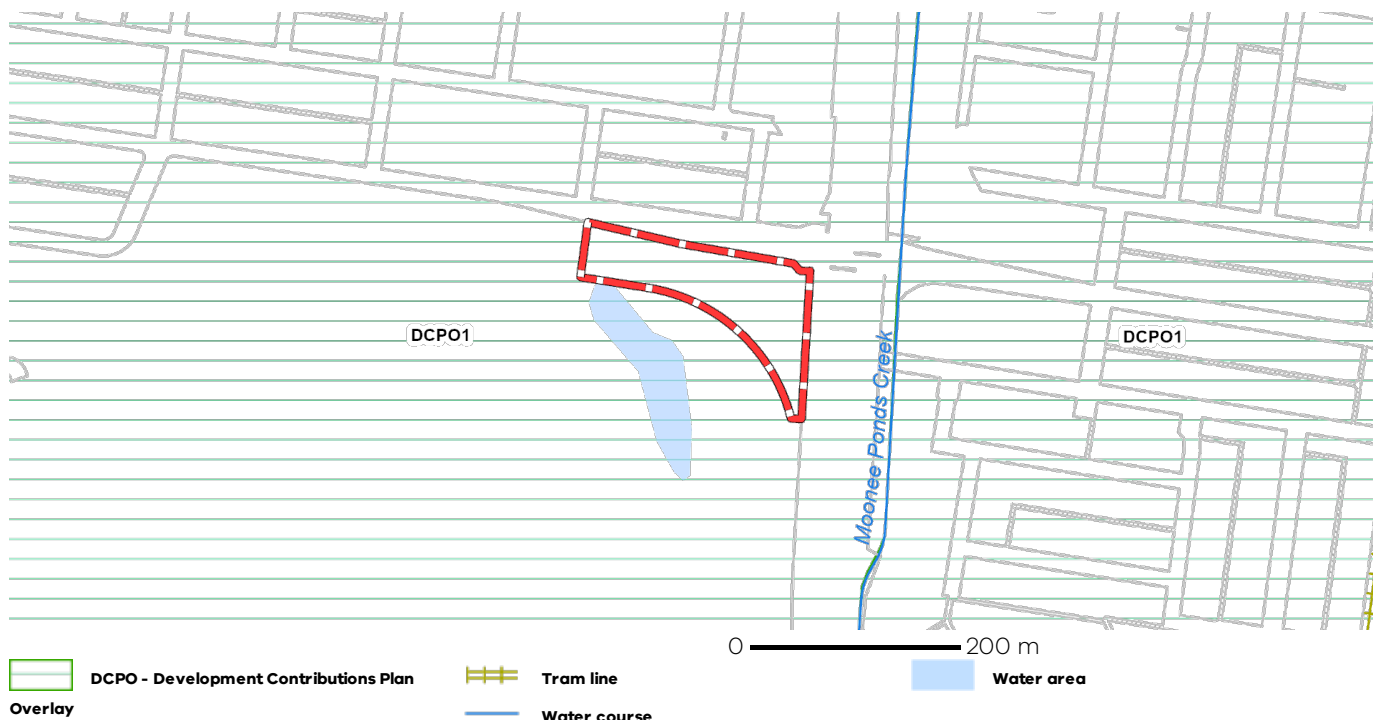
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Notwithstanding this disclaimer, a vendor may rely on the information in this report for the purpose of a statement that land is in a bushfire prone area as required by section 32C (b) of the Sale of Land 1962 (Vic).

Planning Overlays

DEVELOPMENT CONTRIBUTIONS PLAN OVERLAY (DCPO) (MOONEE VALLEY)

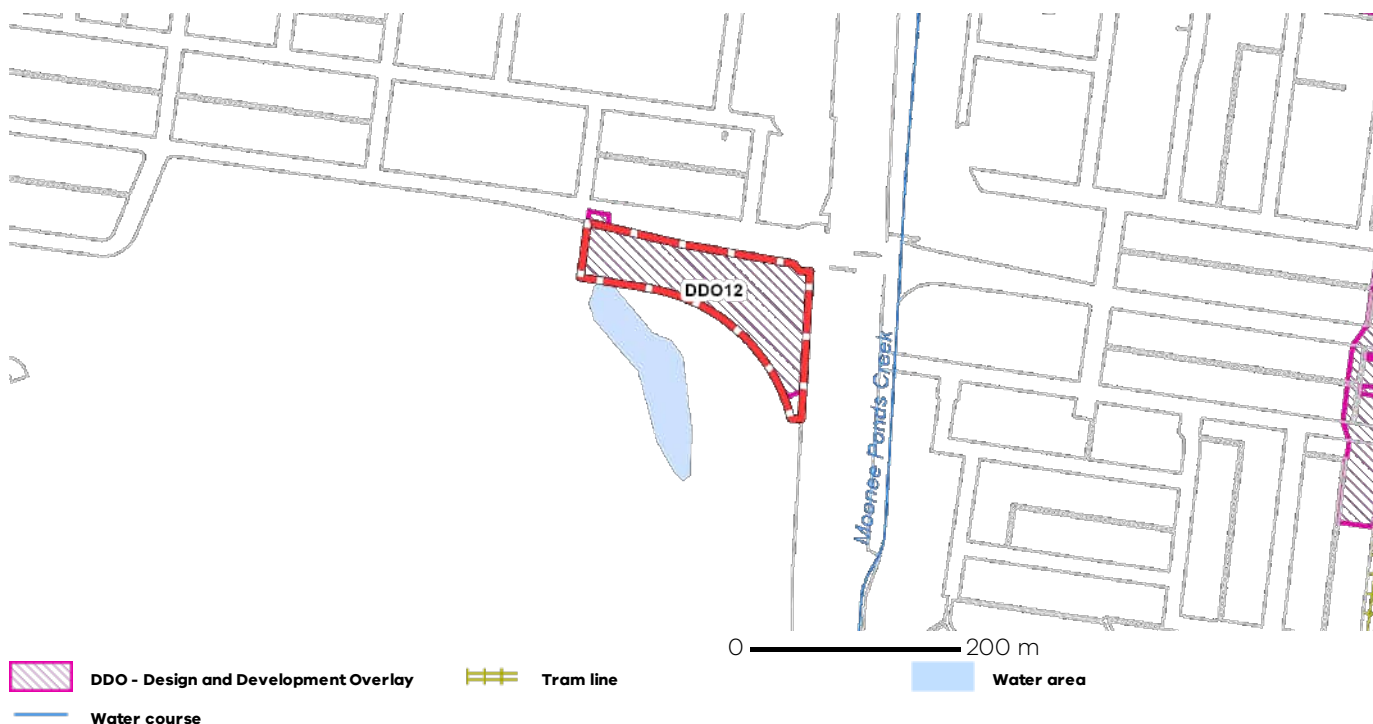
DEVELOPMENT CONTRIBUTIONS PLAN OVERLAY - SCHEDULE 1 (DCPO1) (MOONEE VALLEY)



Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

DESIGN AND DEVELOPMENT OVERLAY (DDO) (MOONEE VALLEY)

DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 12 (DDO12) (MOONEE VALLEY)



Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

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Planning Overlays

[HERITAGE OVERLAY \(HO\) \(MOONEE VALLEY\)](#)

[HERITAGE OVERLAY - SCHEDULE \(HO379\) \(MOONEE VALLEY\)](#)



Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

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OTHER OVERLAYS

Other overlays in the vicinity not directly affecting this land

[CITY LINK PROJECT OVERLAY \(CLPO\) \(MOONEE VALLEY\)](#)

[EROSION MANAGEMENT OVERLAY \(EMO\) \(MERRI-BEK\)](#)

[ENVIRONMENTAL SIGNIFICANCE OVERLAY \(ESO\) \(MOONEE VALLEY\)](#)

[ENVIRONMENTAL SIGNIFICANCE OVERLAY \(ESO\) \(MERRI-BEK\)](#)

[INCORPORATED PLAN OVERLAY \(IPO\) \(MOONEE VALLEY\)](#)

[LAND SUBJECT TO INUNDATION OVERLAY \(LSIO\) \(MOONEE VALLEY\)](#)

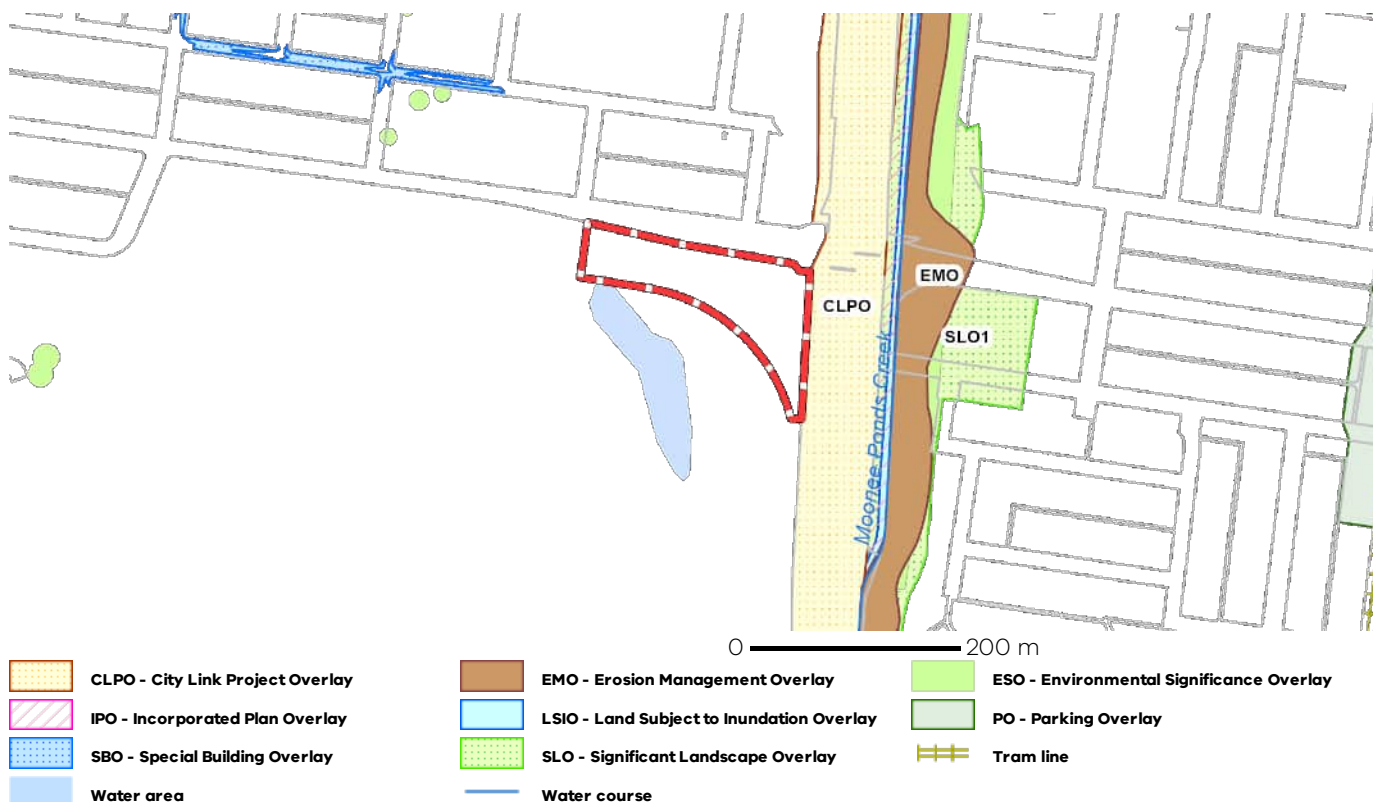
[LAND SUBJECT TO INUNDATION OVERLAY \(LSIO\) \(MERRI-BEK\)](#)

[PARKING OVERLAY \(PO\) \(MERRI-BEK\)](#)

[SPECIAL BUILDING OVERLAY \(SBO\) \(MOONEE VALLEY\)](#)

[SIGNIFICANT LANDSCAPE OVERLAY \(SLO\) \(MOONEE VALLEY\)](#)

[SIGNIFICANT LANDSCAPE OVERLAY \(SLO\) \(MERRI-BEK\)](#)



Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

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Areas of Aboriginal Cultural Heritage Sensitivity

All or part of this parcel is an 'area of cultural heritage sensitivity'.

'Areas of cultural heritage sensitivity' are defined under the Aboriginal Heritage Regulations 2018, and include registered Aboriginal cultural heritage places and land form types that are generally regarded as more likely to contain Aboriginal cultural heritage.

Under the Aboriginal Heritage Regulations 2018, 'areas of cultural heritage sensitivity' are one part of a two part trigger which require a 'cultural heritage management plan' be prepared where a listed 'high impact activity' is proposed.

If a significant land use change is proposed (for example, a subdivision into 3 or more lots), a cultural heritage management plan may be triggered. One or two dwellings, works ancillary to a dwelling, services to a dwelling, alteration of buildings and minor works are examples of works exempt from this requirement.

Under the Aboriginal Heritage Act 2006, where a cultural heritage management plan is required, planning permits, licences and work authorities cannot be issued unless the cultural heritage management plan has been approved for the activity.

For further information about whether a Cultural Heritage Management Plan is required go to <https://heritage.achris.vic.gov.au/aavQuestion1.aspx>

More information, including links to both the Aboriginal Heritage Act 2006 and the Aboriginal Heritage Regulations 2018, can also be found here - <https://www.firstpeoplesrelations.vic.gov.au/aboriginal-heritage-legislation>



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Further Planning Information

Planning scheme data last updated on 10 December 2025.

A **planning scheme** sets out policies and requirements for the use, development and protection of land. This report provides information about the zone and overlay provisions that apply to the selected land. Information about the State and local policy, particular, general and operational provisions of the local planning scheme that may affect the use of this land can be obtained by contacting the local council or by visiting <https://www.planning.vic.gov.au>

This report is NOT a **Planning Certificate** issued pursuant to Section 199 of the **Planning and Environment Act 1987**. It does not include information about exhibited planning scheme amendments, or zonings that may affect the land. To obtain a Planning Certificate go to Titles and Property Certificates at Landata - <https://www.landata.vic.gov.au>

For details of surrounding properties, use this service to get the Reports for properties of interest.

To view planning zones, overlay and heritage information in an interactive format visit <https://mapshare.vic.gov.au/vicplan/>

For other information about planning in Victoria visit <https://www.planning.vic.gov.au>

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Designated Bushfire Prone Areas

This parcel is not in a designated bushfire prone area.
No special bushfire construction requirements apply. Planning provisions may apply.

Where part of the property is mapped as BPA, if no part of the building envelope or footprint falls within the BPA area, the BPA construction requirements do not apply.

Note: the relevant building surveyor determines the need for compliance with the bushfire construction requirements.



Designated BPA are determined by the Minister for Planning following a detailed review process. The Building Regulations 2018, through adoption of the Building Code of Australia, apply bushfire protection standards for building works in designated BPA.

Designated BPA maps can be viewed on VicPlan at <https://mapshare.vic.gov.au/vicplan/>, or at the relevant local council.

Create a BPA definition plan in [VicPlan](#) to measure the BPA.

Information for lot owners building in the BPA is available at <https://www.planning.vic.gov.au>.

Further information about the building control system and building in bushfire prone areas can be found on the Victorian Building Authority website <https://www.vba.vic.gov.au>. Copies of the Building Act and Building Regulations are available from <http://www.legislation.vic.gov.au>. For Planning Scheme Provisions in bushfire areas visit <https://www.planning.vic.gov.au>.

Native Vegetation

Native plants that are indigenous to Victoria and important for biodiversity might be present on this property. This could include trees, shrubs, herbs, grasses or aquatic plants. There are a range of regulations that may apply including need to obtain a planning permit under Clause 52.17 of the local planning scheme. For more information see [Native Vegetation \(Clause 52.17\)](#) with local variations in [Native Vegetation \(Clause 52.17\) Schedule](#)

To help identify native vegetation on this property and the application of Clause 52.17 please visit the Native Vegetation Regulations Map (NVR Map) <https://mapshare.vic.gov.au/nvr/> and [Native vegetation \(environment.vic.gov.au\)](http://www.environment.vic.gov.au) or please contact your relevant council.

You can find out more about the natural values on your property through NatureKit [NatureKit \(environment.vic.gov.au\)](http://www.environment.vic.gov.au)

Site Inspection Photographs

Attachment C

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Photographic Log of Site Inspection

Completed by: Carly Clark

Photograph (9/12/25)	Comment
	View from Wilson Street, looking south along eastern Site boundary. Bitumen access road and telecommunications tower. Plastic pipe storage in cream shipping containers. Chemical storage in designated yellow shipping containers (north-eastern corner of the Site) ADVERTISED PLAN
	View from Wilson Street, looking south through centre of the Site. Two old wooden houses on stumps – asbestos sheeting on ceilings, asbestos floor tiles and asbestos in power boards. Head gardener lived onsite until mid-2025. Old shed building in background. Silver vehicle / equipment wash bay in centre – connected to filtration system and trade waste.

Photograph (9/12/25)	Comment
	View from Wilson Street, looking west along western Site boundary. Green corrugated iron shed on a concrete slab – pesticide storage in IBCs, maintenance machinery and equipment storage. Stormwater drain along front of shipping containers.
	No access to southern part of the Site – demolition in progress. Two UST vent pipes in centre of photograph. Brick shed being demolished.

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Photograph (9/12/25)	Comment
	No access to southern part of the Site – demolition in progress. Wooden shed. Demolition contractor's waste oil IBC. Brick shed being demolished.
	No access to southern part of the Site – demolition in progress. Wooden shed (looking north). Staining visible.

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Photograph (9/12/25)	Comment
	No access to southern part of the Site – demolition in progress. Wooden shed (looking south). Note unbanded IBC presumably containing waste oil.
	Replaced damaged ceiling panels in lunchroom as contained asbestos (one of the wooden houses)

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Photograph (9/12/25)	Comment
	Damaged floor in lunchroom (one of the wooden houses) – asbestos-containing tiles.
	One of the wooden houses – on stumps. Steel lid over electrical cables.

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Photograph (9/12/25)	Comment
	Undercover storage off one of the wooden houses – plastic pipes store cim empty disuse IBCs. Forklift is gas powered.
	Location of former historical corrugated iron chemical shed (now removed) in northern part of the Site. No sealed base – directly on bare ground.

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Photograph (9/12/25)	Comment
	Outdoor tractor storage / parking along Wilson street side of Site.
	Corrugated iron machinery storage shed with concrete floor (western side).

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Photograph (9/12/25)	Comment
	Corrugated iron machinery storage shed with concrete base. Pesticide storage in IBCs.
	Corrugated iron machinery storage shed with concrete base. Storage of fuel in minor quantities in portable containers.

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Photograph (9/12/25)	Comment
	Corrugated iron machinery storage shed with concrete base.
	Corrugated iron machinery storage shed with concrete base (eastern side). Besser blocks at rear – likely fill underneath to make level.

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Photograph (9/12/25)	Comment
	Chemical storage in designated, self-bunded yellow shipping containers (north-eastern corner of the Site).
	Silver vehicle / equipment wash bay in centre – connected to filtration system (to the south) and trade waste.

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Photograph (9/12/25)	Comment
	Filtration system for wash bay.
	South-western Site boundary (along track) – current excavation works have identified asbestos in soil (outside Site but potential to extend to within Site footprint).

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Photograph (9/12/25)	Comment
	South-western Site boundary (along track) – current excavation works have identified asbestos in soil (outside Site but potential to extend to within Site footprint).

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Safety Data Sheets

Attachment D

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Safety Data Sheet



Hazardous, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Alar SG Plant Growth Regulant

Recommended use: A plant growth regulator for use in agricultural situations as per the registered label

Supplier: UPL Australia Pty Ltd
ABN: 76 066 391 384
Street Address: Level 3, 70 Hindmarsh Square
Adelaide, South Australia, 5000
Telephone: (08) 8112-0900
Facsimile: (08) 8112-0999

Emergency Telephone number: AUST: 1800 033 111 (INT: +61 3 9663 2130)

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.



Signal Word
Warning

Hazard Classification
Serious Eye Damage/Irritation - Category 2A

Hazard Statement
H319 Causes serious eye irritation.

Prevention Precautionary Statements
P102 Keep out of reach of children.
P103 Read label before use.
P264 Wash hands, face and all exposed skin thoroughly after handling.
P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

Response Precautionary Statements
P101 If medical advice is needed, have product container or label at hand.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Storage Precautionary Statement
Not allocated

Disposal Precautionary Statement
Not allocated

Poison Schedule: Not Applicable

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DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Daminozide	1596-84-5	850 g/Kg
Surfactant		<3 % (w/w)
Ingredients determined to be Non-Hazardous		Balance
		100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

PPE for First Aiders: Wear safety shoes, overalls, gloves, safety glasses, dust mask. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Combustible material.

Fire fighting further advice: On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of



combustion or decomposition.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling: Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of dust.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for spills.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by Safe Work Australia.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Natural ventilation should be adequate under normal use conditions.

Personal Protection Equipment: SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES, DUST MASK.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear safety shoes, overalls, gloves, safety glasses, dust mask. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Granules

Product Name: Alar SG Plant Growth Regulant

Reference No: UPL0038

Issued: 2020-09-20

Version: 2.0

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Safety Data Sheet



Colour: White
Odour: Odourless

Solubility:	Soluble in water
Density:	0.40 - 0.50 g/cm ³
Relative Vapour Density (air=1):	N App
Vapour Pressure (20 °C):	N App
Flash Point (°C):	N App
Flammability Limits (%):	N App
Autoignition Temperature (°C):	N Av
Melting Point/Range (°C):	N App
Boiling Point/Range (°C):	N App
pH:	4 (10 g/L in Aqu Soln)
Viscosity:	N App
Total VOC (g/Litre):	N Av

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(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin may result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: An eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Acute toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LC50 > 5 mg/L

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients):

Safety Data Sheet



>2,000 mg/Kg bw

Corrosion/Irritancy: Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K_{ow} < 4.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

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13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods

Safety Data Sheet



by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)
Basel Convention (Hazardous Waste)
International Convention for the Prevention of Pollution from Ships (MARPOL)

This material/constituent(s) is covered by the following requirements:

- All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIC).

16. OTHER INFORMATION

Reason for issue: Revised

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd on behalf of its client.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

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ALL CLEAR DS

Date of Issue: July 2021

1. IDENTIFICATION

Product Identifier: **ALL CLEAR® DS**

Other Means of Identification: ALL CLEAR DOUBLE STRENGTH 07299

Recommended Use of the Chemical and Restrictions on Use: For removal of deposits and other debris, including oily substances from tanks, hoses, booms, transfer & mixing systems, filters, screens and nozzles

Details of Manufacturer or Importer: Importer: AgNova Technologies Pty Ltd
Unit 4, 482 Kingsford Smith Drive
Hamilton, Qld 4007 Australia
(03) 9899 8100
info@agnova.com.au
agnova.com.au

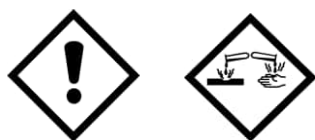
Emergency Phone Number: 1800 033 111 (24 hrs)

2. HAZARD(S) IDENTIFICATION

Classification of the Hazardous Chemical according to GHS/WH:

Signal Word: Danger

Pictogram:



Exclamation Mark, Corrosion

Hazard Statements:

Skin Corrosion/Irritation - Category 1B:

H314 Causes severe skin burns and eye damage

Specific Target Organ Toxicity (Single Exposure) - Category 3:

H335 May cause respiratory irritation

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ALL CLEAR DS

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Chronic Aquatic Toxicity - Category 3:

H412 Harmful to aquatic life with long lasting effects

Precautionary Statements:

Prevention

P261: Avoid breathing spray

P264: Wash hands thoroughly after handling

P271: Use only outdoors or in a well-ventilated area

P273 Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

Response

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310: Immediately call a POISON CENTRE/doctor

P363: Wash contaminated clothing before reuse

Storage

P403+P233: Store in a well-ventilated place. Keep container tightly closed

P405: Store locked up

Disposal

P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

ADG

Classification: Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail 7th Edition (see section 14)

SUSMP

Classification: Not a scheduled poison
(Standard for Uniform Scheduling of Medicines and Poisons)

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3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	CAS No:	Classification:	Concentration:
Benzenesulfonic acid, mono-C10-13-alkyl derivatives, compounds. with ethanolamine	85480-55-3	Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	10-<30%
2-aminoethanol	141-43-5	Acute Tox. 4: H302+H312+H332; Flam. Liq. 4: H227; Skin Corr. 1B: H314	<10%

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		- Danger	
tetrasodium (1-hydroxyethylidene) bisphosphonate	3794-83-0	Acute Tox. 4: H302; Eye Irrit. 2A: H319 - Warning	<10%
Alcohols, C12-15, ethoxylated (7 EO)	68131-39-5	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318 - Danger	<10%

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification:	Specific concentration limit:
2-aminoethanol; CAS: 141-43-5	% (w/w) $\geq$ 5: STOT SE 3 - H335
tetrasodium (1-hydroxyethylidene) bisphosphonate; CAS: 3794-83-0	% (w/w) $\geq$ 30: Eye Irrit. 2 - H319

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone 13 11 26), and follow the advice given. Show this Safety Data Sheet to a doctor.

Description of Necessary First Aid Measures:

- Ingestion:** Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucous of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.
- Inhalation:** Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.
- Skin contact:** Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of

ALL CLEAR DS

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	infection.
Eye contact:	Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.
First Aid Facilities:	Provide washing facilities in the workplace.
Symptoms Caused by Exposure:	Acute and delayed effects are indicated in sections 2 and 11.
Medical Attention and Special Treatment:	Not applicable.

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5. FIREFIGHTING MEASURES

Suitable Extinguishing Equipment:	Product is non-flammable under normal conditions of storage, handling and use, but the product contains flammable substances. In the case of inflammation as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.
Specific Hazards Arising from the Chemical:	As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
Special Protective Equipment and Precautions for Firefighters:	Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible

to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

Environmental Precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

Methods and Materials for Containment and Cleaning Up:

It is recommended:
Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

ALL CLEAR DS

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Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

Conditions for Safe Storage, including any Incompatibilities:

A.- Technical measures for storage

Duration: tested to 36 months

Maximum Temp.: 40°C

Minimum Temp.: 0°C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see section 10.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (Workplace exposure standards for airborne contaminants 16/12/2019):

Identification

Occupational Exposure Limits

2-aminoethanol:

TWA

3 ppm

7.5 mg/m³

STEL

6 ppm

15 mg/m³

Dipropylene
Glycol Methyl
Ether:

TWA
STEL

50 ppm

308 mg/m³

-

-

Biological Monitoring:

No data available.

Control Banding:

No data available.

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Engineering Controls:

Use in a well-ventilated area.

Individual Protection Measures, for example, Personal Protective Equipment (PPE):

General security and hygiene measures in the work place.

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the

company has additional measures at its disposal.

Eye and face protection: Mandatory face protection - face shield.

Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

Skin protection:

Specific protection for the hands: Mandatory hand protection - non-disposable chemical protective gloves. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

Body protection: Mandatory complete body protection - disposable clothing for protection against chemical risks. For professional use only. Clean periodically according to the manufacturer's instructions. Mandatory foot protection - safety footwear for protection against chemical risk. Replace boots at any sign of deterioration.

Respiratory protection: Mandatory respiratory tract protection - filter mask for gases and vapours. Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

Thermal hazards: No data available.

Additional emergency measures: An emergency shower and eyewash stations should be provided in the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Yellow
Odour:	Characteristic
Melting Point:	Not applicable*
Boiling Point:	Not applicable*
Flammability:	Not applicable*
Lower and Upper Explosion Limit/Flammability Limit:	Not applicable*
Flash Point:	Not flammable (>93°C)
Auto-Ignition Temperature:	Not applicable*
Decomposition Temperature:	Not applicable*
pH:	10.5-11.5 (at 100%) (ASTM D3838-05)
Kinematic	Not applicable*

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Viscosity:
Solubility: Miscible
Partition Not applicable*
Coefficient: n-octanol/water (log value):
Vapour Pressure: At 20°C Not applicable*; At 50°C 11601.26 Pa (11.6 kPa)
Density (20°C): 1065-1085 kg/m³ (ISO 649-2)
Relative Vapour Not applicable*
Density (20°C):
Particle Not applicable*
Characteristics:

*Not relevant due to the nature of the product, not providing information property of its hazards.

10. STABILITY AND REACTIVITY

Reactivity: No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.
Chemical Stability: Chemically stable under the conditions of storage, handling and use.
Possibility of Hazardous Reactions: Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
Conditions to Avoid: Applicable for handling and storage at room temperature:
 Shock and friction: Not applicable.
 Contact with air: Not applicable.
 Increase in temperature: Not applicable.
 Sunlight: Precaution.
 Humidity: Not applicable.
Incompatible Materials: Acids: Avoid strong acids.
 Water: Not applicable.
 Oxidising materials: Precaution.
 Combustible materials: Not applicable.
 Others: Avoid alkalis or strong bases.
Hazardous Decomposition Products: Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11. TOXICOLOGICAL INFORMATION

The experimental information related to the toxicological properties of the product itself is not available.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health, depending on the means of exposure:

Acute Toxicity:

Ingestion (acute effect): Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3. Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

Inhalation (acute effect): Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3. Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract.

Skin Corrosion/Irritation:

Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.

Serious Eye Damage/Irritation:

Produces serious eye damage after contact.

Respiratory or Skin Sensitisation:

Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Germ Cell Mutagenicity:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Carcinogenicity:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the

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effects mentioned. For more information see section 3. IARC: Non-applicable

Reproductive Toxicity:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Specific Target Organ Toxicity (STOT) – single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

Specific Target Organ Toxicity (STOT) – repeated exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Aspiration Hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Information on Possible Routes of Exposure:

See above and section 4.

Early Onset Symptoms related to Exposure:

See above and section 4.

Specific Toxicology Information on the Substances:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:	LD ₅₀ oral (rat): 1570 mg/kg LD ₅₀ dermal (rabbit): 2504 mg/kg LC ₅₀ inhalation: >5 mg/L (4 h)
tetrasodium (1-hydroxyethylidene) bisphosphonate:	LD ₅₀ oral (rat): 1219 mg/kg LD ₅₀ dermal: >5000 mg/kg LC ₅₀ inhalation: >5 mg/L (4 h)
2-aminoethanol:	LD ₅₀ oral (rat): 1515 mg/kg LD ₅₀ dermal (rabbit): 2504 mg/kg LC ₅₀ inhalation (rat): 11 mg/L (4 h)
Alcohols, C12-15, ethoxylated (7 EO):	LD ₅₀ oral (rat): 300 mg/kg LD ₅₀ dermal: >5000 mg/kg LC ₅₀ inhalation: >20 mg/L (4 h)

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Acute Toxicity Estimate (ATE mix):

<u>ATE mix</u>		<u>Ingredient(s) of unknown toxicity</u>
Oral	2347.66 mg/kg (Calculation method)	0 %
Dermal	>5000 mg/kg (Calculation method)	Non-applicable
Inhalation	111.11 mg/L (4 h) (Calculation method)	0 %

12. ECOLOGICAL INFORMATION

Ecotoxicity:

The experimental information related to the eco-toxicological properties of the product itself is not available.

