

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 5)

EPA Environmental Audits

What EPA environmental audit records exist within the report 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.

CARMS No	Transaction No	Site	Address	Suburb	Date Complete	Loc Conf	Distance	Direction
N/A	No records in buffer							

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

EPA Groundwater Zones with Restricted Uses

What EPA GQRUZ exist within the report buffer?

Note. Please click on CARMS No. to activate a hyperlink to online documentation.

CARMS No	EPA Id	Site History	Site Address	Restricted Uses	Loc Conf	Distance	Direction
N/A	No records in buffer						

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

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 5)

EPA Licensed Activities

What EPA licensed activities exist within the report 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									

Licensed Activity Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Former EPA Licensed Activities

What former EPA licensed activities exist within the report buffer?

Licence No	Organisation	Premise Address	Suburb	Activities	Loc Conf	Dist (m)	Direction
N/A	No records in buffer						

Former Licensed Activity Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

EPA Works Approvals

What EPA works approvals exist within the report buffer?

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

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

Waste Management Facilities

OSAR Proposed Road Alignments - Site 26 (Section 5)

National Waste Management Site Database

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

Site Id	Owner	Name	Address	Suburb	Postcode	Landfill	Reprocess	Transfer	Loc Conf	Dist (m)	Direction
N/A	No records in buffer										

Waste Management Facilities Data Source: Australian Government Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Statewide Waste and Resource Recovery Infrastructure Plan Facilities

Statewide Waste and Resource Recovery Infrastructure Plan Facilities within the report 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

EPA Prescribed Industrial Waste

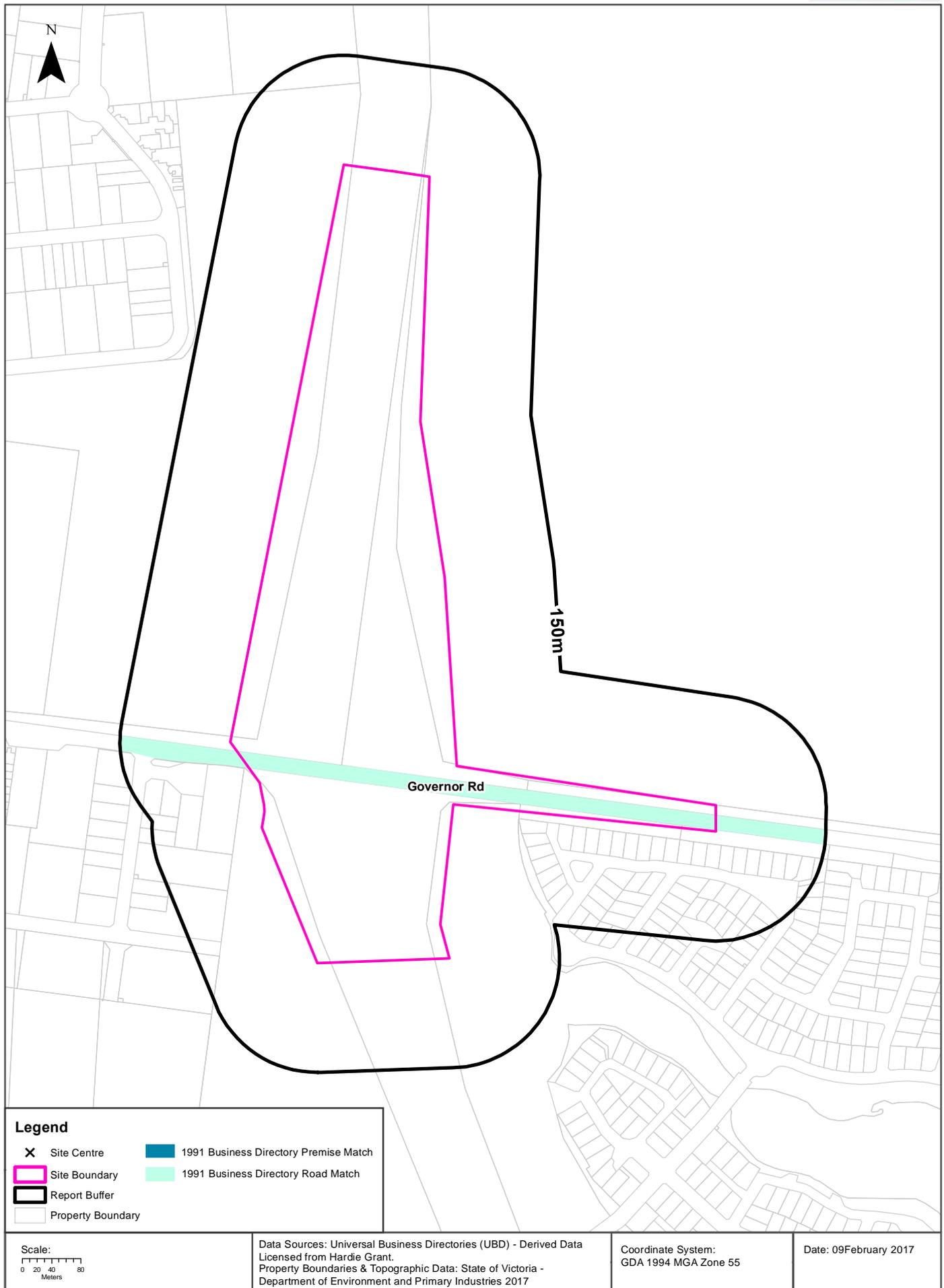
EPA Prescribed industrial waste sites within the report buffer:

Map Id	Company Name	Address	Suburb	Treatment /Disposal	Transport	Accredited Agent	EPA List Status	Loc Conf	Dist (m)	Direct
N/A	No records in buffer									

Prescribed Industrial Waste Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Historical Business to Business Directory Activity 1991

OSAR Proposed Road Alignments - Site 26 (Section 5)



Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 5)

1991 Business to Business Directory Records

1991 UBD Business Directory Records within 150m of the site:

Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
Steel Merchants - General	Ward, George Steel	Governor Rd., Braeside. 3105	21156	Road Match	0m	-

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1991 Business to Business Directory Garages & Service Stations

1991 UBD Business Directory Garages & Service Stations within 1km of the site:

Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 5)

1980 Business Directory Records

1980 UBD Business Directory Records within 150m of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1980 Business Directory Drycleaners, Garages & Service Stations

Drycleaners, Garages & Service Stations from the 1980 UBD Business Directory within 1km of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 5)

1960 Business Directory Drycleaners, Garages & Service Stations

Drycleaners, Garages & Service Stations from the 1960 UBD Business Directory within 1km of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1950 Business Directory Records

1950 UBD Business Directory Records within 150m of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1950 Business Directory Drycleaners, Garages & Service Stations

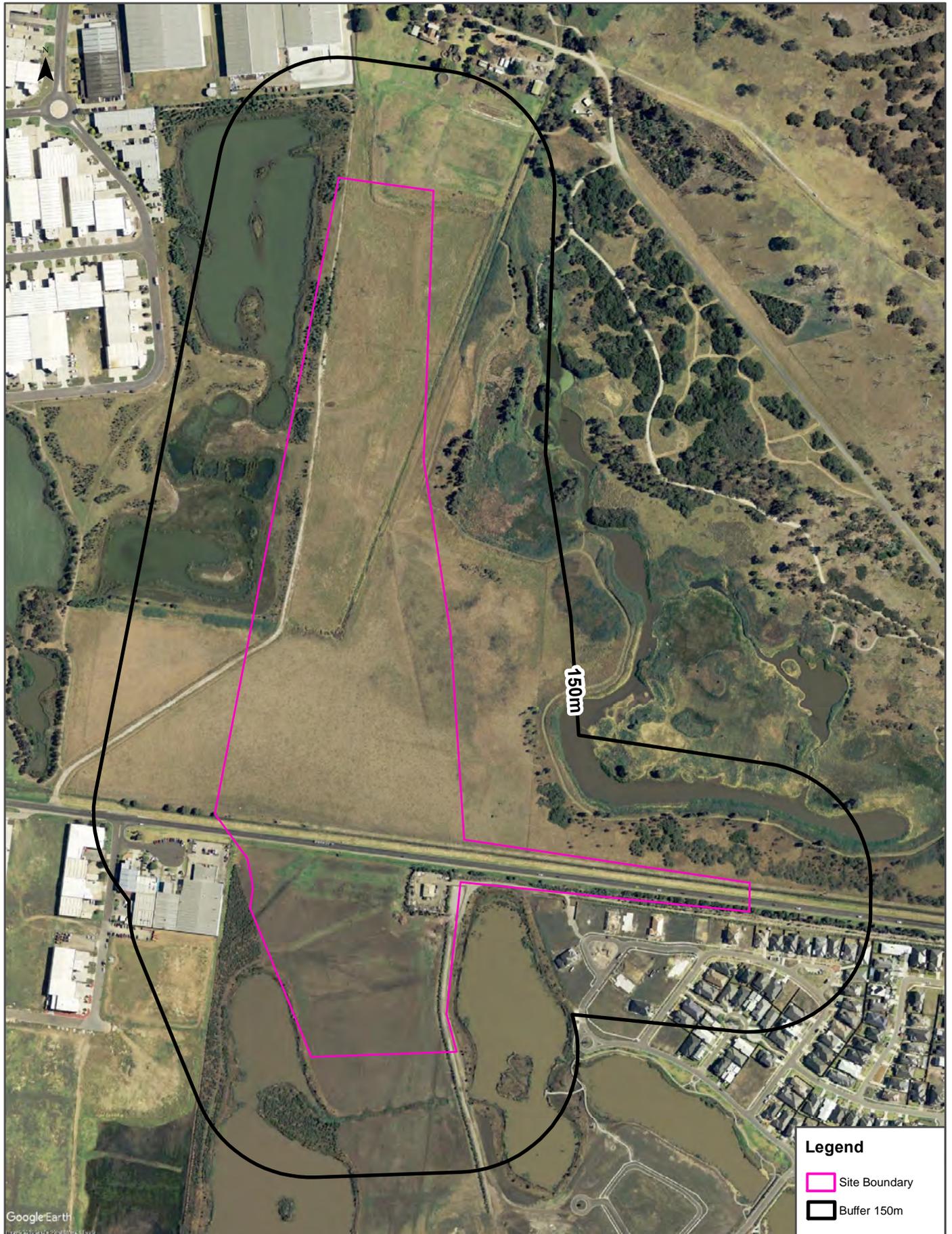
Drycleaners, Garages & Service Stations from the 1950 UBD Business Directory within 1km of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Aerial Imagery 2009

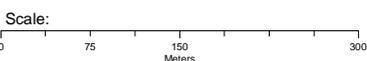
OSAR Proposed Road Alignments - Site 26 (Section 5)



Google Earth
© 2016 Google Inc. All rights reserved.

Legend

-  Site Boundary
-  Buffer 150m



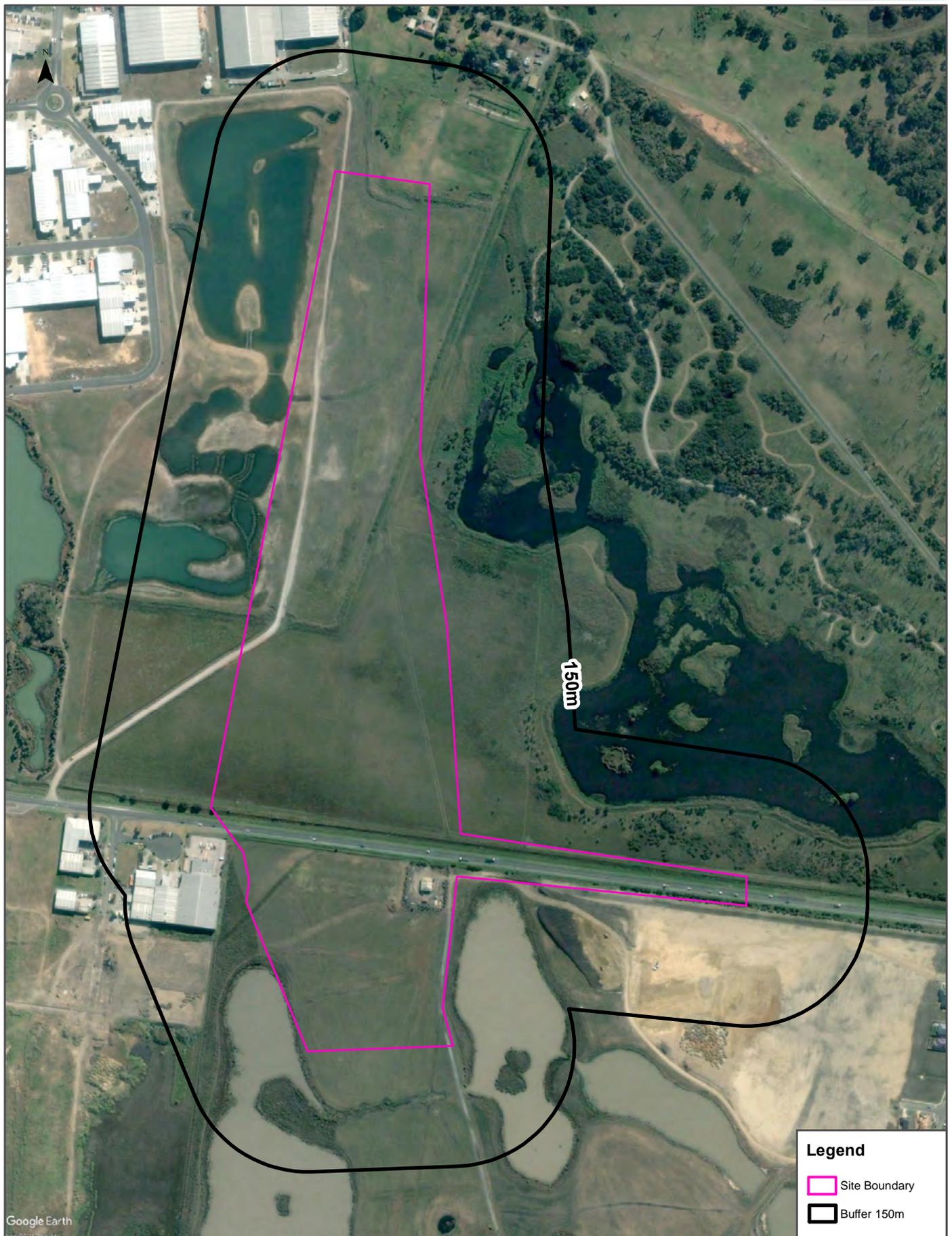
Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 55

Date: 08February, 2017

Aerial Imagery 2005

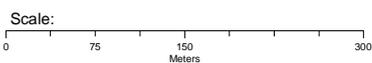
OSAR Proposed Road Alignments - Site 26 (Section 5)



Google Earth
Pro 8.1.10.1000

Legend

- Site Boundary
- Buffer 150m



Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 55

Date: 08February, 2017

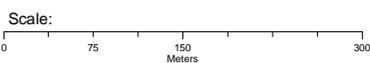
Aerial Imagery 1991

OSAR Proposed Road Alignments - Site 26 (Section 5)



Legend

- Site Boundary
- Buffer 150m



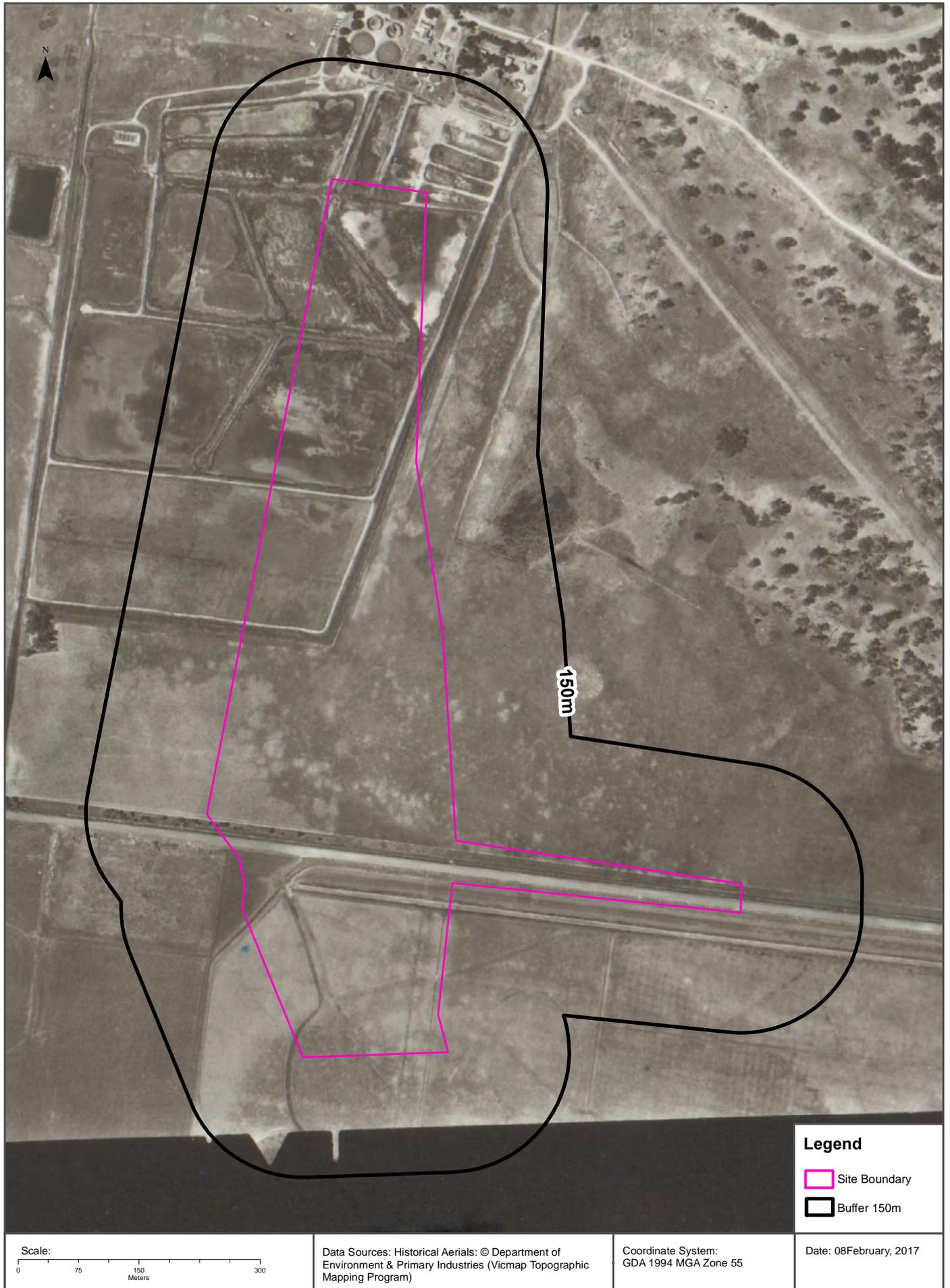
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 08February, 2017