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine: LC₅₀ 1.67 mg/L (96 h) *Lepomis macrochirus* Fish
EC₅₀ Non-applicable
EC₅₀ Non-applicable

2-aminoethanol: LC₅₀ 349 mg/L (96 h) *Cyprinus carpio* Fish
EC₅₀ 65 mg/L (48 h) *Daphnia magna* Crustacean
EC₅₀ 22 mg/L (72 h) *Scenedesmus subspicatus* Algae

Alcohols, C12-15, ethoxylated (7 EO): LC₅₀ >10-100 mg/L (96 h) Fish
EC₅₀ >10-100 mg/L (48 h) Crustacean
EC₅₀ >10-100 mg/L (72 h) Algae

Persistence and Degradability:

	<u>Degradability</u>	<u>Biodegradability</u>
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:	BOD5 Non-applicable COD Non-applicable BOD5/COD Non-applicable	Concentration Non-applicable Period 21 days 90% biodegradable
2-aminoethanol:	BOD5 Non-applicable COD Non-applicable BOD5/COD Non-applicable	Concentration 20 mg/L Period 21 days 90% biodegradable

Bioaccumulative Potential:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:	BCF: 87 Pow Log: - Potential: Moderate
2-aminoethanol:	BCF: 3 Pow Log: -1.31 Potential: Low

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Mobility in Soil:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Absorption/desorption

Koc: 1.16
Conclusion: Very High
Surface tension: Non-applicable

Volatility

Henry: Non-applicable
Dry soil: Non-applicable
Moist soil: Non-applicable

2-aminoethanol:

Koc: 0.27
Conclusion: Very High
Surface tension: 5.025E-2 N/m (25°C)

Henry: 3.7E-5 Pa·m³/mol
Dry soil: No
Moist soil: No

Other Adverse Effects: Not described

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Consult the appropriate waste management authority on the assessment and disposal operations in accordance with relevant local, state and federal regulations. See section 6 'Environmental Precautions'.

14. TRANSPORT INFORMATION

Transport by land:

Classified as a Dangerous Good (Class 8) according to the Australian Code for the Transport of Dangerous Goods by Road and Rail 7th Edition

UN Number: UN1760

Proper Shipping Name or Technical Name: CORROSIVE LIQUID, N.O.S. (2-aminoethanol)

Transport Hazard Class: 8

Packing Group Number: III

Environmental Hazards for Transport Purposes: None

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**Special
Precautions for
User:**

Physico-Chemical properties: see section 9

**Additional
Information:**

Limited quantities: 5 L

Hazchem Code:

2X

Transport by sea:

With regard to IMDG 39-18

UN Number:

UN1760

**Proper Shipping
Name or Technical
Name:**

CORROSIVE LIQUID, N.O.S. (2-aminoethanol)

**Transport Hazard
Class:**

8

**Packing Group
Number:**

III

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**Environmental
Hazards for
Transport
Purposes:**

None, not a marine pollutant

**Special
Precautions for
User:**

Special regulations – 223, 274
EmS codes F-A, S-B
Physico-Chemical properties: see section 9

**Additional
Information:**

Limited quantities: 5 L
Segregation group: Non-applicable

**Transport in bulk
according to
Annex II of Marpol
73/78 and the IBC
code:**

Non-applicable

Transport by air:

With regard to IATA/ICAO 2021:



SAFETY DATA SHEET

ALL CLEAR DS

Date of Issue: July 2021

UN Number: UN1760

Proper Shipping Name or Technical Name: CORROSIVE LIQUID, N.O.S. (2-aminoethanol)

Transport Hazard Class: 8

Packing Group Number: III

Environmental Hazards for Transport Purposes: None

Special Precautions for User: Physico-Chemical properties: see section 9

Transport in bulk according to Annex II of Marpol 73/78 and the IBC code: Non-applicable

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15. REGULATORY INFORMATION

APVMA: Registration not required

SUSMP: Not scheduled

State Departments of Agriculture / Primary Industries: No data available

Australian Inventory of Chemical: Listed

16. OTHER INFORMATION

Date of Preparation or Revision: July 2021

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Date of Issue: July 2021

Reason for Revision: Section 1: new address
Section 2: hazard and precautionary statements updated
Section 3: ingredients updated
Sections 4, 5, 7: slight revision to wording
Section 6: environmental precautions updated
Section 8: exposure standards and other information updated
Sections 9, 11, 12: data added/updated
Section 10: conditions to avoid updated
Section 14: slight revision to wording

Abbreviations and Acronyms: ADG – Australian Dangerous Goods Code
APVMA – Australian Pesticides and Veterinary Medicines Authority
ASTM – American Society for Testing and Materials
BCF – Bioconcentration Factor
BLEVE – Boiling Liquid Expanding Vapour Explosion
BOD5 – 5-day Biochemical Oxygen Demand
COD – Chemical Oxygen Demand
EC50 – Effective Concentration 50
GHS – Globally Harmonised System of Classification and Labelling of Chemicals
IARC – International Agency for Research on Cancer
IATA – International Air Transport Association
ICAO – International Civil Aviation Organisation
IMDG – International Maritime Dangerous Goods Code
ISO – International Organization for Standardisation
Koc – Partition coefficient of organic carbon
LD50 – Lethal Dose 50
LC50 – Lethal Concentration 50
STEL – Short Term Exposure Limit
SUSMP – Standard for the Uniform Scheduling of Medicines and Poisons
TWA – Time Weighted Average
WHS – Work Health and Safety
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Data Sources: Manufacturer product safety data sheet and published data

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

The opinions expressed herein are those of qualified experts with the manufacturer. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of AgNova Technologies Pty Ltd, it is the user's obligation to determine the conditions of safe use of the product.

END OF SDS



SAFETY DATA SHEET

AMITROLE T HERBICIDE

Infosafe No.: NU00H
ISSUED Date : 03/04/2023
ISSUED by: NUFARM AUSTRALIA LIMITED.

Section 1 - Identification

Product Identifier

AMITROLE T HERBICIDE

Product Code

0085

Product Type

Group Q Herbicide

Company Name

NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

Address

103-105 Pipe Road Laverton North
Victoria 3026 AUSTRALIA

Telephone/Fax Number

Tel: +61 3 9282-1000
Fax: +61 3 9282-1001

Emergency Phone Number

1800 033 498 (24hr Australia)

Emergency Contact Name

www.nufarm.com.au

E-mail Address

SDSANZ@nufarm.com

Recommended use of the chemical and restrictions on use

For the control of weeds in orchards, vineyards, irrigation ditches and drains, eucalyptus and pine plantations, roadsides, pre-plant wheat and barley, and for general industrial situations as per the Directions for Use table on the label.

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Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Complies with the requirements of Special Provision AU01 and therefore exempted from being classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Classified as Dangerous Goods according to International Maritime Dangerous Goods Code (IMDG) and International Air Transport Association (IATA).

Eye damage/irritation: Category 2A

Reproductive toxicity: Category 2

Specific target organ toxicity (repeated exposure): Category 2

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2

Signal Word (s)

WARNING

Hazard Statement (s)

AUH032 Contact with acids liberates very toxic gas.

H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Pictogram (s)

Exclamation mark, Health hazard, Environment



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Precautionary Statement – Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement – Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P391 Collect spillage.

Precautionary Statement – Storage

P405 Store locked up.

Precautionary Statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

Section 3 - Composition and Information on Ingredients

Ingredients

Name	CAS	Proportion
Amitrole (3-amino-1,2,4-triazole)	61-82-5	250 g/L
Ammonium thiocyanate	1762-95-4	220 g/L
Water		Balance

Section 4 - First Aid Measures

Inhalation

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Note that ingestion of ammonium thiocyanate may create symptoms similar to iodism or bromide intoxication.

Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

Section 5 - Firefighting Measures

Suitable Extinguishing Media

Use appropriate fire extinguisher for surrounding environment.

Hazards from Combustion Products

Under fire conditions the dehydrated components may emit and/or irritating fumes and gases including: oxides of nitrogen and oxides of sulphur.

Specific hazards arising from the chemical

This product is non combustible. However, following evaporation of aqueous component under fire conditions, the non-aqueous component may decompose and/or burn.

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•3Z

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

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Section 6 - Accidental Release Measures

Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

Environmental Precautions

This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

Section 7 - Handling and Storage

Precautions for Safe Handling

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities. Do NOT spray in high winds. Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers. Always read the label and any attached leaflet before use.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight. Do not store in the same area as acids. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

Section 8 - Exposure Controls and Personal Protection

Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Amitrole

TWA: 0.2 mg/m³

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal

eight-hour working day, for a five-day week.

Source: Safe Work Australia

Biological Monitoring

No biological limits allocated.

Control Banding

Not available

Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye and Face Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material such as elbow-length PVC gloves. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Thermal Hazards

No further relevant information available.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

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Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Liquid	Appearance	Brown liquid
Colour	Brown	Odour	Not available
Melting Point	<0°C	Boiling Point	>100°C
Decomposition Temperature	Not available	Solubility in Water	Soluble
Specific Gravity	1.12	pH	6.6 - 6.9
Vapour Pressure	Amitrole is not volatile	Relative Vapour Density (Air=1)	Not available
Evaporation Rate	Not available	Odour Threshold	Not available
Viscosity	Not available	Volatile Component	63%
Partition Coefficient: n-octanol/water (log value)	Not available	Density	Not available
Flash Point	Not applicable	Flammability	Non-combustible
Auto-Ignition Temperature	Not available	Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not available	Explosion Properties	Not available
Oxidising Properties	Not available	Particle Characteristics	Not available

Section 10 - Stability and Reactivity

Reactivity

Reacts with incompatible materials.

Chemical Stability

Stable under normal conditions of storage and handling.

Possibility of hazardous reactions

Violent reactions between thiocyanates and oxidising agents are possible.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Corrosive to iron, steel, copper and brass.

Reaction with acids can liberate a very toxic gas.

Hazardous Decomposition Products

Under fire conditions the dehydrated components may emit and/or irritating fumes and gases including: oxides of nitrogen and oxides of sulphur.

Hazardous Polymerization

Hazardous polymerization is not possible.

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Section 11 - Toxicological Information

Toxicology Information

Toxicity data for material given below.

Acute Toxicity - Oral

Acute toxicity estimate (ATE) for the product is >2000 mg/kg.

Acute Toxicity - Dermal

LD50 (rat): >10000 mg/kg

Ingestion

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

The concentrate is harmful if swallowed. Possible symptoms of exposure of the concentrate include: nausea, vomiting, diarrhoea, convulsions and possibly skin rashes or eruptions. However, swallowing of large amounts may cause injury, mainly due to ammonium thiocyanate.

Inhalation

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Skin

May be irritating to skin. The symptoms may include redness, itching and swelling.

Acute dermal toxicity has not been determined for this product; based on data available for its components, dermal toxicity is expected to be low. Prolonged contact with the concentrate may cause irritation and cause skin eruptions.

Eye

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Respiratory Sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

Not expected to be a skin sensitiser.

Germ Cell Mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Amitrole is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

Reproductive Toxicity

Suspected of damaging fertility or the unborn child. Classified as a suspected human reproductive or developmental toxicant.

Evidence from animal studies suggests the potential for developmental toxicity for amitrole.

STOT - Single Exposure

Not expected to cause toxicity to a specific target organ.

STOT - Repeated Exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard

Not expected to be an aspiration hazard.

Chronic Effects

Chronic Exposure:

For Amitrole: Based on the results of animal studies, liver and thyroid effects may result.

For Ammonium Thiocyanate: Ingestion of this substance may lead to an effect that mimics iodism, i.e. a condition resulting from an overdose of iodine, characterised by running eyes and nose, salivation and skin eruptions.

Other Information

The Australian Acceptable Daily Intake (ADI) for amitrole for a human is 0.0003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.025 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

Ref: Australian Pesticides and Veterinary Medicines Authority (APVMA) December 2022.

Section 12 - Ecological Information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

No ecological data available for this material.

Persistence and degradability

Loss from soil is principally by microbial degradation. Half life in soil is typically 14 days.

Mobility

Not available

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Do not discharge this material into waterways, drains and sewers.

Spray drift can cause damage, read the label for more information.

Acute Toxicity - Other Organisms

Not toxic to bees. Not toxic to birds.

Hazardous to the Ozone Layer

This product is not expected to deplete the ozone layer.

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Section 13 - Disposal Considerations

Disposal Considerations

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

To minimise personal exposure, refer to Section 8 - Exposure Controls and Personal Protection.

Product Disposal

On site disposal of the concentrated product is not acceptable.

Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).

Container Disposal and Methods

Do not use this container for any other purpose.

drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and

OBSOLETE PRODUCT

on-farm animal health chemical containers. If the label on your container carries the drumMuster symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

Empty containers and product should not be burnt.

Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.

If not recycling, puncture or shred and bury containers in local authority landfill.

If recycling, replace cap and return clean containers to recycler or designated collection point.

Section 14 - Transport Information

Transport Information

Road and Rail Transport (ADG Code):

This product complies with the requirements of Special Provision AU01 and is therefore exempted from being classified as Dangerous Goods according to the ADG Code.

Note: Special Provision AU01:

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in: packagings that do not incorporate a receptacle exceeding 500 kg(L); or IBCs.

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Class/Division: 9

UN No: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Amitrole) (Marine Pollutant)

Packing Group: III

EMS: F-A, S-F

Special Provisions: 274, 335, 969

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Class/Division: 9

UN No: 3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Contains Amitrole)

Packing Group: III

Label: Miscellaneous

Packaging Instructions (passenger & cargo): 964

Packaging Instructions (cargo only): 964

Special provisions: A97, A158, A197, A215

ADG U.N. Number

None Allocated

ADG Proper Shipping Name

None Allocated

ADG Transport Hazard Class

None Allocated

Hazchem Code

•3Z

Special Precautions for User

Not available

IMDG Marine pollutant

Yes

Transport in Bulk

Not available

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Section 15 - Regulatory Information

Regulatory Information

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Australia: WHS regulations (2011) - Schedule 11: classification not listed.

Poisons Schedule

S5

Montreal Protocol

Not listed

Stockholm Convention

Not listed

Rotterdam Convention

Not listed

International Convention for the Prevention of Pollution from Ships (MARPOL)

Not available

Agricultural and Veterinary Chemicals Act 1994

APVMA product number: 31236.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA).

Basel Convention

Not listed

Section 16 - Any Other Relevant Information**Date of Preparation**

SDS Reviewed: April 2023

Supersedes: July 2021

Version Number

2.0

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Literature References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Code of Practice for Supply Diversion into Illicit Drug Manufacture.

National Code of Practice for Chemicals of Security Concern.

Agricultural Compounds and Veterinary Chemicals Act.

International Agency for Research on Cancer (IARC) Monographs.

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.

International Air Transport Association (IATA) Dangerous Goods Regulations.

International Maritime Dangerous Goods (IMDG) Code.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of Classification and Labelling of Chemicals (7th revised edition).

Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

Contact Person/Point

Normal hours: SDS coordinator : Phone +61 3 9282 1000

After hours: Shift supervisor : Phone 1800 033 498

User Codes

User Title Label	User Codes
Field 4	Y

OBSOLETE PRODUCT

END OF SDS

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SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Azoxy 250 SC NZ Fungicide**
Product Use: Fungicide for the control of various diseases of turf as per the Directions for Use.
Restriction of Use: Refer to Section 15
Manufacturer: **Turf Culture Pty Ltd**
43 Gap Road, Sunbury, Vic 3429 Australia
Phone: +61 1300 11 8873 Fax: +61 3 8888 9991
www.turfculture.co.nz
New Zealand Supplier: **PGG Wrightson Turf Ltd**
3/118 Savill Drive,
Mangere East, Auckland 2024, New Zealand
Phone: +64 09 570 2570
www.pggwrightsonturf.co.nz
Emergency No: **0800 764 766 (National Poison Centre)**
Date of SDS Preparation: 9 August 2021

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR100712

Pictograms



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Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute inhalation toxicity Cat. 4	H332	Harmful if inhaled.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P391	Collect spillage.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Ensure the container is empty. Triple rinse empty container and add restate to spray tank. Recycle punctured container without caps through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose. Disposal of this product only by using according to this label, or at an approved landfill or other approved facility.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Conc%	CAS NUMBER.
Azoxystrobin	250g/L	131860-88-8
Propylene glycol	>1 - <10	57-55-6
Non hazardous	To 100	

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Take special care if exposed person is wearing contact lenses. Immediately call a POISON CENTER or doctor/physician.
If on Skin	Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.
If Swallowed	If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

If Inhaled No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Refer to Section 11 for full details.
Inhalation: Harmful if inhaled. Refer to Section 11 for full details.
Skin: May cause mild skin irritation. Refer to Section 11 for full details.
Eye: This product is an eye corrosive. Refer to Section 11 for full details.

Section 5. Fire Fighting Measures

Hazard Type	There is little risk of an explosion from this product if commercial quantities are involved in a fire. This product is likely to decompose only after heating to dryness, followed by further strong heating.
Hazards from decomposition products	Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Suitable Extinguishing media	Suitable extinguishing media are carbon dioxide, dry chemical, foam, water fog.
Precautions for firefighters and special protective clothing	Recommended personal protective equipment is full fire kit and breathing apparatus. If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire.
HAZCHEM CODE	2X

Section 6. Accidental Release Measures

Wear full protective clothing including eye/face protection as detailed in Section 8. All skin areas should be covered. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product.

In the event of a major spill, prevent spillage from entering drains or watercourses.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area-preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

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Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Do not breathe dust, fumes, gas, mist, vapours or spray.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Propane-1,2-diol, [57-55-6] Particulates only	-	10	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WES-STEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2020 12TH EDITION.

Engineering Controls

This product should only be used in a well-ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Personal Protection Equipment



Eyes	Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.
Skin & hands	Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types. We suggest that protective clothing be made from the following materials: Rubber and PVC
Respiratory	Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian/New Zealand Standard mentioned above. Otherwise, not normally necessary.
General	Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used.

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Section 9 Physical and Chemical Properties

Appearance	Milky light orange coloured suspension.
Odour	Not available
Odour Threshold	Not available
pH	3.0-3.5 (1% in water)
Boiling Point	Approximately 100°C at 100kPa.
Melting Point	Below 0°C.
Freezing Point	Below 0°C.
Flash Point	Not applicable.
Flammability	Non Flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	2.37 kPa at 20°C (water vapour pressure).
Vapour Density	As for water
Specific Gravity	1.083
Water Solubility	Completely soluble in water
Partition Coefficient:	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to Avoid	Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

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Section 11 Toxicological Information

Acute Effects:

Swallowed	Not triggered. Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased. Long Term Exposure: Azoxystrobin: A 90-day feeding study (rat), liver toxicity was observed at 2000 ppm. This was manifest as gross distension of the bile duct, increased numbers of lining cells and inflammation of the duct. There is no evidence of neurotoxicity in any of the studies conducted with azoxystrobin.
Dermal	Not triggered.
Inhalation	Harmful if inhaled.
Eye	Causes severe eye damage. Short Term Exposure: This product is eye corrosive. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage. Long Term Exposure: can cause permanent eye damage.
Skin	Not triggered. Short Term Exposure: This product is a mild skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.
Target Organs	Azoxystrobin: Liver Propylene Glycol: Kidney, liver, CNS

Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects.

Persistence and degradability	This product rapidly biodegrades in soils.
Bioaccumulation	This product is unlikely to accumulate in body tissues.
Mobility in Soil	This product is unlikely to be mobile in soils.
Other adverse effects	No data available

For Azoxystrobin:

Fish: LC₅₀ rainbow trout 96hr: 2.4mg/L

Algae: EbC₅₀ 0.23 (biomass) & 0.26 (growth rate)mg/L

Bees: LD₅₀ 200µg/bee

Daphnia: EbC₅₀ 48hr 0.47mg/L

Worms: LD₅₀ (*Eisenia foetida*) 881mg/kg; NOEC = 10 mg/kg

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Ensure the container is empty. Triple rinse empty container and add rinsate to spray tank. Recycle punctured container without caps through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



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Road and Rail Transport

UN No: 3082
Class-primary 9
Packing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin 25%)

Air Transport

UN No: 3082
Class-primary 9
Packing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin 25%)

Marine Transport

UN No: 3082
Class-primary 9
Packing Group III
Marine Pollutant Yes
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin 25%)

Limited Quantities Statement:

If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR100712

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	100L
Emergency Response Plan (Schedule 5)	100L
Secondary Containment (Schedule 5)	100L
Tracking (Schedule 26)	Not required

Product Name: **Azoxyl 250 SC NZ Fungicide**
Date of SDS: 9 August 2021

HSNO Additional Controls (Restrictions of use)	
77A	This substance must not be applied onto or into water.
77A – Maximum Application Rate	<i>The maximum application rate for Turf Culture Azoxy 250 SC NZ Fungicide shall be 595 g of active ingredient per hectare, with a maximum application frequency of two times per season (autumn, winter, spring, summer) and a minimum application interval of 21 days.</i>
Hazardous Property Controls Notice 2017	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 3	Hazardous substances in a place other than a workplace
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides
ACVM Act and Regulations	
ACVM Reg No.	Not applicable.

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness.

Product Name: **Azoxy 250 SC NZ Fungicide**
Date of SDS: 9 August 2021

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As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

Issue Date: 9 August 2021

Review Date: 9 August 2026

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Infosafe No™ 3NUYC	Issue Date : August 2021	ISSUED by NUFARM
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Product Name **BARRACK 720 Fungicide**

Classified as hazardous

1. Identification

GHS Product Identifier	BARRACK 720 Fungicide
Product Code	5781
Product Type	Group M5 Fungicide
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia
Telephone/Fax Number	Tel: +61 3 9282-1000
Emergency phone number	1800 033 498 (24hr Australia)
E-mail Address	SDSANZ@nufarm.com
Recommended use of the chemical and restrictions on use	For the control of fungus diseases on almonds, bananas, cucurbits, grapes, ornamentals, peanuts, pulses, stone fruits, tobacco and vegetables as specified in the Directions for Use table on the label.
Other Information	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

2. Hazard Identification

GHS classification of the substance/mixture	Serious eye irritation: Category 1 Skin sensitization: Category 1 Acute toxicity: Category 2 - Inhalation Carcinogenicity: Category 2 Specific target organ toxicity - single exposure: Category 3 Hazardous to the aquatic environment, long-term (Chronic): Category Chronic 1
Signal Word (s)	DANGER
Hazard Statement (s)	H318 Causes serious eye damage H330 Fatal if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H351 Suspected of causing cancer H410 Very toxic to aquatic life with long lasting effects H317 May cause an allergic skin reaction
Precautionary statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
Pictogram (s)	Corrosion, Skull and crossbones, Health hazard, Environment



Precautionary statement – Prevention	P260 Do not breathe mists or spray. P271 Use only outdoors or in a well-ventilated area. P284 Wear respiratory protection. P280 Wear protective gloves, clothing, eye and face protection. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment.
Precautionary statement – Response	P308+P313 IF exposed or concerned: Get medical advice/attention. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.

Infosafe No™ 3NUYC	Issue Date : August 2021	ISSUED by NUFARM
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Product Name **BARRACK 720 Fungicide**

Classified as hazardous

Other Information

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P391 Collect spillage.
Poisons Schedule S6

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Chlorothalonil	1897-45-6	720 g/L
	Propylene glycol	57-55-6	<10%
	Other ingredients (considered non-hazardous)		Balance

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. If symptoms persist, seek medical attention immediately.
Ingestion	Rinse mouth and then drink plenty of water. Do not give anything by mouth to a semi-conscious or unconscious person. If vomiting occurs, give more water to drink to assist dilution.
Skin	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water. If irritation persists, seek medical advice.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Treat symptomatically. Persons having allergic reactions respond to treatment with antihistamines or steroid creams and/or systemic steroids.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.
Special Protective Equipment for fire fighters	Breathable air apparatus must be worn when fighting a fire in which this product is involved.
Specific hazards arising from the chemical	Considered low risk due to water content, however upon evaporation of water the product is combustible.
Hazchem Code	2X
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal. Dispose of at a landfill in accordance with local regulations.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8. If product has dried out and the possibility of dust generation exists, wear a suitable respirator.
Clean-up Methods - Large Spillages	Place damaged containers in recovery bins (if available) and return to manufacturer. If large liquid spills occur, attempt to recover as much spilt material from sumps and banded areas, as possible, before absorbing remaining material into

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Product Name **BARRACK 720 Fungicide**

Classified as hazardous

Environmental Precautions	vermiculite or other absorbent. Prevent from entering drains, waterways or sewers.
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7. Handling and storage

Precautions for Safe Handling	Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a dry, well ventilated area out of direct sunlight. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs. Store in a locked enclosure.
Other Information	Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	Safe Work Australia has set the following exposure standard for propylene glycol : TLV (TWA) 474 mg/m ³ , STEL -.
Appropriate engineering controls	Use in a well ventilated area only.
Respiratory Protection	Do not inhale spray mist.
Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles and appropriate respiratory protection.
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
Requirements Concerning Special Training	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. Physical and chemical properties

Form	Liquid
Appearance	White opaque liquid
Solubility in Water	Disperses in water.
Specific Gravity	1.354
Vapour Pressure	0.076 mPa @ 25°C for chlorothalonil
Volatile Component	~40%
Partition Coefficient: n-octanol/water	Kow Log P is 2.92 (25°C, chlorothalonil)
Flammability	Non combustible material.

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) >5,000 mg/kg for chlorothalonil
Acute Toxicity - Dermal	LD50 (rat) >5,000 mg/kg for chlorothalonil

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Product Name **BARRACK 720 Fungicide**

Classified as hazardous

Acute Toxicity - Inhalation	LC50 (4hr) (rat) 0.1 mg/l for chlorothalonil
Ingestion	May cause irritation to mouth, throat and stomach. Possible symptoms of exposure include: nausea, vomiting and central nervous system depression.
Inhalation	Not a likely route of exposure when handling the concentrate. However, care should be taken to avoid the inhalation of excessive amounts of spray mist during field spraying, respiratory irritation may occur.
Skin	May irritate the skin. Prolonged or repeated exposure may cause skin sensitisation.
Eye	The concentrate will cause severe irritation and possible damage unless washed off immediately.
Skin Sensitisation	Chlorothalonil is a skin sensitiser.
Carcinogenicity	Chlorothalonil is classified as a suspected human carcinogen based on limited evidence from animal studies.
Reproductive Toxicity	Data indicates no reproductive effects.
Chronic Effects	Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of chlorothalonil. Reports of human experience in use of chlorothalonil products demonstrate that some individuals become sensitive to contact with this compound.
Serious eye damage/irritation	The product is an eye irritant.
Respiratory Irritation	The product is a respiratory irritant.
Skin corrosion/irritation	Mild skin irritant.
Other Information	The Australian Acceptable Daily Intake (ADI) for chlorothalonil for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', April 2020).

12. Ecological information

Persistence and degradability	Average field half life of chlorothalonil is 7 - 30 days. Adsorption studies indicate that chlorothalonil has very low mobility. In water, half life for chlorothalonil is 4.5 hours to 9 days.
Known Harmful Effects on the Environment	Highly toxic to fish and aquatic organisms.
Environmental Protection	Marine pollutant.
Acute Toxicity - Fish	The following is data for the active ingredient, chlorothalonil. LC50 (96hr) for rainbow trout is 0.043 mg/l. LC50 (96hr) for bluegill sunfish is 0.059 mg/l.
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia magna is 70 µg/l
Acute Toxicity - Algae	EC50 (120hr) for Selenastrum capricornutum is 210 µg/l.
Acute Toxicity - Other Organisms	The following data is for the active ingredient, chlorothalonil. Not toxic to bees. Birds: Not toxic to birds. LD50 for mallard ducks is >4,640 mg/kg

13. Disposal considerations

Product Disposal	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
Container Disposal	Do not use this container for any other purpose.

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Product Name **BARRACK 720 Fungicide**

Classified as hazardous

Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.
If recycling, replace cap and return clean containers to recycler or designated collection point.
If not recycling, puncture or shred and bury containers in local authority landfill.
If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.
Empty containers and product should not be burnt.
Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.
drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	2902
Transport hazard class(es)	Class 6.1
Hazchem Code	2X
Packing Group	PGII
IMO Proper Shipping Name	PESTICIDE, LIQUID, TOXIC, N.O.S. (CHLOROTHALONIL)
Marine Pollutant	Marine Pollutant

15. Regulatory information

Regulatory Information	WHS Schedule 11, item 34: Acute toxicity category 2.
Poisons Schedule	S6
Packaging & Labelling	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 53884.

16. Other Information

Date of preparation or last revision of SDS	30 August 2021
Contact Person/Point	Normal Hours: SDS Coordinator Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498 ...End Of MSDS...

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Bayer CropScience
Safety Data Sheet
Ethrel® 720 Growth Regulator



Version 1 / AUS
102000004271

Revision Date: 23.05.2013
Print Date: 23.05.2013

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name	Ethrel® 720 Growth Regulator
Other names	none
Product code (UVP)	05927773
Chemical Group	ethylene generator
Recommended use	Growth regulator
Chemical Formulation	Soluble concentrate (SL)
Company	Bayer CropScience Pty Ltd –ABN 87 000 226 022 391-393 Tooronga Road, East Hawthorn Victoria 3123, Australia
Telephone	(03) 9248 6888
Technical Information Service	1800 804 479
Facsimile	(03) 9248 6800
Website	www.bayercropscience.com.au
Emergency telephone no.	1800 033 111 Orica SH&E Shared Services

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

HAZARDOUS SUBSTANCE

DANGEROUS GOODS

Hazardous classification	Hazardous (National Occupational Health and Safety Commission - NOHSC)
R-phrases(s)	R20/21 - Harmful by inhalation and in contact with skin. R34 - Causes burns.
S-phrases(s)	See sections 4, 5, 6, 7, 8, 10, 12, 13.
ADG Classification	"Dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. - See Section 14.
SUSMP classification (Poison Schedule)	Schedule 6 (Standard for the Uniform Scheduling of Medicines and Poisons)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature
Ethepon 720 g/l

Chemical Name	CAS-No.	Concentration [%]
Ethepon	16672-87-0	55.40
Other ingredients (non-hazardous) to 100%		

SECTION 4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13

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11 26), and follow the advice given. Show this Safety Data Sheet to the doctor.

General advice

Remove contaminated clothing immediately and dispose of safely. When symptoms develop and persist, seek medical advice.

Inhalation

Move the victim to fresh air and keep at rest. Call a physician or poison control center immediately.

Skin contact

Take off contaminated clothing and shoes immediately. Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Call a physician or poison control center immediately.

Eye contact

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Notes to physician

Symptoms

Local: Burns on skin and mucosal tissues

Symptoms

Systemic: Gastro-intestinal irritation, This product causes reversible cholinesterase inhibition without long term effects.

Risks

Must NOT be confused with organophosphorus compounds!

Treatment

There is no specific antidote.

Treat symptomatically.

In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

Contraindication: atropine.

Contraindications: oximes (pralidoxime, obidoxime).

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray

Foam

Carbon dioxide (CO₂)

Dry powder

Hazards from combustion products

In the event of fire the following may be released:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Oxides of phosphorus

Hydrogen chloride (HCl)

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Precautions for fire-fighting

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.
Keep out of smoke.
Fight fire from upwind position.
Evacuate personnel to safe areas.
Whenever possible, contain fire-fighting water by diking area with sand or earth.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazchem Code 2X

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with spilled product or contaminated surfaces.
When dealing with a spillage do not eat, drink or smoke.
Use personal protective equipment.
Keep unauthorized people away.

Environmental precautions

Do not allow to get into surface water, drains and ground water.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Sweep up or vacuum up spillage and collect in suitable container for disposal.
Collect and transfer the product into a properly labelled and tightly closed container.
Dike area to prevent runoff.

Reference to other sections

Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

Handling

Hygiene measures

Contact with eyes and skin must be avoided.
After each day's use, wash gloves, face shield or goggles and contaminated clothing.
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Remove soiled clothing immediately and clean thoroughly before using again.

Storage

Requirements for storage areas and containers

Keep out of the reach of children.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep away from direct sunlight.
Protect from frost.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Biological limit values



none

Components with workplace control parameters

Not established.

Personal protective equipment - End user

General advice	Eye wash facility and safety shower should be available.
Respiratory protection	AS/NZS 1715/1716 approved respirator Use respiratory protection for organic vapours.
Hand protection	Elbow-length PVC or nitrile gloves
Eye protection	Face-shield or goggles
Skin and body protection	Cotton overall buttoned to the neck and wrist Washable hat

Engineering Controls

Advice on safe handling
Use only in area provided with appropriate exhaust ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
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Appearance

Form	Liquid
Colour	colourless to light brown
Odour	mild, characteristic

Safety data

pH	0.5 at 100 % Determined in the undiluted form.
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Flash point	not applicable
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Ignition temperature	no data available
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Upper explosion limit	no data available
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Lower explosion limit	no data available
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Vapour pressure	no data available
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Relative vapour density	no data available
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Density	ca. 1.30 g/cm ³ at 20 °C
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Water solubility	soluble
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Partition coefficient: n-octanol/water	log Pow: -2.2 at 25 °C The value mentioned relates to the active ingredient.
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Other information Further safety related physical-chemical data are not known.

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to avoid	Elevated temperatures freezing
Materials to avoid	Bases
Materials to avoid	Zinc Iron Copper Strong oxidizing agents Mild steel Aluminium Chlorates
Hazardous Decomposition Products	Thermal decomposition can lead to release of: Carbon monoxide Carbon dioxide (CO ₂) Hydrogen chloride (HCl) Oxides of phosphorus
Hazardous Decomposition Products	No decomposition products expected under normal conditions of use.
Thermal decomposition	170 °C
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions. Corrosive to metals Risk of ethylene emission in case of increasing pH.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Inhalation	Mists may cause upper respiratory tract irritation, coughing, sore throat. May be harmful if inhaled. Avoid breathing spray mist.
Skin	Severe skin irritation. Causes burns. Causes redness, swelling. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing.
Eye	Corrosive - causes irreversible eye damage. Liquid or vapor may cause irritation, burns, corneal opacity. Do not get in eyes.
Ingestion	May cause burns to mouth and esophagus, chest pain, abdominal pain. Harmful if swallowed.
Chronic exposure	This product or its components may have target organ effects.



Acute oral toxicity	LD50 (rat) 2,210 mg/kg The value mentioned relates to the active ingredient ethephon.
Acute inhalation toxicity	LC50 (rat) > 4.5 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. The value mentioned relates to the active ingredient ethephon.
Acute dermal toxicity	LD50 (rabbit) 1,390 mg/kg The value mentioned relates to the active ingredient ethephon.
Skin irritation	Severe skin irritation. (rabbit) The value mentioned relates to the active ingredient ethephon.
Eye irritation	corrosive (rabbit) The value mentioned relates to the active ingredient ethephon.
Sensitisation	Non-sensitizing. (guinea pig) The value mentioned relates to the active ingredient ethephon.
Chronic toxicity	Ethephon did not cause specific target organ toxicity in experimental animal studies.
Assessment Mutagenicity	Ethephon was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Assessment Carcinogenicity	Ethephon was not carcinogenic in lifetime feeding studies in rats and mice.
Assessment Toxicity to Reproduction	Ethephon did not cause reproductive toxicity in a two-generation study in rats.
Assessment developmental toxicity	Ethephon did not cause developmental toxicity in rats and rabbits.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) > 100 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient ethephon.
Toxicity to aquatic invertebrates	EC50 (Water flea (<i>Daphnia magna</i>)) > 721 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient ethephon.
Toxicity to aquatic plants	EC50 (<i>Scenedesmus subspicatus</i>) 56 mg/l Exposure time: 72 h Test conducted with a similar formulation.



Toxicity to aquatic plants	EC50 (Chlorella vulgaris (Fresh water algae)) 29 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient ethephon.
Toxicity to other organisms	LD50 (Colinus virginianus (Bobwhite quail)) 1,072 mg/kg The value mentioned relates to the active ingredient ethephon.
Biodegradability	Readily biodegradable. The value mentioned relates to the active ingredient ethephon.
Biodegradability	Not applicable for this mixture.
Stability in soil	. It has a low potential for leaching into groundwater or moving to deeper soil layers. The value mentioned relates to the active ingredient ethephon.
Bioaccumulation	no data available
Additional Environmental Information	no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Refillable containers:
Empty contents fully into application equipment. Close all valves and return to point of purchase.
Refer to product label for further information.
Metal drums and plastic containers:
Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SECTION 14. TRANSPORT INFORMATION

ADG

UN number	3265
Class	8
Subsidiary Risk	None
Packaging group	III
Description of the goods	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ETHEPHON SOLUTION)
Hazchem Code	2X

IMDG

UN number	3265
Class	8
Subsidiary Risk	None
Packaging group	III
EmS	F-A , S-B
Marine pollutant	NO
Description of the goods	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ETHEPHON SOLUTION)

IATA

Bayer CropScience
Safety Data Sheet
Ethrel® 720 Growth Regulator



Version 1 / AUS
102000004271

Revision Date: 23.05.2013
Print Date: 23.05.2013

UN number	3265
Class	8
Subsidiary Risk	None
Packaging group	III
Environm. Hazardous Mark	NO
Description of the goods	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ETHEPHON SOLUTION)

SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994
Australian Pesticides and Veterinary Medicines Authority approval number: 62544
See also Section 2.

SECTION 16. OTHER INFORMATION

Trademark information Ethrel® is a registered trademark of the Bayer Group.

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

END OF SDS

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Section 1. Identification: product identifier & chemical identity

Product Name	BioWeed® Organic Herbicide Concentrate
Intended Use	Herbicide
Chemical Nature	Terpene alcohols and saponified fatty acids

Manufacturer /Supplier	Greenpro Solutions Pty Ltd
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9 Research Street
Coolum Beach QLD 4573

Phone +61 1300 907 107

Email info@bioweed.com

Emergency Phone	13 11 26 (Poisons Information Centre)
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Section 2. Hazard Identification

Signal Word	Danger
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Hazard Class & Category	Skin corrosion / irritation – category 2 Serious eye damage/irritation – category 1 Specific target organ toxicity (single exposure) – category 3
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Hazard Statement	 H315 Causes skin irritation  H318 Causes serious eye damage  H335 May cause respiratory irritation
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Prevention	P264 Wash hands thoroughly after handling P280 Wear protective gloves, eye protection, face protection P261 Avoid breathing fume, vapours, spray P271 Use only outdoors or in a well ventilated area
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Response	P302+P352 IF ON SKIN: wash with plenty of soap and water P332+P313 If skin irritation occurs: Get medical advice/attention P362 Take off contaminated clothing and wash before reuse P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 Immediately call a POISON CENTRE or a doctor/physician P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P312 Call a POISON CENTRE or doctor/physician if you feel unwell
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Storage	P403 + P233 Store in a well ventilated place. Keep container tightly closed
Disposal	P405 Store locked up P501 Dispose of contents/container as specified on registered label

Section 3. Composition/Information on Ingredients

Name	Pine Oil
CAS-nr	8002-09-3
Content	680 g/L
Name	Non-hazardous ingredients
Content	to 1L

Section 4. First Aid Measure

Routes of Exposure:

Inhalation	Remove patient to fresh air and seek medical attention if breathing becomes difficult.
Skin Contact	Wash off contamination with soap and water. Seek medical attention if irritation persists.
Eye Contact	Rinse immediately with plenty of water for several minutes whilst keeping the eye lids separated. Seek medical advice directly.
Ingestion	Drink water or milk. If large quantities have been swallowed or if you feel unwell, obtain medical attention.
Most Important symptoms and effects	Ingestion: Large quantities may cause gastrointestinal irritation. Inhalation: Vapours and mists maybe irritating to mucous membrane and respiratory system. Skin: Causes skin irritation Eye: Causes severe eye damage

Section 5. Fire Fighting Measures

Hazard Type	Not Flammable
Suitable Extinguishing Equipment	Water mist or water spray, foam, dry powder or carbon dioxide
Hazards from combustion products	Oxides of carbon, nitrogen and water
Precautions for Firefighters and Special Protection Clothing	Self-contained breathing apparatus should be worn when fighting fire. Have fire extinguishers available.

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Section 6. Accidental Release Measures

Personal Protection	Wear personal protective gear as detailed in Section 8 below.
Environmental Precautions	Prevent the product from reaching sewage and water courses in large quantities.
Method & Material for Clean Up	For both small and large spillages collect as much as possible in a clean container for [preferable] reuse or disposal. Contain and/or absorb spill with inert material [e.g. sand, vermiculite, sawdust]. Dispose of waste according to the applicable local and national regulations.

Section 7. Handling and Storage

Precautions for Handling	Keep out of reach of children Read label before use Wash hands thoroughly after handling Avoid release to the environment Wear protective clothing as detailed in Section 8 Handle in a well ventilated workplace Use normal handling precautions applicable to industrial chemicals
Precautions for Storage	Store away from incompatible materials listed in Section 10 Store in closed containers in a cool, well ventilated area

Section 8. Exposure Controls / Personal Protection

Workplace Exposure Standards	No ingredients have exposure limits
Engineering Controls	Good ventilation should be provided in working areas.
Eye and Face Protection	Goggles and eyewash station.
Skin Protection	Use rubber/PVC gloves and full working clothes. Contaminated clothing should be laundered before re-use.
Respiratory Protection	Provide adequate ventilation. If applying by low pressure hand wand wear half facepiece respirator

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Section 9. Physical and Chemical Properties

Appearance	Pale amber liquid
Auto Ignition Temp	Not available
Decomposition Temperature	Not available
Evaporation Rate	<1
Flammability	Not available
Flash Point	>100°
Initial Boiling Point and Range	>101°
Melting Point/Freezing Point	Not available
Odour	Pinaceous (Pine odour)
Odour Threshold	Not available
Partition Coefficient	Not available
pH	10-11
Relative Density	Not available
Solubility	Soluble in Water
Upper/Lower Flammability/Explosive Limits	Not available
Vapour Density (Air = 1)	5.30
Vapour Pressure	<1mm Hg [20°C)
Viscosity	Not available

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Section 10. Stability and Reactivity

Reactivity	This product is unlikely to react under normal conditions
Chemical Stability	This product is stable under normal conditions
Possibility of Hazardous Reactions	None known
Condition to Avoid	None known
Incompatible Materials	Incompatible with strong oxidising agents
Hazardous Decomposition Products	Oxides of carbon, nitrogen and water.

Section 11. Toxicological Information

ACUTE TOXICITY	
Oral	Not classified as a hazard – Large quantities may cause gastrointestinal irritation
Dermal	Not classified as a hazard - Causes skin irritation
Inhalation	Not classified as a hazard - Inhalation of mist may result in irritation of the mucous membranes.
Eye	Causes severe eye damage

IRRITATION DATA

Skin Contact

Moderate irritant

Eye Contact

Severe irritant

Inhalation

Inhalation of mist may result in irritation of the mucous membranes

Sensitization Data

Not sensitising

Carcinogenicity and Mutagenicity

Not listed by NTP*

Not listed under Cal Prop65*

Not regulated by OSHA*

Not regulated by IARC*

Reproductive Toxicity

Not applicable

Specific Target Organ Toxicity

Not applicable

Section 12. Ecological Information

Biodegradability

Degradable: .97% breakdown in 3-100.

Mobility in Soil

No data available

Aquatic Toxicity

EC50 [fish: 96H]= 16.3mg/l; EC50 [daphnia; 48H] = 10.9mg/l.

Toxicity – Aquatic and Terrestrial Plants

Herbicide.

Acute Toxicity – Birds

Not an acute oral hazard to vertebrates (rat).

Other Information

Not expected to bioaccumulate

Section 13. Disposal Considerations

Product Disposal

May be disposed of by landfill or by incineration, subject to local authorisation using licensed contractors.

Packaging Disposal

As for product or triple rinse container with water and recycle.

Precautions

Do not allow to enter waterways

Section 14. Transport Information

Transport

This product is not classified as a dangerous good for transport.

Section 15. Regulatory Information

Australia – AICS

In compliance.

SUSMP – Therapeutic Goods Act 1989

Poison Schedule 6

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Section 16. Other Information

Issued by	Greenpro Solutions Pty Ltd
Date of Issue	11 August 2023
Revision	2.4
Revisions	2.4 Update company name and contact information 2.3 Update company name 2.2 Added pictograms 2.1 All sections of the SDS have been updated
Previously issued	27 August 2020
Product Name	BioWeed Organic Herbicide Concentrate

Acronyms

AICS	Australian Inventory of Chemical Substances
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
CAS Number	Chemical Abstracts Service Registry Number
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program (USA)
Cal Prop65	California Proposition 65
OSHA	American Occupational Safety & Health Administration
EC50	Median effective concentration

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BlightBAN

FUNGICIDE

PRODUCT INFORMATION

ADVERTISED PLAN

BlightBAN Fungicide, containing 600g/L Propamocarb, is registered for the control of Pythium in a range of turf and ornamental plant applications. In turfgrass situations, BlightBAN is an efficient curative fungicide for Pythium attack.

In ornamentals, BlightBAN is a useful preventative and curative fungicide for control of Pythium for use in containerised plantings, bulk soil treatments or around plant establishment (seeding, cuttings or seedling operations).

Features

- ✓ Fast, efficient curative knockdown of Pythium.
- ✓ Unique Group 28 mode of action.
- ✓ Systemic movement within the plant, working from the roots up.
- ✓ Good residual activity. Provides up to 28 days residual, preventative performance.
- ✓ Excellent turf and ornamental plant safety characteristics. Registered for use on over 90 ornamental species.

BlightBAN at a glance

Active Ingredient	600g/L Propamocarb
Formulation	Aqueous Concentrate
Pack Size	5L
Rate	Turf: 4.5-6.5 L/ha
Poison Schedule	Schedule 5 (Caution)
Mode of Action	Group 28 Fungicide

Product Characteristics

Colour	pH	Specific Gravity
Colourless to Light Yellow	2-4	-



Mode of Action

Propamocarb, the active ingredient in BlightBAN Fungicide, is absorbed by the roots & leaves, and transported upwards in the plant. Once inside the plant, BlightBAN controls the Pythium fungi by disrupting the formation of fungal cell walls by interfering with synthesis of phospholipids and fatty acids.

Propamocarb affects the 3 major stages of Pythium fungal growth – mycelial formation, spore production and germination. BlightBAN moves through the plant quickly, providing excellent knockdown control of Pythium.

Application Information

Turf: In turfgrass, BlightBAN Fungicide is applied at a rate of 4.5-6.5L/ha (45-65mL/100m²). For Pythium Blight activity, apply in sufficient water to obtain coverage. For root borne Pythium activity applications in a volume of water greater than 1000L/ha to ensure movement of the product into the soil.

It is recommended to use the lower rate as a preventative treatment, with the higher rate as a curative or as a preventative treatment during times of high infection pressure.

Applications should be repeated at 3-4 week intervals or use an alternate chemistry.

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Ornamental Application Information:

Situation	Rate	Comments
Seed Sowing	1.5mL/1L of water (15mL/10L of water) (150mL/100L of water)	Apply 2 litres/square metre by watering can immediately after sowing.
Seedlings		Apply 2 litres/square metre by watering can into boxes & pots and leave until soil mixture surface is dry enough to prick-off.
Cuttings		Dip cuttings in diluted mixture prior to planting. Apply 2 litres of diluted mixture per square metre of soil immediately after setting of cuttings and at intervals of 3 weeks thereafter.
Potted Plants		Dip young plants prior to potting out. Apply 100mL of diluted mixture per 100-110mm pots, 150 mL per 120-130mm pot and repeat at intervals of 3 weeks thereafter.
Bulk Soil Treatment	250-300mL per m ³ of soil	Apply to bulk soil for use with pot plants.

Pythium Diseases in Turf Fungi from the *Pythium* genus are soil borne plant pathogens capable of causing different diseases on a range of turfgrasses including both cool and warm season species. *Pythium* spp. can be a disease to both seedling and mature turfgrass swards. The first symptoms of Pythium Blight are circular reddish brown spots in turf, ranging in size from 2.5-15cm. In the morning dew, infected leaf blades appear water soaked and dark, may feel slimy and often mat together. As they dry, the leaf blades shrivel and turn reddish brown. On humid nights when dew forms, you may see mycelium on the outer margins of the spots the next morning. The mycelium may remain active and visible far into the day, as long as there is plentiful moisture on the plant. The infected grass plants collapses quickly. If temperature and relative humidity remain high, the spots may coalesce, and large areas of turf can be lost.



Pythium survives as a saprophyte in the thatch, soil or both. When conditions are favourable, the disease invades roots as well as plant tissue and spreads from plant to plant via active mycelial growth. *Pythium* is a 'water mould' and survives well in waterlogged soils or on debris in ponds. *Pythium* can occur year round, however the disease is most severe when temperatures and relative humidity are high.

Pythium Diseases in Ornamentals *Pythium* species attack the roots and stems of a range of ornamental plants. *Pythium* is a troublesome pathogen in ornamentals, particularly on seedlings, cuttings, bedding plants and pot plants. Larger shrubs and trees usually tolerate infection without any major adverse effects. There are more than one hundred different species of *Pythium*, but not all of these are plant pathogens. Amongst those found attacking ornamentals are *Pythium irregulare*, *P. sylvaticum* and *P. ultimum*.

Pythium (together with *Rhizoctonia*) is a common cause of damping-off of seedlings. Damping-off may occur pre-emergence (resulting in gaps where the germinating seed has decayed) or post-emergence (where the seedling rots away shortly after it has appeared above soil level). *Pythium* root rot may lead to the development of foliar symptoms, because the plant cannot take up enough water or nutrients through its damaged root system. The severity of these symptoms will therefore depend on the extent of the root decay. They may range from slight stunting and leaf yellowing to wilting and complete collapse of the plant. Examination of the roots of an affected plant will reveal that they are brown and soft. *Pythium* may also cause a soft decay of the stem base.



This publication is a guide only and no substitute for professional or expert advice. The product label should be consulted before use of any of the products referred to in this publication. Australian Agribusiness (Holdings) Pty Ltd shall not be liable for any results, loss, or damage whatsoever, whether consequential or otherwise through the use or application of products and/or materials referred to herein. Before using, always read the product label. More information: Contact your local Nuturf rep or go to www.nuturf.com.au

BlightBAN

FUNGICIDE

PRODUCT INFORMATION

ADVERTISED PLAN

BlightBAN Fungicide, containing 600g/L Propamocarb, is registered for the control of Pythium in a range of turf and ornamental plant applications. In turfgrass situations, BlightBAN is an efficient curative fungicide for Pythium attack.

In ornamentals, BlightBAN is a useful preventative and curative fungicide for control of Pythium for use in containerised plantings, bulk soil treatments or around plant establishment (seeding, cuttings or seedling operations).

Features

- ✓ Fast, efficient curative knockdown of Pythium.
- ✓ Unique Group 28 mode of action.
- ✓ Systemic movement within the plant, working from the roots up.
- ✓ Good residual activity. Provides up to 28 days residual, preventative performance.
- ✓ Excellent turf and ornamental plant safety characteristics. Registered for use on over 90 ornamental species.

BlightBAN at a glance

Active Ingredient	600g/L Propamocarb
Formulation	Aqueous Concentrate
Pack Size	5L
Rate	Turf: 4.5-6.5 L/ha
Poison Schedule	Schedule 5 (Caution)
Mode of Action	Group 28 Fungicide

Product Characteristics

Colour	pH	Specific Gravity
Colourless to Light Yellow	2-4	-



Mode of Action

Propamocarb, the active ingredient in BlightBAN Fungicide, is absorbed by the roots & leaves, and transported upwards in the plant. Once inside the plant, BlightBAN controls the Pythium fungi by disrupting the formation of fungal cell walls by interfering with synthesis of phospholipids and fatty acids.

Propamocarb affects the 3 major stages of Pythium fungal growth – mycelial formation, spore production and germination. BlightBAN moves through the plant quickly, providing excellent knockdown control of Pythium.

Application Information

Turf: In turfgrass, BlightBAN Fungicide is applied at a rate of 4.5-6.5L/ha (45-65mL/100m²). For Pythium Blight activity, apply in sufficient water to obtain coverage. For root borne Pythium activity applications in a volume of water greater than 1000L/ha to ensure movement of the product into the soil.

It is recommended to use the lower rate as a preventative treatment, with the higher rate as a curative or as a preventative treatment during times of high infection pressure.

Applications should be repeated at 3-4 week intervals or use an alternate chemistry.

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Ornamental Application Information:

Situation	Rate	Comments
Seed Sowing	1.5mL/1L of water (15mL/10L of water) (150mL/100L of water)	Apply 2 litres/square metre by watering can immediately after sowing.
Seedlings		Apply 2 litres/square metre by watering can into boxes & pots and leave until soil mixture surface is dry enough to prick-off.
Cuttings		Dip cuttings in diluted mixture prior to planting. Apply 2 litres of diluted mixture per square metre of soil immediately after setting of cuttings and at intervals of 3 weeks thereafter.
Potted Plants		Dip young plants prior to potting out. Apply 100mL of diluted mixture per 100-110mm pots, 150 mL per 120-130mm pot and repeat at intervals of 3 weeks thereafter.
Bulk Soil Treatment	250-300mL per m ³ of soil	Apply to bulk soil for use with pot plants.

Pythium Diseases in Turf Fungi from the *Pythium* genus are soil borne plant pathogens capable of causing different diseases on a range of turfgrasses including both cool and warm season species. *Pythium* spp. can be a disease to both seedling and mature turfgrass swards. The first symptoms of Pythium Blight are circular reddish brown spots in turf, ranging in size from 2.5-15cm. In the morning dew, infected leaf blades appear water soaked and dark, may feel slimy and often mat together. As they dry, the leaf blades shrivel and turn reddish brown. On humid nights when dew forms, you may see mycelium on the outer margins of the spots the next morning. The mycelium may remain active and visible far into the day, as long as there is plentiful moisture on the plant. The infected grass plants collapses quickly. If temperature and relative humidity remain high, the spots may coalesce, and large areas of turf can be lost.



Pythium survives as a saprophyte in the thatch, soil or both. When conditions are favourable, the disease invades roots as well as plant tissue and spreads from plant to plant via active mycelial growth. *Pythium* is a 'water mould' and survives well in waterlogged soils or on debris in ponds. *Pythium* can occur year round, however the disease is most severe when temperatures and relative humidity are high.

Pythium Diseases in Ornamentals *Pythium* species attack the roots and stems of a range of ornamental plants. *Pythium* is a troublesome pathogen in ornamentals, particularly on seedlings, cuttings, bedding plants and pot plants. Larger shrubs and trees usually tolerate infection without any major adverse effects. There are more than one hundred different species of *Pythium*, but not all of these are plant pathogens. Amongst those found attacking ornamentals are *Pythium irregulare*, *P. sylvaticum* and *P. ultimum*.

Pythium (together with *Rhizoctonia*) is a common cause of damping-off of seedlings. Damping-off may occur pre-emergence (resulting in gaps where the germinating seed has decayed) or post-emergence (where the seedling rots away shortly after it has appeared above soil level). *Pythium* root rot may lead to the development of foliar symptoms, because the plant cannot take up enough water or nutrients through its damaged root system. The severity of these symptoms will therefore depend on the extent of the root decay. They may range from slight stunting and leaf yellowing to wilting and complete collapse of the plant. Examination of the roots of an affected plant will reveal that they are brown and soft. *Pythium* may also cause a soft decay of the stem base.



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Section 1 - Identification of The Material and Supplier

Turf Culture Pty Ltd
43 Gap Road
Sunbury, Vic 3429 Australia

Phone: 1300 11 8873
Fax: 03 8888 9991
www.turfculture.com.au

Chemical nature: Blend of herbicide ingredients in water solution.
Trade Name: **Bow & Arrow Herbicide**
APVMA Approval no: 64580
Product Use: Herbicide for the control of certain broadleaf weeds in turf.
Creation Date: **May, 2014**
This version issued: **November, 2021** and is valid for 5 years from this date.

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Xn, Harmful. Xi, Irritating. Hazardous according to the criteria of SWA.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

SUSMP Classification: S5

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

UN Number: None allocated



GHS Signal word: WARNING

Acute Toxicity Oral Category 4
 Acute Toxicity Dermal Category 4
 Skin Irritation Category 2
 Serious eye irritation Category 2/2A
 Acute Toxicity Inhalation Category 4
 Hazardous to aquatic environment Short term/Chronic Category 1

HAZARD STATEMENT:

H302: Harmful if swallowed.
 H312: Harmful in contact with skin.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H332: Harmful if inhaled.
 H410: Very toxic to aquatic life with long lasting effects.

PREVENTION

P102: Keep out of reach of children.
 P261: Avoid breathing fumes, mists, vapours or spray.
 P262: Do not get in eyes, on skin, or on clothing.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in a well ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves, protective clothing and eye or face protection.

RESPONSE

P362: Take off contaminated clothing and wash before reuse.
 P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+P313: If skin irritation occurs: Get medical advice.
 P337+P313: If eye irritation persists: Get medical advice.

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P391: Collect spillage.

P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

P410: Protect from sunlight.

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Emergency Overview

Physical Description & Colour: Viscous light brown suspension concentrate.

Odour: Characteristic odour.

Major Health Hazards: irritating to eyes and skin, harmful if swallowed.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %	TWA (mg/m ³)	STEL (mg/m ³)
Diflufenican	83164-33-4	15g/L	not set	not set
MCPA (as the potassium salt)	94-74-6	300g/L	not set	not set
Clopyralid (as the potassium salt)	1702-17-6	20g/L	not set	not set
Other non hazardous ingredients	various	<10	not set	not set
Water	7732-18-5	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: If symptoms of poisoning become evident, contact a Poisons Information Centre, or call a doctor at once. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.

Skin Contact: Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Fire decomposition products from this product are likely to be toxic and corrosive if inhaled. Take appropriate protective measures.

Extinguishing Media: Not combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

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Lower Flammability Limit: Does not burn.
Autoignition temperature: Not applicable - does not burn.
Flammability Class: Does not burn.

Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective chemically resistant clothing including eye/face protection, gauntlets and self contained breathing apparatus. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. No special recommendations for clothing materials. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits

TWA (mg/m³)

STEL (mg/m³)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

The ADI for MCPA is set at 0.01mg/kg/day. The corresponding NOEL is set at 1.1mg/kg/day.

The ADI for Clopyralid is set at 0.5mg/kg/day. The corresponding NOEL is set at 50mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2014.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC.

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally necessary.

Eye baths or eyewash stations and safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

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Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Viscous light brown suspension concentrate.
Odour:	Characteristic odour.
Boiling Point:	100°C at 100kPa
Freezing/Melting Point:	No specific data. Liquid at normal temperatures.
Volatiles:	Water component.
Vapour Pressure:	2.37 kPa at 20°C (water vapour pressure).
Vapour Density:	No data.
Specific Gravity:	1.16 – 1.18 at 25°C
Water Solubility:	Completely soluble.
pH:	7.0-9.0 (1% in water)
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water Distribution:	No data
Viscosity:	200 - 300 cP (After 1 min at 20°C, spindle 2, 20 RPM)
Autoignition temp:	Not applicable - does not burn.

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Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: strong acids, strong bases, strong oxidising agents.

Fire Decomposition: Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form hydrogen chloride gas, other compounds of chlorine. May form hydrogen fluoride gas and other compounds of fluorine. Potassium compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Local Effects:

Target Organs: There is no data to hand indicating any particular target organs.

Classification of Hazardous Ingredients

Ingredient	Risk Phrases
MCPA Salts and esters:	Conc>=25%: Xn; R20/21/22
- Acute toxicity (oral) - category 4 - Acute toxicity (dermal) - category 4 - Acute toxicity (inhal) - category 4 - Hazardous to the aquatic environment (acute) - category 1 - Hazardous to the aquatic environment (chronic) - category 1	
Diiflufenican:	
Hazardous to the aquatic environment (chronic) - category 3	
Clopyralid:	
Eye damage - category 1	

Potential Health Effects

Inhalation:

Short Term Exposure: Available data shows that this product is harmful, but symptoms are not available. In addition product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term inhalation.

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Skin Contact:

Short Term Exposure: Available data shows that this product is harmful, but symptoms are not available. In addition product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term Exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short Term Exposure: This product is a severe eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms such as swelling of eyelids and blurred vision may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment is likely to cause permanent damage.

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term Exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 12 - Ecological Information

Insufficient data to be sure of status.