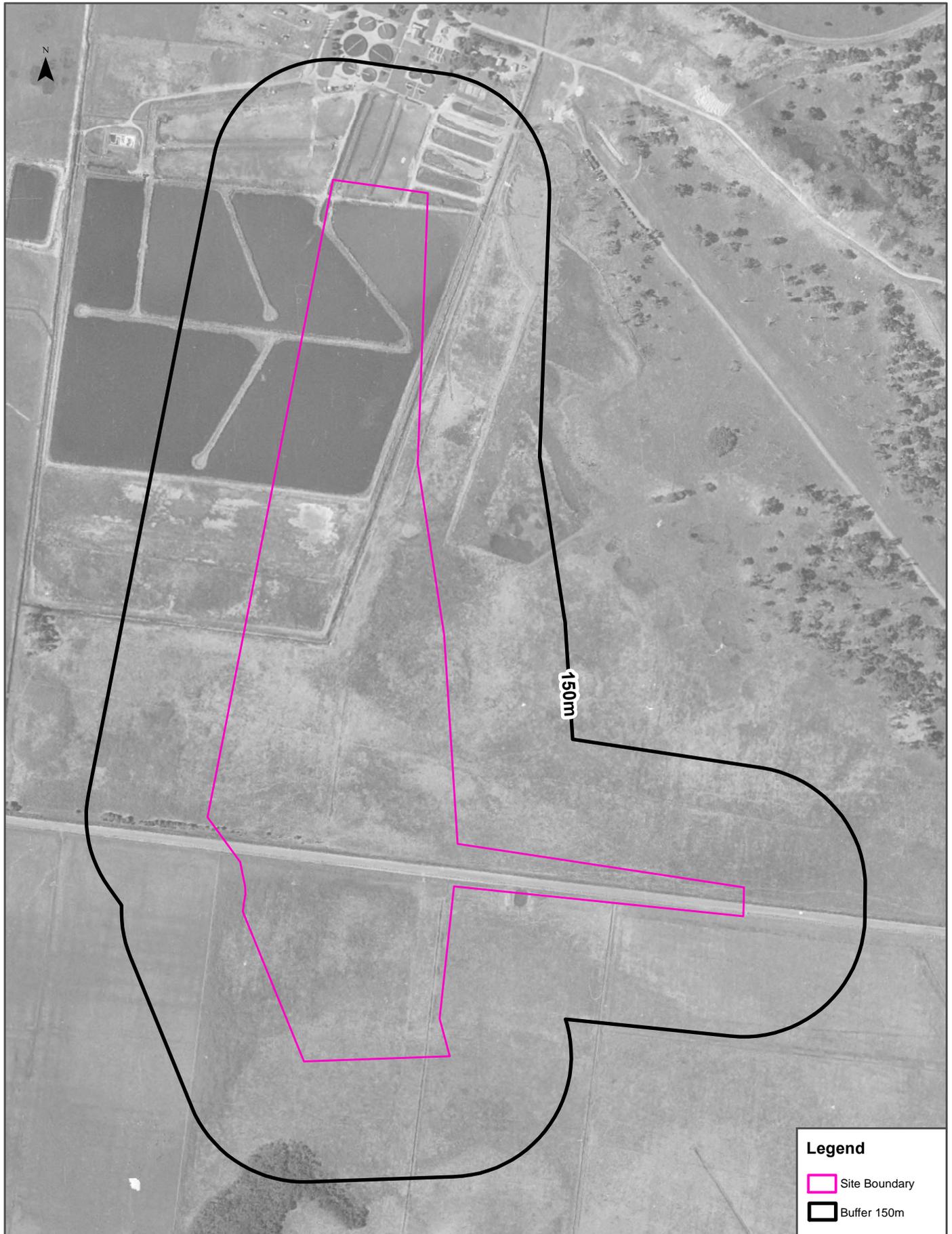
Aerial Imagery 1982

OSAR Proposed Road Alignments - Site 26 (Section 5)



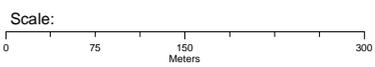
Aerial Imagery 1974

OSAR Proposed Road Alignments - Site 26 (Section 5)



Legend

- Site Boundary
- Buffer 150m



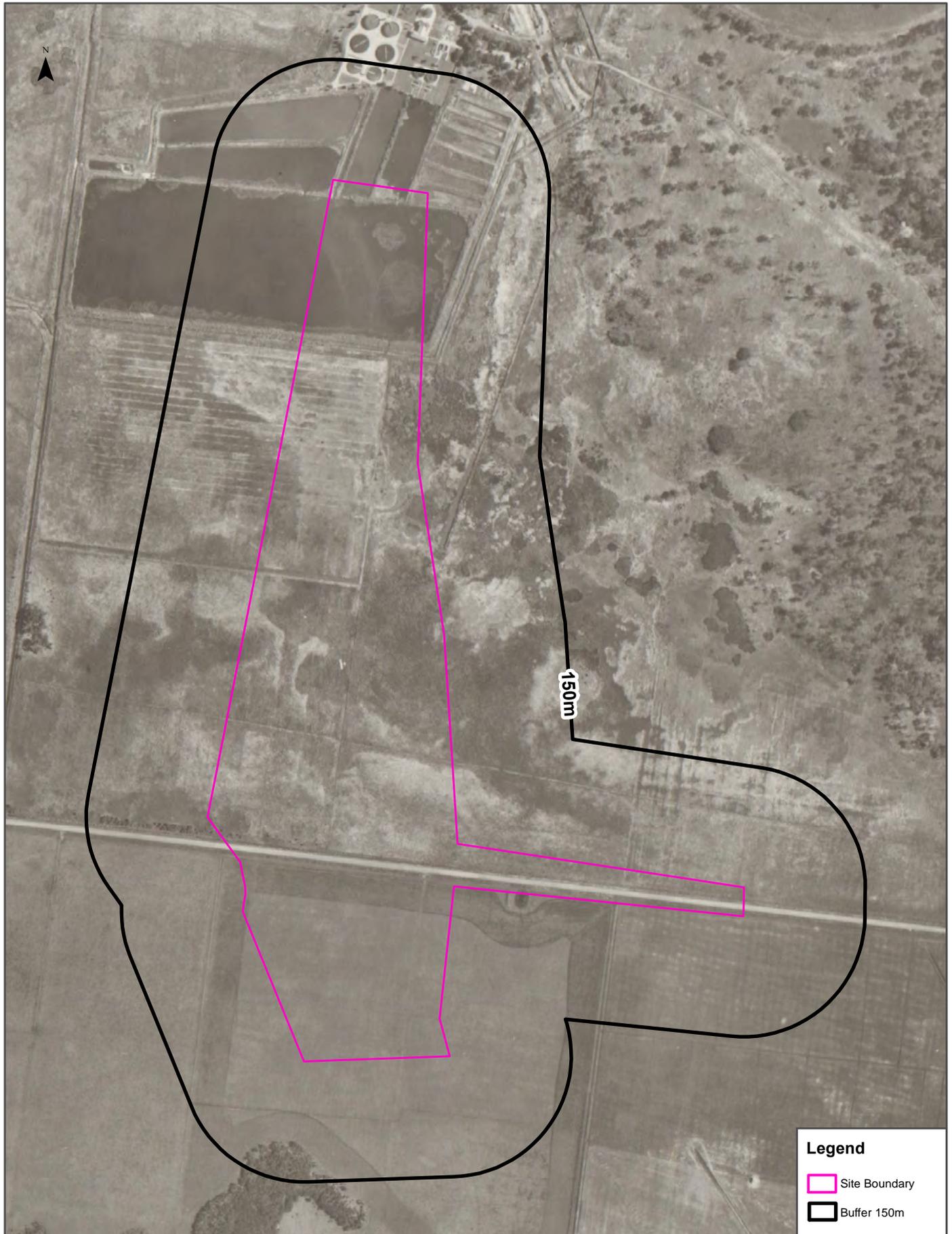
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 08February, 2017

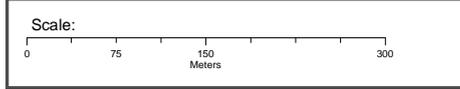
Aerial Imagery 1966

OSAR Proposed Road Alignments - Site 26 (Section 5)



Legend

- Site Boundary
- Buffer 150m



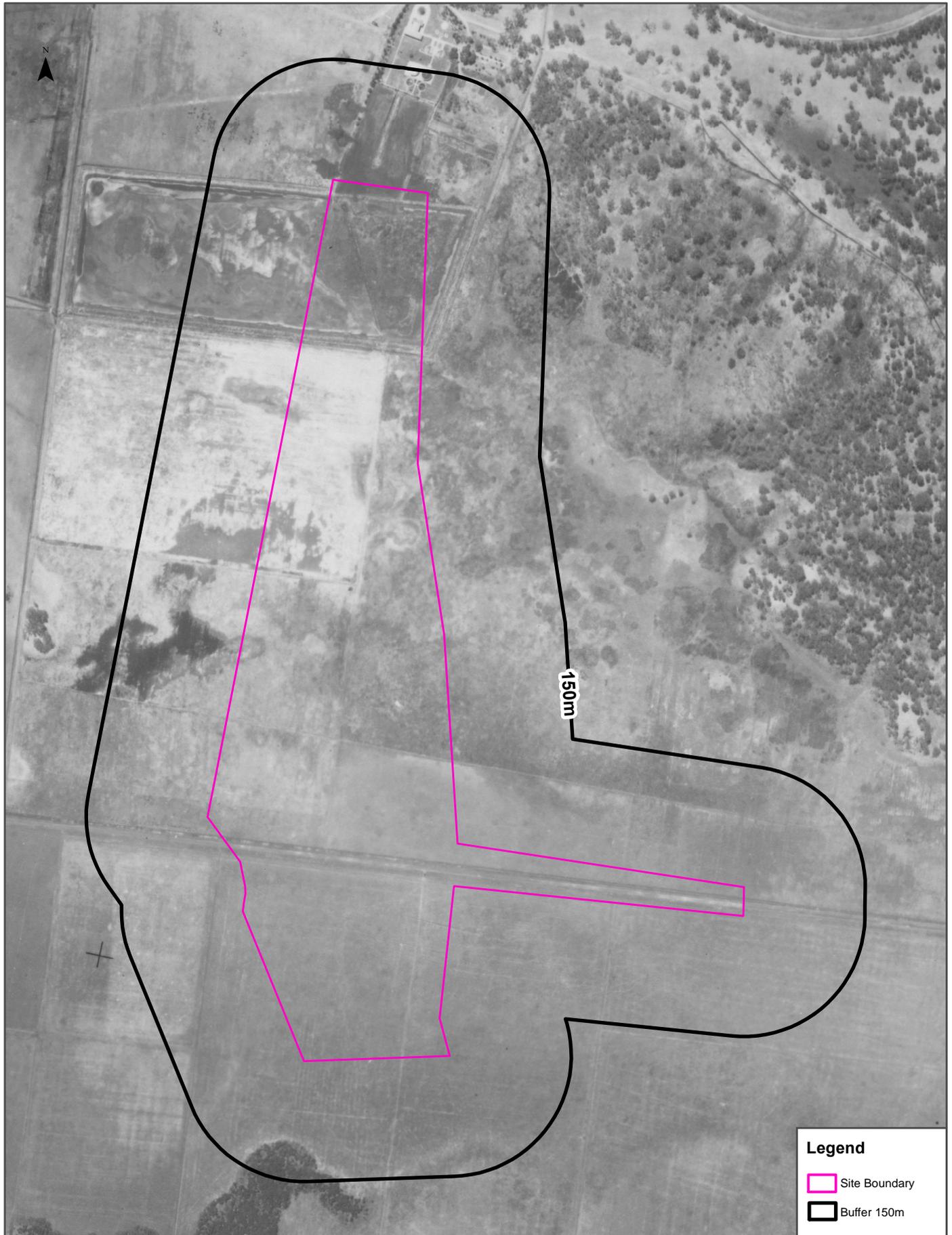
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

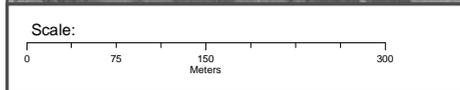
Date: 08February, 2017

Aerial Imagery 1951

OSAR Proposed Road Alignments - Site 26 (Section 5)



Legend	
	Site Boundary
	Buffer 150m



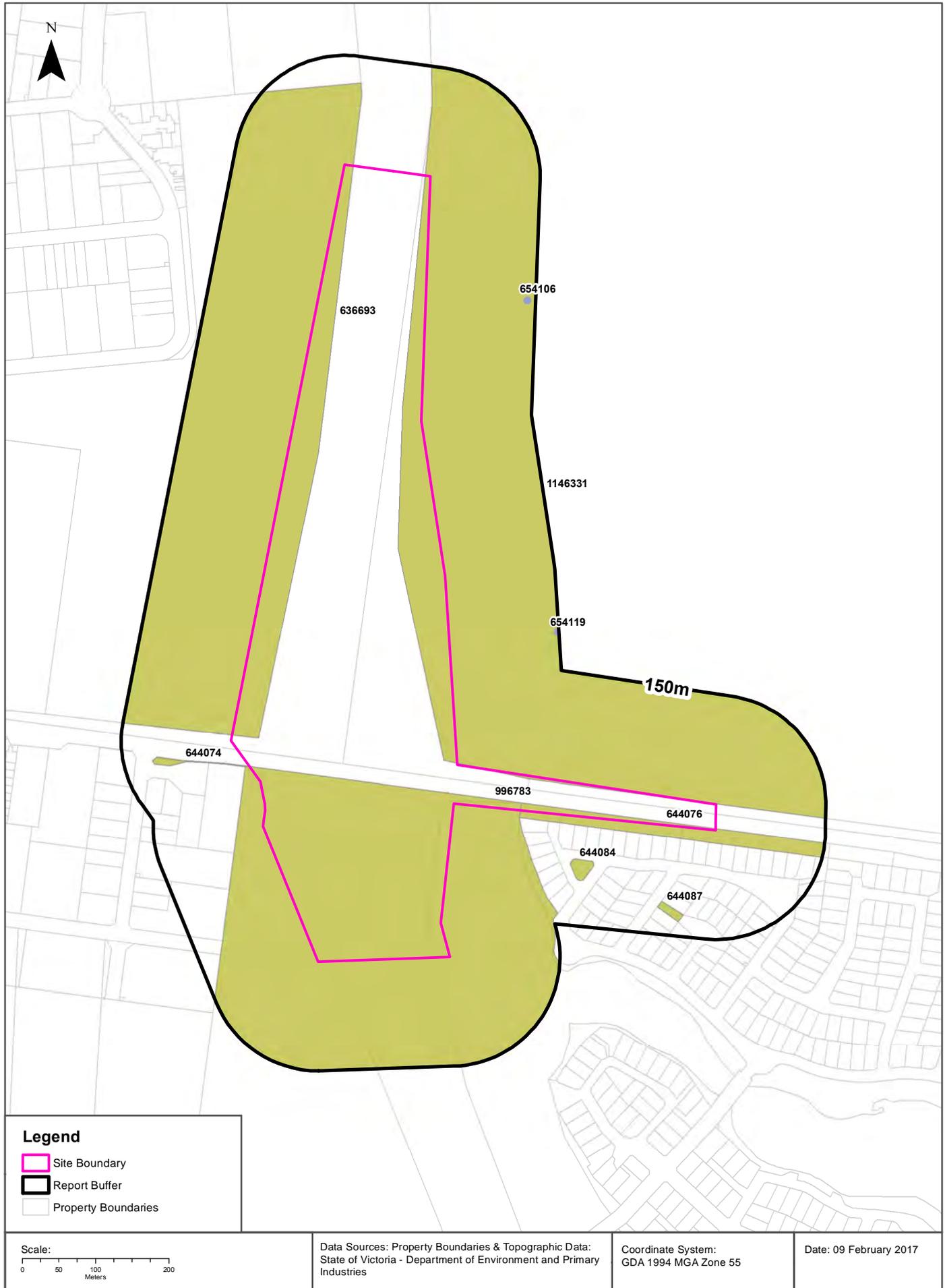
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 08February, 2017

Features of Interest

OSAR Proposed Road Alignments - Site 26 (Section 5)



Features of Interest

OSAR Proposed Road Alignments - Site 26 (Section 5)

Features of Interest

Features of Interest within 1km of the site:

Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
996783	reserve	park		0m	Onsite
636693	reserve	park	Woodlands Industrial Estate Environmental Wetland	0m	Onsite
644076	reserve	park		0m	Onsite
1146331	reserve	conservation park	Braeside Park	0m	Onsite
644074	reserve	park		5m	South West
644084	reserve	park		59m	South East
644087	reserve	park		104m	South East
654106	sign	emergency marker	BSP403	133m	North East
654119	sign	emergency marker	BSP505	143m	East

Features of Interest Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

OSAR Proposed Road Alignments - Site 26 (Section 5)

Hydrogeology

Description of aquifers within report buffer:

Description	Distance	Direction
Porous, extensive highly productive aquifers	0m	Onsite

Hydrogeology Map of Australia: Commonwealth of Australia (Geoscience Australia)
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Salinity

On-site Groundwater Salinity:

Groundwater Salinity	Percent Of Site Area
1,000 - 3,500 mg/l	100

Depth to Watertable

On-site Depth to Watertable:

Depth to Watertable	Percent Of Site Area
Less than 5 metres	100

Surface Elevation

Approximate on-site Surface Elevation:

Surface Elevation
3 AHDm to 4 AHDm

Basement Elevation

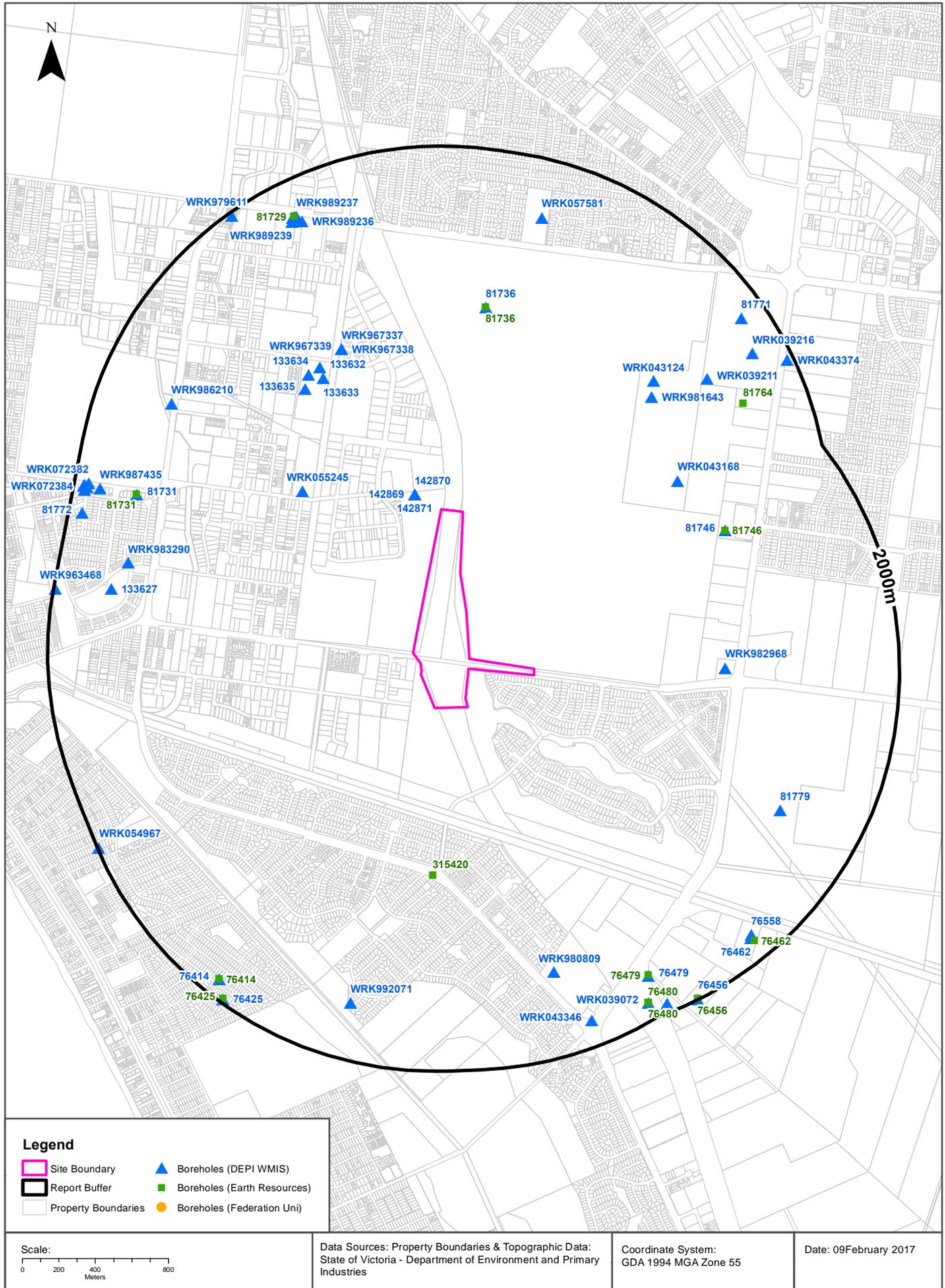
Approximate on-site Basement Elevation:

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
-47 AHDm to -39 AHDm

Groundwater Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 5)



Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 5)

Boreholes (DEPI WMIS)

Boreholes from the Department of Environment and Primary Industries' Water Measurement Information System, within the report buffer:

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
142870	Groundwater Investigation	0.00m-12.50m SANDY CLAY	0.00m-5.00m INNER LINING - CASING = Pvc 5.00m-12.50m INNER LINING - SCREEN = Pvc 0.00m-4.00m OUTER LINING - GRAVEL = Cement 4.00m-4.50m OUTER LINING - GRAVEL = Bentonite 4.50m-12.50m OUTER LINING - GRAVEL = Gravel			1999-10-18	166	North
142869	Groundwater Investigation	0.00m-14.40m SANDY CLAY	0.00m-11.40m INNER LINING - CASING = Pvc 11.40m-14.40m INNER LINING - SCREEN = Pvc 10.40m-10.90m OUTER LINING - GRAVEL = Bentonite 10.90m-14.40m OUTER LINING - GRAVEL = Gravel			1999-11-03	166	North
142871	Groundwater Investigation	0.00m-12.50m SANDY CLAY	0.00m-5.00m INNER LINING - CASING = Pvc 5.00m-12.00m INNER LINING - SCREEN = Pvc 0.00m-4.00m OUTER LINING - GRAVEL = Cement 4.00m-4.50m OUTER LINING - GRAVEL = Bentonite 4.50m-12.50m OUTER LINING - GRAVEL = Gravel			1999-10-18	166	North
WRK055245	Observation		0.00m-2.00m INNER LINING - CASING = Pvc 2.00m-8.00m INNER LINING - SCREEN = Pvc 0.00m-1.50m OUTER LINING - GRAVEL = Bentonite 1.50m-8.00m OUTER LINING - GRAVEL = Gravel			2010-02-23	765	North West
133633	Groundwater Investigation	0.00m-1.30m FILL SAND & SANDY CLAY 1.30m-6.00m SANDY CLAY				1998-01-21	968	North West
133635	Groundwater Investigation	0.00m-1.50m FILL SANDY LOAM 1.50m-2.00m CLAY 2.00m-6.50m SANDY CLAY				1998-01-21	996	North West
133632	Groundwater Investigation	0.00m-0.90m FILL CLAYEY SILT 0.90m-3.50m SANDY CLAY 3.50m-6.00m CLAYEY SAND				1998-01-21	1026	North West
WRK967337							1036	North
WRK967339							1036	North
WRK967338							1036	North
133634	Groundwater Investigation	0.00m-1.00m FILL FRAVEL & SANDY CLAY 1.00m-5.50m SANDY CLAY 5.50m-6.00m CLAYEY SAND				1998-01-21	1037	North West
WRK982968							1046	East
81736	Domestic	0.00m-0.30m TOP SOIL 0.30m-0.91m WHITE SAND 0.91m-3.61m CLAY 3.61m-7.01m CLAY AND FINE SAND 7.01m-9.71m SHELL GRIT AND SHALE WITH COARSE PARTS 9.71m-11.84m COARSE WATER BEARING CLAY 11.84m-16.15m CLAY SHELL GRIT AND SHALE 16.15m-24.38m SHELL, GRIT AND SHALE	0.00m-22.86m INNER LINING - CASING = Pvc 22.86m-24.38m INNER LINING - SCREEN = Pvc		22.86m-24.38m Clay	1983-08-10	1134	North
WRK043168	Irrigation					1982-01-01	1188	North East
WRK981643							1212	North East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK043124	Not Known					1988-01-01	1269	North East
81746	Domestic	0.00m-3.05m BROWN CLAY 3.05m-15.24m BROWN SANDY CLAY 15.24m-24.38m BLUE GREY GRAVELLY CLAY 24.38m-39.62m GREY GREEN SANDY CLAY 39.62m-45.41m GREY GREEN GRAVELLY CLAY	0.00m-4.57m INNER LINING - CASING = Pvc 0.00m-33.05m INNER LINING - CASING = Pvc 33.05m-38.10m INNER LINING - SCREEN = Pvc 39.92m-41.15m INNER LINING - SCREEN = Wire W S/Steel		33.05m-38.10m Clay 39.92m-41.15m Clay	1982-02-28	1294	East
WRK039211	Irrigation	0.00m-0.30m SURFACE SANDY SOIL 0.30m-4.00m FINE SAND 4.00m-30.50m CLAYEY SAND & STONE PIECES 30.50m-37.00m SILTY ORANGE SAND 37.00m-41.00m SILTY GREY SAND 41.00m-47.00m FIRM GREY MUDSTONE 47.00m-130.00m MEDIUM HARD BLUE SHALE 130.00m-162.00m HD BL SHALE SOME FRACS. - ALTER. TO BCP/2813	0.00m-106.00m INNER LINING - CASING = Mild Steel 106.00m-162.00m INNER LINING - SCREEN = Mild Steel		106.00m-162.00m Shale	1987-04-24	1524	North East
WRK980809							1535	South
81779	Not Known	0.00m-0.70m SANDY LOAM 0.70m-3.00m GREY CLAYEY SAND 3.00m-10.00m ORANGE SANDS 10.00m-14.00m GREY SANDS 14.00m-17.50m BLACK SANDS	0.00m-10.50m INNER LINING - CASING = Pvc 10.50m-16.50m INNER LINING - SCREEN = Pvc 16.50m-17.50m INNER LINING - CASING = Pvc 8.50m-17.50m OUTER LINING - GRAVEL = Not Known		10.50m-16.50m Sand	1988-12-08	1538	South East
WRK986210							1586	North West
WRK983290							1625	West
81731	Not Known	0.00m-7.62m FINE BLUE CLAY 7.62m-11.27m FINE ORANGE CLAY 11.27m-44.80m MED/COARSE SILTY SAND 44.80m-52.70m SILTY SILURIAN CLAY 52.70m-122.00m HARD SANDSTONE	0.00m-54.00m INNER LINING - CASING = Steel 54.00m-122.00m INNER LINING - SCREEN = Steel		54.00m-122.00m Sandstone	1983-02-16	1649	North West
WRK057581	Irrigation	0.00m-2.50m Sand 2.50m-3.20m sandy Clay 3.20m-6.50m Grey Clay 6.50m-13.30m Brown Sandy Clay 13.30m-18.50m Blue Clay 18.50m-20.50m Fine Sand 20.50m-29.50m Blue Clay 29.50m-32.00m Sand 32.00m-33.00m Blue Clay				2010-09-23	1678	North
WRK992071							1686	South
133627	Groundwater Investigation	0.00m-0.50m CLAY 0.50m-1.40m FILL CRUSEHD ROCK & SILTSTONE 1.40m-4.00m CLAY	1.00m-4.00m INNER LINING - SCREEN = Not Known		1.00m-4.00m Clay	1998-04-21	1687	West
WRK989236							1758	North
76479	Domestic	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-12.00m SANDY CLAY 12.00m-19.00m SAND (MEDIUM) 19.00m-24.38m CLAY IRONSTONE BANDS	0.00m-12.19m INNER LINING - CASING = Pvc Class 9 12.19m-18.29m INNER LINING - SCREEN = Pvc Class 9 18.29m-24.38m INNER LINING - CASING = Pvc Class 9		12.19m-18.29m Sand	1986-01-11	1767	South East
WRK989239							1779	North
WRK989237							1795	North
WRK989238							1798	North
81729	Domestic	0.00m-3.05m CLAY 3.05m-12.19m SANDY CLAY BROWN 12.19m-21.34m SAND BROWN 21.34m-36.58m SAND GREY 36.58m-49.38m SAND BLACK	0.00m-36.58m INNER LINING - CASING = Pvc 36.58m-38.10m INNER LINING - SCREEN = Pvc 38.10m-44.50m INNER LINING - CASING = Pvc 42.98m-45.72m INNER LINING - SCREEN = Pvc		36.58m-38.10m Sand 42.98m-45.72m Sand	1982-12-23	1801	North
WRK039216	Not Known					1988-01-01	1811	North East
WRK987435							1853	West
WRK043346							1853	South
76558	Not Known					1988-01-01	1858	South East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
81771	Irrigation	0.00m-0.30m TOP SOIL 0.30m-13.70m ORANGE/BROWN CLAY 13.70m-14.00m CLAY BOUND SAND 14.00m-40.80m SANDY CLAY AND LAYERS OF LIMESTONE 40.80m-43.20m COARSE SAND 43.20m-44.00m MUDSTONE	0.00m-40.70m INNER LINING - CASING = Mild Steel 40.70m-43.70m INNER LINING - SCREEN = Mild Steel 43.70m-44.00m INNER LINING - CASING = Mild Steel 0.00m-36.00m OUTER LINING - GRAVEL = Cement 36.00m-44.00m OUTER LINING - GRAVEL = Gravel		40.70m-43.70m Sand	1986-11-12	1860	North East
76462	Agro Industries, Domestic, Stock	0.00m-2.44m BLACK TOPSOIL 2.44m-3.00m GREY CLAY 3.00m-12.19m RED CLAY 12.19m-18.29m GREY SANDY CLAY 18.29m-21.34m COARSE SAND	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-21.34m INNER LINING - SCREEN = Pvc		18.29m-21.34m Sand	1982-12-27	1870	South East
76414	Domestic	0.00m-1.30m PEAT - CLAY 1.30m-2.30m SAND - WET 2.30m-4.57m CLAY - WET 4.57m-0.00m WHITE-GREY SANDSTONE	0.00m-3.96m INNER LINING - CASING = Pvc 3.96m-4.57m INNER LINING - SCREEN = Pvc		3.96m-4.57m Sandstone	1983-02-24	1901	South West
WRK039072	Domestic, Irrigation, Stock	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-18.00m SANDY CLAY 18.00m-22.00m SAND (MEDIUM) 22.00m-24.38m CLAY (IRONSTONE BANDS)	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-21.34m INNER LINING - SCREEN = Pvc 21.34m-24.38m INNER LINING - CASING = Pvc		18.29m-21.34m Sand	1986-01-09	1905	South East
WRK072382	Observation	0.00m-0.30m GRAss/topsoil 0.30m-0.50m FILL/rubblegritty material 0.50m-0.70m Ddark silty clay 0.70m-2.00m Stiff clay/yellow mottled 2.00m-4.00m CLAYey sand	0.00m-1.00m INNER LINING - CASING = Pvc 1.00m-4.00m INNER LINING - SCREEN = Pvc 0.00m-0.60m OUTER LINING - GRAVEL = Cement 0.60m-0.90m OUTER LINING - GRAVEL = Bentonite 0.90m-4.00m OUTER LINING - GRAVEL = Gravel		1.00m-4.00m Clay	2013-05-27	1921	West
WRK072379	Observation	0.00m-0.40m Rubble 0.40m-0.70m Black silt 0.70m-2.50m CLAY 2.50m-4.20m CLAYey sand/silt	0.00m-1.20m INNER LINING - CASING = Pvc 1.20m-4.20m INNER LINING - SLOT = Pvc 0.00m-0.80m OUTER LINING - GRAVEL = Cement 0.80m-1.00m OUTER LINING - GRAVEL = Bentonite 1.00m-4.20m OUTER LINING - GRAVEL = Gravel		1.20m-4.20m Clay	2013-05-28	1925	West
81772	Not Known		0.00m-95.80m INNER LINING - CASING = Galvanised Iron 96.00m-107.20m INNER LINING - SCREEN = Galvanised Iron			1987-03-27	1925	West
WRK072380	Observation	0.00m-0.40m FILLbuilding rubble/clay 0.40m-0.80m DArk peaty clay 0.80m-3.00m Mottled silty clay 3.00m-5.00m SANDy clay/silt 5.00m-6.00m wet sand & yellow clay	0.00m-1.50m INNER LINING - CASING = Pvc 1.50m-6.00m INNER LINING - SCREEN = Pvc 0.00m-0.50m OUTER LINING - GRAVEL = Cement 0.50m-1.40m OUTER LINING - GRAVEL = Bentonite 1.40m-6.00m OUTER LINING - GRAVEL = Gravel		1.50m-6.00m Clay	2013-05-27	1938	West
WRK072381	Observation	0.00m-0.30m FILL/disturbed clay some rubble 0.30m-0.70m CLAYey silt/black 0.70m-1.50m SANDy clay/dense 1.50m-2.50m SANDy clay/silty 2.50m-4.20m LIGHter clayey sand/wet	0.00m-1.20m INNER LINING - CASING = Pvc 1.20m-4.20m INNER LINING - SCREEN = Pvc 0.00m-0.60m OUTER LINING - GRAVEL = Cement 0.60m-0.90m OUTER LINING - GRAVEL = Bentonite 0.90m-4.20m OUTER LINING - GRAVEL = Gravel		1.20m-4.20m Clay	2013-05-27	1941	West
WRK055858	Irrigation						1945	South East
WRK072384	Observation	0.00m-0.40m CLAY& some rubble bricks concretesome rocks 0.40m-0.80m Slturbed clay 2.50m-3.00m SILTy clay & sand 3.00m-4.50m wet yellow clayey sand	0.00m-1.50m INNER LINING - CASING = Pvc 1.50m-4.50m INNER LINING - SCREEN = Pvc 0.00m-1.00m OUTER LINING - GRAVEL = Cement 1.00m-1.20m OUTER LINING - GRAVEL = Bentonite 1.20m-4.50m OUTER LINING - GRAVEL = Gravel		1.50m-4.50m Clay	2013-05-28	1946	West
WRK043374	Irrigation	0.00m-2.00m FINE & DRY SAND 2.00m-4.00m CLAY/SAND 4.00m-29.00m BRIGHTON GROUP 29.00m-42.00m SILTY SAND 42.00m-45.00m CLAY 45.00m-47.00m MUDSTONE CW 47.00m-66.00m MUDSTONE SOFT MW 66.00m-69.00m SANDSTONE HARD MW 69.00m-96.00m MUDSTONE FIRM MW	0.00m-90.00m INNER LINING - CASING = Pvc 90.00m-96.00m INNER LINING - SCREEN = Slotted Steel 0.00m-61.00m OUTER LINING - GRAVEL = Cement 61.00m-96.00m OUTER LINING - GRAVEL = Seal		90.00m-96.00m Mudstone	2009-01-21	1964	North East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
76425	Domestic	0.00m-0.61m LOAM 0.61m-1.06m WHITE SAND 1.06m-1.37m BLACK CLAY 1.37m-1.83m GREY SAND AND SHELLS 1.83m-2.27m BLACK CLAY 2.27m-2.74m GREY SAND AND SEA SHELLS 2.74m-3.35m BLACK CLAY 3.35m-3.66m GREY SAND AND SEA SHELLS 3.66m-4.57m BLACK CLAY 4.57m-5.18m GREY SAND AND SEA SHELLS	0.00m-4.57m INNER LINING - CASING = Pvc 4.57m-5.18m INNER LINING - SCREEN = Pvc		4.57m-5.18m Sand	1983-12-12	1977	South West
WRK979611							1978	North West
WRK963468	Domestic & Stock	0.00m-4.50m CLAY 4.50m-9.50m VERY FINE SAND, CLAY & SLIME	-0.30m-2.00m INNER LINING - CASING = Pvc 2.00m-9.50m INNER LINING - SCREEN = Stainless Steel			2004-03-05	1987	West
WRK054967	Domestic & Stock	0.00m-0.30m top soil 0.30m-8.00m old sea bed 8.00m-9.00m soft sandstone 9.00m-12.00m brown sands 12.00m-13.00m soft sandstone 13.00m-16.00m sands 16.00m-17.00m soft sandstone 17.00m-18.00m sands	0.00m-11.00m INNER LINING - CASING = Pvc 11.00m-17.00m INNER LINING - SCREEN = Pvc		0.00m-11.00m Sand 11.00m-17.00m Sand	2010-02-10	1991	South West
76456	Domestic, Stock	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-12.00m SANDY CLAY 12.00m-18.00m SAND (MEDIUM) 18.00m-22.25m CLAY WITH IRONSTONE BANDS	0.00m-12.19m INNER LINING - CASING = Pvc 12.19m-18.29m INNER LINING - SCREEN = Pvc 18.29m-22.25m INNER LINING - CASING = Pvc		12.19m-18.29m Sand	1983-11-23	1995	South East