Section 13 - Disposal Considerations

Disposal: Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredients: Clopyralid, MCPA are mentioned in the SUSMP.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

SAFETY DATA SHEET

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)

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SAFETY DATA SHEET

Section 1 - Identification of The Material and Supplier

Turf Culture Pty Ltd
43 Gap Road
Sunbury, Vic 3429 Australia

Phone: 1300 11 8873
Fax: 03 8888 9991
www.turfculture.com.au

Chemical nature: Propyzamide is a benzene/amide derivative.
Trade Name: **Brek 500 SC Herbicide**
APVMA Approval no: 62471
Product Use: Agricultural herbicide for use as described on the product label.
Creation Date: **May, 2014**
This version issued: **February, 2021** and is valid for 5 years from this date.
Poisons Information Centre: Phone 13 1126 from anywhere in Australia

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Xi, Irritating. N, Dangerous to the environment. Hazardous according to the criteria of SWA.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

SUSMP Classification: S5

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

UN Number: None allocated



GHS Signal word: WARNING

Skin Corrosion /Irritation Category 2
 Serious eye damage/eye irritation Category 2B
 Specific Target Organ Toxicity - Single Exposure Category 3
 Carcinogenicity Category 2
 Hazardous to aquatic environment Short term/Chronic Category 2

HAZARD STATEMENT:

H315: Causes skin irritation.
 H320: Causes eye irritation.
 H335: May cause respiratory irritation.
 H351: Suspected of causing cancer.
 H411: Toxic to aquatic life with long lasting effects.

PREVENTION

P102: Keep out of reach of children.
 P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P262: Do not get in eyes, on skin, or on clothing.
 P264: Wash contacted areas thoroughly after handling.
 P273: Avoid release to the environment.
 P280: Wear protective gloves, protective clothing and eye or face protection.

RESPONSE

P362: Take off contaminated clothing and wash before reuse.
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313: If exposed or concerned: Get medical advice.
 P332+P313: If skin irritation occurs: Get medical advice.
 P337+P313: If eye irritation persists: Get medical advice.

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PLAN**

SAFETY DATA SHEET

P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

P410: Protect from sunlight.

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Emergency Overview

Physical Description & Colour: Viscous light brown liquid; suspension concentrate

Odour: Mild odour.

Major Health Hazards: Propyzamide is practically nontoxic via ingestion. The reported oral LD₅₀ values for Propyzamide range from 5620 mg/kg in female rats to 8350 mg/kg in male rats, respectively, and 10,000 mg/kg in dogs. Propyzamide is slightly toxic by skin exposure, with a dermal LD₅₀ of greater than 3160 mg/kg. When applied to the skin of rabbits, it produced slight local irritation, but no systemic intoxication. The 4-hour inhalation LC₅₀ for Propyzamide is greater than 5.0 mg/L, indicating slight toxicity by this route. Limited evidence of a carcinogenic effect, irritating to eyes and skin.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc,%	TWA (mg/m ³)	STEL (mg/m ³)
Propyzamide	23950-58-5	500g/L	not set	not set
Other non hazardous ingredients	secret	5-15	not set	not set
Water	7732-18-5	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact: Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

This product is likely to decompose only after heating to dryness, followed by further strong heating.

Fire decomposition products from this product are likely to be harmful if inhaled. Take suitable protective measures.

Extinguishing Media: Not combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

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Autoignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC, Viton. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits

TWA (mg/m³)

STEL (mg/m³)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

The ADI for Propyzamide is set at 0.02mg/kg/day. The corresponding NOEL is set at 1.9mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2014.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC, Viton.

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Eyebaths or eyewash stations and safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

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Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Viscous light brown liquid; suspension concentrate
Odour:	Mild odour.
Boiling Point:	Approximately 100°C at 100kPa.
Freezing/Melting Point:	Below 0°C.
Volatiles:	Water component.
Vapour Pressure:	2.37 kPa at 20°C (water vapour pressure).
Vapour Density:	As for water.
Specific Gravity:	1.1-1.2 at 20°C
Water Solubility:	Emulsifiable.
pH:	6.0-8.0 (1% in water)
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	As for water.
Coeff Oil/water Distribution:	No data
Viscosity:	200 - 400 cP (After 1 min at 20°C, spindle 2, 20 RPM)
Autoignition temp:	Not applicable - does not burn.

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Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: strong acids, strong bases, strong oxidising agents.

Fire Decomposition: This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form hydrogen chloride gas, other compounds of chlorine. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: Polymerisation reactions are unlikely; they are not expected to occur.

Section 11 - Toxicological Information

Toxicity: Acute toxicity: Propyzamide is practically nontoxic via ingestion. The reported oral LD₅₀ values for Propyzamide range from 5620 mg/kg in female rats to 8350 mg/kg in male rats, respectively, and 10,000 mg/kg in dogs. Propyzamide is slightly toxic by skin exposure, with a dermal LD₅₀ of greater than 3160 mg/kg. When applied to the skin of rabbits, it produced slight local irritation, but no systemic intoxication. The 4-hour inhalation LC₅₀ for Propyzamide is greater than 5.0 mg/L, indicating slight toxicity by this route.

Chronic toxicity: When dogs were fed a diet containing Propyzamide for 3 months, decreases in weight gain and food consumption, changes in blood chemistry, and increased liver weights were observed at doses of 15 mg/kg/day. In a study in rats over 3 months, similar effects were seen at doses of over 10 mg/kg/day, and changes in thyroid, adrenal, and pituitary function were observed at 50 mg/kg/day. In a 2-year feeding study in dogs, the addition of Propyzamide to the diet at doses of 0.75, 2.5, or 7.5 mg/kg/day caused no adverse health effects at any of the doses tested.

Reproductive effects: When pregnant rabbits were given doses of 5, 20, or 80 mg/kg/day during days 7 to 19 of gestation (18 rabbits per dose), no effects on development or reproduction were observed at or below the 20 mg/kg dose. At 80 mg/kg, there was an increased incidence of liver lesions, one maternal death, five abortions, and a decrease in maternal and offspring weight gain. In a three-generation rat reproduction study, no effects on reproduction were observed at 300 ppm (15 mg/kg/day), the highest dose tested. It is unlikely that Propyzamide will have reproductive effects except at doses high enough to cause maternal toxicity.

Teratogenic effects: No teratogenic effects were found when doses as high as 15 mg/kg/day were administered to pregnant rabbits. This evidence suggests Propyzamide is not teratogenic.

Mutagenic effects: Mutagenicity tests on bacteria, mammalian cell cultures, and live animals have been negative. It appears Propyzamide is not mutagenic.

Carcinogenic effects: Propyzamide caused liver tumours in mice after 2 years at doses of 10 mg/kg/day and above. In rats, doses of 50 mg/kg/day and above produced changes in ovary and liver structure and function, as well as thyroid and testicular effects. These data suggest that Propyzamide may have carcinogenic activity at sufficient doses.

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Organ toxicity: Target organs identified in animal studies include the liver, thyroid, and adrenal and pituitary glands.

Fate in humans and animals: Propyzamide is not readily absorbed into the bloodstream from the gastrointestinal tracts of rats and cows. After oral doses of a formulated product to rats, 54% and 0.6% of the unmetabolized Propyzamide was recovered in faeces and urine, respectively. Unmetabolized Propyzamide did not appear in the urine of a cow treated orally with the formulated product. Traces of Propyzamide were found in the milk of cows given feed that contained 5 ppm doses of a Propyzamide formulation. Propyzamide has a low potential for bioaccumulation in animal tissues.

There is no data to hand indicating any particular target organs.

Classification of Hazardous Ingredients

Ingredient	Risk Phrases
Propyzamide	Conc>=1%: Xn; R40
- Carcinogenicity - category 2 - Hazardous to the aquatic environment (acute) - category 1 - Hazardous to the aquatic environment (chronic) - category 1	

Potential Health Effects

Inhalation:

Short Term Exposure: Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

Long Term Exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short Term Exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term Exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short Term Exposure: This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term Exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: Propyzamide is classified by SWA as a Class 3 Carcinogen, possibly carcinogenic to humans.

See the SWA website for further details. A web address has not been provided as addresses frequently change.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 12 - Ecological Information

Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

Effects on birds: Propyzamide is practically nontoxic to birds. The oral LD₅₀ for Propyzamide in Japanese quail is 8700 mg/kg, and greater than 14,000 mg/kg in mallard ducks. The 8-day dietary LC₅₀ for Kerb Technical Herbicide in bobwhite quail and mallard ducks is greater than 10,000 ppm.

Effects on aquatic organisms: Propyzamide is practically nontoxic to warm water fish and slightly toxic to cold water fish. The 96-hour LC₅₀ for Propyzamide is 100 mg/L in bluegill sunfish, 72 mg/L in rainbow trout, 350 mg/L in goldfish, 204 mg/L in harlequin fish, and 150 mg/L in guppies. The 48-hour LC₅₀ for Daphnia magna, a small freshwater crustacean, is greater than 5.6 mg/L. Propyzamide may be moderately toxic to aquatic invertebrates.

Effects on other organisms: Propyzamide is nontoxic to honey bees.

Environmental Fate:

Breakdown in soil and groundwater: Propyzamide is moderately persistent in most soils, with a reported average field half-life of 60 days. It is readily bound, or adsorbed, to most soils. Increasing soil temperature, and to a lesser extent, soil moisture and pH increase the rate of Propyzamide degradation in soil. In most soil types, there is very little movement, or leaching, of Propyzamide into groundwater as it is nearly insoluble in water. Leaching of Propyzamide

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residues in soil is most likely in soils with low organic matter content, such as loamy sands or silt loams. Propyzamide is inactivated by soil organic matter and will not be effective on muck, peat, or other very high-organic content soils. Depending upon soil type and climatic conditions, persistence of Propyzamide may be higher. Accumulation of the herbicide from repeated annual applications to the same soil does not appear problematic. Chemical degradation may be the main route of disappearance from the soil. Photodecomposition at the soil surface can also occur. A moderate amount of Propyzamide breakdown is carried out by soil microorganisms. The herbicide is not active against common soil microorganisms. Volatilization loss may be high under hot, dry conditions.

Breakdown in water: In water bodies, Propyzamide is stable at a neutral pH. It is slowly degraded chemically, by light, and by aquatic and microorganisms. Loss from volatilization is not significant. Propyzamide is thought to be stable because less than 10% was hydrolysed, or broken down in water, over a 4-week period. It is stable to hydrolysis between pH 4.7 and 8.8.

Breakdown in vegetation: Propyzamide is readily translocated from the roots to other plant parts. Absorption of Propyzamide through plant leaves is minimal. Propyzamide is metabolized slowly by both tolerant and sensitive plants.

Section 13 - Disposal Considerations

Disposal: Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: Propyzamide, is mentioned in the SUSMP.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)

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1. IDENTIFICATION

Product Identifier: **Bugmaster® Flowable Insecticide**

Other Means of Identification: Carbaryl (an anti-cholinesterase compound)
Carbamate (chemical family)

Recommended Use of the Chemical and Restrictions on Use: **Insecticide**

Details of Manufacturer or Importer: AgNova Technologies Pty Ltd
Unit 4, 482 Kingsford Smith Drive
Hamilton Qld 4007 Australia
(03) 9899 8100
agnova.com.au

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Emergency Phone Number: 1800 033 111 (24 hrs)
Poison Information Centre 13 11 26

2. HAZARD(S) IDENTIFICATION

GHS Classification of the Active Substance:

Pictogram	Hazard Statements	Precautionary Statements
	Suspected of causing cancer (H351). Suspected of damaging fertility or the unborn child (H361).	Obtain, read and follow all safety instructions before use. Wear protective gloves and protective clothing. Refer to Section 8 for specific PPE requirements. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoiding breathing dust. Use only outdoors or in a well-ventilated area. (P203+P280+P264+P270+P261+P271)
	Harmful if swallowed or inhaled (H302+H332).	IF exposed or concerned, get medical advice. (P318) IF SWALLOWED: Get medical help. Rinse mouth. (P301+P317+P330) IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help. (P304+P340+P317)
	Very toxic to aquatic life with long lasting effects.	Store locked up. (P405) Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391) Dispose of contents/container using instructions in the product label and in accordance with local/federal regulations. (P501)



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Signal Word: Warning

ADG Classification: Classified as Dangerous Goods for land transport under the Australian Code for Transport of Dangerous Goods by Road and Rail 7th Edition, Version 7

SUSMP Classification: Schedule 6
(Standard for Uniform Scheduling of Medicines and Poisons)

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (% w/w):
Carbaryl (1-Naphthalenol, 1-(N-methylcarbamate))	63-25-2	43
Propylene Glycol (1,2-propanediol)	57-55-6	5

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone 13 11 26), and follow the advice given. Show this Safety Data Sheet to a doctor.

Description of Necessary First Aid Measures:

Ingestion: Call Poisons Information Centre (13 11 26) or doctor immediately for treatment advice. If swallowed, activated charcoal may be advised. Give atropine if instructed. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by Poisons Information Centre or a doctor. Do not give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call 000, then give artificial respiration, preferably mouth-to-mouth if possible. Call a Poison Information Centre or a doctor for further treatment advice.

Skin Contact: Remove contaminated clothing and wash skin thoroughly with soap and water. Obtain medical attention if irritation persists. Wash clothing before re-use.

Eye Contact: Immediately flush eyes with water for 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation persists, see a doctor.

First Aid Facilities: Provide washing facilities in the workplace, including an eyewash station and a safety shower.

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**Symptoms Caused
by Exposure:**

No data available.

**Medical Attention
and Special
Treatment:**

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Note to Physician:

Carbaryl is an N-methyl carbamate that inhibits cholinesterase. Drugs like 2-Pam (pyridine-2-aldoxime methiodide) are not recommended.
If swallowed, activated charcoal may be advised. Give atropine if instructed.
Consultation on therapy can be obtained at all hours by calling the Poisons Information Centre (Phone 13 11 26).

5. FIREFIGHTING MEASURES

**Suitable
Extinguishing
Equipment:**

Carbon dioxide, dry chemical or water spray. Fight larger fires with water spray.

**Specific Hazards
Arising from the
Chemical:**

Keep containers/storage vessels in fire area cooled with water spray
In case of fire, the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide

**Special Protective
Equipment and
Precautions for
Firefighters:**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.
Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water/firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

6. ACCIDENTAL RELEASE MEASURES

**Personal
Precautions,
Protective
Equipment and
Emergency
Procedures:**

Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document. Ensure adequate ventilation.

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Environmental Precautions:

Prevent material from entering public sewer systems or any waterways. Do not flush to drains or sewers. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal. Empty containers and product should not be burnt.

Methods and Materials for Containment and Cleaning Up:

Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following clean-up. Collect washings for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Refer to product label for further information.

Conditions for Safe Storage, including any Incompatibilities:

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Keep away from food and drink. Ensure containers are correctly labelled and securely sealed. Do not store in areas where temperatures frequently exceed 38°C.
Combustible liquid (Class C1)

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personnel who handle this product in its end-use application should use this product in accordance with its pesticide labelling.

Exposure Standards:	Chemical	OSHA PEL/TWA	ACGIH TWA/STEL	NIOSH REL
	Carbaryl	5 mg/m ³	5 mg/m ³	5 mg/m ³

Biological Monitoring:

No data available

Engineering Controls:

Good ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operators.

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Individual Protection Measures, for example, Personal Protective Equipment (PPE):

Keep away from foodstuffs, beverages and feed.
When opening the container and preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat and elbow-length chemical resistant gloves.
After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.
Avoid bare skin contact with treated surfaces for 7 days.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to beige liquid suspension
Odour:	Mild
Boiling Point:	185°C
Melting/Freezing Point:	No data available
Evaporation Rate:	No data available
Vapour Pressure:	23.7 hPa (18 hPa mm Hg)
Relative Density:	Not determined
Bulk Density:	1.1 g/cm ³
Viscosity:	No data available
pH:	4.0 – 5.0 (10% aqueous suspension)
Partition Coefficient: n-octanol/water:	No data available
Flash Point:	93.3°C
Flammability (explosive) Limits:	No data available
Auto-Ignition Temperature:	Product is not self-igniting
Decomposition Temperature:	175 - 190°C (exothermic decomposition)
Solubility:	Fully miscible

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10. STABILITY AND REACTIVITY

Reactivity:	Not reactive under normal temperature and storage conditions.
Chemical Stability:	Stable under normal temperature and storage conditions.
Possibility of Hazardous Reactions:	Will not occur.
Conditions to Avoid:	Extreme heat, open flames and ignition sources.
Incompatible Materials:	Strong acids; bases.
Hazardous Decomposition Products:	Carbon oxides, Nitrogen oxides, Methyl iso-cyanate (trace: no adverse effects expected).

11. TOXICOLOGICAL INFORMATION

Technical Carbaryl

Acute Toxicity:

Oral Toxicity: LD₅₀ Oral Rat = 699 mg/kg

Dermal Toxicity: LD₅₀ Dermal Rabbit = >4000 mg/kg

Inhalation Toxicity: LC₅₀ Aerosol (4 hr inhalation) Rat = 3.84 mg/L

Skin Corrosion/Irritation: Non-irritant (rabbits)

Serious Eye Damage/Irritation: Non-irritant (rabbits)

Respiratory or Skin Sensitisation: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity: EPA: Group B2: "Likely to be carcinogenic to humans" (Carbaryl)
ACGIH: Group A4
NTP: Listed

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IARC: Group 3
OSHA: Not Listed
Carcinogenicity classification is based on an increased incidence of hemangiosarcomas in male mice.
The Q1* of carbaryl is 8.75×10^{-4} (mg/kg/day)⁻¹.

Reproductive Toxicity:

Carbaryl was not a reproductive toxicant in a 2-generation study in rats. Carbaryl was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed in both species but were considered secondary to maternal toxicity.

Mutagenicity:

Carbaryl poses only a slight mutagenic risk based on the overall weight of evidence in a battery of in-vitro and vivo tests.

Specific Target Organ Toxicity (STOT) – single exposure:

No data available

Specific Target Organ Toxicity (STOT) – repeated exposure:

No data available

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Additional Toxicological Information:

Reversible cholinesterase inhibition occurred in chronic toxicity studies in rats and dogs. The principal organs affected in rats from long term exposure to high doses of Carbaryl include the urinary bladder, thyroid, kidneys and liver.
Carbaryl has been shown to cause tumour in lab animals in lifetime feeding studies

12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic invertebrates.

Technical Carbaryl

Ecotoxicity:

Aquatic Toxicity:

Acute:
Atlantic Salmon (96-hour LC₅₀): 0.22 mg/L
Sheepshead Minnow (96-hour LC₅₀): >0.72 mg/L
Mysid Shrimp (48-hour EC₅₀): 0.0057 mg/L
Algae (72-hour LC₅₀): 0.340 mg/L



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Chronic:

Atlantic Salmon (NOAEC): 0.0068 mg/L

Mysid Shrimp (NOAEC): 0.0005 mg/L

Algae (NOAEC): 0.045 mg/L

Bird Toxicity:

Canary (LC₅₀): >5000 mg/kg diet

Canary (NOAEL): 250 mg/kg bodyweight

Mallard Ducks (NOAEC): 343 mg/kg diet

Bee Toxicity:

Honeybee contact (LD₅₀): 1.1 µg/bee

Honeybee oral (LD₅₀): 0.11 µg/bee

Persistence and Degradability:

Biodegradation under aerobic laboratory conditions is below detectable limits (BOD₂₀ or BOD₂₈ is < 2.5%).

Biodegradation reached in Closed Bottle Test (OECD Test No. 301D) after 28 days is 1.2%.

Bioaccumulative Potential:

No data available

Mobility in Soil:

Carbaryl is moderately mobile in soils, according to the FAO mobility classification system and has the potential to leach into ground water.

13. DISPOSAL CONSIDERATIONS

Pesticide Disposal:

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Disposal:

Triple rinse containers before recycling or disposal. Add rinsings to spray tank.

If recycling or returning for re-use, replace cap and return rinsed clean containers to recycler, designated collection or refilling point. If not recycling or returning for re-use, break, crush, or puncture rinsed container and deliver empty packaging for appropriate disposal to drumMuster, an approved recycling program or accredited waste management facility.

Containers and their product must not be burnt.

Do not re-use empty containers for any other purpose.

Do not dispose of undiluted chemicals on site. Excess and unwanted chemicals should be registered for collection through the national ChemClear® or equivalent collection and disposal program.

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14. TRANSPORT INFORMATION

Transport Classification:	Road and Rail Transport: Classified as Dangerous Goods under the ADG7.7 Marine and Air: Classified as Dangerous Goods for transport by sea and air according to the criteria of the UN Model Regulations for Transport of Dangerous Goods 13 th Edition
UN Number:	2992
Proper Shipping Name or Technical Name:	CARBAMATE PESTICIDE, LIQUID, TOXIC, (Carbaryl)
Transport Hazard Class:	6.1
Packing Group Number:	III
Environmental Hazards for Transport Purposes:	<i>Marine Pollutant</i> Special marking (ADR): Diamond with fish and tree Special marking (IMDG): Diamond with fish and tree Special marking (IATA): Diamond with fish and tree Non-bulk packaging (max capacity of 450 L or less for liquids or 400 kg or less for solids) transported by motor vehicle, rail car or aircraft are excepted from all Marine Pollutants regulations and therefore treated as non-hazardous material. All bulk shipments or any shipment transported partially or entirely by vessel are treated as regulated Marine Pollutants and are shipped according to the requirements listed above.
Special Precautions for User:	Not applicable
Additional Information:	ADG7.7 - Limited Quantities - 5 L
Hazchem Code:	2X

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SAFETY DATA SHEET

BUGMASTER® FLOWABLE INSECTICIDE

Date of Issue: 24 March 2022

15. REGULATORY INFORMATION

APVMA Registered according to the Agricultural and Veterinary Chemicals Code Act 1994 (Cwlth)
APVMA Product Number: 40146

SUSMP Schedule 6

16. OTHER INFORMATION

Date of Preparation or Revision: 24 March 2022

Reason for Revision: The following sections were revised:
Section 2: Correction to DG classification details
Section 14: Minor correction to Proper Shipping Name, reference to IMDG and addition of Limited Quantities
Section 15: Additions to Abbreviations and Acronyms

Abbreviations and Acronyms:

- ACGIH – American Conference of Government Industrial Hygienists
- ADG7.7 – Australian Dangerous Goods Code for Road and Rail Transport, 7th Edition, Version 7
- ADR – Agreement concerning the International Carriage of Dangerous Goods by Road
- APVMA – Australian Pesticides and Veterinary Medicines Authority
- EC – Effective Concentration
- EPA – Environmental Protection Agency, USA
- GHS – Globally Harmonized System of Classification and Labelling of Chemicals
- IARC – International Agency for Research on Cancer
- IATA – International Air Transport Association
- IC – Inhibitory Concentration
- IMDG – International Maritime Dangerous Goods
- LC – Lethal Concentration
- LD – Lethal Dose
- NIOSH – National Institute for Occupational Safety & Health
- NOAEC – No Observed Adverse Effect Concentration
- NOAEL – No Observed Adverse Effect Level
- NTP – National Toxicology Program
- OSHA – Occupational Safety & Health Administration
- PEL – Permissible Exposure Limit

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SAFETY DATA SHEET

BUGMASTER® FLOWABLE INSECTICIDE

Date of Issue: 24 March 2022

REL – Recommended Exposure Limit

STEL – Short Term Exposure Limit

SUSMP – Standard for the Uniform Scheduling of Medicines and Poisons

TWA – Time Weighted Average

UN – United Nations Organisation

Data Sources: Manufacturer product safety data and published data

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

The opinions expressed herein are those of qualified experts with the manufacturer. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of AgNova Technologies Pty Ltd, it is the user's obligation to determine the conditions of safe use of the product.

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END OF SDS



Charlie Carp – All Purpose Fertiliser

Page 1 of 4

SAFETY DATA SHEET

Section 1 - Identification of the Preparation and the Company

Product Name: **Charlie Carp – All Purpose Fertiliser**
Other Names: None

This product is not classified as hazardous according to the criteria of Safe Work Australia.
Not classified as a Dangerous Good according to the Australian Dangerous Goods Code (ADG).

Uses: Fertiliser.

Charlie Carp Ltd

Address

Telephone
Emergency
e-mail

Website

Poisons Information Centre

Lot 2, Saleyards Road

Postal: PO Box 48 DENILIQUIN NSW 2710

(03) 5881 8882

1300 305 963

info@charliecarp.com

<https://www.charliecarp.com.au/>

Poisons Information Centre. Phone (e.g. Australia 13 11 26; New Zealand 0800 764 766).

Section 2 – Hazards Identification

Not Hazardous

Hazard Statements

NONE, NOT HAZARDOUS

Prevention

P264: Wash hands thoroughly after handling

Response

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water

P305 + P313 + P351 + P337 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

P332 + P313: If skin irritation occurs: Get medical advice/attention

P308 + P313 If exposed or concerned: Get medical advice/attention

Storage

P403 + P235 Store in a well-ventilated place. Keep cool

Disposal

P501 Dispose of contents/container to approved landfill.

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Section 3 - Composition/Information on Ingredients

Ingredient(s)

Hydrolysed whole fish and nutrients.

Contains non-hazardous ingredients or ingredients that are below hazardous concentrations

CAS-number

Not available

%wt

Section 4 – First Aid Measures

Ingestion:

NEVER GIVE AN UNCONSCIOUS PERSON ANYTHING TO DRINK NOR ATTEMPT TO INDUCE VOMITING. If person is conscious, rinse mouth out with water ensuring that mouthwash is not swallowed. Give about 250mL (2 glasses) of water to drink. For advice, contact a Poisons Information Centre. (Phone e.g. Australia 131126; New Zealand 0800 764 766) or a doctor.

Inhalation:

First aid is unlikely to be required as a result of exposures during normal use. The product is diluted for use. However, if necessary, remove to fresh air and wash the area around the nose and mouth with water.

Charlie Carp – All Purpose Fertiliser

Eye Contact:

Hold eyelids open and rinse the eye continuously with a gentle stream of clean running water for at least fifteen minutes. Seek medical attention if any irritation persists.

Skin Contact:

Remove contaminated clothing and wash thoroughly with soap and water. Use water alone, if soap is unavailable. Apply a moisturising hand cream, if available. Seek medical attention if any soreness or inflammation of the skin persists or develops later. Launder affected clothing before re-use.

Additional Information:

First Aid Facilities: Eye wash facilities are recommended if large quantities of the concentrated product are being handled

Advice to Doctor: Treat symptomatically.

Entry Route(s): Inhalation of spray mists or ingestion.

Section 5 – Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA: Extinguish using whatever is suitable for the primary cause of the fire. Foam, dry chemical powder (bicarbonate or ammonium phosphate based) or carbon dioxide are all suitable.

HAZARDS FROM COMBUSTION PRODUCTS: May evolve carbon monoxide, carbon dioxide and traces of completely burned carbon products if heated strongly enough to evaporate the water component.

PROTECTIVE EQUIPMENT: Fire fighters should wear self-contained breathing apparatus.

Additional Information:

Product is not combustible.

Section 6 – Accidental Release Measures

EMERGENCY PROCEDURES: Wear protective equipment as specified for handling

SPILLS: For minor spills, dilute with water. In the event of a major spill, prevent from entering drains and water courses until fully diluted or cover with an absorbent such as earth, sand or a commercial oil absorber. Sweep or scrape up and collect in sealable containers. Dispose to approved landfill.

Section 7 – Handling and Storage

SAFE HANDLING PRECAUTIONS: Avoid prolonged or repeated skin contact. Wear gloves to minimise skin contact: For Personal Protective Equipment (PPE), see Section 8.

SAFE STORAGE PRECAUTIONS: Keep away from direct sources of heat. No other special storage precautions required but product life will be maximised if it is stored out of direct sunlight in a cool well ventilated area.

INCOMPATIBILITIES: None.

Section 8 – Exposure Controls/Personal Protection

EXPOSURE STANDARDS: Exposure standards have not been allocated to this product or its ingredients.

Exposure standards represent airborne concentrations of individual chemical substances, which according to current knowledge, should neither impair the health nor cause undue discomfort to nearly all workers. Exposure standard may be a time-weighted average (TWA), a short-term exposure limit (STEL) or a peak level.

ENGINEERING CONTROLS:

Ventilation requirements depend on the quantity of product in use and the method of application. If using more than minor quantities, work area should have good, mechanical ventilation. Local exhaust ventilation is unlikely to be required for foreseeable uses of this product.

PERSONAL PROTECTION:

Requirements are dependent on working conditions, method of application and quantity of product in use. For minor use, nitrile, neoprene, PVC or natural rubber gloves may be sufficient. Safety glasses should be worn if there is any potential for eye contact. Respiratory protection is unlikely to be required for foreseeable uses of this product alone

WITHHOLDING PERIODS:

A 2-3 day withholding period is advised for Fruit and Vegetables and Animals on Pastures and associated Crops.

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Charlie Carp – All Purpose Fertiliser

Section 9 – Physical and Chemical Properties

Appearance: Mid-brown liquid with fine solids and light fish hydrolysate odour
Boiling Point: 100°C
Melting Point: 0°C
Vapour Pressure: Negligible
Vapour Density: No data available
Specific Gravity: 1.20.
Solubility (Water): Totally miscible
Flash Point: None
Explosion Limits: None
% Volatiles: <1%
Ph: Not relevant

Section 10 – Stability and Reactivity

Stability: Stable

Hazardous Decomposition Products: May evolve carbon dioxide and traces of incompletely burned carbon products if heated strongly enough to evaporate the liquid content and burn the residual solids.

Hazardous polymerisation: Will not occur.

Incompatibilities: None known.

Conditions to Avoid: As an organic product, shelf life will be prolonged if stored in a cool area.

Section 11 – Toxicological Information

Symptoms of Exposure:

ACUTE - Swallowed Considered to be practically non harmful by all exposure routes, however, flavour is unpleasant in concentrated form.

ACUTE – EYE: Concentrate may be Irritating.

ACUTE – SKIN: Harmless unless in contact with broken skin, when irritation might occur.

ACUTE – INHALED: Inhalation is unlikely to be a hazard in normal use but if generated spray mist might be slightly irritating.

Chronic Health Effects

Chronic: No specific data is available for the product for chronic exposure symptoms.

Carcinogenicity: None of the ingredients in this product are listed as carcinogenic by Safe Work Australia, the International Agency for Research on Cancer (IARC), the National Institute for Occupational Safety and Health (NIOSH), the National Toxicology Program (NTP), or the Occupational Health and Safety Administration (OSHA).

Toxicological Information

Acute Toxicity Data:

No data available.

Section 12 – Ecological Information

As the product is a fertiliser, it is not expected to be harmful in soil. However, the concentrated product should not be allowed to enter drains or waterways as it may cause an excess of nutrients

Section 13 – Disposal Considerations

Concentrate should be disposed to approved land fill. Rinsed containers may be disposed in general waste.

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Section 14 – Transport Information

This product is not a dangerous good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code).

UN Number: None allocated
 Proper shipping name: None allocated
 DG Class: None allocated
 HazChem code: None allocated
 Packing group: None allocated

Section 15 – Regulatory Information

Product is not a scheduled poison according to the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

All ingredients are listed on the Australian Inventory of Chemical Substances (AICS).

Section 16 – Other Information

REFERENCES

1. List of Designated Hazardous Substances [NOHSC: 10005(1999)]
2. Safe Work Australia Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals, 2016
3. Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 1003(1995)] and subsequent amendments
4. AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices.
5. AS/NZS 1716 - Respiratory protective devices.
6. Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), Edition, 7.6, 2018
7. Standard for the Uniform Scheduling of Medicines and Poisons No. 27 (2020) and subsequent amendments

User should verify applicability of this data sheet if more than 5 years old.

This information is for guidance only without warranty, representation, inducement or licence of any kind, except that it is obtained from sources available and believe to be accurate at the date of issue. Recommendations / information are offered in good faith, but no warranty is implied or expressed.

Date of Issue: 8th April 2020

Rev. 2

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Nutrient Advantage Advice®

Recommendation Report

Charlie Carp
Lot 2 Saleyards Rd

Deniliquin
NSW 2710

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Report Print Date: 04/04/2017
Agent/Dealer:
Advisor/Contact: David Morris Brown
Phone:
Purchase Order No: 27th Feb

Grower Name: Charlie Carp
Sample No: 021475425
Paddock Name: Charlie Carp all purpose
Sample Name: Batch 1 - 17th Feb 2017

Nearest Town: DENILIKUIN
Test Code: C3
Sample Type: Water
Sampling Date: 06/03/2017

Analyte / Assay	Unit	Value	Very Low	Marginal	Optimum	High	Excess	Optimal
Electrical Conductivity (EC)	dS/m	94.00						
pH (Solution)		3.6						
Sodium (Na)	mg/L	180.00						
Salinity Class		6.00						
Res. Sod. Carb. (RSC)	meq/L	-68.00						
Sodium Ads. Ratio (SAR)		1.30						
Sodicity Class		0.00						
Total Alkalinity	mg CaCO ₃ /L	<50.00						
Bicarbonate Alkalinity (HCO ₃)	mg CaCO ₃ /L	0.00						
Carbonate (CO ₃)	meq/L	0.00						
Carbonate Alkalinity (CO ₃)	mg CaCO ₃ /L	0.00						
Bicarbonate (HCO ₃)	meq/L	0.00						
Calcium Carbonate Saturation Index		-4.60						
Water Hardness	mg CaCO ₃ /L	3400.00						
Aluminium (Al)	mg/L	10.00						
Boron (B)	mg/L	0.69						
Calcium (Ca)	mg/L	1300.00						
Copper (Cu)	mg/L	52.00						
Iron (Fe)	mg/L	20.00						
Magnesium (Mg)	mg/L	34.00						
Manganese (Mn)	mg/L	1.40						
Nitrogen (N)	mg/L	96000.00	9.6% w/w or w/L					
Ammonium Nitrogen (NH ₄)	mg/L	9400.00						
Nitrate Nitrogen (NO ₃)	mg/L	<1.00						

Nutrient Advantage Advice®

Recommendation Report

Grower Name: Charlie Carp
Sample No: 021475425
Paddock Name: Charlie Carp all purpose
Sample Name: Batch 1 - 17th Feb 2017

Nearest Town: DENILQUIN
Test Code: C3
Sample Type: Water
Sampling Date: 06/03/2017

Analyte / Assay	Unit	Value	Very Low	Marginal	Optimum	High	Excess	Optimal
Phosphorus (P)	mg/L	9900.00	0.99% w/w or w/L					
Potassium (K)	mg/L	56000.00	5.6% w/w or w/L					
Sulphur (S)	mg/L	3600.00						
Zinc (Zn)	mg/L	3.40						
Total Dissolved Solids	mg/L	63000.00						
Total Phosphorus	mg/L	11000.000						
Total Potassium	mg/L	56000.000						
Total Sulphur	mg/L	4600.00						
Total Calcium	mg/L	1600.0000						
Total Magnesium	mg/L	430.000						
Total Sodium	mg/L	1700.0000						
Total Manganese	mg/L	16.00						
Total Iron	mg/L	390.00						
Total Copper	mg/L	69.00						
Total Zinc	mg/L	47.00						
Total Molybdenum	mg/L	0.21						
Total Boron	mg/L	7.80						
Total Aluminium	mg/L	210.00						
Total Cobalt	mg/L	0.18						
Total Lead	mg/L	0.13						
Total Cadmium	mg/L	0.18						
Specific Gravity	g/cm3	1.0						

The results reported pertain only to the sample submitted

Analyses performed on an 'as received' basis

* One or more components of this test are below their detection limit. The value used is indicative only.

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Nutrient Advantage Advice®

Recommendation Report

Grower Name:	Charlie Carp	Nearest Town:	DENILQUIN
Sample No:	021475425	Test Code:	C3
Paddock Name:	Charlie Carp all purpose	Sample Type:	Water
Sample Name:	Batch 1 - 17th Feb 2017	Sampling Date:	06/03/2017

Sample Details:

Sample Water Type: Information Not Provided
Water Source:

Water Use: Stimulents

Recommendations

Product Recommendation	Application Rate (kg/ha) (Unless Stated)	Timing	Application Method	N kg/ha	P kg/ha	K kg/ha	S kg/ha
Total Nutrient Applied							

This Recommendation has been done by: David Morris Brown (1438)

Other Elements in recommendation	Ca kg/ha	Mg kg/ha	Cu kg/ha	Zn kg/ha	Mo gm/ha	Co gm/ha	B kg/ha	Fe kg/ha	Mn kg/ha	Si kg/ha
Total Nutrient Applied										

Legend:	N : Nitrogen	P : Phosphorus	K : Potassium	S : Sulphur	Ca : Calcium
	Mg : Magnesium	Cu : Copper	Zn : Zinc	Mo : Molybdenum	Co : Cobalt
	B : Boron	Fe : Iron	Mn : Manganese	Si : Silicon	

Comments

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Disclaimer: Laboratory analyses and fertiliser recommendations are made in good faith, based on the best technical information available as at the date of this report. Incitec Pivot Limited, its officers, employees, consultants, Agents and Dealers do not accept any liability whatsoever arising from or in connection with the analytical results, interpretations and recommendations provided, and the client takes the analytical results, interpretations and recommendations on these terms. In respect of liability which cannot be excluded by law, Incitec Pivot's liability is restricted to the re-supply of the laboratory analysis or the cost of having the analysis re-supplied.



Safety Data Sheet



Confidor® 200 SC Insecticide

Version 3 / AUS
102000026844

Revision Date: 22.11.2022
Print Date: 22.11.2022

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Trade name Confidor® 200 SC Insecticide
Product code (UVP) 80481853

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer Cropscience Pty Ltd
ABN 87 000 226 022
Level 1, 8 Redfern Road
3123 Hawthorn East
Victoria
Australia

Telephone (03) 9248 6888
Telefax (03) 9248 6800
Responsible Department 1800 804 479 Technical Information Service
Website www.crop.bayer.com.au

1.4 Emergency telephone no.

Emergency telephone no. 1800 033 111 IXOM Operations Pty Ltd

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Australian GHS Regulation

Acute toxicity: Category 4
H302 Harmful if swallowed.

Acute aquatic toxicity: Category 1
H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1
H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to specific Australian legislation

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

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Safety Data Sheet



Confidor® 200 SC Insecticide

Version 3 / AUS
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Revision Date: 22.11.2022
Print Date: 22.11.2022

Imidacloprid

Signal word: Warning

Hazard statements

H302 Harmful if swallowed.

Precautionary statements

P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
P330 Rinse mouth.
P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No additional hazards known beside those mentioned.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Imidacloprid 200 g/l
Suspension concentrate (=flowable concentrate)(SC)

Chemical name	CAS-No.	Concentration [%]
Imidacloprid	138261-41-3	18.30
Glycerine	56-81-5	10.00
1,2-Propanediol	57-55-6	< 10.00
1,2-Benzisothiazol-3(2H)-one	2634-33-5	>= 0.005 - <= 0.05
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	>= 0.0002 - <= 0.0015
Other ingredients (non-hazardous) to 100%		

SECTION 4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Safety Data Sheet to the doctor.

4.1 Description of first aid measures

General advice

Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

Inhalation

Move to fresh air. When symptoms persist or in all cases of doubt seek medical advice.

Skin contact

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

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Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms Dizziness, Nausea, Abdominal pain

4.3 Indication of any immediate medical attention and special treatment needed

Treatment Treat symptomatically. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Water spray, Carbon dioxide (CO₂), Foam, Sand

Unsuitable High volume water jet

5.2 Special hazards arising from the substance or mixture In the event of fire the following may be released: Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

Further information Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

Evacuate personnel to safe areas. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth.

Hazchem Code •3Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. When dealing with a spillage do not eat, drink or smoke. Keep unauthorized people away.

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6.2 Environmental precautions

Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Hygiene measures

Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Imidacloprid	138261-41-3	0.7 mg/m ³ (TWA)		OES BCS*
Glycerine (Inhalable mist.)	56-81-5	10 mg/m ³ (TWA)	12 2011	AU NOEL
1,2-Propanediol (Particulate.)	57-55-6	10 mg/m ³ (TWA)	12 2011	AU NOEL
1,2-Propanediol (Total vapour and particulates.)	57-55-6	474 mg/m ³ /150 ppm (TWA)	12 2011	AU NOEL

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"



Confidor® 200 SC Insecticide

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8.2 Exposure controls

Respiratory protection

Respiratory protection is not required under anticipated circumstances of exposure.
Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

Material	Nitrile rubber
Rate of permeability	> 480 min
Glove thickness	> 0.4 mm
Protective index	Class 6
Directive	Protective gloves complying with EN 374.

Eye protection

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection

Wear standard coveralls and Category 3 Type 6 suit.
If there is a risk of significant exposure, consider a higher protective type suit.
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.
If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

General protective measures

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the above mentioned recommendations would apply.

Engineering Controls

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	suspension
Colour	white to light beige
Odour	weak, characteristic
Odour Threshold	No data available

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Print Date: 22.11.2022

pH	7.0 - 8.5 (100 %) (23 °C)
Melting point/range	No data available
Boiling Point	No data available
Flash point	Not applicable
Flammability	No data available
Auto-ignition temperature	No data available
Thermal decomposition	210 °C Exothermic decomposition. The value mentioned relates to the active ingredient.
Ignition temperature	405 °C
Minimum ignition energy	No data available
Self-accelarating decomposition temperature (SADT)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	No data available
Evaporation rate	No data available
Relative vapour density	No data available
Relative density	No data available
Density	ca. 1.10 g/cm ³ (20 °C)
Water solubility	miscible
Partition coefficient: n-octanol/water	Imidacloprid: log Pow: 0.57
Viscosity, dynamic	400 - 800 mPa.s (23 °C) Velocity gradient 7.5 /s
Viscosity, kinematic	No data available
Surface tension	48.9 mN/m
Oxidizing properties	No data available
Explosivity	Not explosive 92/69/EEC, A.14 / OECD 113
9.2 Other information	Further safety related physical-chemical data are not known.

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SECTION 10. STABILITY AND REACTIVITY



Confidor® 200 SC Insecticide

Version 3 / AUS
102000026844

Revision Date: 22.11.2022
Print Date: 22.11.2022

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
10.4 Conditions to avoid	Extremes of temperature and direct sunlight.
10.5 Incompatible materials	Acids, Bases, Strong oxidizing agents
10.6 Hazardous decomposition products	Thermal decomposition can lead to release of: Hydrogen chloride (HCl) Hydrogen cyanide (hydrocyanic acid) Carbon monoxide Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	LD50 (Rat) > 1,218 mg/kg
Acute inhalation toxicity	LC50 (Rat) > 2.238 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol. Highest attainable concentration.
Acute dermal toxicity	LD50 (Rat) > 4,000 mg/kg
Skin corrosion/irritation	No skin irritation (Rabbit)
Serious eye damage/eye irritation	No eye irritation (Rabbit)
Respiratory or skin sensitisation	Skin: Non-sensitizing. (Guinea pig) OECD Test Guideline 406, Buehler test

Assessment mutagenicity

Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction

Imidacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Imidacloprid is related to parental toxicity.

Assessment developmental toxicity

Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.

Assessment STOT Specific target organ toxicity – single exposure

Imidacloprid: Based on available data, the classification criteria are not met.

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Assessment STOT Specific target organ toxicity – repeated exposure

Imidacloprid did not cause specific target organ toxicity in experimental animal studies.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

May be harmful if inhaled.

May cause skin irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

May cause eye irritation.

Harmful if swallowed.

Early onset symptoms related to exposure

Refer to Section 4

Delayed health effects from exposure

Refer to Section 11

Exposure levels and health effects

Refer to Section 4

Interactive effects

Not known

When specific chemical data is not available

Not applicable

Mixture of chemicals

Refer to Section 2.1

Further information

No further toxicological information is available.

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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) > 535 mg/l
Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)) 211 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient imidacloprid.

LC50 (Cyprinus carpio (Carp)) 280 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient imidacloprid.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) > 535 mg/l
Exposure time: 24 h
EC50 (Daphnia magna (Water flea)) > 100 mg/l
Exposure time: 48 h

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Chronic toxicity to aquatic invertebrates	EC50 (Chironomus riparius (non-biting midge)) 0.0552 mg/l
	Exposure time: 24 h
	The value mentioned relates to the active ingredient imidacloprid.
	EC50 (Hyaella azteca (Scud)) 0.055 mg/l
	Exposure time: 48 h
Toxicity to aquatic plants	The value mentioned relates to the active ingredient imidacloprid.
	EC50 (Daphnia magna (Water flea)) 85 mg/l
	Exposure time: 48 h
	The value mentioned relates to the active ingredient imidacloprid.
	EC10 (Caenis horaria (Mayfly)): 0.000024 mg/l
Toxicity to aquatic plants	Exposure time: 28 d
	The value mentioned relates to the active ingredient imidacloprid.
Toxicity to aquatic plants	IC50 (Desmodesmus subspicatus (green algae)) > 1,000 mg/l
	Growth rate; Exposure time: 72 h

12.2 Persistence and degradability

Biodegradability Imidacloprid:
Not rapidly biodegradable

Koc Imidacloprid: Koc: 225

12.3 Bioaccumulative potential

Bioaccumulation Imidacloprid:
Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Imidacloprid: Moderately mobile in soils

12.5 Other adverse effects

Additional ecological information No other effects to be mentioned.

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SECTION 13. DISPOSAL CONSIDERATIONS

Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers or product. Do not reuse container for any other purpose.

SECTION 14. TRANSPORT INFORMATION

ADG

UN number	3082
Transport hazard class(es)	9
Subsidiary Risk	None
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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Hazchem Code (IMIDACLOPRID SOLUTION)
•3Z

AU01: Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;

- a) packagings that do not incorporate a receptacle exceeding 500 kg(L); or
- b) IBCs

IMDG

UN number	3082
Transport hazard class(es)	9
Subsidiary Risk	None
Packaging group	III
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID SOLUTION)

IATA

UN number	3082
Transport hazard class(es)	9
Subsidiary Risk	None
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID SOLUTION)

SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994
Australian Pesticides and Veterinary Medicines Authority approval number: 50548

SUSMP classification (Poison Schedule)

Schedule 5 (Standard for the Uniform Scheduling of Medicines and Poisons)

SECTION 16. OTHER INFORMATION

Trademark information Confidor® is a Registered Trademark of the Bayer Group.

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
AU OEL	Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)
CAS-Nr.	Chemical Abstracts Service number
CEILING	Ceiling Limit Value

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Conc.	Concentration
EC-No.	European community number
ECx	Effective concentration to x %
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
OES BCS	OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"
PEAK	PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SK-SEN	Skin sensitiser
SKIN_DES	SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure.
STEL	STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.
TWA	TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

Reason for Revision: Section 8: Exposure Controls / Personal Protection.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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COUNTERFLU DISINFECTANT

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The Chemistry of Cleaning™

ABN 80 004 726 890 | MADE IN AUSTRALIA

VIC 03 9480 3000
NSW 02 9743 6020
SA 08 8293 2020
QLD 07 3274 3438
WA 08 9249 4566

Safety Data Sheet

Issued: September 2022

Section 1 - Identification of the Material and Supplier

Chemical nature: Water solution of quaternary ammonium compounds and other ingredients.
Trade Name: COUNTERFLU DISINFECTANT
Product Code: COUF1, COUF5, COUF20
Product Use: Hospital Grade Disinfectant for hard surface cleaning and disinfecting.
Creation Date: September, 2022
This version issued: This SDS shall remain valid for 5 years unless a new SDS is issued in the meantime. Please contact Agar Cleaning Systems P/L to ensure you have the latest version of this product's SDS.
Poisons Information Centre: Phone 13 1126 from anywhere in Australia

SUPPLIER DETAILS

Company: Agar Cleaning Systems Pty. Ltd.
Address: 12-14 Cope Street, Preston, Vic. 3072 AUSTRALIA
Telephone: 03 9480 3000 Facsimile: 03 9480 5100
Web: www.agar.com.au Agar SDS are available from this website.
Email: sales@agar.com.au

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as hazardous according to the criteria of SWA.

Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

SUSMP Classification: S5.

ADG Classification: Class 8: Corrosive Substances.

UN Number: 1760 CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compound).



GHS Signal word: DANGER

Skin Corrosion/Irritation - Category 1

Serious eye damage - Category 1

HAZARD STATEMENT:

H314: Causes severe skin burns and eye damage.

PREVENTION

P102: Keep out of reach of children.

P260: Do not breathe mists.

P264: Wash contacted areas thoroughly after handling.

P280: Wear protective gloves, protective clothing and eye or face protection.

RESPONSE

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P363: Wash contaminated clothing before reuse.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTRE phone Australia 131 126 or doctor/physician.

STORAGE

P405: Store locked up.

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DISPOSAL

P501: If they can not be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS).

Diluted Product

This product becomes non-hazardous when diluted to 1 in 15 (6.7%) or more with water.

Emergency Overview

Physical Description & Colour: Clear, green liquid.

Odour: Citrus fragrance.

Major Health Hazards: Severe skin burns and eye damage.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %	TWA (mg/m ³)	STEL (mg/m ³)
Didecyl dimethyl ammonium chloride	7173-51-5	< 10	not set	not set
Dodecyl dimethyl benzyl ammonium chloride	139-07-1	< 10	not set	not set
Nonionic surfactants	secret	< 10	not set	not set
Other non hazardous ingredients	various	< 10	not set	not set
Water	7732-18-5	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call the Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Undiluted Product:

Inhalation: No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact: Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and give some water to drink. If symptoms develop, or in doubt, contact a Poisons Information Centre, or a doctor.

Diluted Product (1 in 10):

Inhalation: First aid is not generally required.

Skin Contact: Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed, while holding the eyelid(s) open. Take special care if exposed person is wearing contact lenses. If irritation occurs, obtain medical advice.

Ingestion: First aid is not generally required. Seek medical attention if you feel unwell.

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Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness.

Fire decomposition products from this product are likely to be irritating if inhaled.

Extinguishing Media: Not combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Autoignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses.

Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. Wear full protective chemically resistant clothing including eye/face protection, gauntlets and self-contained breathing apparatus. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC and Viton. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the clean-up area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. If you keep more than 10000kg or L of Dangerous Goods of Packaging Group III, you may be required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits

TWA (mg/m³)

STEL (mg/m³)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

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Undiluted Product:

Ventilation: No special ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean and that vapours and mists are minimised.

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and preferably, apron. Make sure that all skin areas are covered.

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Eyebaths or eyewash stations and safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

Diluted Product (1 in 10):

Ventilation: No special ventilation requirements are necessary.

Eye Protection: Eye protection such as protective goggles or glasses is recommended when this product is being used.

Skin Protection: The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves when skin contact is likely.

Respirator: Not required under normal conditions.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Clear, green liquid.
Odour:	Citrus fragrance.
Boiling Point:	Approximately 100°C at 100kPa.
Freezing/Melting Point:	Below 0°C.
Volatiles:	< 3% VOC
Vapour Pressure:	No data.
Vapour Density:	No data.
Specific Gravity:	1.0
Water Solubility:	Completely soluble in water.
pH:	7 – 8 (as supplied)
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water Distribution:	No data.
Autoignition temp:	Not applicable - does not burn.

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Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Keep containers tightly closed.

Incompatibilities: Oxidising agents, soaps and anionic detergents.

Fire Decomposition: Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form hydrogen chloride gas, other compounds of chlorine. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Information on toxicological effects:

Acute toxicity

No known significant effects or hazards.

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Skin corrosion/irritation	Corrosion.
Serious eye damage/irritation	Serious eye damage.
Respiratory or skin sensitisation	No known significant effects or hazards.
Germ cell mutagenicity	No known significant effects or hazards.
Carcinogenicity	No known significant effects or hazards.
Reproductive toxicity	No known significant effects or hazards.
Specific target organ toxicity (STOT)- single exposure	No known significant effects or hazards.
Specific target organ toxicity (STOT)- repeated exposure	No known significant effects or hazards.
Aspiration hazard	No known significant effects or hazards.

Classification of Hazardous Ingredients

Ingredient:

Didecyldimethylammonium chloride
Dodecyl dimethylbenzylammonium chloride
Nonionic detergent

Health effects:

Skin corrosion and serious eye damage. Harmful if swallowed.
Skin corrosion and serious eye damage. Harmful if swallowed and in contact with skin.
Skin irritation and serious eye damage. Harmful if swallowed.

Potential Health Effects

Inhalation:

Short Term Exposure: Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short Term Exposure: This product is corrosive to the skin. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but if treated promptly, all should disappear once exposure has ceased.

Long Term Exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short Term Exposure: This product is damaging to the eyes. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term Exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 12 - Ecological Information

The undiluted product is toxic to aquatic life.

Section 13 - Disposal Considerations

Disposal: Containers should be emptied as completely as practical before disposal. If possible, recycle product and containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site.

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COUNTERFLU DISINFECTANT

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Section 14 - Transport Information

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

UN Number: 1760, CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compound).

Hazchem Code: 2X

Special Provisions: 223, 274

Limited quantities: ADG 7 specifies a Limited Quantity value of 5 L for this class of product.

Dangerous Goods Class: Class 8: Corrosive Substances.

Packaging Group: III

Packaging Method: P001, IBC03, LP01

Class 8 Corrosive Substances shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), 6 (Toxic Substances where the Toxic Substances are cyanides and the Corrosives are acids), 7 (Radioactive Substances), Foodstuffs and foodstuff empties. They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.1 (Flammable Gases), 2.2 (Non-Flammable, Non-Toxic Gases), 2.3 (Poisonous Gases), 3 (Flammable liquids), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 6 (Toxic Substances except where the Toxic Substances are cyanides and the Corrosives are acids) and 9 (Miscellaneous Dangerous Goods).

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with AICS regulations.

The following ingredient is mentioned in the SUSMP: Quaternary ammonium compounds.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO PROVIDE ADDITIONAL INFORMATION. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (July 2020) and is Copyright ©.

Abbreviations and Definitions of terms used:

<	less than
>	greater than
ADG CODE	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
COD	Chemical Oxygen Demand
deg C	Degrees Celsius
g	gram
g/L	grams per litre
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSIS	Hazardous Substance Information System
IARC	International Agency for Research on Cancer
kg	kilogram
L	Litre
LC50	The concentration of a material (inhaled) that will be lethal to 50% of the test animals.
LD50	The dose (swallowed all at once) which is lethal to 50% of a group of test animals.
m3	Cubic metre

mg	milligram
mg/m3	milligrams per cubic metre
miscible	A liquid that mixes homogeneously with another liquid
N/A	Not applicable
N/K	Not Known
NIOSH	National Institute for Occupational Safety and Health
non-haz	Non- hazardous
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
PEL	Permissible Exposure Limit
ppb	Parts per billion
ppm	Parts per million
R-Phrase	Risk Phrase
STEL	Short term exposure limit
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
SWA	Safe Work Australia, formerly ASCC and NOHSC
TLV	Threshold Limit Value
TWA	Time Weighted average
UN Number	United Nations (Number)
wt	weight

The information in this Data Sheet is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. As far as lawfully possible, Agar Cleaning Systems accepts no liability for any loss, injury or damage (including consequential loss) suffered or incurred by any person as a consequence of reliance on the information and advice contained herein.

End of SDS.

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Chemtech CT18 Superwash

ITW Polymers & Fluids

Chemwatch: 6116-77

Version No: 7.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 1

Issue Date: 20/08/2021

Print Date: 04/04/2023

S.GHS.AUS.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	Chemtech CT18 Superwash
Chemical Name	Not Applicable
Synonyms	MCT18 Boatwash; Product Code: CT18
Chemical formula	Not Applicable
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Vehicle and general purpose cleansing gel.
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Details of the manufacturer or supplier of the safety data sheet

Registered company name	ITW Polymers & Fluids	ITW Polymers & Fluids NZ
Address	100 Hassall New South Wales 2164 Australia	Unit 2/38 Trugood Drive 2013 New Zealand
Telephone	+61 2 9757 8800	+64 9272 1940
Fax	Not Available	Not Available
Website	Not Available	Not Available
Email	orders@itwpf.com.au	info@aamtech.co.nz

Emergency telephone number

Association / Organisation	Chemwatch	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	1800 951 288	+61 1800 951 288
Other emergency telephone numbers	+61 2 9186 1132	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
Classification [1]	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2B
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)	
Signal word	Warning

Hazard statement(s)

H315	Causes skin irritation.
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H320	Causes eye irritation.
------	------------------------

Precautionary statement(s) General

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary statement(s) Prevention

P280	Wear protective gloves and protective clothing.
P264	Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	If skin irritation occurs: Get medical advice/attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

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SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available	10-30	anionic surfactants
Not Available	0-9.9	non-ionic surfactants
Not Available	0-9.9	inorganic sequestering agents
Not Available	NotSpec.	colour
7732-18-5	>50	<u>water</u>

Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; * EU IOELVs available
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SECTION 4 First aid measures

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: - Wash out immediately with fresh running water. - Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. - Seek medical attention without delay; if pain persists or recurs seek medical attention. - Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: - Immediately remove all contaminated clothing, including footwear. - Flush skin and hair with running water (and soap if available). - Seek medical attention in event of irritation.
Inhalation	- If fumes, aerosols or combustion products are inhaled remove from contaminated area. - Other measures are usually unnecessary.
Ingestion	- If swallowed do NOT induce vomiting. - If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. - Observe the patient carefully. - Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. - Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. - Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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Advice for firefighters

Fire Fighting	▸ Alert Fire Brigade and tell them location and nature of hazard. ▸ Wear breathing apparatus plus protective gloves in the event of a fire. ▸ Prevent, by any means available, spillage from entering drains or water courses. ▸ Use fire fighting procedures suitable for surrounding area.
Fire/Explosion Hazard	▸ Non combustible. ▸ Not considered to be a significant fire risk. ▸ Expansion or decomposition on heating may lead to violent rupture of containers. ▸ Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).
HAZCHEM	Not Applicable

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

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Methods and material for containment and cleaning up

Minor Spills	Slippery when spilt. ▸ Clean up all spills immediately. ▸ Avoid breathing vapours and contact with skin and eyes. ▸ Control personal contact with the substance, by using protective equipment. ▸ Contain and absorb spill with sand, earth, inert material or vermiculite.
Major Spills	Slippery when spilt. Minor hazard. ▸ Clear area of personnel. ▸ Alert Fire Brigade and tell them location and nature of hazard. ▸ Control personal contact with the substance, by using protective equipment as required.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	▸ Limit all unnecessary personal contact. ▸ Wear protective clothing when risk of exposure occurs. ▸ Use in a well-ventilated area. ▸ When handling DO NOT eat, drink or smoke. ▸ DO NOT allow clothing wet with material to stay in contact with skin
Other information	▸ Store in original containers. ▸ Keep containers securely sealed. ▸ Store in a cool, dry, well-ventilated area. ▸ Store away from incompatible materials and foodstuff containers.

Conditions for safe storage, including any incompatibilities

Suitable container	▸ Polyethylene or polypropylene container. ▸ Packing as recommended by manufacturer. ▸ Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
Chemtech CT18 Superwash	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
water	Not Available	Not Available

Exposure controls

Appropriate engineering controls	General exhaust is adequate under normal operating conditions.
Individual protection measures, such as personal protective equipment	
Eye and face protection	▸ Safety glasses with side shields; or as required, ▸ Chemical goggles. ▸ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.
Skin protection	See Hand protection below
Hands/feet protection	▸ Wear chemical protective gloves, e.g. PVC. ▸ Wear safety footwear or safety gumboots, e.g. Rubber
Body protection	See Other protection below
Other protection	▸ Overalls. ▸ Eyewash unit.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Opaque green viscous liquid; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.075 approx.
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	7.5-8.5	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	107	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Same as water	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2.3 @ 20 C	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
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Chemical stability	▸ Unstable in the presence of incompatible materials. ▸ Product is considered stable. ▸ Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons.
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

Chemtech CT18 Superwash	TOXICITY	IRRITATION
	Not Available	Not Available
water	TOXICITY	IRRITATION
	Oral (Rat) LD50: >90000 mg/kg ^[2]	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances	

Chemtech CT18 Superwash	Not available.
WATER	No significant acute toxicological data identified in literature search.

Acute Toxicity	✗	Carcinogenicity	✗
Skin Irritation/Corrosion	✓	Reproductivity	✗
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✗
Respiratory or Skin sensitisation	✗	STOT - Repeated Exposure	✗
Mutagenicity	✗	Aspiration Hazard	✗

Legend: ✗ – Data either not available or does not fill the criteria for classification
✓ – Data available to make classification

SECTION 12 Ecological information

Toxicity

Chemtech CT18 Superwash	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
water	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

DO NOT discharge into sewer or waterways.

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Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal	▶ Recycle wherever possible or consult manufacturer for recycling options. ▶ Consult State Land Waste Management Authority for disposal. ▶ Bury residue in an authorised landfill. ▶ Recycle containers if possible, or dispose of in an authorised landfill.
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SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
water	Not Available

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
water	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

water is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (water)
China - IECSC	Yes

National Inventory	Status
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	20/08/2021
Initial Date	20/03/2010

SDS Version Summary

Version	Date of Update	Sections Updated
6.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
7.1	20/08/2021	Classification change due to full database hazard calculation/update.

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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TEL (+61 3) 9572 4700.