Boreholes WMIS Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 5)

Boreholes (Earth Resources Database)

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

Bore Id	Bore Type	Company	Usage	Method	Status	Drill Date	Depth	Elevation	Accuracy (m)	Dist (m)	Direct
315420		Department of Manufacturing & Industry Development				31/12/1928	67.06	20.00	100	920	South
81736		Private Individual/Corporation	Domestic water supply	Rotary (diamond/drag bit)		10/08/1983	24.38		100	1135	North
81746		Private Individual/Corporation	Domestic water supply	Rotary (diamond/drag bit)		28/02/1982	45.41		100	1292	East
81764		Private Individual/Corporation	Public/town water supply	Air Percussion/Air Rotary		24/04/1987	127.60		100	1646	North East
81731		Local Government Authority	Irrigation	Air Percussion/Air Rotary		16/02/1983	122.00		100	1652	North West
76479		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		11/01/1986	24.38		100	1765	South East
81729		Private Individual/Corporation	Domestic water supply	Rotary (diamond/drag bit)		23/12/1982	49.38		100	1803	North
76462		Private Individual/Corporation	Stock/Poultry water supply	Air Percussion/Air Rotary		27/12/1982	21.34		100	1893	South East
76414		Private Individual/Corporation	Domestic water supply	Hand Auger		24/02/1983	4.57		100	1901	South West
76480		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		09/01/1986	24.38		100	1903	South East
76480		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		09/01/1986	24.38		100	1903	South East
76425		Private Individual/Corporation	Domestic water supply	Spear point (multiple system)		12/12/1983	5.18		100	1977	South West
76456		Private Individual/Corporation	Domestic & Stock water supply	Air Percussion/Air Rotary		23/11/1983	22.25		100	1993	South East

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)

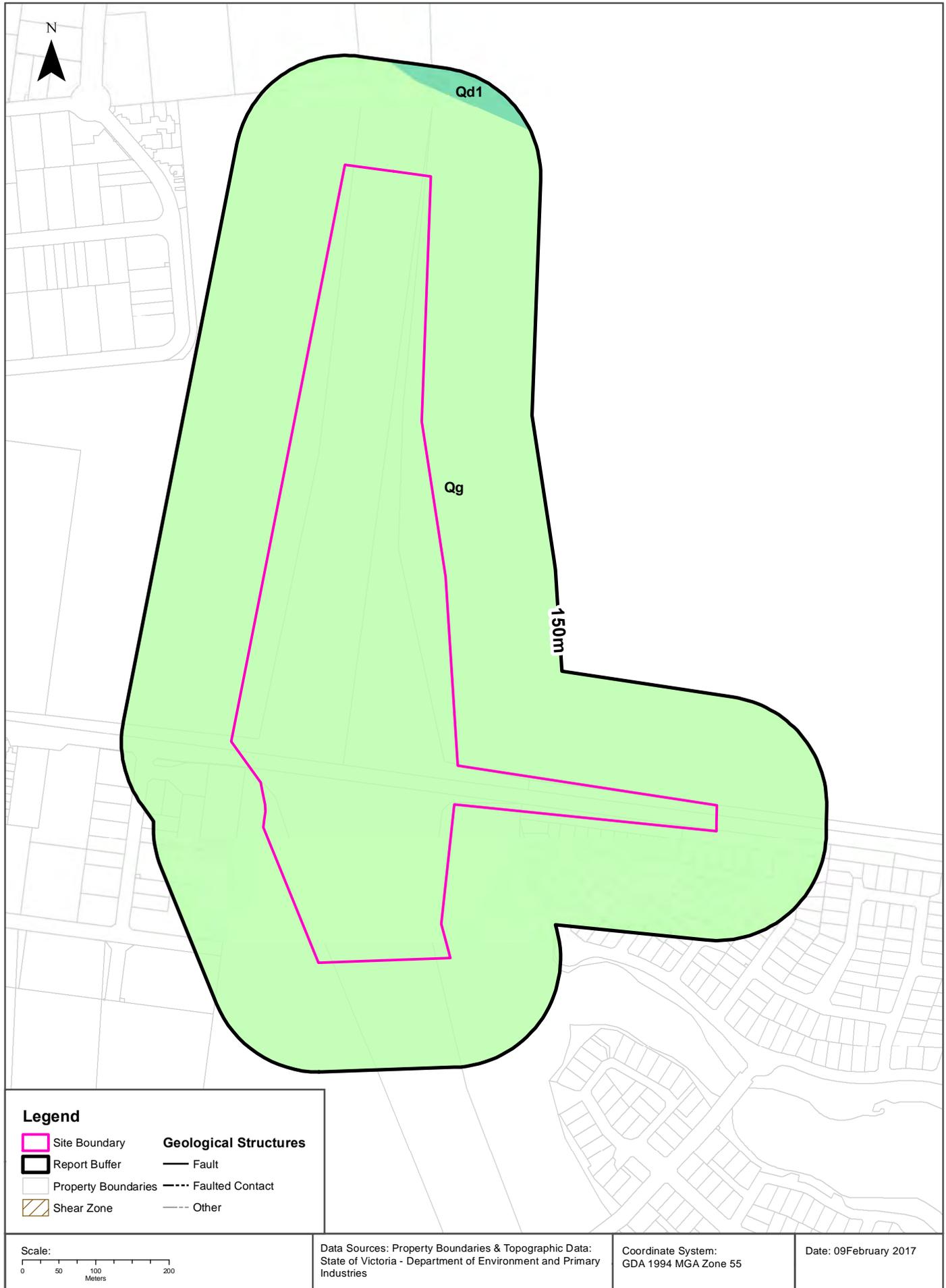
Boreholes from the Federation University Australia dataset, within the report buffer:

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

Boreholes FedUni Data Source: © Federation University Australia

Geology 1:250,000

OSAR Proposed Road Alignments - Site 26 (Section 5)



Geology

OSAR Proposed Road Alignments - Site 26 (Section 5)

Geological Units

What are the Geological Units onsite?

Symbol	Name	Description	Geological Age	Lithology	Dataset
Qg	coastal lagoon deposits (Qg): generic	Silt, clay: dark grey to black; variably consolidated	Holocene to Holocene	silt material (significant); clay lithology (significant)	1:250,000

What are the Geological Units within the report buffer?

Symbol	Name	Description	Geological Age	Lithology	Dataset
Qd1	inland dune deposits (Qd1): generic	Sand, silt, clay: friable to consolidated; well sorted; includes both lunette deposits and deposits of longitudinal dunes	Quaternary to Quaternary	sand (significant); silt material (significant); clay lithology (significant)	1:250,000
Qg	coastal lagoon deposits (Qg): generic	Silt, clay: dark grey to black; variably consolidated	Holocene to Holocene	silt material (significant); clay lithology (significant)	1:250,000

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Geology

OSAR Proposed Road Alignments - Site 26 (Section 5)

Geological Structures

What are the Geological Faults or Faulted Contacts onsite?

Map Id	Type	Name	Contact	Positional Accuracy	Dataset
No features					1:250,000

What are the Dykes, Marker Beds and Veins onsite?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No Data Coverage					

What are the Shear Zones onsite (1:250,000 scale)?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No features					1:250,000

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

Map Id	Type	Name	Contact	Positional Accuracy	Dataset
No features					1:250,000

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

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No Data Coverage					

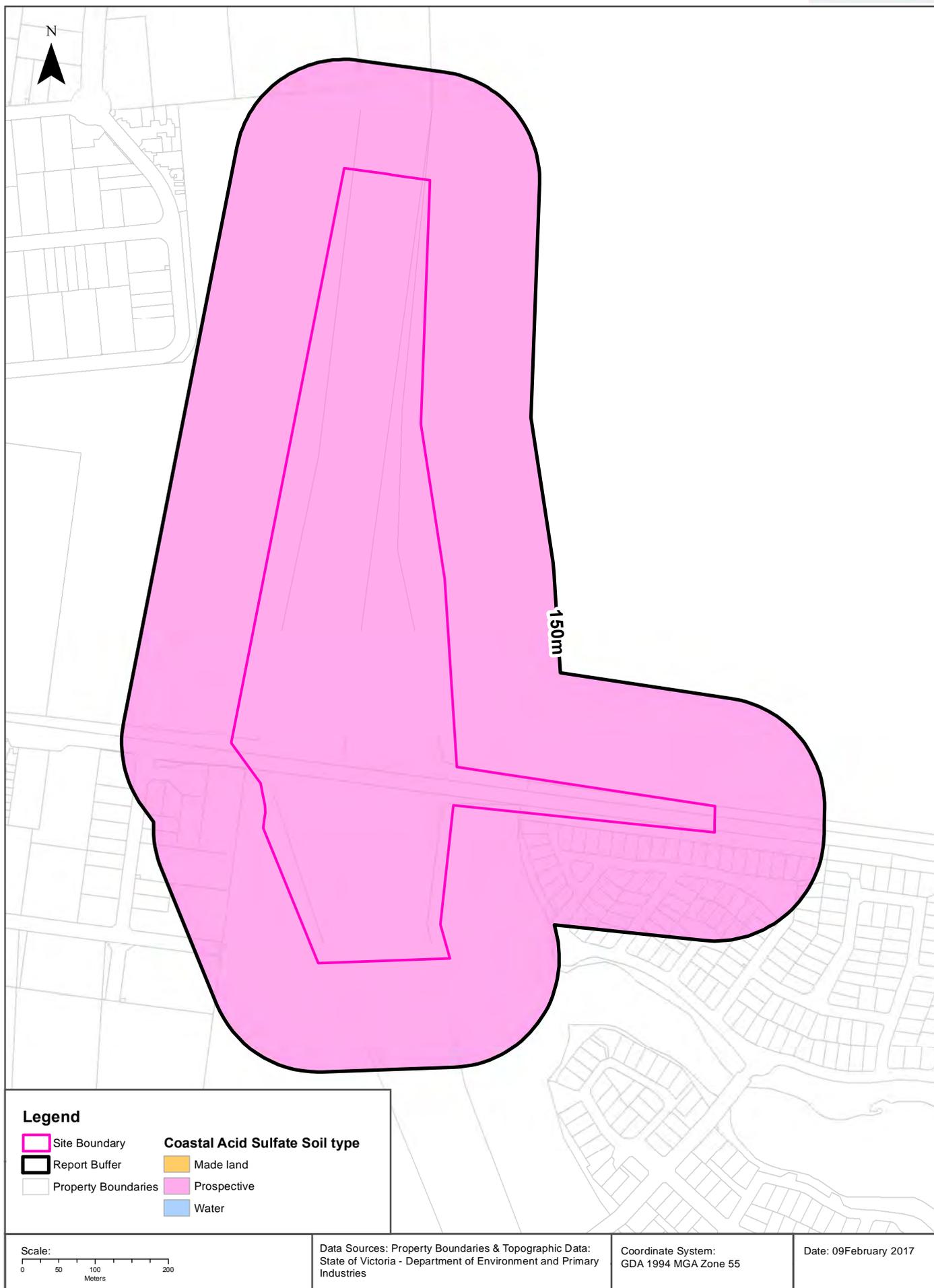
What are the Shear Zones within the report buffer (1:250,000 scale)?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No features					1:250,000

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Coastal Acid Sulfate Soils

OSAR Proposed Road Alignments - Site 26 (Section 5)



Coastal Acid Sulfate Soils

OSAR Proposed Road Alignments - Site 26 (Section 5)

Coastal Acid Sulfate Soils

What are the on-site Coastal Acid Sulfate Soil types?

Coastal Acid Sulfate Soil Types
Prospective

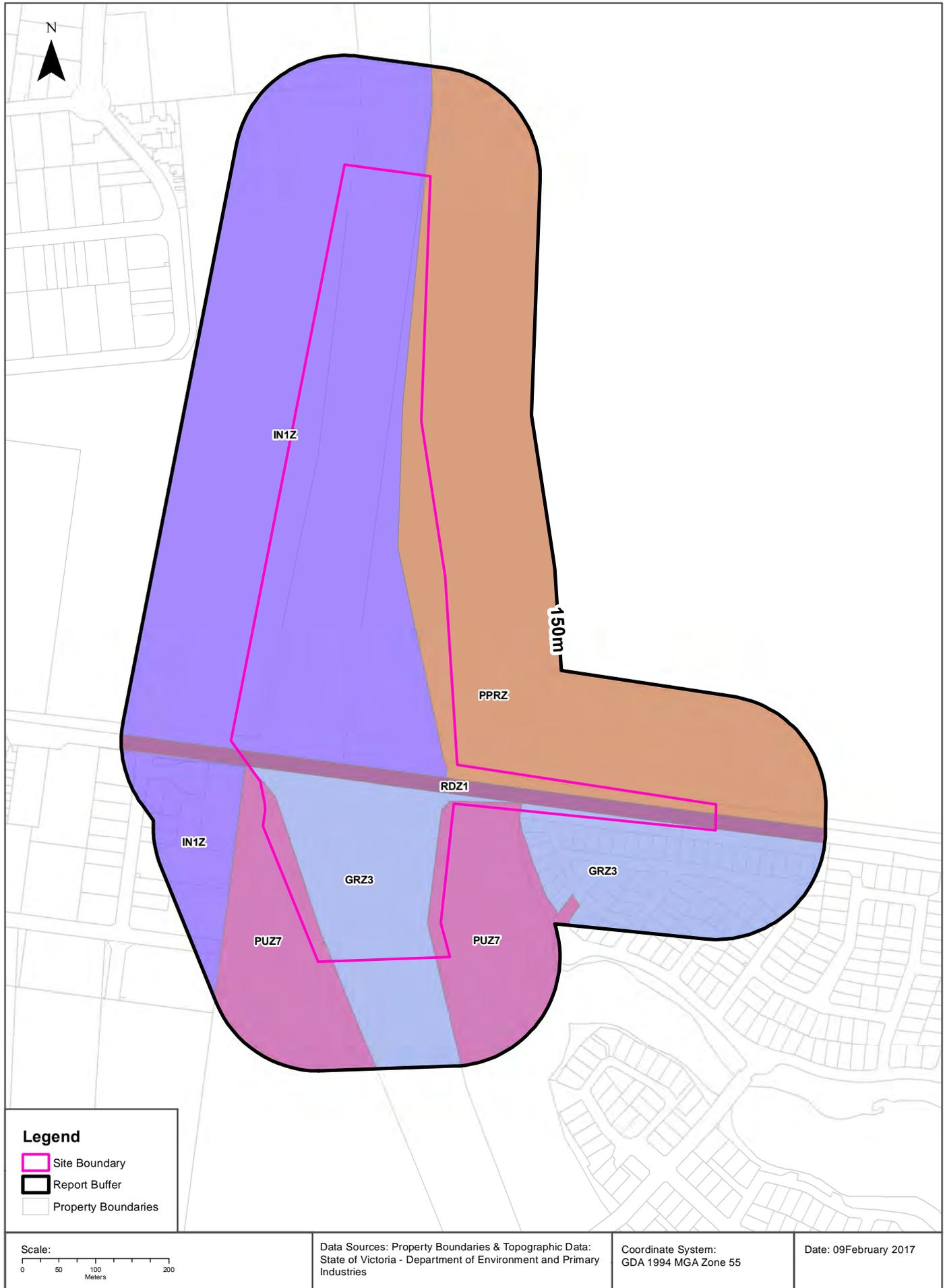
What are the Coastal Acid Sulfate Soil types within the report buffer?

Coastal Acid Sulfate Soil Types	Distance	Direction
Prospective	0m	Onsite

Coastal Acid Sulfate Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Planning Zones

OSAR Proposed Road Alignments - Site 26 (Section 5)



Planning Zones

OSAR Proposed Road Alignments - Site 26 (Section 5)

Planning Zones

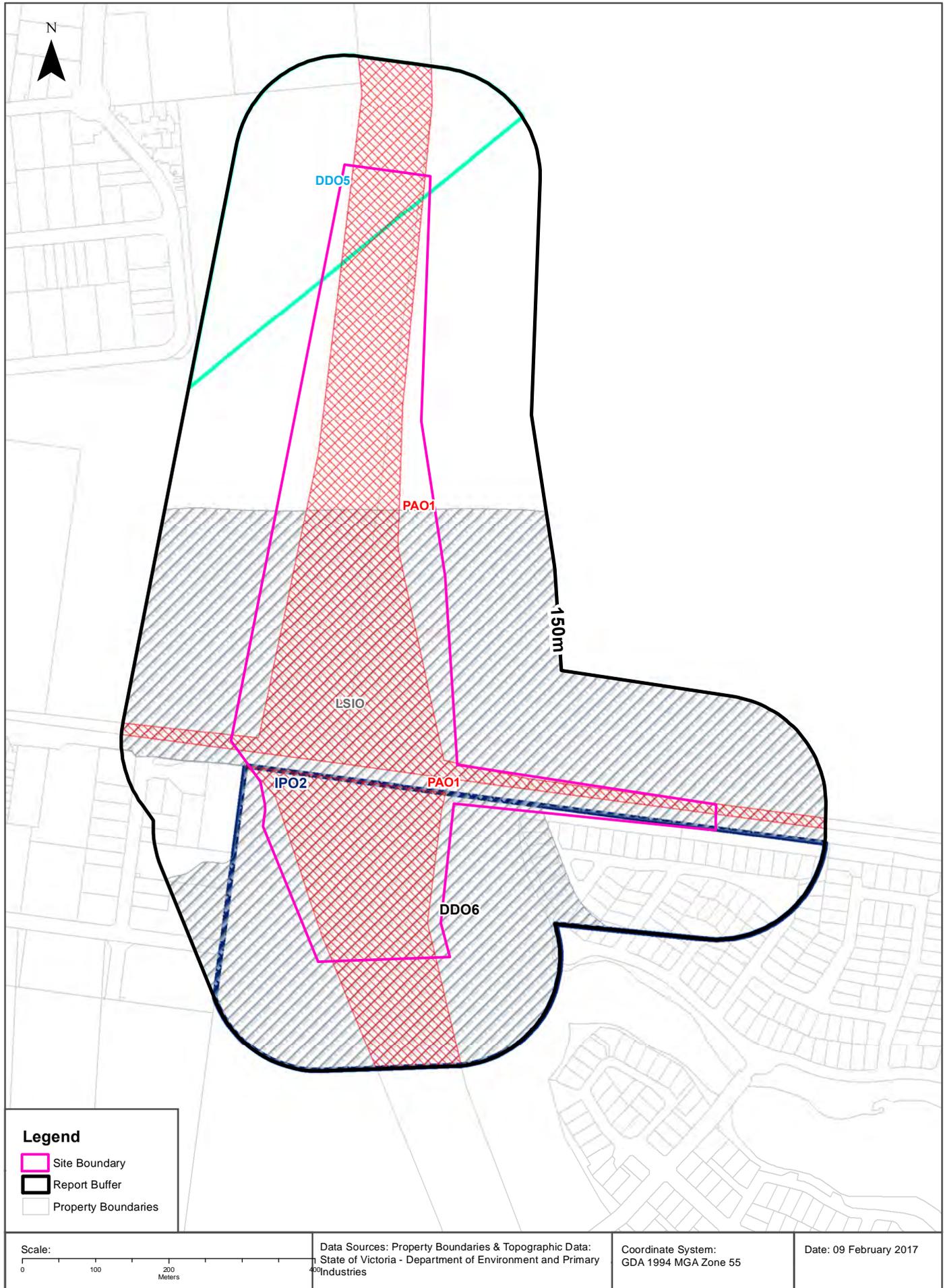
Planning zones within the report buffer:

Zone Code	Description	Distance	Direction
IN1Z	INDUSTRIAL 1 ZONE	0m	Onsite
GRZ3	GENERAL RESIDENTIAL ZONE - SCHEDULE 3	0m	Onsite
PPRZ	PUBLIC PARK AND RECREATION ZONE	0m	Onsite
RDZ1	ROAD ZONE - CATEGORY 1	0m	Onsite
PUZ7	PUBLIC USE ZONE - OTHER PUBLIC USE	0m	Onsite
IN1Z	INDUSTRIAL 1 ZONE	5m	South West

Planning Zone Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Planning Overlays

OSAR Proposed Road Alignments - Site 26 (Section 5)



Planning Overlays

OSAR Proposed Road Alignments - Site 26 (Section 5)

Planning Overlays

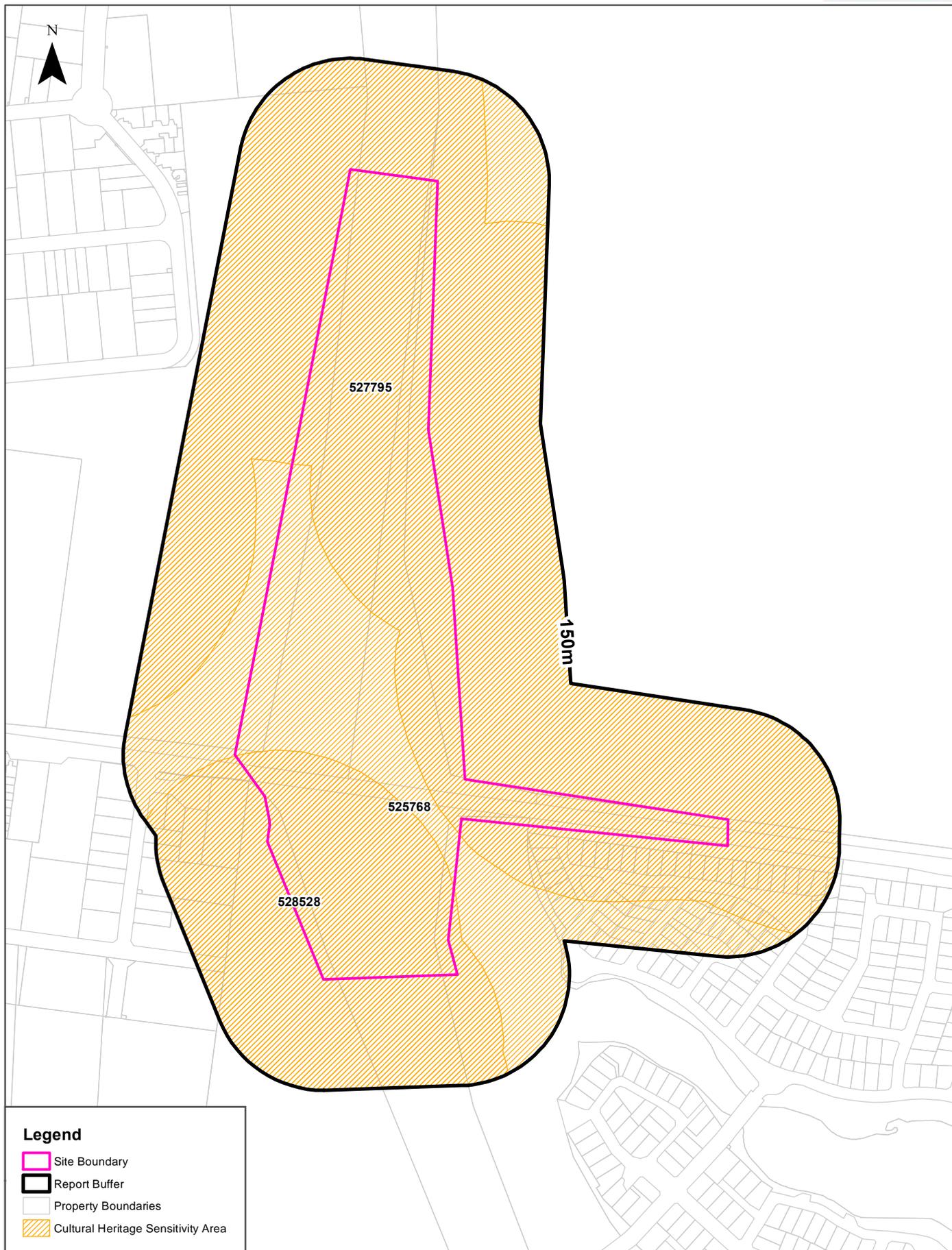
Planning overlays within the report buffer:

Zone Code	Description	Distance	Direction
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	0m	Onsite
PAO1	PUBLIC ACQUISITION OVERLAY 1	0m	Onsite
DDO6	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 6	0m	Onsite
IPO2	INCORPORATED PLAN OVERLAY - SCHEDULE 2	0m	Onsite
DDO5	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 5	0m	Onsite

Planning Overlay Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

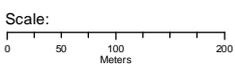
Cultural Heritage Sensitivity

OSAR Proposed Road Alignments - Site 26 (Section 5)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Cultural Heritage Sensitivity Area



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary
Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Cultural Heritage Sensitivity

OSAR Proposed Road Alignments - Site 26 (Section 5)

Cultural Heritage Sensitivity

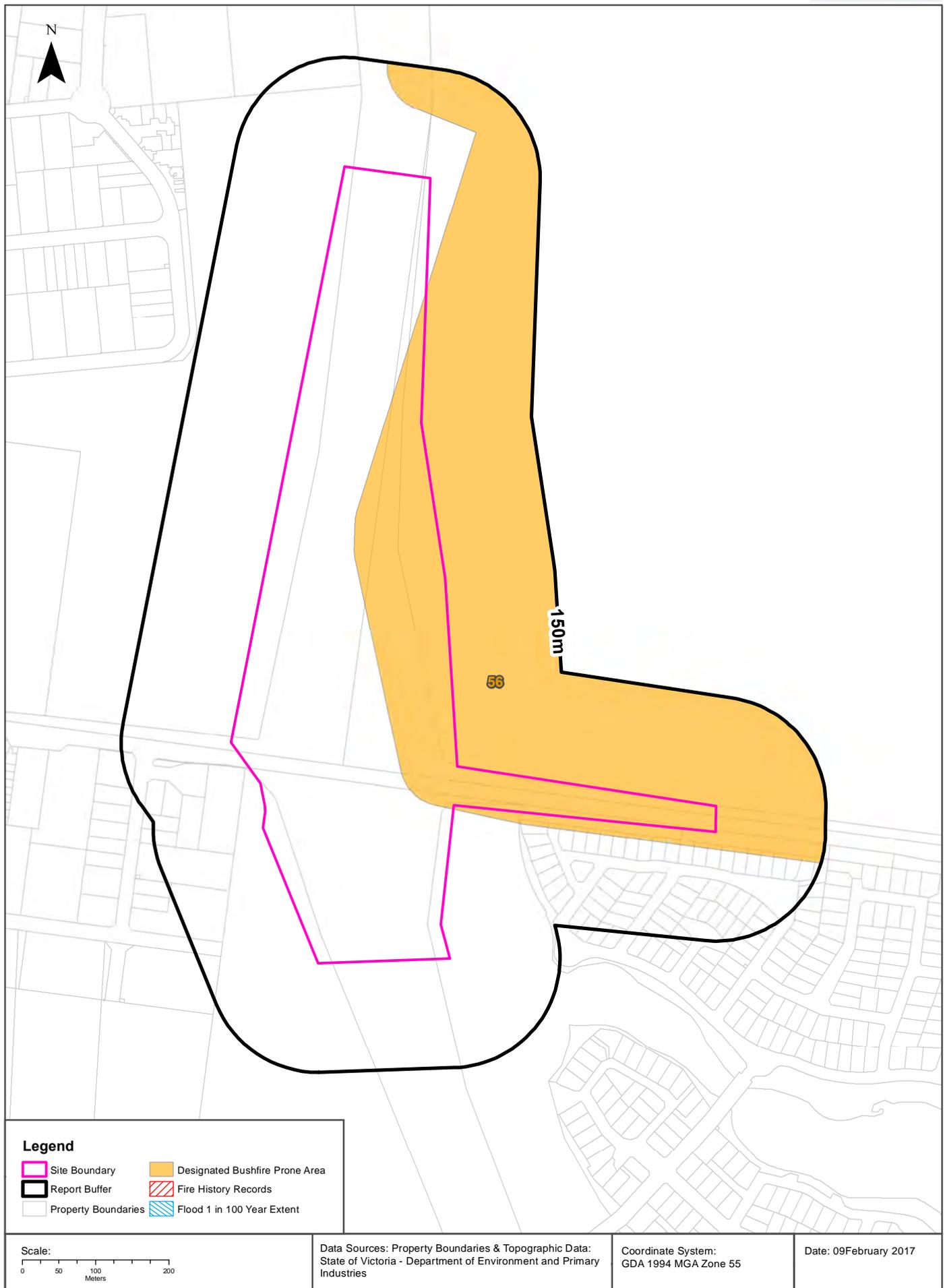
Areas of Cultural Heritage Sensitivity as specified in Division 3 of Part 2 in the Aboriginal Heritage Regulations 2007, within the report buffer:

Map Id	Culturally Sensitive	Distance	Direction
525768	YES	0m	Onsite
527795	YES	0m	Onsite
528528	YES	0m	Onsite

Cultural Heritage Sensitivity Data Custodian: State Government Victoria - Dept of Planning and Community Development
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Natural Hazards

OSAR Proposed Road Alignments - Site 26 (Section 5)



Natural Hazards

OSAR Proposed Road Alignments - Site 26 (Section 5)

Bushfire Prone Areas

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

Map ID	Feature	Plan No	LGA	Gazetted Date	Distance	Direction
56	Designated Bushfire Prone Area	LEGL./14-158	KINGSTON	07/04/2014	0m	Onsite

Bushfire Prone Area Data Custodian: State Government Victoria - Dept of Transport, Planning & Local Infrastructure
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Fire History

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

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

Fire History Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Flood - 1 in 100 year modelled flood extent

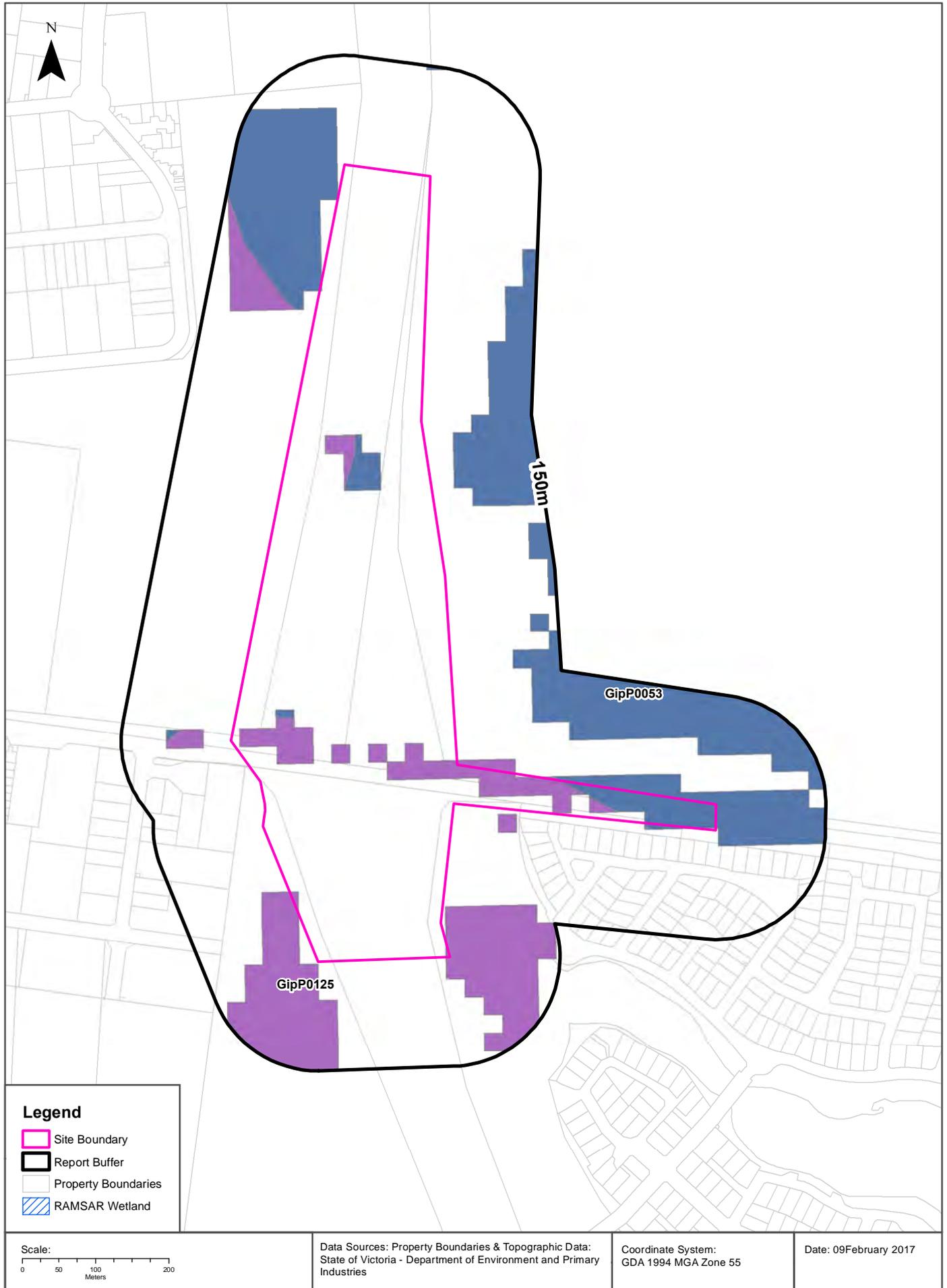
What 1 in 100 year flood extent features exist within the report buffer?

Feature	Source	Method	Scale	Modified Date	Distance	Direction
N/A	No records within buffer					

Flood Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Ecological Constraints - Native Vegetation 2005 & RAMSAR Wetlands

OSAR Proposed Road Alignments - Site 26 (Section 5)



Ecological Constraints

OSAR Proposed Road Alignments - Site 26 (Section 5)

Native Vegetation (Modelled 2005 Ecological Vegetation Classes)

What native vegetation exists within the report buffer?

Veg Code	EVC Name	EVCode	Group	Subgroup	Bioregion	Conservation Status	Geographic Occurance	Distance
GipP0053	Swamp Scrub	0053	Riparian Scrubs or Swampy Scrubs and Woodlands		Gippsland Plain	Endangered	Common	0m
GipP0125	Plains Grassy Wetland	0125	Wetlands	Freshwater	Gippsland Plain	Endangered	Naturally Restricted	0m

Native Vegetation Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

RAMSAR Wetlands

What RAMSAR wetland areas exist within the report buffer?

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

RAMSAR Wetland Area Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

USE OF REPORT – APPLICABLE TERMS

The following terms apply to any person (End User) who is given the Report by the person who purchased the Report from Lotsearch Pty Ltd (ABN: 89 600 168 018) (Lotsearch) or who otherwise has access to the Report. The contract terms that apply between Lotsearch and the purchaser of the Report are specified in the order form pursuant to which the Report was ordered and the terms set out below are of no effect as between Lotsearch and the purchaser of the Report.

1. End User acknowledges and agrees that:
 - (a) the Report is compiled from or using content (**Third Party Content**) which is comprised of:
 - (i) content provided to Lotsearch by third party content suppliers with whom Lotsearch has contractual arrangements or content which is freely available (**Third Party Content Suppliers**);
 - (j) content which is derived from content described in paragraph (i);
 - (b) Lotsearch does not take any responsibility for or give any warranty in relation to the accuracy or completeness of any Third Party Content included in the Report;
 - (c) the Third Party Content Suppliers do not constitute an exhaustive set of all repositories or sources of information available in relation to the property which is the subject of the Report (**Property**);
 - (d) Lotsearch has not undertaken any physical inspection of the property;
 - (e) Lotsearch does not warrant that all land uses or features whether past or current are identified in the Report;
 - (f) the Report does not include any information relating to the actual state or condition of the Property;
 - (g) the Report should not be used or taken to indicate or exclude actual fitness or unfitness of a Property for any particular purpose;
 - (h) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
 - (i) the End User should undertake its own inspections of the Property to satisfy itself that there are no defects or failures.
2. The End User may not make the Report or any copies or extracts of the report or any part of it available to any other person. If End User wishes to provide the Report to any other person or make extracts or copies of the Report, it must contact the purchaser of the Report before doing so to ensure the proposed use is consistent with the contract terms between Lotsearch and the purchaser.
3. Neither Lotsearch (nor any of its officers, employees or agents) nor any of its Third Party Content Suppliers will have any liability to End User or any person to whom End User provides the Report and End User must not represent that Lotsearch or any of its Third Party Content Suppliers accepts liability to any such person or make any other representation to any such person on behalf of Lotsearch or any Third Party Content Supplier.
4. End User must not remove any copyright notices, trade marks, digital rights management information, other embedded information, disclaimers or limitations from the Report or authorise any person to do so.
5. End User acknowledges and agrees that Lotsearch and Third Party Content Suppliers retain ownership of all copyright, patent, design right (registered or unregistered), trade marks (registered or unregistered), database right or other data right, moral right or know how or any other intellectual property right in any Report or any other item, information or data included in or provided as part of a Report.
6. To the extent permitted by law and subject to paragraph 7, all implied terms, representations and warranties whether statutory or otherwise relating to the subject matter of these terms other than as expressly set out in these terms are excluded.
7. Subject to paragraph 8, Lotsearch excludes liability to End User for loss or damage of any kind, however caused, due to Lotsearch's negligence, breach of contract, breach of any law, in equity, under indemnities or otherwise, arising out of all acts, omissions and events whenever occurring.
8. Lotsearch acknowledges that if, under applicable State, Territory or Commonwealth law, End User is a consumer certain rights may be conferred on End User which cannot be excluded, restricted or modified. If so, and if that law applies to Lotsearch, then, Lotsearch's liability is limited to the greater of an amount equal to the cost of resupplying the Report and the maximum extent permitted under applicable laws.
9. Subject to paragraph 7, neither Lotsearch nor the End User is liable to the other for any indirect, incidental, consequential, special or exemplary damages arising out of or in relation to these terms.
10. These terms are subject to New South Wales law.

Environmental Risk and Planning Report

Proposed Road Alignments - Mordialloc Bypass (Section 6)

Report Buffer: 150m

Report Date: 09 Feb 2017 13:22:03

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.

Table of Contents

Location Confidences.....	2
Dataset Listings	3
Site Location Aerial	5
Topographic Features	6
Elevation Contours.....	7
EPA Records.....	8
Waste Management Facilities	11
Historical Business Activities.....	12
Historical Aerial Imagery & Maps	16
Features of Interest	23
Hydrogeology & Groundwater.....	25
Groundwater Boreholes	26
Geology.....	33
Coastal Acid Sulfate Soils	36
Planning Zones	38
Planning Overlays	40
Cultural Heritage Sensitivity	42
Natural Hazards	44
Ecological Constraints.....	45
Terms & Conditions.....	47

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 "LocConf". These codes lookup to the following location confidences:

LC Code	Location Confidence
1	Georeferenced to the site location / premise or part of site
2	Georeferenced with the confidence of the general/approximate area
3	Georeferenced to the road or rail
4	Georeferenced to the road intersection
5	Feature is a buffered point
6	Land adjacent to Georeferenced Site
7	Georeferenced to a network of features

Dataset Listing

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

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features in Buffer
Topographic and Cadastre data	State Government Victoria - Department of Environment, Land, Water & Planning	06/02/2017	06/02/2017	Quarterly	-	-	-
Current Priority Sites	Environment Protection Authority (Vic)	06/02/2017	31/12/2016	Monthly	0	0	0
Former Priority Sites & other Pollution Notices	Environment Protection Authority (Vic)	06/02/2017	05/01/2017	Monthly	0	0	0
EPA Environmental Audit Reports	Environment Protection Authority (Vic)	06/02/2017	24/11/2016	Monthly	0	0	0
Groundwater Zones with Restricted Uses	Environment Protection Authority (Vic)	06/02/2017	27/01/2017	Monthly	0	0	0
Licensed Activities	Environment Protection Authority (Vic)	06/02/2017	29/01/2017	Monthly	0	0	0
Former Licensed Activities	Environment Protection Authority (Vic)	06/02/2017	29/01/2017	Monthly	0	0	0
Works Approvals	Environment Protection Authority (Vic)	06/02/2017	06/02/2017	Monthly	0	0	0
National Waste Management Site Database	Geoscience Australia	06/02/2017	15/11/2012	Quarterly	0	0	0
Statewide Waste and Resource Recovery Infrastructure Plan Facilities	State Government Victoria - Department of Sustainability	27/11/2014	31/12/2012	None planned	0	0	0
EPA Prescribed Industrial Waste	Environment Protection Authority (Vic)	04/01/2017	04/01/2017	Quarterly	0	0	0
UBD Business to Business Directory 1991	Hardie Grant			Not required	1	15	20
UBD Business to Business Directory 1991 - Garages & Service Stations	Hardie Grant			Not required	0	0	0
UBD Business Directory 1980	Hardie Grant			Not required	0	0	0
UBD Business Directory 1980 Drycleaners, Motor Garages & Service Stations	Hardie Grant			Not required	0	0	0
UBD Business Directory 1960 Drycleaners, Motor Garages & Service Stations	Hardie Grant			Not required	0	0	0
UBD Business Directory 1950	Hardie Grant			Not required	0	0	0
UBD Business Directory 1950 Drycleaners, Motor Garages & Service Stations	Hardie Grant			Not required	0	0	0
Features of Interest	State Government Victoria - Department of Environment, Land, Water & Planning	03/02/2017	27/01/2017	Quarterly	3	4	4
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1	1	1
Groundwater Salinity	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Unknown	1	-	-
Depth to Watertable	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Unknown	1	-	-
Surface Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Unknown	1	-	-
Basement Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Unknown	1	-	-
Groundwater Boreholes WMIS	State Government Victoria - Department of Environment, Land, Water & Planning	29/04/2016	28/04/2016	Annually	0	0	65
Groundwater Boreholes Earth Resources Database	The State of Victoria, Department of Economic Development, Jobs, Transport and Resources	29/04/2016	17/02/2010	As required	0	0	10
Groundwater Boreholes Fed Uni	Federation University Australia	29/04/2016	07/01/2014	As required	0	0	0
Geological Units 1:250,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	2	-	2
Geological Structures 1:250,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	0	-	0

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features in Buffer
Shear zones 250k	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	0	-	0
Coastal Acid Sulfate Soils	The State of Victoria, Department of Economic Development, Jobs, Transport and Resources	15/07/2016	30/03/2011	None planned	1	1	1
Planning Scheme Zones	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	3	5	7
Planning Scheme Overlay	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	4	4	4
Cultural Heritage Sensitivity	State Government Victoria - Department of Planning and Community Development	03/02/2017	27/01/2017	Quarterly	3	5	5
Bushfire Prone Area	State Government Victoria - Department of Transport, Planning and Local Infrastructure	27/01/2017	27/01/2017	Quarterly	0	0	0
Fire History	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	0	0	0
Flood - 1 in 100 Year Modelled Flood Extent	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	0	0	0
Native Vegetation (Modelled 2005 Ecological Vegetation Classes)	State Government Victoria - Department of Environment, Land, Water & Planning	13/01/2015	31/12/2005	None planned	3	3	3
RAMSAR Wetlands	State Government Victoria - Department of Environment, Land, Water & Planning	13/01/2015	24/06/2013	None planned	0	0	0

Aerial Imagery 2016

OSAR Proposed Road Alignments - Site 26 (Section 6)

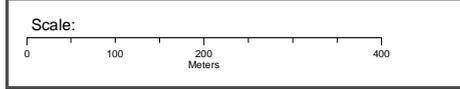


150m

Legend

- Site Boundary
- Buffer 150m

Google Earth



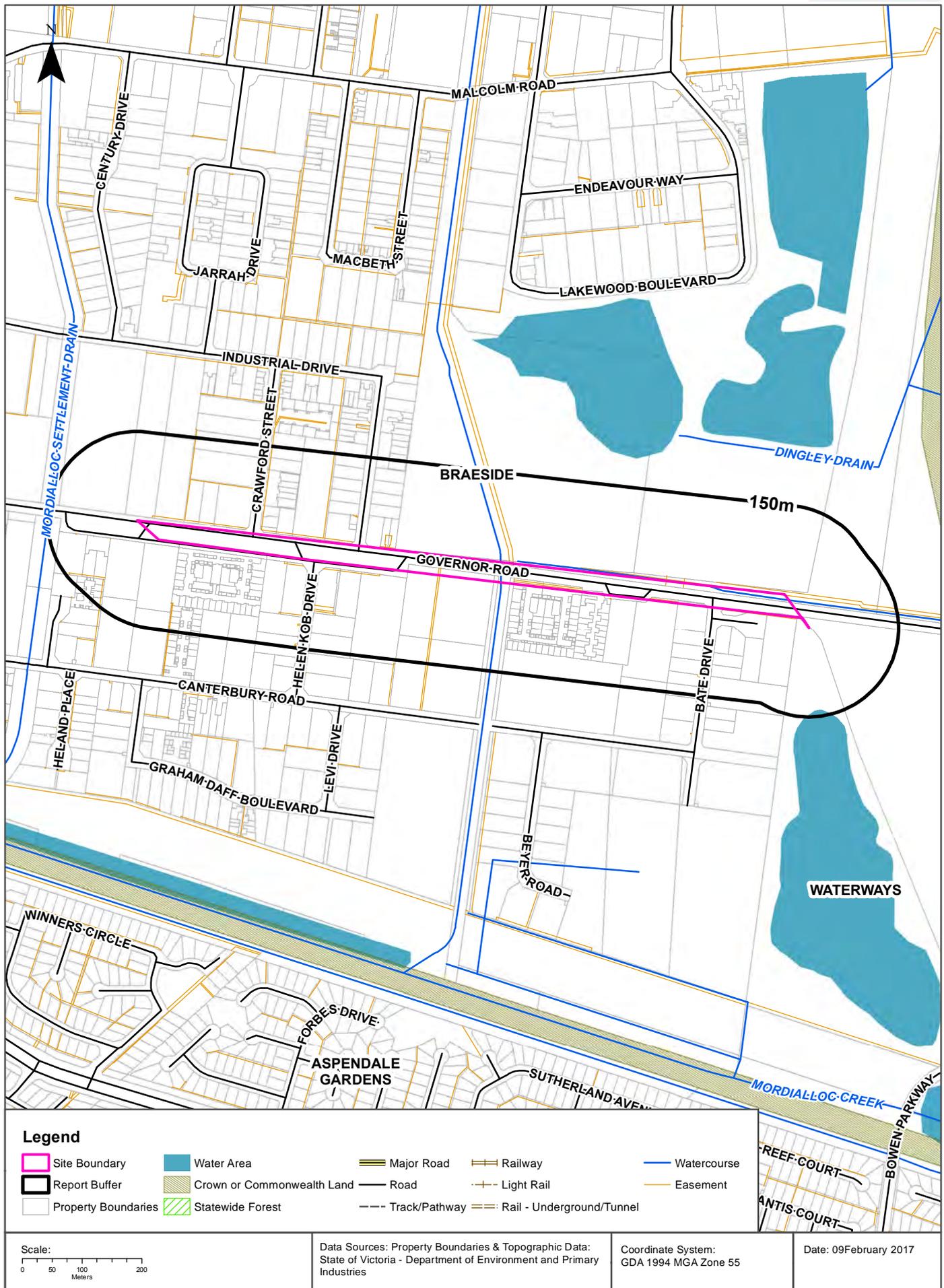
Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System: GDA 1994 MGA Zone 55

Date: 08February, 2017

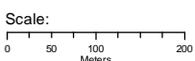
Topographic Data

OSAR Proposed Road Alignments - Site 26 (Section 6)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Water Area
- Crown or Commonwealth Land
- Statewide Forest
- Major Road
- Road
- Track/Pathway
- Railway
- Light Rail
- Rail - Underground/Tunnel
- Watercourse
- Easement



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Elevation Contours (m AHD)

OSAR Proposed Road Alignments - Site 26 (Section 6)



EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 6)

Current EPA Priority Sites Register

What sites on the current EPA priority sites register exist within the report buffer?

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

Priority Sites Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Former EPA Priority Sites & Other Pollution Notices

What sites within the report buffer 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.

Notice No	Notice Type	Company	Address	Suburb	Status	Issue	Date Issued	Loc Conf	Dist	Dir
N/A	No records in buffer									

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

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 6)

EPA Environmental Audits

What EPA environmental audit records exist within the report 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.

CARMS No	Transaction No	Site	Address	Suburb	Date Complete	Loc Conf	Distance	Direction
N/A	No records in buffer							

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

EPA Groundwater Zones with Restricted Uses

What EPA GQRUZ exist within the report buffer?

Note. Please click on CARMS No. to activate a hyperlink to online documentation.

CARMS No	EPA Id	Site History	Site Address	Restricted Uses	Loc Conf	Distance	Direction
N/A	No records in buffer						

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

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 6)

EPA Licensed Activities

What EPA licensed activities exist within the report 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									

Licensed Activity Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Former EPA Licensed Activities

What former EPA licensed activities exist within the report buffer?

Licence No	Organisation	Premise Address	Suburb	Activities	Loc Conf	Dist (m)	Direction
N/A	No records in buffer						

Former Licensed Activity Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

EPA Works Approvals

What EPA works approvals exist within the report buffer?

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

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

Waste Management Facilities

OSAR Proposed Road Alignments - Site 26 (Section 6)

National Waste Management Site Database

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

Site Id	Owner	Name	Address	Suburb	Postcode	Landfill	Reprocess	Transfer	Loc Conf	Dist (m)	Direction
N/A	No records in buffer										

Waste Management Facilities Data Source: Australian Government Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Statewide Waste and Resource Recovery Infrastructure Plan Facilities

Statewide Waste and Resource Recovery Infrastructure Plan Facilities within the report 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

EPA Prescribed Industrial Waste

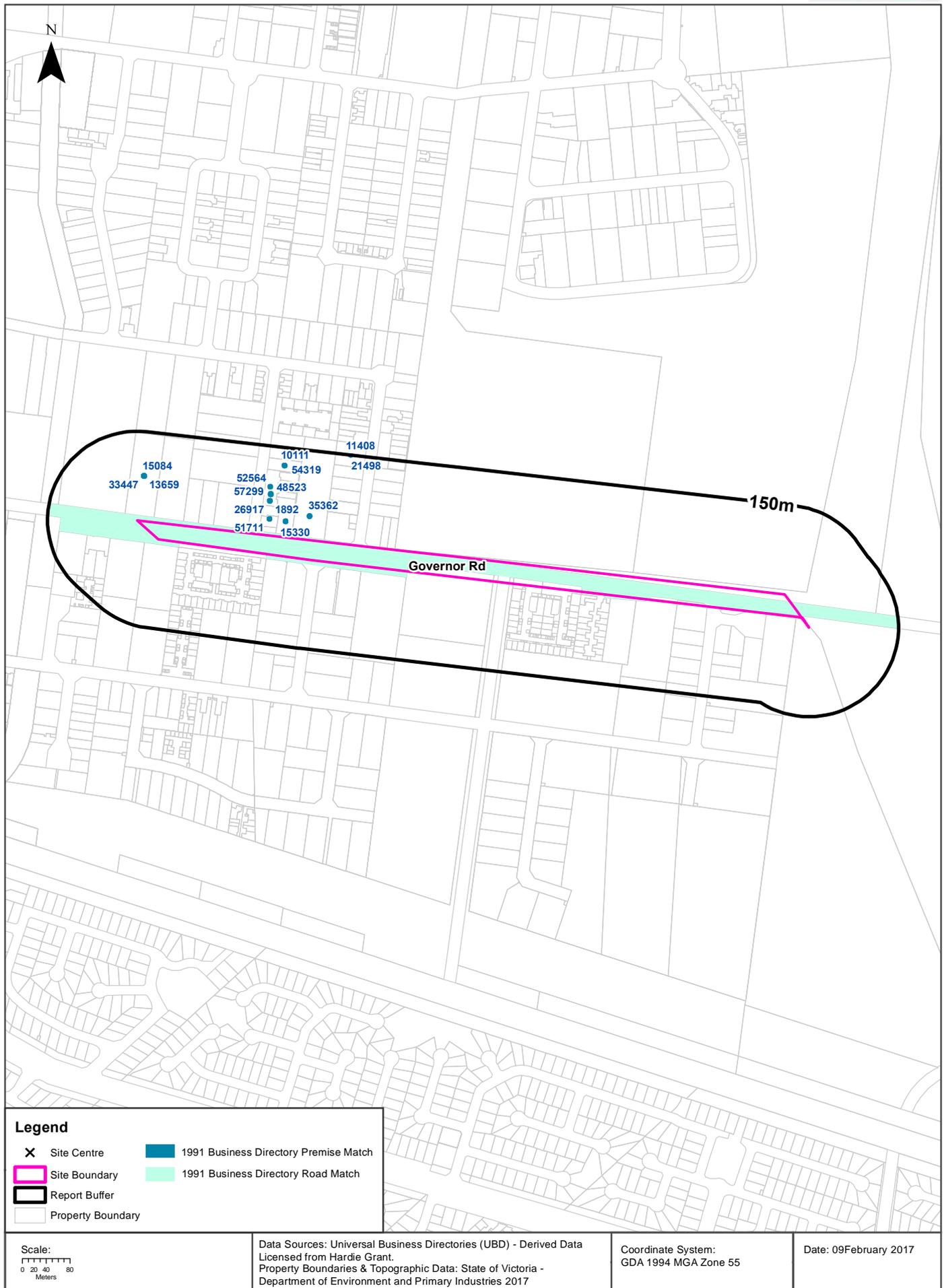
EPA Prescribed industrial waste sites within the report buffer:

Map Id	Company Name	Address	Suburb	Treatment /Disposal	Transport	Accredited Agent	EPA List Status	Loc Conf	Dist (m)	Direct
N/A	No records in buffer									

Prescribed Industrial Waste Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Historical Business to Business Directory Activity 1991

OSAR Proposed Road Alignments - Site 26 (Section 6)



Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 6)

1991 Business to Business Directory Records

1991 UBD Business Directory Records within 150m of the site:

Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
Steel Merchants - General	Ward, George Steel	Governor Rd., Braeside. 3105	21156	Road Match	0m	-
Die & Press Tool Makers	Maxwell Downs Pty. Ltd.,	243 Governor rd., Braeside Ave., heidelberg West 3081	15330	Premise Match	25m	West
Belt Mfrs &/or Dists - Ladies &/or Gents	Fashion belts	2/241 governor rd braeside 3195	51711	Premise Match	26m	West
Motor Wreckers	Kurglgetc Motor Wreckers Pty. Ltd..	245 Governor Rd., Elieside. 3195,	35362	Premise Match	38m	West
Toolmakers	Centre Tooling	1 Crawford St Mordialloc 3195	1892	Premise Match	56m	West
Die & Press Tool Makers	centre tooling	1 crawford st mordialloc 3195	26917	Premise Match	56m	West
Machinery &/or Parts Mfrs &/or Dists	Pro Tooling & Engineering Pty Ltd	Factory 2/1 Crawford St Braeside 3195	11822	Premise Match	67m	West
Toolmakers	Pro Tooling & Engineering Pty Ltd	Factory 2/1 Crawford St Braeside 3195	48523	Premise Match	67m	West
Printing Machinery Mfrs. &/or Imps. &/or Dists.	Pro Tooling & Engineering Pty. Ltd.,	Factory 2/1 CriiirfOrd St, Breeside. 3195	57299	Premise Match	67m	West
Die & Press Tool Makers	Pro tooling & Engineering Pty. Ltd.,	Factory 2/1 Crawford St., Braeside 3195	13281	Premise Match	67m	West
Refrigerated Transport Services	Freighter Australia Pty Ltd	237 Governor Rd Braeside 3195	15084	Premise Match	73m	West
Trailer &/or Trailer Equipment Mfrs &/or Dists	Freighter Australia Pty Ltd	237 Governor Rd Braeside 3195	13659	Premise Match	73m	West
Trailer Dealers-New &/or Used	Freighter Australia Pty Ltd	237 Governor Rd Braeside 3195	5157	Premise Match	73m	West
Motor Truck Accessories &/or Spare Parts	Freighter Australia Pty. Ltd.,	237 Governor Rd Braeside 3195	33447	Premise Match	73m	West
Builders &/or Building Contractors	macro builders Pty Ltd factory	3/3 crawford st braeside 3195	52564	Premise Match	80m	West
Toolmakers	Jupiter Engineering Pty Ltd	7 Crawford St Braeside 3195	54319	Premise Match	118m	North West
Plastic Moulders	Jupiter Industries (kasia.) Pty. Ltd.,	7 Crawford St, Braeside. 3195	10111	Premise Match	118m	North West
Laboratory Apparatus &/or Equipment Mfrs &/or Imps &/or Dists	Labco Pty Ltd	74 Industrial Dr Braeside 3195	21498	Premise Match	149m	North West
Hospital Equipment &/or Supplies Mfrs &/or Imps &/or Dists	Labco Pty Ltd	74 Industrial Dr Braeside 3195	11408	Premise Match	149m	North West
Instrument - Scientific - Mfrs. &/or Imps. &/or Dists	Labco Pty.Ltd	74 Industrial Dr., Braeside. 3195	48081	Premise Match	149m	North West