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Chemtech CT20 Wash 'N' Wax

ITW Polymers & Fluids

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Chemwatch: 6028-71

Version No: 6.1.16.10

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 1

Issue Date: 01/11/2019

Print Date: 01/09/2021

S.GHS.AUS.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	Chemtech CT20 Wash 'N' Wax
Chemical Name	Not Applicable
Synonyms	Product Code: CT20
Chemical formula	Not Applicable
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Vehicle cleansing and wax gel.
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Details of the supplier of the safety data sheet

Registered company name	ITW Polymers & Fluids
Address	1-9 Nina Link, Dandenong South VIC 3175 Australia
Telephone	02 9757 8800
Fax	Not Available
Website	www.itwaamtech.com.au
Email	Not Available

Emergency telephone number

Association / Organisation	Chemwatch	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	1800 039 008	+61 2 9186 1132
Other emergency telephone numbers	Not Available	+61 1800 951 288

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
Classification ^[1]	Serious Eye Damage/Eye Irritation Category 2B
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Warning

Hazard statement(s)

H320	Causes eye irritation.
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Precautionary statement(s) General

P101	If medical advice is needed, have product container or label at hand.
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P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary statement(s) Prevention

P264	Wash all exposed external body areas thoroughly after handling.
------	---

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

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SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available	10-30	surfactants
Not Available	1-10	ingredients non-hazardous
7732-18-5	>60	<u>water</u>

Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; * EU IOELVs available

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: - Wash out immediately with fresh running water. - Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. - Seek medical attention without delay; if pain persists or recurs seek medical attention. - Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	- Concentrate and diluted solution is readily removed with water. - Abraded or broken skin should be washed carefully and thoroughly. - Seek medical attention in event of irritation.
Inhalation	- If fumes or combustion products are inhaled remove from contaminated area. - Lay patient down. Keep warm and rested. - Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. - Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. - Transport to hospital, or doctor.
Ingestion	- If swallowed do NOT induce vomiting. - If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. - Observe the patient carefully. - Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. - Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. - Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known
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Advice for firefighters

Fire Fighting	▸ Alert Fire Brigade and tell them location and nature of hazard. ▸ Wear breathing apparatus plus protective gloves in the event of a fire. ▸ Prevent, by any means available, spillage from entering drains or water courses. ▸ Use fire fighting procedures suitable for surrounding area.
Fire/Explosion Hazard	▸ Non combustible. ▸ Not considered to be a significant fire risk. ▸ Expansion or decomposition on heating may lead to violent rupture of containers. ▸ Decomposes on heating and may produce toxic fumes of carbon monoxide (CO). Other decomposition products include: carbon dioxide (CO₂)
HAZCHEM	Not Applicable

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	Clean up all spills immediately. Slippery when spilt. Wipe up. Place in clean drum then flush area with water.
Major Spills	Slippery when spilt. Minor hazard. ▸ Clear area of personnel. ▸ Alert Fire Brigade and tell them location and nature of hazard. ▸ Control personal contact with the substance, by using protective equipment as required.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	Wash hands with water after handling. Avoid contact with eyes. Avoid physical damage to containers. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS.
Other information	▸ Store in original containers. ▸ Keep containers securely sealed. ▸ Store in a cool, dry, well ventilated area. ▸ DO NOT allow to freeze.

Conditions for safe storage, including any incompatibilities

Suitable container	Plastic container ▸ Check that containers are clearly labelled ▸ Packaging as recommended by manufacturer.
Storage incompatibility	None known

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

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Not Available

Emergency Limits			
Ingredient	TEEL-1	TEEL-2	TEEL-3
Chemtech CT20 Wash 'N' Wax	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
water	Not Available	Not Available

Exposure controls

Appropriate engineering controls	None under normal operating conditions. Provide adequate ventilation in warehouse or closed storage areas.
Personal protection	
Eye and face protection	No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE: ▸ Safety glasses with side shields. ▸ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.
Skin protection	See Hand protection below
Hands/feet protection	No special equipment needed when handling small quantities. OTHERWISE: Wear chemical protective gloves, e.g. PVC.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. OTHERWISE: ▸ Overalls. ▸ Barrier cream. ▸ Eyewash unit.

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SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Yellow opaque viscous liquid; mixes with water.		
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Physical state	Liquid	Relative density (Water = 1)	1.068
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	7.5-8.5	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100 (approx.)	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Same as water.	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2.3 @ 20 C	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.

Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	Not normally a hazard due to non-volatile nature of product
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	The liquid may produce skin discomfort following prolonged contact. Defatting and/or drying of the skin may lead to dermatitis
Eye	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

Chemtech CT20 Wash 'N' Wax	TOXICITY	IRRITATION
	Not Available	Not Available
water	TOXICITY	IRRITATION
	Oral(Rat) LD50; >90000 mg/kg ^[2]	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances	

Chemtech CT20 Wash 'N' Wax	Not available.
WATER	No significant acute toxicological data identified in literature search.

Acute Toxicity	✗	Carcinogenicity	✗
Skin Irritation/Corrosion	✗	Reproductivity	✗
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✗
Respiratory or Skin sensitisation	✗	STOT - Repeated Exposure	✗
Mutagenicity	✗	Aspiration Hazard	✗

Legend: ✗ – Data either not available or does not fill the criteria for classification
✓ – Data available to make classification

SECTION 12 Ecological information

Toxicity

Chemtech CT20 Wash 'N' Wax	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
water	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

Contains readily biodegradable surfactants.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal	▶ Recycle wherever possible or consult manufacturer for recycling options. ▶ Consult State Land Waste Management Authority for disposal. ▶ Bury residue in an authorised landfill. ▶ Recycle containers if possible, or dispose of in an authorised landfill.
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SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
water	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
water	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

water is found on the following regulatory lists
Australian Inventory of Industrial Chemicals (AIIC)

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National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (water)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes

National Inventory	Status
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	01/11/2019
Initial Date	28/12/2004

SDS Version Summary

Version	Date of Update	Sections Updated
4.1.1.1	15/04/2010	Acute Health (eye), Acute Health (skin), Acute Health (swallowed), Chronic Health, Classification, Environmental, Fire Fighter (extinguishing media), Fire Fighter (fire incompatibility), Ingredients, Personal Protection (hands/feet), Physical Properties, Storage (storage incompatibility), Supplier Information, Synonyms
6.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
6.1.2.1	26/04/2021	Regulation Change
6.1.3.1	03/05/2021	Regulation Change
6.1.4.1	06/05/2021	Regulation Change
6.1.5.1	10/05/2021	Regulation Change
6.1.5.2	30/05/2021	Template Change
6.1.5.3	04/06/2021	Template Change
6.1.5.4	05/06/2021	Template Change
6.1.6.4	07/06/2021	Regulation Change
6.1.6.5	09/06/2021	Template Change
6.1.6.6	11/06/2021	Template Change
6.1.6.7	15/06/2021	Template Change
6.1.7.7	17/06/2021	Regulation Change
6.1.8.7	21/06/2021	Regulation Change
6.1.8.8	05/07/2021	Template Change
6.1.9.8	14/07/2021	Regulation Change
6.1.10.8	19/07/2021	Regulation Change
6.1.10.9	01/08/2021	Template Change
6.1.11.9	02/08/2021	Regulation Change
6.1.12.9	05/08/2021	Regulation Change
6.1.13.9	09/08/2021	Regulation Change
6.1.14.9	23/08/2021	Regulation Change
6.1.15.9	26/08/2021	Regulation Change
6.1.15.10	29/08/2021	Template Change
6.1.16.10	30/08/2021	Regulation Change

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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Section 1 - Identification of Chemical Product and Company

Chemical Nature: Liquid fertiliser with added iron and manganese
Trade Name: FoliMAX NFE (15-0-0) +Fe & Mn
Product Use: Fertiliser with Mn & Fe
Supplier: Amgrow Pty Ltd
 Unit B2a, 3-29 Birnie Avenue
 Lidcombe NSW 2141
 Phone: (02) 9395 1200 (Office hours), Fax: (02) 9395 1241
 www.amgrow.com.au
Issue Date: June 2021

Section 2 - Hazards Identification

Statement of Hazardous Nature

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SWA

NOT A DANGEROUS GOOD ACCORDING TO THE ADG CODE, IATA OR IMDG/IMSBC CRITERIA

Risk Phrases: Not Hazardous - No criteria found.

Safety Phrases: Not Hazardous - No criteria found.

SUSMP Classification: Not scheduled

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

UN Number: None allocated

GHS Signal word: NONE. Not hazardous.

PREVENTION

- P102: Keep out of reach of children.
- P262: Do not get in eyes, on skin, or on clothing.
- P281: Use personal protective equipment as required.

RESPONSE

- P353: Rinse skin or shower with water.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

- P402+P404: Store in a dry place. Store in a closed container.

DISPOSAL

- P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

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Emergency Overview

Physical Description & colour: Translucent pale green liquid

Odour: Minimal odour

Major Health Hazards: No significant risk factors have been found for this product.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc %
Urea (Coated)	57-13-6	100
Ferrous Sulphate	7782-63-0	
Iron Chelate	15708-41-5	
Manganese Sulphate	7785-87-7	
Citric Acid	77-92-9	
Water	7732-18-5	

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

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Section 4 - First Aid Measures

General Information: You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

Inhalation: If mists have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists for more than about 30 minutes, seek medical advice.

Skin Contact: Wash affected areas with water until chemical is removed. Remove all contaminated clothing and laundry before re-use. If in doubt obtain medical advice.

Eye Contact: Immediately irrigate with copious amounts of lukewarm, gently flowing water for 15 – 20 minutes or until the product is removed or irritation has ceased, while holding the eyelid(s) open. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

Ingestion: Give a glass of water if affected person able to drink. Do not induce vomiting unless instructed to do so by medical advice.

Notes to Doctor: Treat symptomatically.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: Product will not cause or contribute to an explosion. If in a fire product decomposition may result in the generation of carbon monoxide, carbon dioxide, aldehydes (including formaldehyde), hydrogen cyanide and other organic compounds.

Extinguishing Media: Not Combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Auto ignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

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Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations.

Section 7 - Handling and Storage

Handling: Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Store in a cool, dry place away from children and animals or foodstuffs. Ensure containers are labelled, protected from physical damage and sealed when not in use. Store away from farm chemicals e.g. insecticides, fungicides and herbicides. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10.

Section 8 - Exposure Controls and Personal Protection

Exposure Limits TWA (mg/m³) STEL (mg/m³) ADI (mg/Kg/day) NOEL (mg/Kg/day)

Exposure limits have not been set for any ingredients in product. The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than

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15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, 31st March 2012

Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: Avoid high mist concentration and provide local exhaust ventilation where necessary.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin Protection: Wear gloves to prevent skin contact. Wear overall and long sleeves to prevent contact. Provision of eye wash facilities and safety shower recommended.

Wash hands before eating, drinking, smoking or going to toilet, launder protective clothing before re-use.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Translucent pale green liquid
Odour:	Minimal odour
Boiling Point:	No data
Vapour Pressure:	No data
Specific Gravity:	approx 1.0 @ 20°C
Water Solubility:	Completely soluble
pH:	No data – expected to be <7
Volatility:	No data.
Flash Point	No data

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Section 10 - Stability and Reactivity

Reactivity: This product is stable under normal temperatures and pressures, when stored and handled in accordance with this MSDS

Conditions to Avoid: Store away from heat or fire and ignition sources

Incompatibilities: No particular incompatibilities

Fire Decomposition: May evolve toxic gases when heated to decomposition

Polymerisation: Does not occur.

Section 11 - Toxicological Information

Potential Health Effects

Inhalation: No adverse effects expected

Skin Contact: Product may cause irritation of the skin

Eye Contact: May irritate or damage eyes

Ingestion: Ingestion of large amounts may cause gastrointestinal disorder, nausea, diarrhoea, vomiting,

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA

NTP: No significant ingredient is classified as carcinogenic by NTP

IARC: No significant ingredient is classified as carcinogenic by IARC

Toxicity Data: No LD50 data available for this product.

Section 12 - Ecological Information

Environment: Avoid contamination of waterways.

Section 13 - Disposal Considerations

Disposal: There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. The Hierarchy of Controls seems to be common - the user should investigate: Reduce, Reuse, and Recycle and only if all else fails should disposal be considered. Note that properties of a product may change in use, so that the following suggestions may not always be appropriate. The following may help you in properly addressing this matter for this product. Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good for transport by road or rail

IMDG/IATA: This product is not classified as a dangerous good for transport by sea or air

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

Section 16 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
ASCC	Office of the Australian Safety and Compensation Council
CAS number	Chemical Abstracts Service Registry Number
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Marine Transport Dangerous Goods
NOHSC	National Occupational Health & Safety Commission
NTP	National Toxicology Program (USA)
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
SWA	Safe Work Australia (formerly ASCC and NOHSC)
UN Number	United Nations Number

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

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SAFETY DATA SHEET

Safety Data Sheet

according to GHS version 7

Printing date 08.09.2022

Version number 1

Revision: 06.09.2022

1 Identification

- Product identifier
- Trade name: Fulvic acid
- Article number: DAUR0008
- CAS Number: 479-66-3/2
- EC number:
610-395-7
- Relevant identified uses of the substance or mixture and uses advised against *For use in the agricultural sector.*
- Technical function *Fertilizers (soil amendments)*
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Company: *Omnia Specialities Australia Pty Ltd*
Address: *Tramway Road*
MORWELL VIC 3840
Telephone Number: *+61-3 5133 9118*
Facsimile Number: *+61-3 5133 9114*
- Further information obtainable from: *info@omnia.net.au*
- Emergency telephone number:
ISS First Response
+61 3 8796 3688
AEDT 8 am to 4 pm (AEDT is UTC + 11)

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2 Hazard(s) Identification

- Classification of the substance or mixture



Acute Tox. 4 *H302 Harmful if swallowed.*
Acute Tox. 4 *H312 Harmful in contact with skin.*
Acute Tox. 4 *H332 Harmful if inhaled.*
Skin Irrit. 2 *H315 Causes skin irritation.*
Eye Irritation 2A *H319 Causes serious eye irritation.*

- Label elements
- GHS label elements
The substance is classified and labelled according to the Globally Harmonised System (GHS).
- Hazard pictograms



GHS07

- Signal word *Warning*

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Trade name: Fulvic acid

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- **Hazard statements**
 - H302 Harmful if swallowed.**
 - H312 Harmful in contact with skin.**
 - H332 Harmful if inhaled.**
 - H315 Causes skin irritation.**
 - H319 Causes serious eye irritation.**
- **Precautionary statements**
 - Avoid breathing dust/fume/gas/mist/vapours/spray.**
 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.**
 - IF SWALLOWED: Call a doctor if you feel unwell.**
 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.**
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**
 - Dispose of contents/container in accordance with local/regional/national/international regulations.**
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT: Not applicable.**
- **vPvB: Not applicable.**

3 Composition and Information on Ingredients

- **Chemical characterisation: Substances**
- **CAS No. Description**
 - Fulvic acid, potassium salt**
- **Identification number(s)**
- **EC number: 610-395-7**

4 First Aid Measures

- **Description of first aid measures**
- **After inhalation: Supply fresh air; consult doctor in case of complaints.**
- **After eye contact:**
 - Rinse opened eye for several minutes under running water.**
 - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**
- **After swallowing: If symptoms persist consult doctor.**
- **Information for doctor: Treat supportive and symptomatically**
- **Most important symptoms and effects, both acute and delayed**
 - May cause mild irritation to skin, eyes and respiratory system.**
- **Indication of any immediate medical attention and special treatment needed**
 - No further relevant information available.**

5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents: Water mist**
- **Special hazards arising from the substance or mixture Metal oxides and Carbon monoxide can be released**
- **Advice for firefighters Material not combustible**
- **Protective equipment: Wear protective equipment**

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Revision: 06.09.2022

Trade name: Fulvic acid

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6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures **Not required.**
- Environmental precautions:
Do not allow to enter sewers/ surface or ground water. Should not be released into the environment.
- Prevent spreading
- Methods and material for containment and cleaning up:
Uncontaminated spilled material may be reused
Sweep up the product and put in containers.
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

- Handling:
- Precautions for safe handling
No special precautions are necessary if used correctly. Avoid contact with skin, eyes and clothing.
- Information about fire - and explosion protection:
Keep away from open flames, electrical equipment (lights, cables, etc.), static electricity, electrical sparks, heat etc. No smoking.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:
Observe the rules usually applicable when handling chemicals.
- Information about storage in one common storage facility: **Do not store together with oxidising material**
- Further information about storage conditions: **Keep container tightly sealed in a dry well-ventilated place.**
- Specific end use(s) **Agricultural**

8 Exposure controls and personal protection

- Additional information about design of technical facilities:
Ensure eyewash stations and safety showers are close to the workstation location.
- Control parameters
- Ingredients with limit values that require monitoring at the workplace: **Not required.**
- Additional information: **The lists valid during the making were used as basis.**
- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Trade name: Fulvic acid

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection: Protective work clothing**

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Solid in various forms

Colour: Brown

- **Odour:** Earthy

- **Odour threshold:** Not determined.

- **pH-value:** 4-6.5

- **Change in condition**

Melting point/freezing point: 247 °C

Initial boiling point and boiling range: 661 °C

- **Flash point:** 255.1 °C

- **Flammability (solid, gas):** Product is not flammable.

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Not determined.

- **Explosive properties:** Not determined.
Product does not present an explosion hazard.

- **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

- **Vapour pressure:** Not applicable.

- **Density at 20 °C:** 1.79 g/cm³

- **Relative density** Not determined.

- **Vapour density** Not applicable.

- **Evaporation rate** Not applicable.

- **Solubility in / Miscibility with water:**

Soluble.

- **Partition coefficient: n-octanol/water:** 0.68359

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Version number 1

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Trade name: Fulvic acid

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- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.**
- Results of PBT and vPvB assessment
 - PBT: **Not applicable.**
 - vPvB: **Not applicable.**
 - Other adverse effects **No further relevant information available.**

13 Disposal considerations

- Waste treatment methods
- Recommendation
Disposal according to local/ official/ national regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Contain material, sweep up and transfer to containers. Re-use if material is not contaminated.
- Uncleaned packaging:
- Recommendation: **Disposal must be made according to official regulations.**
- Recommended cleansing agents: **Water, if necessary together with cleansing agents.**

14 Transport information

• UN-Number	Void
• ADG, ADN, IMDG, IATA	Void
• UN proper shipping name	Void
• ADG, ADN, IMDG, IATA	Void
• Transport hazard class(es)	Void
• ADG, ADN, IMDG, IATA	Void
• Class	Void
• Packing group	Void
• ADG, IMDG, IATA	Void
• Environmental hazards:	Not applicable.
• Special precautions for user	Not applicable.
• ERG No.	None n/a
• Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
• UN "Model Regulation":	Void

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.
- Australian Inventory of Industrial Chemicals Substance is not listed.
- Standard for the Uniform Scheduling of Medicines and Poisons Substance is not listed.
- Australia: Priority Existing Chemicals Substance is not listed.
- GHS label elements
The substance is classified and labelled according to the Globally Harmonised System (GHS).

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Trade name: Fulvic acid

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- Hazard pictograms



GHS07

- Signal word **Warning**

- Hazard statements

*H302 Harmful if swallowed.**H312 Harmful in contact with skin.**H332 Harmful if inhaled.**H315 Causes skin irritation.**H319 Causes serious eye irritation.*

- Precautionary statements

*Avoid breathing dust/fume/gas/mist/vapours/spray.**Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.**IF SWALLOWED: Call a doctor if you feel unwell.**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

- Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Contact:

- Abbreviations and acronyms:

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**EINECS: European Inventory of Existing Commercial Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 4: Acute toxicity – Category 4**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A*

- * Data compared to the previous version altered.

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Manganese
1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name	Manganese
Product Type	Liquid Fertiliser
Product Use	Liquid Fertiliser. Directions detailed on product label
Company Name	Oasis Turf
Address	14 Sonia Street, Carrum Downs, VIC, 3201
Emergency Tel.	0412 042 726
Telephone	(03) 9708 2911
Fax Number	(03) 9708 2922
Poisons Information Centre	13 11 26

2. HAZARDS IDENTIFICATION
2.1 Classification of the substance or mixture
CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS
GHS classification(s) Serious Eye Damage / Eye Irritation: Category 2A

2.2 Label elements
Signal word
WARNING
Pictogram(s)

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Hazard statement(s)

H319 Causes serious eye irritation.

Prevention statement(s)

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage statement(s)

None allocated.

Disposal statement(s)

None allocated.

2.3 Other hazards

No information provided.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation Liquid

	<u>NAME</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>
Ingredients	Manganese Sulphate	10034-96-5	12 - 20%
	Other ingredients (considered non-hazardous)	n/a	Balance to 100%

4. FIRST AID MEASURES

Inhalation	Remove victim from area of exposure to fresh air. If effects persist seek medical advice. Symptoms may include nausea, headache, pain and gastrointestinal irritation.
Ingestion	Do not induce vomiting. Rinse mouth with water. If swallowed, give large quantities of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention if effects persist.
Skin	In case of skin contact, immediately remove contaminated clothing and wash affected area with water and soap. Seek medical attention if symptoms occur
Eyes	In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if symptoms occur
Advise to Doctor	Treat symptomatically, no specific antidote

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use fire extinguishing media suitable to surrounding fire conditions. Spray water, foam or carbon dioxide
Hazardous Combustion Product	If involved in a fire, not combustible, but may support combustion of other materials. Some gases such as phosphorous oxides may be released.
Special Protective Equipment and Precautions for Fire Fighter	Wear SWA approved self-contained breathing apparatus and full protective clothing.
Unusual fire or explosion Hazards	Product does not present an explosion hazard
Explosion Hazards Hazchem Codes	Not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Wear SWA approved self-contained breathing apparatus and full protective clothing. For further details refer to section 8
Environmental Precautions	In the event of a major spill, prevent spillage from entering drains or water courses. Spills to soil or similar surface may necessitate removal of top soil. The affected area should be placed in appropriate container for disposal
Methods and Materials for Containment and Cleaning Up	Clean up all spills immediately. Stop leak if safe to do so and absorb spill onto sand, earth, vermiculite or some other inert absorbent material. Collect the spilled material and place into a suitable container for disposal.

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7. HANDLING AND STORAGE

Precautions for safe Handling	Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapors. Ensure adequate ventilation. Food, beverages and tobacco products should not be stored or Consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure
Conditions for Safe Storage	Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Keep away from incompatible materials, organics or ammonia. Do not store with seed, chemicals or foodstuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure standard for this product has been set however the following is recommended. TWA 10 mg/m ³
Engineering Controls	This product should be used in a well ventilated area. Avoid breathing in vapours. If natural Ventilation is not sufficient the use of a fan is recommended. Keep containers closed when not in use
Personal Protective Equipment (PPE)	
Respiratory Protection	In case of intensive or longer exposure use self-contained respiratory protective device. See Australian Standards AS/NZS 1715 and 1716 for more information
Eye/Face Protection	Safety glasses with top and side shields. See Australian Standards AS/NZS 1336 and 1337 for more information.
Skin Protection	Protective PVC gloves, protective overall, waterproof apron and safety boots. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
Requirements Concerning Special Training	Refer to your State or Territory legislation for required training guidelines

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	Clear Pink
Odour	Odourless
Melting Point	No Data
Boiling Point	>100°C
Solubility in Water	Yes
Specific Gravity	1.12 - 1.16
pH	2.3 - 2.7
Vapour Pressure (20°C)	As water
Flammability	Non combustible

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10. STABILITY AND REACTIVITY

Chemical Stability	Stable at ambient temperature and under normal conditions of use.
Incompatible Materials	Avoid contact with strong bases, strong acids, strong oxidising agents - may decompose.
Conditions to avoid	Excessive heat

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Low Toxicity
Inhalation	Breathing in mist or vapours may result in respiratory irritation. Side effects of inhalation of spray mists can include nausea, headaches, pain and gastrointestinal irritation
Ingestion	Ingestion is not a likely form of exposure. If however swallowing does occur, symptoms such as nausea, vomiting, pain and gastrointestinal irritation and diarrhoea may occur.
Skin	Irritation may result from prolonged and repeated exposure or contact with the concentrate.
Acute Toxicity - Oral	Calculated Rat Oral LD50 < 70,000mg/kg
Acute Toxicity - Dermal	Calculated Rabbit Dermal LD50 > 40,000mg/kg
Acute Toxicity - Inhalation	No LD50 data available

12. ECOLOGICAL INFORMATION

Do not let this product enter drains, water bodies and sewerage systems. This product may be toxic to aquatic life. Undergoes

13. DISPOSAL CONSIDERATIONS

Product Disposal	This product should be used for its intended purpose. Contact local authorities who hold collections of unwanted chemicals (ChemClear® 1800008182) if disposal of this product is required. On site disposal of the concentrated product is not acceptable.
Container Disposal	Do not reuse this container for any purpose. Instructions outlining the disposal of the product container are given on the label. These should be carefully followed. Additional assistance is available from drumMUSTER (http://www.drummuster.com.au). DrumMUSTER is the national program for the collection and recycling of crop production and on-farm animal health chemical containers. View their website to find contact details for your area. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

Transport Information	It is recommended not to transport agricultural chemicals with foods, food related products and animal feed.
Storage and Transport	This product is not classed as a dangerous good for transport by the Australian Dangerous Goods Code (ADG Code) for the transport of dangerous goods by road or rail.
IMDG UN Number	This product is not classed as a Dangerous Good for transport by the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea

15. REGULATORY INFORMATION

Classification	Not classified as hazardous according to criteria of GHS
Poison Schedule	None allocated
Hazard Category	None allocated
AICS (AUST)	All of the components in this product are listed on the Australian Inventory of Chemical Substances

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16. OTHER INFORMATION**Last revision of MSDS**

Rev1.0 11/07/2017

GHS: Globally Harmonised System of Classification and Labelling of Chemicals**ADG Code :** Australian Dangerous Goods Code for the Transport of dangerous Goods by Road and Rail**IMDG Code :** International Maritime Dangerous Goods Code for transport by sea.**SWA:** Safe work Australia. Formerly ASCC and NOHSC**AICS :** Australian Inventory of Chemical Substances**Emergency Contacts**

Agrobest Australia Pty Ltd: (07) 55 960 622

Agrobest Australia Pty Ltd - Emergency : 0419 758 458

Police and Fire Brigade : 000

Poison information Centre : 13 11 26

This MSDS Contains only safety-related information. For other data see product information

The information outlined in this Material Safety Data Sheet is provided in good faith and is understood to be accurate at the date of issuance. It is expected however, that individuals receiving the information will use their personal judgement in determining its appropriateness for a particular situation or purpose. Agrobest Australia Pty Ltd makes no representation as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, for any loss or damage arising from or connection with the supply or use of the information in this material Safety data Sheet.

Please read all labels carefully before using the product.

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**Section 1 - Identification of The Material and Supplier**

ADAMA Australia Pty Ltd,
Level 1, Building B
207 Pacific Highway St Leonards, NSW 2065
ACN 050 328 973

Telephone (02) 9431 7800 (office hours)
Emergency 1800 024 973 (24 hours)
Fax (02) 9431 7700

Chemical nature: Methabenzthiazuron is a urea derived herbicide.
Trade Name: **Juggler® 700 Residual Herbicide**
APVMA Code: 52817
Product Use: Agricultural herbicide for use as described on the product label.
Creation Date: **March, 2003**
This version issued: **July, 2021** and is valid for 5 years from this date.
Poisons Information Centre: Phone 13 11 26 from anywhere in Australia

Section 2 - Hazards Identification**Statement of Hazardous Nature**

This product is classified as: Not classified as hazardous according to the criteria of SWA Australia.

Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01). However if transported by Air or Sea, this provision does not apply. Then the product is classed as Dangerous (Class 9 Environmentally Hazardous) by IATA and IMDG/IMSBC respectively. See details below and in Section 14 of this SDS.

SUSMP Classification: S5

ADG Classification: Class 9: Miscellaneous Dangerous Goods.

UN Number: 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**GHS Signal word: WARNING.**

Hazardous to aquatic environment Short term/Chronic Category 1

HAZARD STATEMENT:

H410: Very toxic to aquatic life with long lasting effects.

PREVENTION

P262: Do not get in eyes, on skin, or on clothing.

P273: Avoid release to the environment.

P281: Use personal protective equipment as required.

RESPONSE

P335: Brush off loose particles from skin.

P337: If eye irritation persists: seek medical attention.

P353: Rinse skin or shower with water.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P391: Collect spillage.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

STORAGE

P410: Protect from sunlight.

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

P501: If product can not be recycled, consider controlled incineration, or contact a specialist waste disposal company (see Section 13 of this SDS).

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Emergency Overview

Physical Description & colour: Powdered solid contained in water soluble bags.

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Odour: No odour.

Major Health Hazards: no significant risk factors have been found for this product.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %	TWA (mg/m ³)	STEL (mg/m ³)
Methabenzthiazuron	18691-97-9	70	not set	not set
Other non hazardous ingredients	secret	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact: Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed. If in doubt obtain medical advice.

Eye Contact: No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

Ingestion: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media: Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.

Fire Fighting: When fighting fires involving significant quantities of this product, wear a splash suit complete with self contained breathing apparatus.

Flash point: Not flammable.

Upper Flammability Limit: Not flammable.

Lower Flammability Limit: Not flammable.

Autoignition temperature: Not flammable.

Flammability Class: Not flammable.

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Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

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Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this class of poison. Make sure that containers of this product are kept tightly closed. Keep containers of this product in a well ventilated area. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits

TWA (mg/m³)

STEL (mg/m³)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

The ADI for Methabenzthiazuron is set at 0.004mg/kg/day. The corresponding NOEL is set at 7.5mg/kg/day. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, June 2014.

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

Eye Protection: Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.

Skin Protection: The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when handling this product.

Protective Material Types: There is no specific recommendation for any particular protective material type.

Respirator: If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Powdered solid contained in water soluble bags.
Odour:	No odour.
Boiling Point:	Not applicable.
Freezing/Melting Point:	Decomposes before melting.
Volatiles:	No specific data. Expected to be low at 100°C.
Vapour Pressure:	No data. Expected to be negligible at normal room temperatures.
Vapour Density:	No data.
Specific Gravity:	No data.
Water Solubility:	Completely soluble.
pH:	No data.
Volatility:	No data.
Coeff Oil/water distribution:	No data
Autoignition temp:	Not flammable.

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Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry. Keep containers and surrounding areas well ventilated. Protect this product from light.

Incompatibilities: water, acids, bases, strong oxidising agents.

Fire Decomposition: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly; symptoms and death can both occur quickly.

Polymerisation: This product is unlikely to undergo polymerisation processes.

Section 11 - Toxicological Information

Target Organs: There is no data to hand indicating any particular target organs.

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Methabenzthiazuron:

LD₅₀ Oral, Rat >5000mg/kg

LD₅₀ Oral, Guinea Pig = >2500mg/kg

LD₅₀ Oral, Rabbit = >1000mg/kg

LC₅₀ Inhalation, Rat = 5.12mg/L/4hr

LD₅₀ Oral, Mouse = >2500mg/kg

LD₅₀ Oral, Dog = >1000mg/kg

LD₅₀ Dermal, Rat = >5000mg/kg

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- Hazardous to the aquatic environment (acute) – category 1
- Hazardous to the aquatic environment (chronic) – category 1

Potential Health Effects

Inhalation

Short term exposure: Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

Long Term exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short term exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be mildly irritating, but is unlikely to cause anything more than mild discomfort which should disappear once contact ceases.