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1991 Business to Business Directory Garages & Service Stations

1991 UBD Business Directory Garages & Service Stations within 1km of the site:

Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 6)

1980 Business Directory Records

1980 UBD Business Directory Records within 150m of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1980 Business Directory Drycleaners, Garages & Service Stations

Drycleaners, Garages & Service Stations from the 1980 UBD Business Directory within 1km of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 6)

1960 Business Directory Drycleaners, Garages & Service Stations

Drycleaners, Garages & Service Stations from the 1960 UBD Business Directory within 1km of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1950 Business Directory Records

1950 UBD Business Directory Records within 150m of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1950 Business Directory Drycleaners, Garages & Service Stations

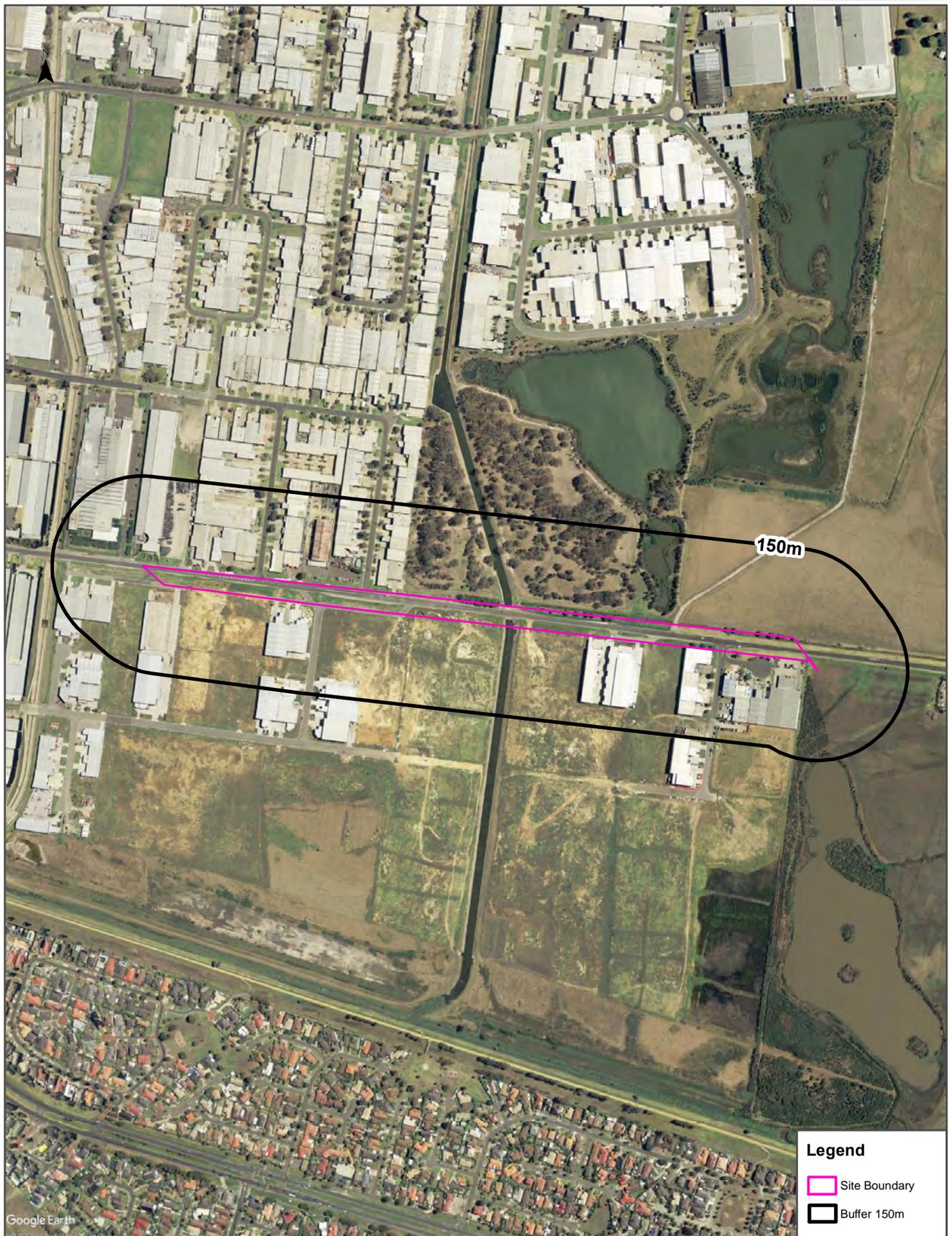
Drycleaners, Garages & Service Stations from the 1950 UBD Business Directory within 1km of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Aerial Imagery 2009

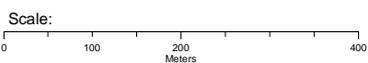
OSAR Proposed Road Alignments - Site 26 (Section 6)



Google Earth

Legend

- Site Boundary
- Buffer 150m



Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System: GDA 1994 MGA Zone 55

Date: 08February, 2017

Aerial Imagery 2005

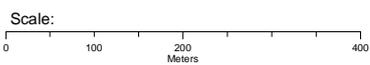
OSAR Proposed Road Alignments - Site 26 (Section 6)



Google Earth
© 2016 Google Inc.

Legend

- Site Boundary
- Buffer 150m



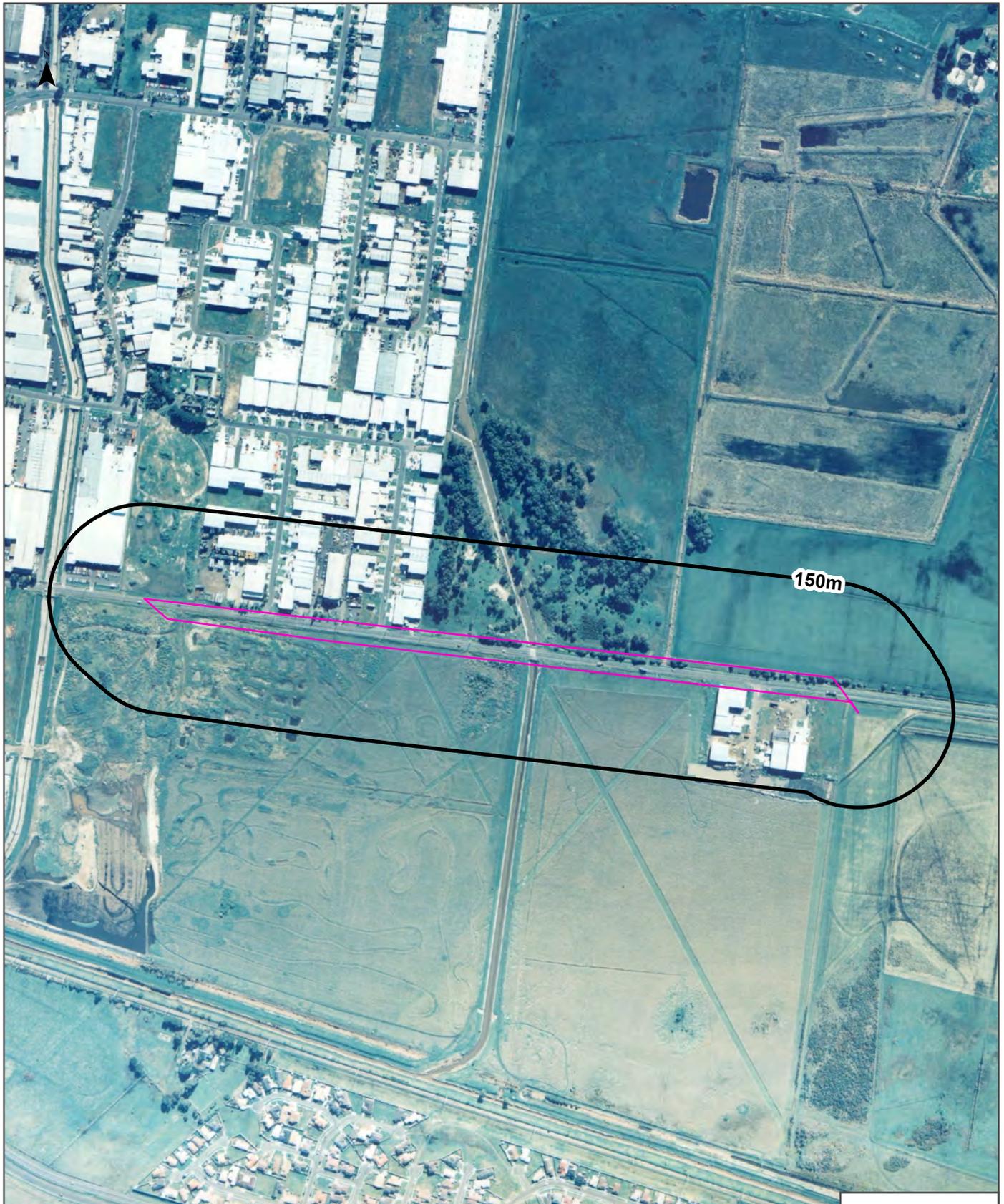
Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 55

Date: 08February, 2017

Aerial Imagery 1991

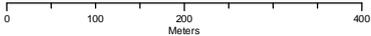
OSAR Proposed Road Alignments - Site 26 (Section 6)



Legend

-  Site Boundary
-  Buffer 150m

Scale:



Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 08February, 2017

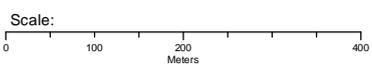
Aerial Imagery 1982

OSAR Proposed Road Alignments - Site 26 (Section 6)



150m

Legend	
	Site Boundary
	Buffer 150m



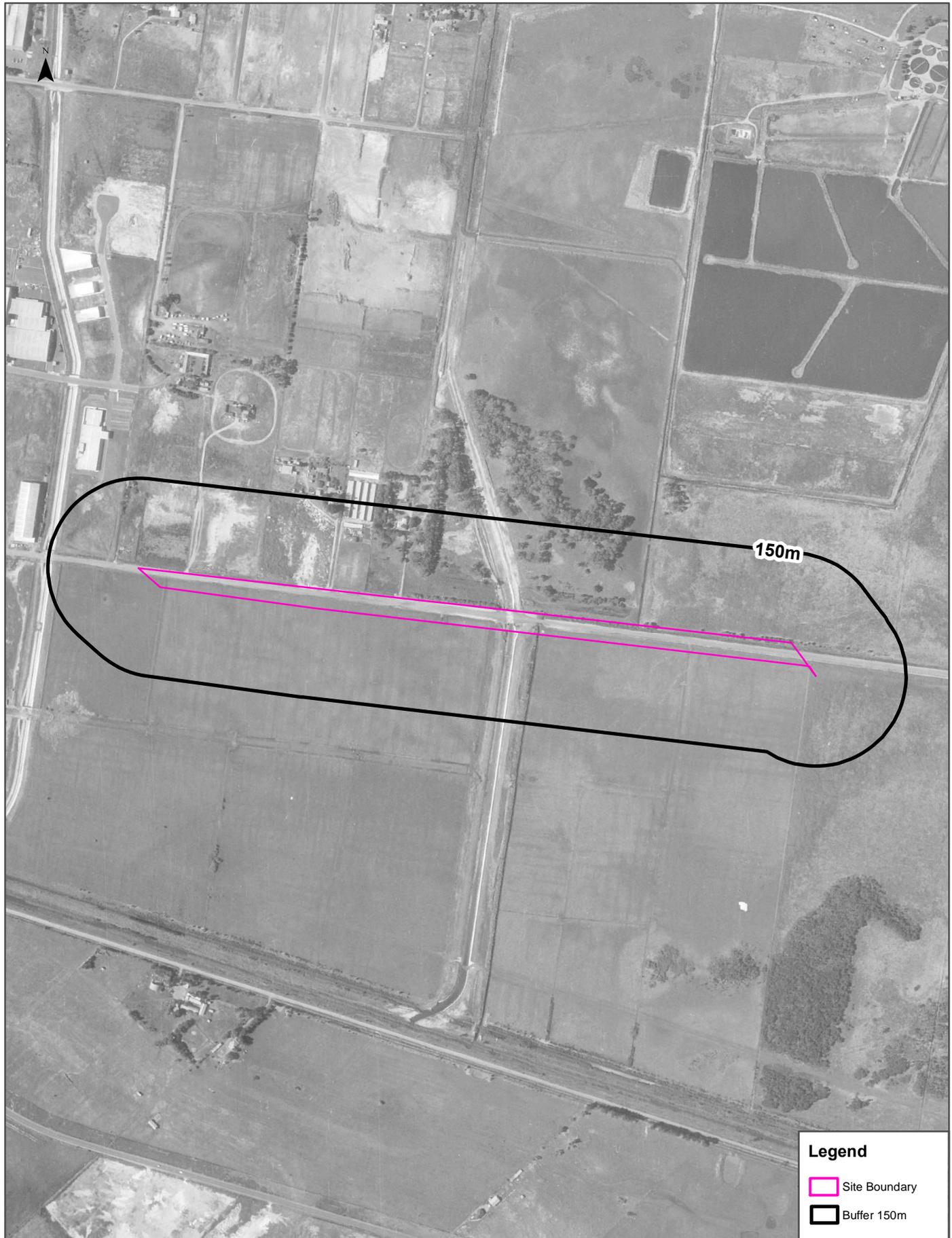
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 08February, 2017

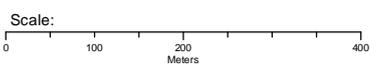
Aerial Imagery 1974

OSAR Proposed Road Alignments - Site 26 (Section 6)



150m

- Legend**
-  Site Boundary
 -  Buffer 150m



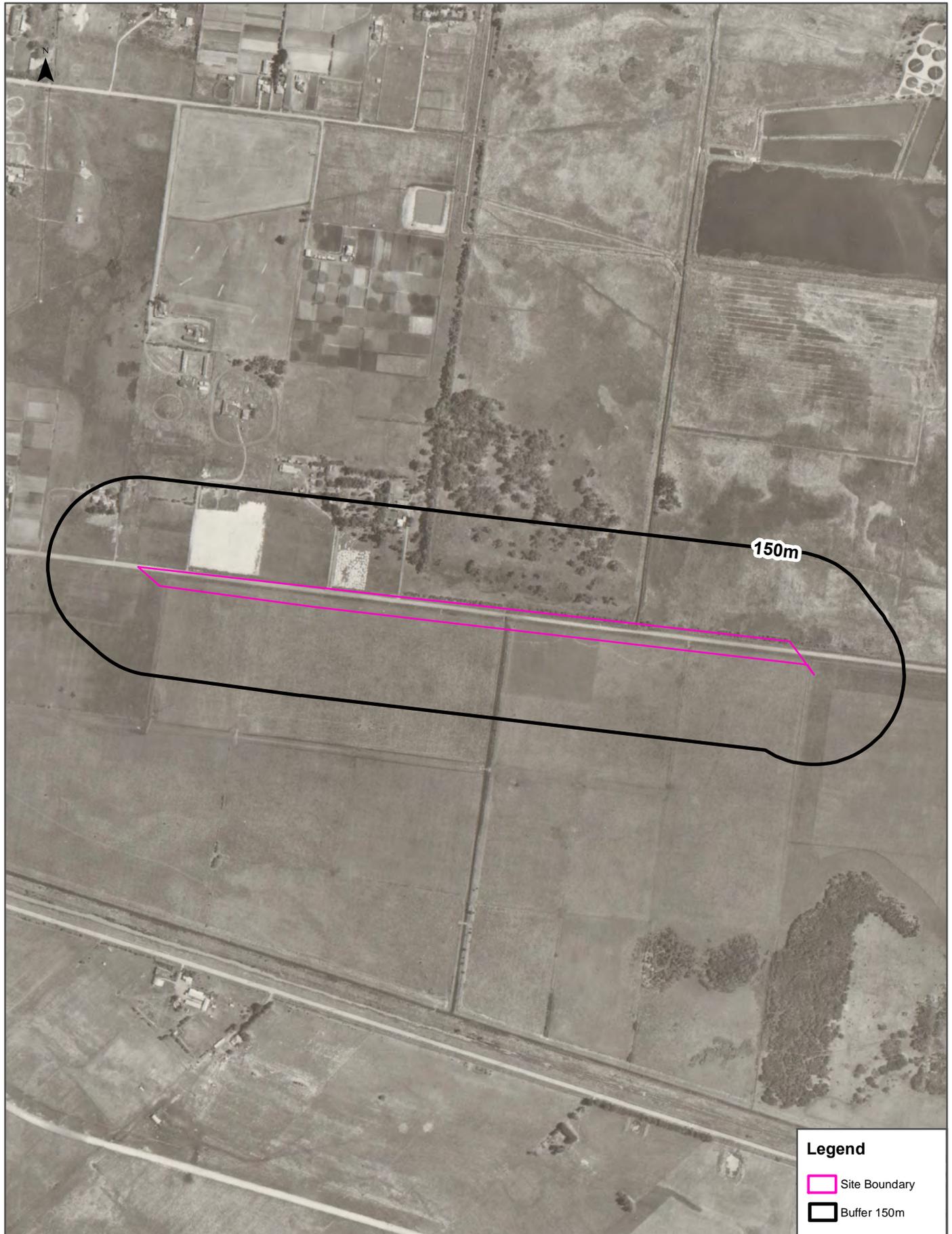
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 08February, 2017