Long Term exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short term exposure: Available data shows that this product is not harmful. However product may be mildly irritating to eyes, but is unlikely to cause anything more than mild discomfort which should disappear once product is removed.

Long Term exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short term exposure: This product is unlikely to cause any irritation problems in the short or long term.

Long Term exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 12 - Ecological Information

This product is harmful to aquatic organisms. This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

Not toxic to bees.

Fish: LC₅₀ rainbow trout: 15.9mg/L

LC₅₀ golden orfe: 29mg/L

Daphnia: EC₅₀ 30.6mg/L

Section 13 - Disposal Considerations

Disposal: Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

Section 14 - Transport Information

Not subject to the ADG Code when transported by Road or Rail in Australia, in packages 500kg(L) or less; or IBCs, but classed as Dangerous by IATA and IMDG/IMSBC when carried by Air or Sea transport (see details below).

UN Number: 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazchem Code: 2Z

Special Provisions: 274, 331, 335, 375, AU01

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Limited quantities: ADG 7 specifies a Limited Quantity value of 5 kg for this class of product.

Dangerous Goods Class: Class 9: Miscellaneous Dangerous Goods.

Packing Group: III

Packing Instruction: P002, IBC08, LP02

Class 9 Miscellaneous Dangerous Goods shall not be loaded in the same vehicle or packed in the same freight container with Dangerous Goods of Class 1 (Explosives).

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this product are compliant with NICNAS regulations.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition
AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
SWA	Safe Work Australia, formerly ASCC and NOHSC
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

Contact Points:

Call ADAMA on (02) 9431 7800 and ask for the technical manager.

Fax: (02) 9431 7700

Police and Fire Brigade:

Dial 000

Emergency contact:

1800 024 973 (24 hours)

If ineffective:

**Dial Poisons Information Centre
(13 11 26 from anywhere in Australia)**

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)

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<http://www.kilford.com.au/> Phone (02)8321 8866

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SAFETY DATA SHEET

Issued by: ADAMA Australia Pty Ltd

Phone: (02) 9431 7800 (office hours)

Poisons Information Centre: 13 11 26 from anywhere in Australia, (0800 764 766 in New Zealand)

Richgro Mancozeb Plus Sulphur Fungicide



Revision: 2

Reissue Date:
04/03/2021

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SAFETY DATA SHEET

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

RICHGRO GARDEN PRODUCTS

203 Acourt Road
Jandakot, Western Australia 6164

EMERGENCY PHONE NUMBER: (08) 1800 455 132 Monday to Friday 9am to 5pm

POISONS INFORMATION CENTRE: Phone (e.g. Australia 13 11 26; New Zealand 0800 764 766).

TELEPHONE: (08) 6258 7100 (office hours)

FACSIMILE: (08) 9455 1297 Free Fax: 1800 455 132

EMAIL: customerservice@richgro.com.au

PRODUCT NAME

RECOMMENDED USE:

Richgro Mancozeb Plus Sulphur Fungicide

Fungicide for domestic use

SECTION 2 - HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA

CLASSIFIED AS DANGEROUS GOOD – CLASS 9 MISCELLANEOUS.

SCHEDULED S5 POISON.

PHYSICAL HAZARDS: Not Classified

HEALTH HAZARDS:

Skin Corrosion /Irritation Category 2

Skin Sensitisation Category 1

Reproductive Toxicity Category 2

ENVIRONMENTAL HAZARDS: Hazardous to aquatic environment Short term/Acute Category 2

Label elements

GHS Signal Word:

WARNING



HAZARD STATEMENT:

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H361: Suspected of damaging fertility or the unborn child.

H401: Toxic to aquatic life.

PREVENTION

P102: Keep out of reach of children

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dusts.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment

RESPONSE

P363: Wash contaminated clothing before reuse.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

STORAGE

P402+P404: Store in a closed container, in a dry place.

DISPOSAL

P501: Dispose of small quantities and empty containers by wrapping with paper and putting in household waste for landfill. For larger quantities that cannot be recycled, dispose of contents and container to approved landfill (see Section 13 of this SDS).

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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS Number	Concentration
Mancozeb	8018-01-7	235g/Kg
Sulfur as wettable sulfur	7704-34-9	549g/kg
Non-hazardous ingredients	secret	balance

SECTION 4 - FIRST AID MEASURES

GENERAL INFORMATION: If in doubt, get medical attention promptly. Show this Safety Data Sheet to medical personnel.

EYES: Hold eyelids open and rinse the eye continuously with a gentle stream of clean running water for at least fifteen minutes. Seek medical attention.

SKIN: Remove contaminated clothing and wash thoroughly with soap and water. Use water alone, if soap is unavailable. Apply a moisturising hand cream, if available. Seek medical attention if any soreness or inflammation of the skin persists or develops later. Launder affected clothing before re-use.

INGESTION: Rinse mouth out with water ensuring that mouth wash is not swallowed. Give about 250mL (2 glasses) of water to drink. DO NOT attempt to induce vomiting. Seek medical attention as a precautionary measure.

INHALATION: First aid is unlikely to be required as a result of exposure during normal use but if symptoms occur, remove to fresh air. Keep warm and at rest. Seek medical attention if symptoms persist.

Additional Information:

First Aid Facilities: Not required.

Advice to Doctor: Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Combustible. Finely dispersed particles form explosive mixtures in air.

SUITABLE EXTINGUISHING MEDIA: Foam, dry chemical powder (bicarbonate or ammonium phosphate based) or carbon dioxide are all suitable. Do not use high volume water jets, as this may spread the fire.

HAZARDS FROM COMBUSTION PRODUCTS: Gives off irritating or toxic fumes (or gases) in a fire.

PROTECTIVE EQUIPMENT: Fire fighters should wear self-contained breathing apparatus. Keep containers as cool as possible by spraying with water from a protected position.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Wear protective equipment as specified for handling (See Section 8).

SPILLS: Product is granular and is sold in small containers, so spills are unlikely to require special treatment. Sweep up and re-use.

SECTION 7 - HANDLING AND STORAGE

SAFE HANDLING PRECAUTIONS: Avoid eye and skin contact. Avoid generating dust.

SAFE STORAGE PRECAUTIONS: Keep out of reach of children. No special storage precautions required but product life will be maximised if it is stored out of direct sunlight in a cool well ventilated area.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE STANDARDS: None allocated

Exposure standards represent the airborne concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. The exposure standard can be of three forms; time-weighted average (TWA), peak, or short term exposure limit (STEL).

BIOLOGICAL LIMIT VALUES: None allocated

ENGINEERING CONTROLS: None required for domestic use of this product. If handling bulk product, work area should have good, mechanical ventilation. Local exhaust ventilation is unlikely to be required for foreseeable uses of this product-yellow powder.

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PERSONAL PROTECTION: Requirements depend on working conditions, method of application and quantity of product in use. No special equipment is required for handling small quantities but safety glasses or goggles must be worn if there is any potential for eye contact. Nitrile, neoprene, PVC or natural rubber gloves should be worn if there is any potential for skin contact.

Respiratory protection is unlikely to be required for foreseeable uses of this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

Physical Description & colour:	Brown-yellow powder
Odour:	Mild
Boiling Point:	No data available
Freezing Point:	Solid at normal ambient temperature
Volatiles:	Negligible
Vapour Pressure:	Negligible
Vapour Density:	Negligible
Specific Gravity:	No data available
Water Solubility:	No data available
pH:	No data available
Volatility:	Negligible
Evaporation Rate:	Negligible
Auto ignition temp:	No data available
Flash point:	No data available
Upper Flammability Limit:	No data available
Lower Flammability Limit:	No data available
Flammability Class:	Dust explosion possible if in powder or granular form, mixed with air

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use and storage

CONDITIONS TO AVOID: This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Containers should be kept dry. Protect this product from light.

INCOMPATIBLE MATERIALS: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Will evolve toxic fumes, including oxides of sulphur, nitrogen and carbon, if burned in a fire situation.

HAZARDOUS REACTIONS: None known.

POLYMERISATION: This product will not undergo polymerisation reactions.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE - SWALLOWED: Possible irritation of gastro-intestinal tract.

ACUTE – EYE: Irritating. Contact may cause redness.

ACUTE – SKIN: Slightly irritating in case of skin contact. Prolonged or repeated skin contact may result in skin sensitisation and dermatitis in sensitive individuals.

ACUTE – INHALED: Product is in powdered form but inhalation is not anticipated as a result of normal use.

TOXICITY:

Mancozeb: Mancozeb is rapidly absorbed into the body from the gastrointestinal tract, distributed to various target organs, and almost completely excreted in 96 hours. It is practically nontoxic orally with reported oral LD₅₀ of more than 5000 to more than 11,200 mg/kg in rats. Dermal it is also practically nontoxic, with reported dermal LD₅₀ values of more than 10,000 mg/kg in rats, and more than 5000 mg/kg in rabbits. It is a mild skin irritant and sensitizer, and a mild to moderate eye irritant in rabbits.

Workers with occupational exposure to mancozeb have developed sensitization rashes.

It is metabolized to ethylene thiourea (ETU), which is a carcinogen, based on thyroid and other cancers in rodents; ETU is also known to cause decreases of thyroxine and increases in thyroid-stimulating hormone in rodents.

Mancozeb: LD₅₀ Oral, Rat 8000mg/kg

LD₅₀ Dermal, Rat = 10,000mg/kg

LD₅₀ Dermal, Rabbit = >5000mg/kg

LC₅₀ Inhalation, Rat = >5.14mg/L/4hr

Sulfur: LD₅₀ Oral, Rat >8437mg/kg

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Richgro Mancozeb Plus Sulphur Fungicide



Revision: 2

Reissue Date:
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SECTION 12 - ECOLOGICAL INFORMATION

This product is acutely toxic to aquatic organisms. Acute toxicity estimate based on ingredients is <1mg/L Mancozeb

96hour LC₅₀ (fish): 0.46mg/L

48hour EC₅₀: (Daphnia magna) : 0.073mg/L

12hour EC₅₀ (algae): 0.047mg/L

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems

Effects on birds: Mancozeb is not harmful to birds, with reported -day dietary LC₅₀ values in bobwhite quail and mallard ducklings of greater than 10,000 ppm. The 10-day dietary LC₅₀ values of 6400 ppm and 3200 ppm are reported for mallard ducks and Japanese quail, respectively.

Effects on aquatic organisms: Mancozeb is moderately to highly toxic to fish and aquatic organisms.

Effects on other organisms: Mancozeb is not toxic to honeybees.

Environmental Fate:

Breakdown in soil and groundwater: Mancozeb is of low soil persistence, with a reported field half-life of 1 to 7 days. Mancozeb rapidly and spontaneously degrades to ETU in the presence of water and oxygen. ETU may persist for longer, on the order of 5 to 10 weeks. Because Mancozeb is practically insoluble in water, it is unlikely to infiltrate groundwater.

Breakdown in water: Mancozeb degrades in water with a half-life of 1 to 2 days in slightly acidic to slightly alkaline conditions.

Breakdown in vegetation: When used as directed, Mancozeb is not poisonous to plants.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose of small quantities and empty containers by wrapping with paper and putting in household waste for landfill. For larger quantities that cannot be recycled, dispose of contents and container to approved landfill. Do not allow to enter waterways.

SECTION 14 - TRANSPORT INFORMATION

This product is a dangerous good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), the International Maritime Dangerous Goods Code (IMDG) nor the International Air Transport Association (IATA) criteria.

UN Number: 3077

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID N.O.S. (CONTAINS MANCOZEB)

DG Class: 9 (Miscellaneous)

HazChem code: 2Z

Packing group: III

Not to be loaded with explosives

SECTION 15 - REGULATORY INFORMATION

Product is a Schedule S5 Poison

All ingredients in this formulation are listed in the Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme (NICNAS).

SECTION 16 - OTHER INFORMATION

REFERENCES

1. National Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals, 2011
2. Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 1003(1995)] and subsequent amendments
3. Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), 7.7th Edition, 2020
4. Standard for the Uniform Scheduling of Medicines and Poisons No. 32, February 2021 and subsequent amendments

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Richgro Mancozeb Plus Sulphur Fungicide



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ABBREVIATIONS

BOD	Biological oxygen demand
CAS number	Chemical Abstracts Service Registry Number
EC ₅₀	Half maximal effective concentration
ETU	Ethylene thiourea
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
LDLo	Lowest documented lethal dose
LD ₅₀	Lethal Dose for 50% of test population (ingestion or skin contact)
LC ₅₀	Lethal Dose for 50% of test population (inhalation)
UN Number	United Nations Number

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Section 1 - Identification of The Material and Supplier

Chemical nature: Metolachlor is a chloroacetanilide derivative.
Trade Name: **Meteor Herbicide**
Product Use: Agricultural herbicide for use as described on the product label.
APVMA Code: 67974

Amgrow Pty Ltd
3/29 Birnie Ave
Lidcombe NSW 2141
Phone: 02 9395 1200 (office hours)
Fax: 02 4729 3037
www.amgrow.com.au

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Creation Date: March, 2015
This version issued: February, 2020 and is valid for 5 years from this date.

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Xi, Irritating. Hazardous according to the criteria of SWA.

Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria. However, this is a C1 Combustible Liquid so must be stored and handled as specified in AS 1940 "The storage and handling of flammable and combustible liquids."

Risk Phrases: R36. Irritating to eyes.

Safety Phrases: S2, S13, S25, S26, S28, S46, S61, S20/21, S36/37/39. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. After contact with skin, wash immediately with plenty of soap and water. If swallowed, contact a doctor or Poisons Information Centre immediately and show this container or label. Avoid release to the environment. Refer to special instructions/Safety Data Sheets. When using, do not eat, drink or smoke. Wear suitable protective clothing, gloves and eye/face protection.

SUSMP Classification: S5

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

UN Number: None allocated



GHS Signal word: WARNING.

HAZARD CATEGORY:

- Skin sensitisation – category 1
- Hazardous to the aquatic environment (acute) – category 1
- Hazardous to the aquatic environment (chronic) – category 1

HAZARD STATEMENT:

- H317: May cause an allergic skin reaction.
- H410: Very toxic to aquatic life with long lasting effects.

PREVENTION

- P102: Keep out of reach of children.
- P210: Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
- P262: Do not get in eyes, on skin, or on clothing.
- P264: Wash contacted areas thoroughly after handling.
- P280: Wear protective gloves, protective clothing and eye or face protection.

RESPONSE

- P352: Wash with plenty of soap and water.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

STORAGE

P410: Protect from sunlight.

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Emergency Overview

Physical Description & colour: Brown liquid.

Odour: Faint odour.

Major Health Hazards: Signs of human intoxication from Metolachlor exposure include abdominal cramps, anaemia, shortness of breath, dark urine, convulsions, diarrhoea, jaundice, weakness, nausea, sweating, and dizziness. This product is also an eye irritant.

Potential Health Effects

Inhalation:

Short term exposure: Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

Long Term exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short term exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be irritating, but is unlikely to cause anything more than mild transient discomfort.

Long Term exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short term exposure: This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

Long Term exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short term exposure: Significant oral exposure is considered to be unlikely. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms (detailed above) may also become evident, but should slowly disappear once exposure has ceased.

Long Term exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, g/L	TWA (mg/m ³)	STEL (mg/m ³)
Metolachlor	51218-45-2	960g/L	not set	not set
Other non hazardous ingredients	secret	to 1L	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

SAFETY DATA SHEET

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact: Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: This product is classified as a C1 combustible product. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media: Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: >93°C

Upper Flammability Limit: No data.

Lower Flammability Limit: No data.

Autoignition temperature: No data.

Flammability Class: Not flammable (GHS); C1 combustible (AS 1940)

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Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC, Viton. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. It should be fitted with a type G cartridge, suitable for agricultural chemicals. Otherwise, not normally necessary.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

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Storage: Note that this product is combustible and therefore, for Storage, meets the definition of Dangerous Goods in some states. If you store large quantities (tonnes) of such products, we suggest that you consult your state's Dangerous Goods authority in order to clarify your obligations regarding their storage. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits **TWA (mg/m³)** **STEL (mg/m³)**

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

The ADI for Metolachlor is set at 0.08mg/kg/day. The corresponding NOEL is set at 7.5mg/kg/day. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, June 2014.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC, Viton.

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally necessary.

Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Brown liquid.
Odour:	Faint odour.
Boiling Point:	Not available.
Freezing/Melting Point:	No specific data. Liquid at normal temperatures.
Volatiles:	No data.
Vapour Pressure:	3.7mpa at 25°C
Vapour Density:	No data.
Specific Gravity:	1.11-1.13 at 20°C
Water Solubility:	480ppm at 20°C
pH:	5-9
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water distribution:	No data
Autoignition temp:	No data.

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Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

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Conditions to Avoid: Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: strong acids, strong bases, strong oxidising agents.

Fire Decomposition: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Hydrogen chloride gas, other compounds of chlorine. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Toxicity: An information profile for Metolachlor is available at <http://extoxnet.orst.edu/pips/ghindex.html>

Acute toxicity: Metolachlor is harmful by ingestion. The reported oral LD50 in rats for technical grade Metolachlor is from 1200mg/kg to 2780mg/kg. It is practically nontoxic by skin exposure, with a reported dermal LD50 of greater than 2000mg/kg. Technical Metolachlor is a skin sensitizer in guinea pigs, and causes slight irritation and mild eye irritation in rabbits. The 4-hour rat inhalation LC50 of greater than 4.3mg/L indicates slight toxicity via this route. Human exposure most commonly occurs through skin or eye contact. Signs of human intoxication from Metolachlor exposure include abdominal cramps, anaemia, shortness of breath, dark urine, convulsions, diarrhoea, jaundice, weakness, nausea, sweating, and dizziness.

Chronic toxicity: While Metolachlor is not readily absorbed by the skin, repeated dermal exposures may create skin sensitization, especially among those who work with Metolachlor. In rats fed Metolachlor for 90 days, no effects were noted at about 90mg/kg/day. In a 2-year study of mice, a similar no-effect level was found, but doses of about 300mg/kg/day caused decreased body weight gain.

Reproductive effects: In two long-term rat reproduction studies, mating, gestation, lactation, and fertility were not affected at doses of 50mg/kg/day. However, pup weights and parental food consumption decreased at this low dose. The evidence suggests that Metolachlor is not likely to have an effect on reproduction in humans under normal circumstances.

Teratogenic effects: Metolachlor caused no birth defects in rats at maternal doses of 300mg/kg/day administered during critical periods of gestation (organogenesis), although some delayed or abnormal development in offspring was seen at this dose. These data indicate that teratogenic and developmental effects in humans are unlikely at expected levels of exposure.

Mutagenic effects: Metolachlor tested negative in two bacterial assays. Also, no mutagenicity effects were noted in a standard mouse test. From this evidence it is unlikely that the compound is mutagenic.

Carcinogenic effects: Male and female mice exposed to doses up to 100mg/kg/day for 18 to 20 months did not develop cancer, nor did male rats at doses of up to 150mg/kg/day over a 2-year period. From these data, it seems unlikely that Metolachlor is carcinogenic in humans.

Organ toxicity: Exposure to Metolachlor can damage the liver and cause irritation of the skin, eyes, and mucous membranes. It has also caused skin sensitization in guinea pigs.

Fate in humans and animals: Studies show that orally administered Metolachlor is quickly broken down into metabolites and is almost totally eliminated in the urine and faeces of goats, rats, and poultry. Metolachlor itself was not detected in the urine, faeces, or body tissues.

Section 12 - Ecological Information

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

Breakdown in soil and groundwater: Metolachlor is moderately persistent in the soil environment. Half-lives of 15 to 70 days in different soils have been observed. Soils with significant soil water content may show more rapid breakdown.

Breakdown in water: Metolachlor is highly persistent in water over a wide range of water acidity. Its half-life at 20 C is more than 200 days in highly acid waters, and is 97 days in highly basic waters. Metolachlor is also relatively stable in water under natural sunlight.

Breakdown in vegetation: Metolachlor, applied before plants emerge, is absorbed through shoots just above the seed, and may be absorbed from the soil into and through the roots. This chemical acts by inhibiting the production of essential plant components like chlorophylls, enzymes, and other proteins. Metolachlor is a growth inhibitor affecting root and shoot growth after seeds have germinated.

Section 13 - Disposal Considerations

Disposal: Instructions concerning the disposal of this product and its containers are given on the registered label. These should be carefully followed. Special help is available for the disposal of Agricultural Chemicals. The product

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label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

Section 14 - Transport Information

UN Number: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: Metolachlor, is mentioned in the SUSMP.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)
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SAFETY DATA SHEET

SAFETY DATA SHEET

Brix-Fix™

Date of Issue: 12/01/2024

CLASSIFICATION OF MATERIAL

Not Classified as Hazardous according to Safe Work Australia (GHS)
Not a Dangerous Good according to the Australian Dangerous Goods Code

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Brix-Fix™
UN Proper Shipping Name:	N/A
Recommended Use:	Fertiliser
Company Name:	Nutri-Tech Solutions Pty Ltd
Address:	7 Harvest Road, Yandina, Qld 4561, Australia
Email:	info@nutri-tech.com.au
ABN:	83 010 472 590
Telephone:	+61 5472 9900
Emergency Telephone Numbers:	Police, Ambulance, Fire: 000 (Mobile 112) Poisons Information Centre (Australia) 13 11 26 Nutri-Tech Solutions Mon-Fri 8:00am-4pm AEST 07 5472 9900 (Australia)

2. HAZARDS IDENTIFICATION

Hazard Classification:	Non-Hazardous
	Not classified as Hazardous according to the criteria of GHS.
	Not classified as a Dangerous Good according to the Australian Dangerous Goods Code
	Not classified as a schedule poison according to NDPSC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Proportion
Proprietary blend of seaweed extract, fulvic acid and other non-hazardous ingredients	N/A	100%

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SAFETY DATA SHEET

Brix-Fix™

Date of Issue: 12/01/2024

4. FIRST AID MEASURES

Ingestion:	Do not induce vomiting unless instructed to do so by medical personnel. Immediately rinse mouth with water (only if patient is conscious). Milk or water can be given to dilute if patient is conscious. Consult a physician or call the poisons information centre.
Eye:	Immediately rinse with plenty of water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water, if irritation persists contact a physician.
Skin:	May cause irritation. If irritation occurs wash with soap and water. If irritation persists seek medical advice.
Inhalation:	Seek medical advice if breathing difficulty develops.
First Aid Facilities:	Normal washing facilities.
Advice to Doctor:	Treat symptomatically.
General Information:	N/A

5. FIRE FIGHTING MEASURES

Flammability:	Non-flammable and non-combustible.
Extinguishing media:	Use extinguishing media suitable for surrounding fire situations.
Hazchem Code:	N/A
Precautions in connection with fire	N/A

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:	Clean up spills immediately. Increase ventilation. Avoid walking in spilled product as it is slippery. Shut off possible ignition sources.
Methods and materials for contamination and clean-up:	Wear protective clothing when cleaning up major spills. Soak up spilled product with absorbent non-combustible material such as sand or soil, collect and transfer to a suitable labelled waste container and dispose of promptly. Do not contaminate streams or waterways. Dispose of in compliance with local, state and federal regulations.

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7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with eyes and skin, do not inhale spray mist. Prohibit eating, drinking and smoking in contaminated areas.
Storage:	Keep out of reach of children. Store in a cool, dry area in a sealed container. Do not store in prolonged sunlight. Do not freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	None established.
Biological Limit Values:	None established.
Engineering Controls:	None established.
Personal Protective Equipment:	Face shield/safety glasses, impervious gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown liquid
Odour:	Seaweed, odour
pH:	5 - 6
Flammability:	Not combustible
Solubility in Water:	Fully miscible
Lower Explosion Limit:	No data available
Upper Explosion Limit:	No data available
Specific Gravity:	1.0
Conductivity:	30-50 mS/cm
Melting Point:	No data available
Boiling Point:	No data available
Vapour Pressure:	No data available
Evaporation Rate:	No data available

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Hazardous Reactions & Materials to Avoid:	Hazardous polymerization will not occur.
Hazardous Decomposition Products:	None known.

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SAFETY DATA SHEET

Brix-Fix™

Date of Issue: 12/01/2024

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Product is considered non-toxic. No LD ₅₀ data available.
Skin:	No data available. May cause skin irritation, wash with soap and water.
Eye:	No data available. May cause irritation. Wash immediately with water.
Respiratory or skin sensitisation:	No data available. Vapours or mist may cause respiratory irritation.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
Specific Target Organ Toxicity (STOT) single exposure:	No data available.
Specific Target Organ Toxicity (STOT) – repeated exposure:	No data available.
Aspiration Hazard:	No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No data available
Persistence/Degradability:	No data available
Mobility:	No data available
Environmental Protection:	No data available

13. DISPOSAL CONSIDERATIONS

Disposal Method:	Where possible, product should be used for its intended purpose including the rinsings of the container. Dispose of in accordance with all local state and national regulations. Do not discard into drains or waterways.
Container:	Triple or preferably pressure rinse containers before disposal. Dispose of used container in accordance with all local and national regulations. Recycle containers if possible (replace cap and return cleaned container to recyclers or collection point). Empty containers and product should not be burned.

14. TRANSPORT INFORMATION

Land Transport (ADG Code):	Not regulated for transport of Dangerous Goods
Air Transport (IATA)	Not regulated for transport of Dangerous Goods
Sea Transport (IMDG Code)	Not regulated for transport of Dangerous Goods

SAFETY DATA SHEET

Brix-Fix™

Date of Issue: 12/01/2024

15. REGULATORY INFORMATION

SUSMP Poisons Schedule:	Not scheduled.
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16. OTHER INFORMATION

Acronyms	
ADG Code:	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS:	Australian Inventory of Chemical Substances
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
CAS Number:	Chemical Abstracts Service Registry
Hazchem Code:	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC:	International Agency for Research on Cancer
NDPSC:	National Drugs and Poisons Scheduling Committee
NOS:	Not Otherwise Specified
NTP:	National Toxicology Program (USA)
UN Number:	United Nations Number
SUSMP:	Standard for the Uniform Scheduling of Medicines and Poisons
STEL:	Short Term Exposure Limit
TWA:	Time Weighted Average (the average airborne concentration when calculated over a normal eight hour working day for five days a week)
LD₅₀:	Lethal Dose for 50% Mortality
SCBA:	Self Contained Breathing Apparatus

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END OF SDS

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SAFETY DATA SHEET

Triple Ten™ Range

Date of Issue: 24/07/2023

CLASSIFICATION OF MATERIAL

Not Classified as Hazardous according to Safe Work Australia (GHS)
Not a Dangerous Good according to the Australian Dangerous Goods Code

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Names:	Berry-Tech Triple Ten™, Citrus-Tech Triple Ten™, Flora-Tech Triple Ten™, Fruit-Tech Triple Ten™, Herb-Tech Triple Ten™, Native-Tech Triple Ten™, Nut-Tech Triple Ten™, Pasture-Tech Triple Ten™, Triple Ten™, Trop-Tech Triple Ten™, Turf-Tech Triple Ten™, Veg-Tech Triple Ten™, Vine-Tech Triple Ten™.
UN Proper Shipping Name:	N/A
Recommended Use:	Fertiliser
Company Name:	Nutri-Tech Solutions Pty Ltd
Address:	7 Harvest Road, Yandina, Qld 4561, Australia
Email:	info@nutri-tech.com.au
ABN:	83 010 472 590
Telephone:	+61 5472 9900
Emergency Telephone Numbers:	Police, Ambulance, Fire: 000 (Mobile 112) Poisons Information Centre (Australia) 13 11 26 Nutri-Tech Solutions Mon-Fri 8:00am-4pm AEST 07 5472 9900 (Australia)

2. HAZARDS IDENTIFICATION

Hazard Classification:	Non-Hazardous
	Not classified as Hazardous according to the criteria of GHS.
	Not classified as a Dangerous Good according to the Australian Dangerous Goods Code.
	Not classified as a scheduled poison according to NDPSC.
Hazard Statement(s):	May be irritating to eyes and skin.
Precautionary Statement(s):	Keep out of reach of children.
	Read label before use.

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SAFETY DATA SHEET

Triple Ten™ Range

Date of Issue: 24/07/2023

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Proportion
Potassium salts of phosphoric acid	Proprietary blend	5-20%
Diammonium phosphate	7783-28-0	5-20%
Urea	57-13-6	5-15%
Other fertiliser ingredients determined to be non-hazardous	N/A	To 100%

4. FIRST AID MEASURES

Ingestion:	Do not induce vomiting unless advised to do so by medical personnel. Immediately rinse mouth with water (only if patient is conscious). Milk or water can be given to dilute if patient is conscious (no more than 2 glasses). Consult a physician or call the poisons information centre. Note that the high level of potassium and ammonium in this product may cause toxicological issues if large quantities are ingested.
Eye:	Immediately rinse with plenty of water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water, if irritation persists contact a physician.
Skin:	Remove contaminated clothing and wash with soap and water. If symptoms such as redness or irritation occur, consult a physician. Launder clothes before re-use.
Inhalation:	Remove to fresh air. Seek medical advice if irritation occurs or breathing difficulty develops.
First Aid Facilities:	Eye wash station and normal washing facilities.
Advice to Doctor:	Treat symptomatically. Activated charcoal is not useful in this case. Gastric lavage may be used. High potassium and ammonium load may lead to destabilization of the body's ionic systems – kidney function should be monitored and nervous system response to high K ⁺ load evaluated.
General Information:	Elevated levels of potassium can be toxic and may cause irregular heartbeat or heart attack.

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Triple Ten™ Range

Date of Issue: 24/07/2023

5. FIRE FIGHTING MEASURES

Flammability:	Non-flammable and non-combustible. May evolve toxic gases when heated to decomposition. Fire fighters recommended to wear SCBA.
Extinguishing media:	Use extinguishing media suitable for surrounding fire situations.
Hazchem Code:	N/A
Precautions in connection with fire:	Clear area of all non-emergency personnel. Stay upwind. Eliminate ignition sources. Contain run-off to prevent entry in water or drainage systems.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:	
Minor spill:	Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Place in a suitable labelled container for waste disposal.
Major spill:	Clear area of personnel and move upwind. Alert fire brigade of spill. Wear full body protective clothing and breathing apparatus. Prevent spillage entering drains or watercourse. Contain spill with sand, earth or vermiculite. Collect and recover product into containers for disposal. Wash area with water (prevent run-off from entering drains). If contamination of drains or waterways occurs, advise emergency services.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes. Do not inhale spray mist. It is recommended to wear personal protective equipment as outlined in section 8. Prohibit eating, drinking and smoking in contaminated areas.
Storage:	Keep out of reach of children. Store in original container in a cool, dry area away from foodstuffs. This product may release ammonia. If it has been stored in a confined area ventilate space before opening container. Do not store in prolonged sunlight. Do not freeze.

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Triple Ten™ Range

Date of Issue: 24/07/2023

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards:	None established.
Biological Limit Values:	None established.
Engineering Controls:	Ensure sufficient ventilation to minimise exposure.
Personal Protective Equipment:	The following protective equipment is recommended when handling this product: safety glasses, impervious gloves (rubber, PVC). When using large quantities wear coveralls. Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking and going to the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black liquid
Odour:	Earthy
pH:	7-8
Flammability:	Not combustible
Solubility in Water:	Fully miscible
Lower Explosion Limit:	No data available
Upper Explosion Limit:	No data available
Specific Gravity:	1.3
Conductivity:	80-100 mS/cm
Melting Point:	No data available
Boiling Point:	No data available
Vapour Pressure:	No data available
Evaporation Rate:	No data available

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Hazardous Reactions & Materials to Avoid:	Hazardous polymerization will not occur. Avoid heat, flames, and acids.
Hazardous Decomposition Products:	May evolve toxic gases (carbon, nitrogen oxides, ammonia, hydrocarbons) when heated to decomposition.

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SAFETY DATA SHEET

Triple Ten™ Range

Date of Issue: 24/07/2023

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	No LD ₅₀ data available. Low toxicity. Under normal conditions of use, not adverse health effects are anticipated. Use safe work practices to avoid eye contact and prolonged skin contact. Avoid accidental ingestion and contamination of drinking water. Urea can be toxic to livestock, pets and wildlife. Should livestock poisoning occur, vinegar (acetic acid) needs to be administered at high dose rates (e.g. 2-4 L for cattle) immediately. Death from urea poisoning is rapid and often by the time symptoms appear it is too late.
Skin:	No data available. May cause irritation, wash with soap and water.
Eye:	No data available. May cause irritation, wash immediately with water.
Respiratory or skin sensitisation:	No data available. Vapours or mist may cause respiratory irritation. Repeated or prolonged skin contact may cause chronic dermatitis.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
Specific Target Organ Toxicity (STOT) single exposure:	No data available.
Specific Target Organ Toxicity (STOT) – repeated exposure:	No data available.
Aspiration Hazard:	No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Avoid contaminating water ways. Nitrogen fertilisers can stimulate weed and algal growth in static surface waters. May form nitrate which can contaminate surface and ground water.
Persistence/Degradability:	No data available
Mobility:	No data available
Environmental Protection:	No data available

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Triple Ten™ Range

Date of Issue: 24/07/2023

13. DISPOSAL CONSIDERATIONS

Disposal Method:	Where possible, product should be used for its intended purpose including the rinsings of the container. Dispose of in accordance with all local state and national regulations. Do not discard into drains or waterways.
Container:	Triple or preferably pressure rinse containers before disposal. Dispose of used container in accordance with all local and national regulations. Recycle containers if possible (replace cap and return cleaned container to recyclers or collection point). Empty containers and product should not be burned.

14. TRANSPORT INFORMATION

Land Transport (ADG Code):	Not regulated for transport of Dangerous Goods
Air Transport (IATA)	Not regulated for transport of Dangerous Goods
Sea Transport (IMDG Code)	Not regulated for transport of Dangerous Goods

15. REGULATORY INFORMATION

SUSMP Poisons Schedule:	Not scheduled.
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Triple Ten™ Range

Date of Issue: 24/07/2023

16. OTHER INFORMATION

Acronyms	
ADG Code:	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS:	Australian Inventory of Chemical Substances
CAS Number:	Chemical Abstracts Service Registry
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
Hazchem Code:	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC:	International Agency for Research on Cancer
NDPSC:	National Drugs and Poisons Scheduling Committee
NOS:	Not Otherwise Specified
NTP:	National Toxicology Program (USA)
UN Number:	United Nations Number
SUSMP:	Standard for the Uniform Scheduling of Medicines and Poisons
STEL:	Short Term Exposure Limit
TWA:	Time Weighted Average (the average airborne concentration when calculated over a normal eight hour working day for five days a week)
LD₅₀:	Lethal Dose for 50% Mortality
SCBA:	Self Contained Breathing Apparatus

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The data and recommendations presented herein are based upon research of others and are believed to be accurate. However, no warranty is expressed or implied regarding this data or the results to be obtained from use thereof. Nutri-Tech Solutions P/L, assumes no responsibility for the injury to customers or third party proximity caused by the material if reasonable safety procedures are not adhered to as stipulated in this data sheet.

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SAFETY DATA SHEET

Section 1: Identification: Product identifier and chemical identity

Product Identifier:	PRIMO MAXX® Turf Growth Regulator
Other Means of Identification:	Product code: A11825A
Recommended Use:	Growth regulator for use in turf management
Details of manufacturer or importer	Syngenta Australia Pty Ltd ABN 33 002 933 717
Address:	Level 1, 2-4 Lyonpark Road MACQUARIE PARK NSW 2113 AUSTRALIA
Website:	syngenta.com.au
Phone Number:	(02) 8876 8444
Emergency Phone Number:	24 hours - 1800 033 111

Section 2: Hazards identification

Classification of the Hazardous Chemical:	Eye irritation - Category 2 Reproductive toxicity - Category 1B
Signal Word:	Danger
Hazard Statement(s):	H319 Causes serious eye irritation H360Df May damage the unborn child. Suspected of damaging fertility
Precautionary Statement(s):	P201 Obtain special instructions before use P273 Avoid release to the environment P280 Wear protective gloves/protective clothing/eye protection/face protection. P391 Collect spillage. P501 Dispose of contents/ container to an approved waste disposal plant.
Hazard Symbols:	

Section 3: Composition and information on ingredients

SUBSTANCE	
Chemical Identity of Pure Substance:	Trinexapac-ethyl
Synonym:	CGA 163935
CAS Number:	95266-40-3

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MIXTURE		
Chemical Identity of Ingredients:	CAS No	Proportion (% w/v)
Trinexapac-ethyl	95266-40-3	12
Tetrahydrofurfuryl alcohol	97-99-4	30 - 60
Non-hazardous ingredients	-	to 100

Section 4: First aid measures

Description of Necessary First Aid Measures:	In case of poisoning by any exposure route contact a doctor or Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment. Ingestion: If swallowed, seek medical advice immediately DO NOT induce vomiting Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Wash contaminated clothing before reuse Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a doctor or Poison Information Centre immediately
Symptoms Caused by Exposure:	Poisoning symptoms in laboratory animals were non-specific
Medical Attention and Special Treatment:	There is no specific antidote available. Treat symptomatically.

Section 5: Fire fighting measures

Suitable Extinguishing Equipment:	Small fires: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. DO NOT use a solid water stream as it may scatter and spread fire Large fires: Use alcohol resistant foam or water spray. DO NOT use a solid water stream as it may scatter and spread fire
Specific Hazards Arising from the Chemical:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be a hazard to health
Special Protective Equipment and Precautions for Fire Fighters:	Wear full protective clothing and self contained breathing apparatus. DO NOT allow runoff from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray

Section 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures:	In case of spillage it is important to take all steps necessary to • Avoid eye and skin contact • Avoid contamination of waterways
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Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and Materials for Containment and Clean Up:	Procedure for spill (1) Keep all bystanders away (2) Wear full length clothing and PVC gloves (3) Reposition any leaking containers so as to minimise further leakage (4) Dam and absorb spill with an absorbent material (eg sand or soil) (5) Shovel the absorbed spill into drums (6) Disposal of the absorbed material will depend upon the extent of the spill • For quantities up to 50 L of product bury in a secure landfill site • For quantities greater than 50 L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established (7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable

Section 7: Handling and storage

Precautions for Safe Handling:	Will irritate the eyes. Avoid contact with the eyes. If product in eyes, wash it out immediately with water. When opening the container, preparing the spray and using the prepared spray wear: • cotton overalls buttoned to the neck and wrist • elbow-length nitrile or PVC gloves • a washable hat • face shield or goggles Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.
Conditions for Safe Storage, Including any Incompatibilities:	Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.

Section 8: Exposure controls and personal protection

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

	Component	Exposure limit	Value type
National Exposure Standards:	No exposure standard allocated		
Syngenta Exposure Standards:	Trinexapac-ethyl	10 mg/m ³	TWA
Biological Limit Values:	No biological limits allocated		
Engineering Controls:	No special requirements. Product is used outdoors.		
Personal Protective Equipment:	Will irritate the eyes. Avoid contact with the eyes. If product in eyes, wash it out immediately with water. When opening the container, preparing the spray and using the prepared spray wear: • cotton overalls buttoned to the neck and wrist • elbow-length nitrile or PVC gloves • a washable hat • face shield or goggles Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.		

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Section 9: Physical and chemical properties

Appearance:	Orange to red liquid	Boiling Point/Range:	No information available
Odour:	Odourless	Freezing/Melting Point:	No information available
pH:	2 - 6 at 1% w/v	Solubility:	No information available
Vapour Pressure:	No information available	Density:	1.07 g/cm ³ (20°C)
Vapour Density:	No information available		

Flash Point:	82 °C (1,013 hPa) Method: DIN EN 22719	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	No information available	Oxidising Properties:	Not oxidising
Ignition Temperature:	265°C	Combustibility:	C1 combustible
		Corrosiveness:	Not corrosive

Section 10: Stability and reactivity

Reactivity:	No hazardous reactions by normal handling and storage according to provisions.
Chemical Stability:	Stable under normal conditions
Possibility of Hazardous Reactions:	None known Hazardous polymerization does not occur
Conditions to Avoid:	None known
Incompatible Materials:	None known
Hazardous Decomposition Products:	Combustion or thermal decomposition will evolve toxic and irritant vapours.

Section 11: Toxicological information

Health Effects from Likely Routes of Exposure:		
Acute	Oral toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following single doses of undiluted product LD ₅₀ >5,050 mg/kg
	Dermal toxicity:	LOW TOXICITY Tests on rabbits indicate this product has a low toxicity following skin contact with undiluted product LD ₅₀ >2,020 mg/kg
	Inhalation:	HARMFUL Tests on rats indicate this product is harmful due to inhalation of undiluted product LC ₅₀ (4 hour) >2.57 mg/L air
	Skin irritation:	NON IRRITANT
	Eye irritation:	NON IRRITANT
	Sensitisation:	NOT A SENSITISER
Chronic	Trinexapac-ethyl technical has been extensively tested on laboratory mammals and in test tube systems. No evidence was obtained of mutagenic, carcinogenic, teratogenic or reproductive effects was obtained. Chronic effects at high doses of trinexapac-ethyl (>5,000 ppm) to dogs were found to liver, kidney and brain.	

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Section 12: Ecological information

Ecotoxicity	Toxicity to fish: Practically non-toxic to fish <i>Oncorhynchus mykiss</i> (rainbow trout): LC₅₀ >120 mg/L Toxicity to daphnia and other aquatic invertebrates: Practically non-toxic to aquatic invertebrates <i>Daphnia magna</i> (Water flea): EC₅₀ >120 mg/L, 48 h (Based on tests conducted with active ingredient) Toxicity to algae: Practically non-toxic to algae <i>Anabaena flos-aquae</i> (bluegreen algae): ErC₅₀ >100 mg/L, 72 h Toxicity to soil dwelling organisms: Practically non-toxic to earthworms <i>Eisenia foetida</i> (earthworm): LC₅₀ >1000 mg/kg dry soil
Persistence and Degradability:	Trinexapac-ethyl is not persistent in water or soil
Mobility in Soil:	Trinexapac-ethyl has medium mobility in soil
Bioaccumulative Potential:	Trinexapac-ethyl does not bioaccumulate

Section 13: Disposal considerations

Disposal Methods:	Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.
Special Precautions for Incineration or Landfill:	Not applicable

Section 14: Transport information

LAND TRANSPORT ADG	Not a dangerous good in Australia		
UN Number:	None allocated	Packing Group:	None allocated
UN Proper Shipping Name:	None allocated	Special Precautions for User:	None allocated
Transport Hazard Class:	None allocated	Hazchem or Emergency Action Code:	None allocated
Subsidiary Risk:	None allocated		

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SEA TRANSPORT IMDG			
UN Number:	None allocated	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	None allocated	Packing Group:	None allocated
Transport Hazard Class:	None allocated	Environmental hazards for Transport Purposes:	Not a marine pollutant

AIR TRANSPORT IATA - DGR			
UN Number:	None allocated	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	None allocated	Packing Group:	None allocated
Transport Hazard Class:	None allocated		

Section 15: Regulatory information

APVMA Product Number:	54275
Poisons Schedule (SUSMP):	5

Section 16: Any other relevant information

Date of preparation or last revision: November 2016
Source of Data: The information provided in this SDS is sourced from Syngenta internal studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.
Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions
CONTACT POINT: Regulatory Affairs Manager, Syngenta Australia Pty Ltd (02) 8876 8444 24 HOURS EMERGENCY CONTACT: 1800 033 111
This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.
DISCLAIMER This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.

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Section 1 - Identification of The Material and Supplier

Turf Culture Pty Ltd
43 Gap Road
Sunbury, Vic 3429 Australia

Phone: 1300 11 8873
Fax: 03 8888 9991
www.turfculture.com.au

Chemical nature: Water based solution of surfactant and other ingredients.

Trade Name: **White Marking Foam**

APVMA Approval no: 64146

Product Use: A white marking foam for use with agricultural spraying.

Creation Date: **May, 2014**

This version issued: **March, 2022** and is valid for 5 years from this date.

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Xi, Irritating. Hazardous according to the criteria of SWA.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

SUSMP Classification: None allocated.

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

UN Number: None allocated



GHS Signal word: WARNING

Skin Irritation Category 2

Eye irritation Category 2B

HAZARD STATEMENT:

AUH066: Repeated exposure may cause skin dryness or cracking.

H315: Causes skin irritation.

H320: Causes eye irritation.

PREVENTION

P102: Keep out of reach of children.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling.

P280: Wear protective gloves, protective clothing and eye or face protection.

RESPONSE

P362: Take off contaminated clothing and wash before reuse.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice.

P337+P313: If eye irritation persists: Get medical advice.

P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

P410: Protect from sunlight.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

DISPOSAL

P501: If they can not be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS).

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SAFETY DATA SHEET

Emergency Overview

Physical Description & Colour: Clear liquid.

Odour: No odour.

Major Health Hazards: irritating to eyes and skin, repeated exposure may cause skin dryness or cracking.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %	TWA (mg/m ³)	STEL (mg/m ³)
Sodium alkyl ethoxysulfate	68585-34-2	289g/L	not set	not set
Dodecan-1-ol	112-53-8	41g/L	not set	not set
Other non hazardous ingredients	secret	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact: Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

This product is likely to decompose only after heating to dryness, followed by further strong heating.

Fire decomposition products from this product are likely to be irritating if inhaled.

Extinguishing Media: Not combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Autoignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

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Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).

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Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Make sure that containers of this product are kept tightly closed. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits

TWA (mg/m³)

STEL (mg/m³)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC.

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Eyebaths or eyewash stations and safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Clear liquid.
Odour:	No odour.
Boiling Point:	Approximately 100°C at 100kPa.
Freezing/Melting Point:	No specific data. Liquid at normal temperatures.
Volatiles:	Water component.
Vapour Pressure:	2.37 kPa at 20°C (water vapour pressure).
Vapour Density:	As for water.
Specific Gravity:	1.01
Water Solubility:	Completely soluble in water.
pH:	6-8 (1% in water)
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	As for water.
Coeff Oil/water Distribution:	No data

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Autoignition temp: Not applicable - does not burn.

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Keep containers tightly closed. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: strong oxidising agents.

Fire Decomposition: This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Sodium compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Local Effects:

Target Organs: There is no data to hand indicating any particular target organs.

Classification of Hazardous Ingredients

Ingredient

Risk Phrases

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

Acute Toxicity –Oral

LD₅₀ (rat) 1,995 mg/kg for sodium laureth sulphate

LD₅₀ (rat) >5,000 mg/kg for dodecanol

Potential Health Effects

Inhalation:

Short Term Exposure: Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

Long Term Exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short Term Exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term Exposure: Repeated exposure may cause skin dryness or cracking.

Eye Contact:

Short Term Exposure: This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term Exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 12 - Ecological Information

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems. Expected to not be an environmental hazard.

SAFETY DATA SHEET

Section 13 - Disposal Considerations

Disposal: Containers should be emptied as completely as practical before disposal. If possible, recycle product and containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site.

Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)

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SAFETY DATA SHEET

Section 1. Identification: product identifier & chemical identity

Product Name	BioWeed® Organic Herbicide Concentrate
Intended Use	Herbicide
Chemical Nature	Terpene alcohols and saponified fatty acids

Manufacturer /Supplier	Greenpro Solutions Pty Ltd
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9 Research Street
Coolum Beach QLD 4573

Phone +61 1300 907 107

Email info@bioweed.com

Emergency Phone	13 11 26 (Poisons Information Centre)
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Section 2. Hazard Identification

Signal Word	Danger
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Hazard Class & Category	Skin corrosion / irritation – category 2 Serious eye damage/irritation – category 1 Specific target organ toxicity (single exposure) – category 3
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Hazard Statement	 H315 Causes skin irritation  H318 Causes serious eye damage  H335 May cause respiratory irritation
------------------	---

Prevention	P264 Wash hands thoroughly after handling P280 Wear protective gloves, eye protection, face protection P261 Avoid breathing fume, vapours, spray P271 Use only outdoors or in a well ventilated area
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Response	P302+P352 IF ON SKIN: wash with plenty of soap and water P332+P313 If skin irritation occurs: Get medical advice/attention P362 Take off contaminated clothing and wash before reuse P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 Immediately call a POISON CENTRE or a doctor/physician P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P312 Call a POISON CENTRE or doctor/physician if you feel unwell
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Storage	P403 + P233 Store in a well ventilated place. Keep container tightly closed
Disposal	P405 Store locked up P501 Dispose of contents/container as specified on registered label

Section 3. Composition/Information on Ingredients

Name	Pine Oil
CAS-nr	8002-09-3
Content	680 g/L
Name	Non-hazardous ingredients
Content	to 1L

Section 4. First Aid Measure

Routes of Exposure:

Inhalation	Remove patient to fresh air and seek medical attention if breathing becomes difficult.
Skin Contact	Wash off contamination with soap and water. Seek medical attention if irritation persists.
Eye Contact	Rinse immediately with plenty of water for several minutes whilst keeping the eye lids separated. Seek medical advice directly.
Ingestion	Drink water or milk. If large quantities have been swallowed or if you feel unwell, obtain medical attention.
Most Important symptoms and effects	Ingestion: Large quantities may cause gastrointestinal irritation. Inhalation: Vapours and mists maybe irritating to mucous membrane and respiratory system. Skin: Causes skin irritation Eye: Causes severe eye damage

Section 5. Fire Fighting Measures

Hazard Type	Not Flammable
Suitable Extinguishing Equipment	Water mist or water spray, foam, dry powder or carbon dioxide
Hazards from combustion products	Oxides of carbon, nitrogen and water
Precautions for Firefighters and Special Protection Clothing	Self-contained breathing apparatus should be worn when fighting fire. Have fire extinguishers available.

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Section 6. Accidental Release Measures

Personal Protection	Wear personal protective gear as detailed in Section 8 below.
Environmental Precautions	Prevent the product from reaching sewage and water courses in large quantities.
Method & Material for Clean Up	For both small and large spillages collect as much as possible in a clean container for [preferable] reuse or disposal. Contain and/or absorb spill with inert material [e.g. sand, vermiculite, sawdust]. Dispose of waste according to the applicable local and national regulations.

Section 7. Handling and Storage

Precautions for Handling	Keep out of reach of children Read label before use Wash hands thoroughly after handling Avoid release to the environment Wear protective clothing as detailed in Section 8 Handle in a well ventilated workplace Use normal handling precautions applicable to industrial chemicals
Precautions for Storage	Store away from incompatible materials listed in Section 10 Store in closed containers in a cool, well ventilated area

Section 8. Exposure Controls / Personal Protection

Workplace Exposure Standards	No ingredients have exposure limits
Engineering Controls	Good ventilation should be provided in working areas.
Eye and Face Protection	Goggles and eyewash station.
Skin Protection	Use rubber/PVC gloves and full working clothes. Contaminated clothing should be laundered before re-use.
Respiratory Protection	Provide adequate ventilation. If applying by low pressure hand wand wear half facepiece respirator

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Section 9. Physical and Chemical Properties

Appearance	Pale amber liquid
Auto Ignition Temp	Not available
Decomposition Temperature	Not available
Evaporation Rate	<1
Flammability	Not available
Flash Point	>100°
Initial Boiling Point and Range	>101°
Melting Point/Freezing Point	Not available
Odour	Pinaceous (Pine odour)
Odour Threshold	Not available
Partition Coefficient	Not available
pH	10-11
Relative Density	Not available
Solubility	Soluble in Water
Upper/Lower Flammability/Explosive Limits	Not available
Vapour Density (Air = 1)	5.30
Vapour Pressure	<1mm Hg [20°C)
Viscosity	Not available

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Section 10. Stability and Reactivity

Reactivity	This product is unlikely to react under normal conditions
Chemical Stability	This product is stable under normal conditions
Possibility of Hazardous Reactions	None known
Condition to Avoid	None known
Incompatible Materials	Incompatible with strong oxidising agents
Hazardous Decomposition Products	Oxides of carbon, nitrogen and water.

Section 11. Toxicological Information

ACUTE TOXICITY	
Oral	Not classified as a hazard – Large quantities may cause gastrointestinal irritation
Dermal	Not classified as a hazard - Causes skin irritation
Inhalation	Not classified as a hazard - Inhalation of mist may result in irritation of the mucous membranes.
Eye	Causes severe eye damage

IRRITATION DATA

Skin Contact	Moderate irritant
Eye Contact	Severe irritant
Inhalation	Inhalation of mist may result in irritation of the mucous membranes
Sensitization Data	Not sensitising
Carcinogenicity and Mutagenicity	Not listed by NTP*
	Not listed under Cal Prop65*
	Not regulated by OSHA*
	Not regulated by IARC*
Reproductive Toxicity	Not applicable
Specific Target Organ Toxicity	Not applicable

Section 12. Ecological Information

Biodegradability	Degradable: .97% breakdown in 3-100.
Mobility in Soil	No data available
Aquatic Toxicity	EC50 [fish: 96H]= 16.3mg/l; EC50 [daphnia; 48H] = 10.9mg/l.
Toxicity – Aquatic and Terrestrial Plants	Herbicide.
Acute Toxicity – Birds	Not an acute oral hazard to vertebrates (rat).
Other Information	Not expected to bioaccumulate

Section 13. Disposal Considerations

Product Disposal	May be disposed of by landfill or by incineration, subject to local authorisation using licensed contractors.
Packaging Disposal	As for product or triple rinse container with water and recycle.
Precautions	Do not allow to enter waterways

Section 14. Transport Information

Transport	This product is not classified as a dangerous good for transport.
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Section 15. Regulatory Information

Australia – AICS	In compliance.
SUSMP – Therapeutic Goods Act 1989	Poison Schedule 6

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Section 16. Other Information

Issued by	Greenpro Solutions Pty Ltd
Date of Issue	11 August 2023
Revision	2.4
Revisions	2.4 Update company name and contact information 2.3 Update company name 2.2 Added pictograms 2.1 All sections of the SDS have been updated
Previously issued	27 August 2020
Product Name	BioWeed Organic Herbicide Concentrate

Acronyms

AICS	Australian Inventory of Chemical Substances
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
CAS Number	Chemical Abstracts Service Registry Number
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program (USA)
Cal Prop65	California Proposition 65
OSHA	American Occupational Safety & Health Administration
EC50	Median effective concentration

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Section 1. Identification: product identifier & chemical identity

Product Name	BioWeed® Organic Herbicide Concentrate
Intended Use	Herbicide
Chemical Nature	Terpene alcohols and saponified fatty acids

Manufacturer /Supplier	Greenpro Solutions Pty Ltd
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9 Research Street
Coolum Beach QLD 4573

Phone +61 1300 907 107

Email info@bioweed.com

Emergency Phone	13 11 26 (Poisons Information Centre)
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Section 2. Hazard Identification

Signal Word	Danger
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Hazard Class & Category	Skin corrosion / irritation – category 2 Serious eye damage/irritation – category 1 Specific target organ toxicity (single exposure) – category 3
-------------------------	---

Hazard Statement	 H315 Causes skin irritation  H318 Causes serious eye damage  H335 May cause respiratory irritation
------------------	---

Prevention	P264 Wash hands thoroughly after handling P280 Wear protective gloves, eye protection, face protection P261 Avoid breathing fume, vapours, spray P271 Use only outdoors or in a well ventilated area
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Response	P302+P352 IF ON SKIN: wash with plenty of soap and water P332+P313 If skin irritation occurs: Get medical advice/attention P362 Take off contaminated clothing and wash before reuse P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 Immediately call a POISON CENTRE or a doctor/physician P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P312 Call a POISON CENTRE or doctor/physician if you feel unwell
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Storage	P403 + P233 Store in a well ventilated place. Keep container tightly closed
Disposal	P405 Store locked up P501 Dispose of contents/container as specified on registered label

Section 3. Composition/Information on Ingredients

Name	Pine Oil
CAS-nr	8002-09-3
Content	680 g/L
Name	Non-hazardous ingredients
Content	to 1L

Section 4. First Aid Measure

Routes of Exposure:

Inhalation	Remove patient to fresh air and seek medical attention if breathing becomes difficult.
Skin Contact	Wash off contamination with soap and water. Seek medical attention if irritation persists.
Eye Contact	Rinse immediately with plenty of water for several minutes whilst keeping the eye lids separated. Seek medical advice directly.
Ingestion	Drink water or milk. If large quantities have been swallowed or if you feel unwell, obtain medical attention.
Most Important symptoms and effects	Ingestion: Large quantities may cause gastrointestinal irritation. Inhalation: Vapours and mists maybe irritating to mucous membrane and respiratory system. Skin: Causes skin irritation Eye: Causes severe eye damage

Section 5. Fire Fighting Measures

Hazard Type	Not Flammable
Suitable Extinguishing Equipment	Water mist or water spray, foam, dry powder or carbon dioxide
Hazards from combustion products	Oxides of carbon, nitrogen and water
Precautions for Firefighters and Special Protection Clothing	Self-contained breathing apparatus should be worn when fighting fire. Have fire extinguishers available.

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Section 6. Accidental Release Measures

Personal Protection	Wear personal protective gear as detailed in Section 8 below.
Environmental Precautions	Prevent the product from reaching sewage and water courses in large quantities.
Method & Material for Clean Up	For both small and large spillages collect as much as possible in a clean container for [preferable] reuse or disposal. Contain and/or absorb spill with inert material [e.g. sand, vermiculite, sawdust]. Dispose of waste according to the applicable local and national regulations.

Section 7. Handling and Storage

Precautions for Handling	Keep out of reach of children Read label before use Wash hands thoroughly after handling Avoid release to the environment Wear protective clothing as detailed in Section 8 Handle in a well ventilated workplace Use normal handling precautions applicable to industrial chemicals
Precautions for Storage	Store away from incompatible materials listed in Section 10 Store in closed containers in a cool, well ventilated area

Section 8. Exposure Controls / Personal Protection

Workplace Exposure Standards	No ingredients have exposure limits
Engineering Controls	Good ventilation should be provided in working areas.
Eye and Face Protection	Goggles and eyewash station.
Skin Protection	Use rubber/PVC gloves and full working clothes. Contaminated clothing should be laundered before re-use.
Respiratory Protection	Provide adequate ventilation. If applying by low pressure hand wand wear half facepiece respirator

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Section 9. Physical and Chemical Properties

Appearance	Pale amber liquid
Auto Ignition Temp	Not available
Decomposition Temperature	Not available
Evaporation Rate	<1
Flammability	Not available
Flash Point	>100°
Initial Boiling Point and Range	>101°
Melting Point/Freezing Point	Not available
Odour	Pinaceous (Pine odour)
Odour Threshold	Not available
Partition Coefficient	Not available
pH	10-11
Relative Density	Not available
Solubility	Soluble in Water
Upper/Lower Flammability/Explosive Limits	Not available
Vapour Density (Air = 1)	5.30
Vapour Pressure	<1mm Hg [20°C)
Viscosity	Not available

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Section 10. Stability and Reactivity

Reactivity	This product is unlikely to react under normal conditions
Chemical Stability	This product is stable under normal conditions
Possibility of Hazardous Reactions	None known
Condition to Avoid	None known
Incompatible Materials	Incompatible with strong oxidising agents
Hazardous Decomposition Products	Oxides of carbon, nitrogen and water.

Section 11. Toxicological Information

ACUTE TOXICITY	
Oral	Not classified as a hazard – Large quantities may cause gastrointestinal irritation
Dermal	Not classified as a hazard - Causes skin irritation
Inhalation	Not classified as a hazard - Inhalation of mist may result in irritation of the mucous membranes.
Eye	Causes severe eye damage

IRRITATION DATA

Skin Contact

Moderate irritant

Eye Contact

Severe irritant

Inhalation

Inhalation of mist may result in irritation of the mucous membranes

Sensitization Data

Not sensitising

Carcinogenicity and Mutagenicity

Not listed by NTP*

Not listed under Cal Prop65*

Not regulated by OSHA*

Not regulated by IARC*

Reproductive Toxicity

Not applicable

Specific Target Organ Toxicity

Not applicable

Section 12. Ecological Information

Biodegradability

Degradable: .97% breakdown in 3-100.

Mobility in Soil

No data available

Aquatic Toxicity

EC50 [fish: 96H]= 16.3mg/l; EC50 [daphnia; 48H] = 10.9mg/l.

Toxicity – Aquatic and Terrestrial Plants

Herbicide.

Acute Toxicity – Birds

Not an acute oral hazard to vertebrates (rat).

Other Information

Not expected to bioaccumulate

Section 13. Disposal Considerations

Product Disposal

May be disposed of by landfill or by incineration, subject to local authorisation using licensed contractors.

Packaging Disposal

As for product or triple rinse container with water and recycle.

Precautions

Do not allow to enter waterways

Section 14. Transport Information

Transport

This product is not classified as a dangerous good for transport.

Section 15. Regulatory Information

Australia – AICS

In compliance.

SUSMP – Therapeutic Goods Act 1989

Poison Schedule 6

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Section 16. Other Information

Issued by	Greenpro Solutions Pty Ltd
Date of Issue	11 August 2023
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Acronyms

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CAS Number	Chemical Abstracts Service Registry Number
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program (USA)
Cal Prop65	California Proposition 65
OSHA	American Occupational Safety & Health Administration
EC50	Median effective concentration

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