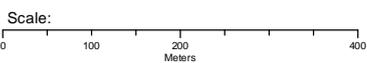
Aerial Imagery 1966

OSAR Proposed Road Alignments - Site 26 (Section 6)



Legend

-  Site Boundary
-  Buffer 150m



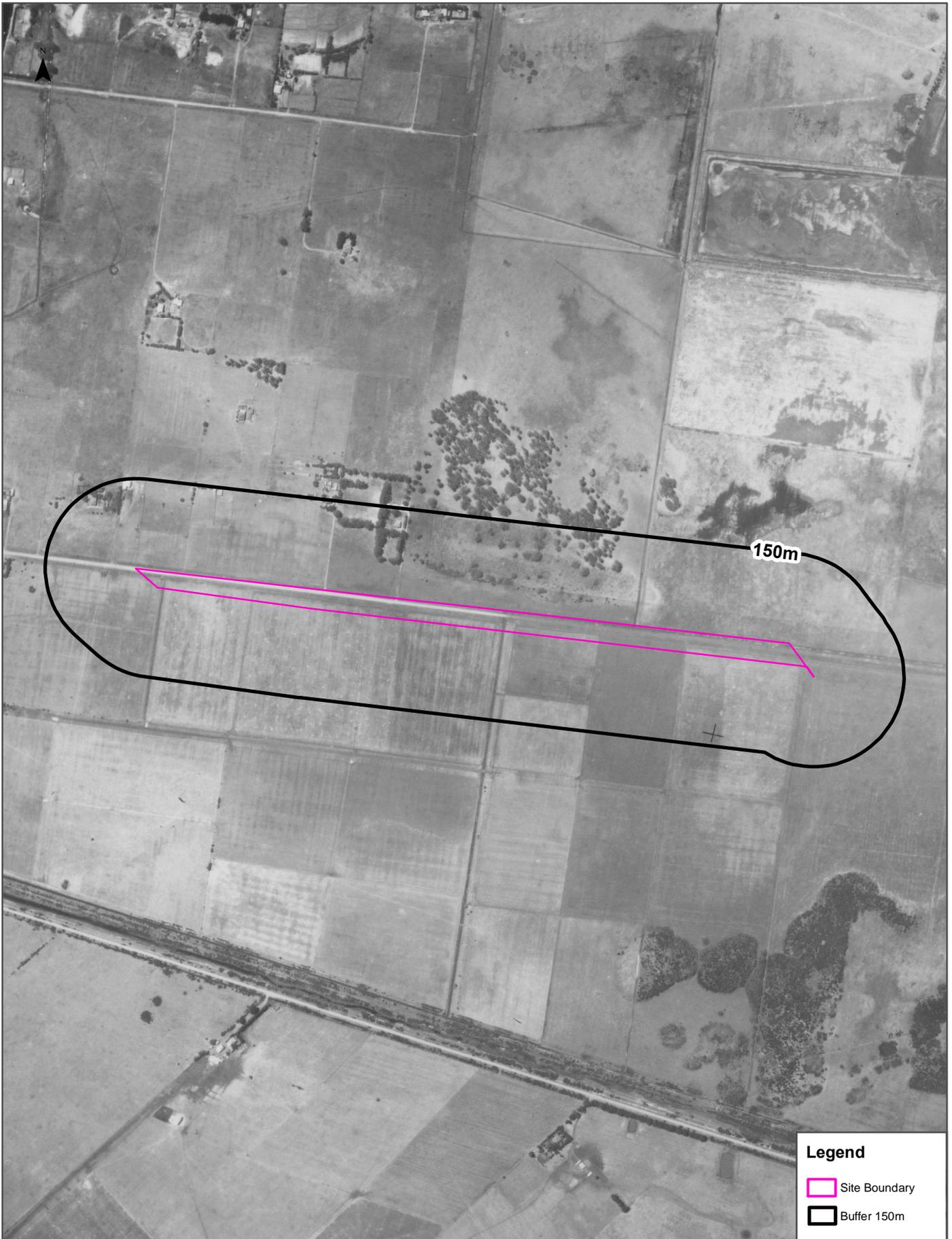
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System:
GDA 1994 MGA Zone 55

Date: 08February, 2017

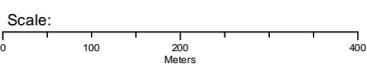
Aerial Imagery 1951

OSAR Proposed Road Alignments - Site 26 (Section 6)



Legend

- Site Boundary
- Buffer 150m



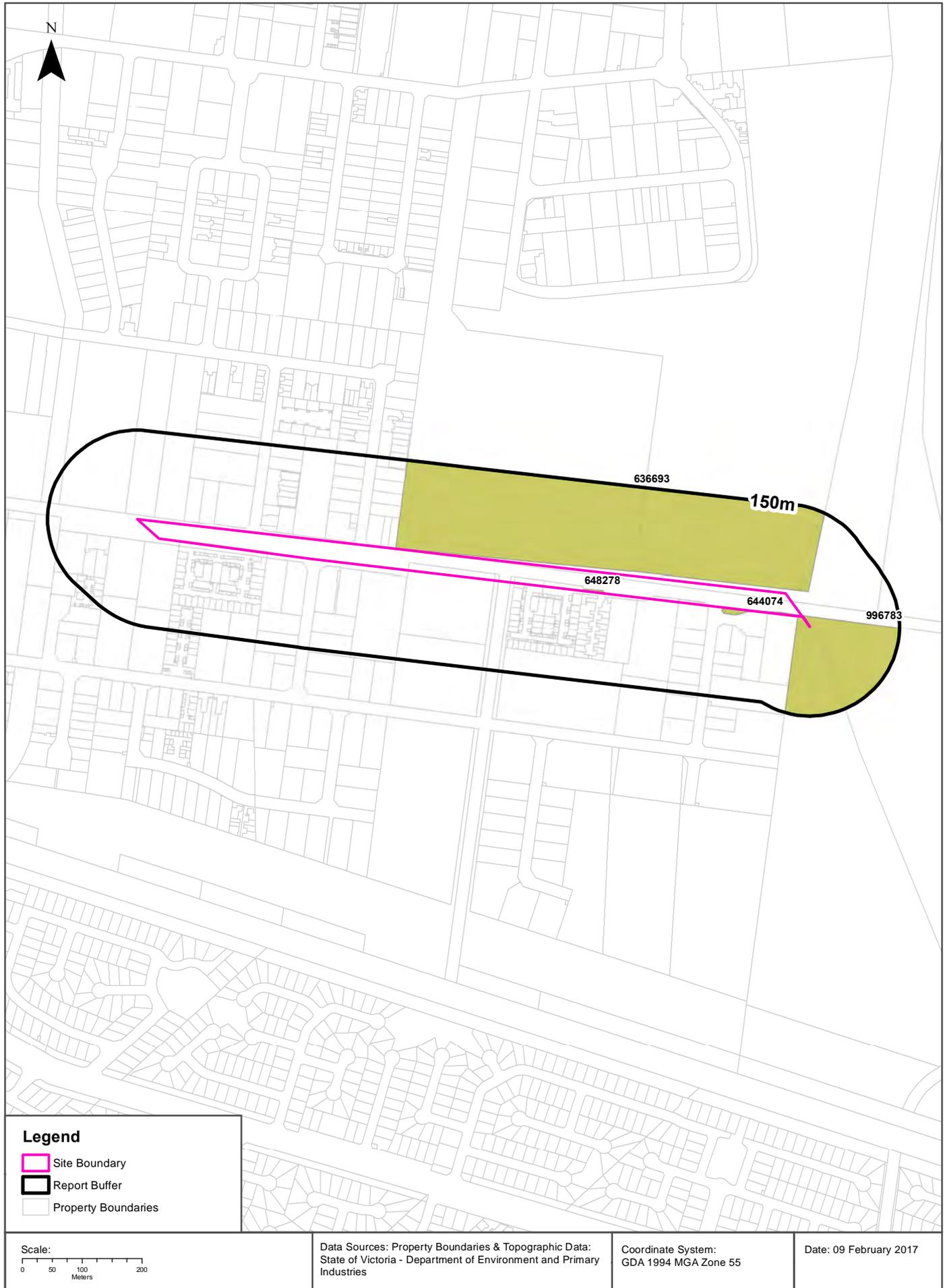
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 08February, 2017

Features of Interest

OSAR Proposed Road Alignments - Site 26 (Section 6)



Features of Interest

OSAR Proposed Road Alignments - Site 26 (Section 6)

Features of Interest

Features of Interest within 1km of the site:

Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
996783	reserve	park		0m	Onsite
648278	reserve	park		0m	Onsite
644074	reserve	park		0m	Onsite
636693	reserve	park	Woodlands Industrial Estate Environmental Wetland	1m	North East

Features of Interest Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

OSAR Proposed Road Alignments - Site 26 (Section 6)

Hydrogeology

Description of aquifers within report buffer:

Description	Distance	Direction
Porous, extensive highly productive aquifers	0m	Onsite

Hydrogeology Map of Australia: Commonwealth of Australia (Geoscience Australia)
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Salinity

On-site Groundwater Salinity:

Groundwater Salinity	Percent Of Site Area
1,000 - 3,500 mg/l	100

Depth to Watertable

On-site Depth to Watertable:

Depth to Watertable	Percent Of Site Area
Less than 5 metres	100

Surface Elevation

Approximate on-site Surface Elevation:

Surface Elevation
3 AHDm

Basement Elevation

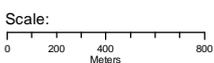
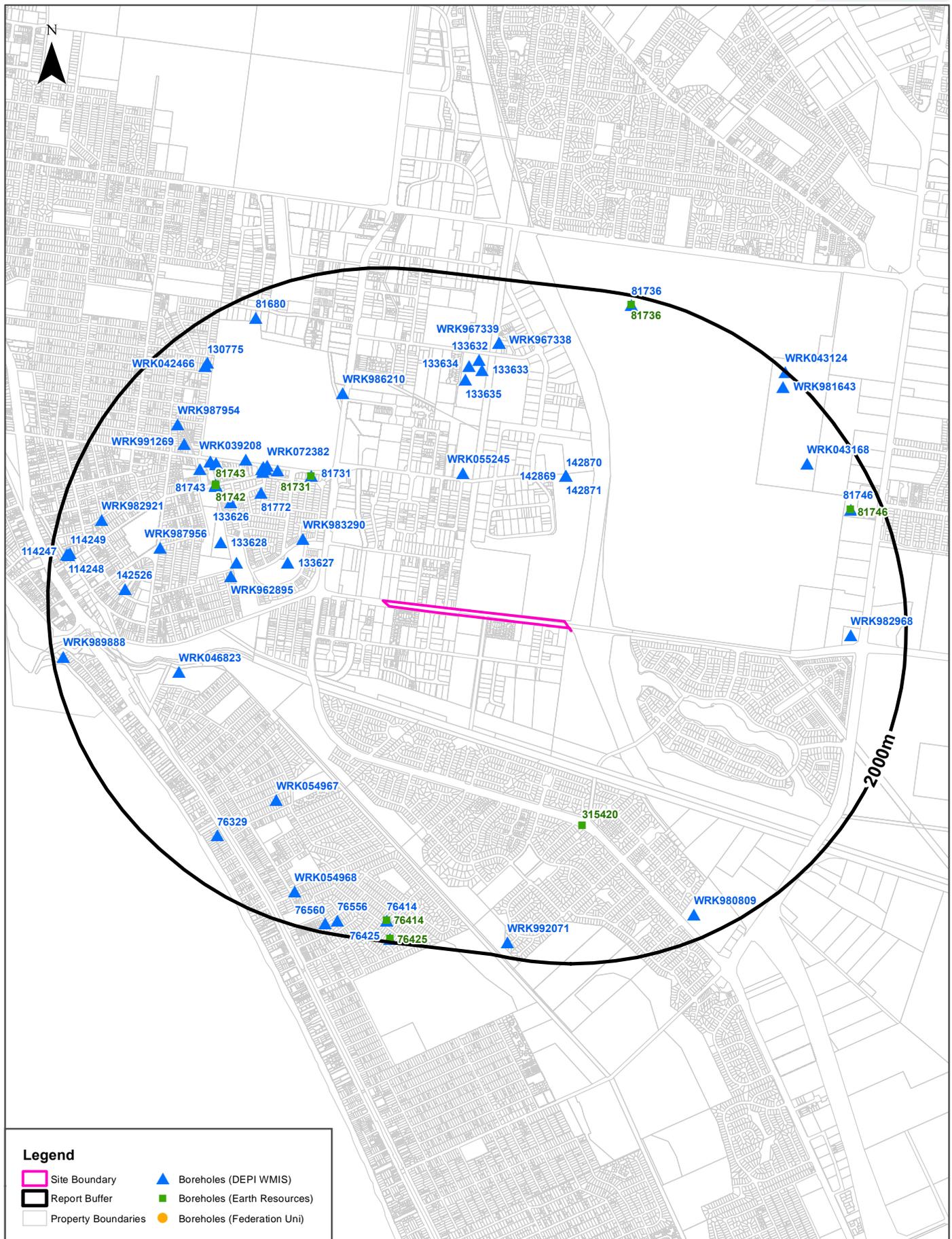
Approximate on-site Basement Elevation:

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
-51 AHDm to -45 AHDm

Groundwater Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 6)



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 6)

Boreholes (DEPI WMIS)

Boreholes from the Department of Environment and Primary Industries' Water Measurement Information System, within the report buffer:

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK983290							604	North West
133627	Groundwater Investigation	0.00m-0.50m CLAY 0.50m-1.40m FILL CRUSEHD ROCK & SILTSTONE 1.40m-4.00m CLAY	1.00m-4.00m INNER LINING - SCREEN = Not Known		1.00m-4.00m Clay	1998-04-21	611	West
WRK055245	Observation		0.00m-2.00m INNER LINING - CASING = Pvc 2.00m-8.00m INNER LINING - SCREEN = Pvc 0.00m-1.50m OUTER LINING - GRAVEL = Bentonite 1.50m-8.00m OUTER LINING - GRAVEL = Gravel			2010-02-23	817	North
81731	Not Known	0.00m-7.62m FINE BLUE CLAY 7.62m-11.27m FINE ORANGE CLAY 11.27m-44.80m MED/COARSE SILTY SAND 44.80m-52.70m SILTY SILURIAN CLAY 52.70m-122.00m HARD SANDSTONE	0.00m-54.00m INNER LINING - CASING = Steel 54.00m-122.00m INNER LINING - SCREEN = Steel		54.00m-122.00m Sandstone	1983-02-16	862	North West
142871	Groundwater Investigation	0.00m-12.50m SANDY CLAY	0.00m-5.00m INNER LINING - CASING = Pvc 5.00m-12.00m INNER LINING - SCREEN = Pvc 0.00m-4.00m OUTER LINING - GRAVEL = Cement 4.00m-4.50m OUTER LINING - GRAVEL = Bentonite 4.50m-12.50m OUTER LINING - GRAVEL = Gravel			1999-10-18	868	North East
142870	Groundwater Investigation	0.00m-12.50m SANDY CLAY	0.00m-5.00m INNER LINING - CASING = Pvc 5.00m-12.50m INNER LINING - SCREEN = Pvc 0.00m-4.00m OUTER LINING - GRAVEL = Cement 4.00m-4.50m OUTER LINING - GRAVEL = Bentonite 4.50m-12.50m OUTER LINING - GRAVEL = Gravel			1999-10-18	868	North East
142869	Groundwater Investigation	0.00m-14.40m SANDY CLAY	0.00m-11.40m INNER LINING - CASING = Pvc 11.40m-14.40m INNER LINING - SCREEN = Pvc 10.40m-10.90m OUTER LINING - GRAVEL = Bentonite 10.90m-14.40m OUTER LINING - GRAVEL = Gravel			1999-11-03	868	North East
WRK963468	Domestic & Stock	0.00m-4.50m CLAY 4.50m-9.50m VERY FINE SAND, CLAY & SLIME	-0.30m-2.00m INNER LINING - CASING = Pvc 2.00m-9.50m INNER LINING - SCREEN = Stainless Steel			2004-03-05	902	West
WRK962895							919	West
81772	Not Known		0.00m-95.80m INNER LINING - CASING = Galvanised Iron 96.00m-107.20m INNER LINING - SCREEN = Galvanised Iron			1987-03-27	974	North West
WRK987435							1003	North West
133628	Groundwater Investigation	0.00m-0.80m SILT 0.80m-2.00m SILTY CLAY 2.00m-4.00m SILTY SANDY CLAY	1.00m-4.00m INNER LINING - SCREEN = Not Known		1.00m-4.00m Clay	1998-04-21	1028	West
WRK072380	Observation	0.00m-0.40m FILLbuilding rubble/clay 0.40m-0.80m DArk peaty clay 0.80m-3.00m Mottled silty clay 3.00m-5.00m SANDy clay/silt 5.00m-6.00m wet sand & yellow clay	0.00m-1.50m INNER LINING - CASING = Pvc 1.50m-6.00m INNER LINING - SCREEN = Pvc 0.00m-0.50m OUTER LINING - GRAVEL = Cement 0.50m-1.40m OUTER LINING - GRAVEL = Bentonite 1.40m-6.00m OUTER LINING - GRAVEL = Gravel		1.50m-6.00m Clay	2013-05-27	1055	North West

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK072379	Observation	0.00m-0.40m Rubble 0.40m-0.70m Black silt 0.70m-2.50m CLAY 2.50m-4.20m CLAYey sand/silt	0.00m-1.20m INNER LINING - CASING = Pvc 1.20m-4.20m INNER LINING - SLOT = Pvc 0.00m-0.80m OUTER LINING - GRAVEL = Cement 0.80m-1.00m OUTER LINING - GRAVEL = Bentonite 1.00m-4.20m OUTER LINING - GRAVEL = Gravel		1.20m-4.20m Clay	2013-05-28	1055	North West
WRK072382	Observation	0.00m-0.30m GRAss/topsoil 0.30m-0.50m FILL/rubblegritty material 0.50m-0.70m Ddark silty clay 0.70m-2.00m Stiff clay/yellow mottled 2.00m-4.00m CLAYey sand	0.00m-1.00m INNER LINING - CASING = Pvc 1.00m-4.00m INNER LINING - SCREEN = Pvc 0.00m-0.60m OUTER LINING - GRAVEL = Cement 0.60m-0.90m OUTER LINING - GRAVEL = Bentonite 0.90m-4.00m OUTER LINING - GRAVEL = Gravel		1.00m-4.00m Clay	2013-05-27	1066	North West
WRK072384	Observation	0.00m-0.40m CLAY& some rubble bricks concretesome rocks 0.40m-0.80m SIlurbed clay 2.50m-3.00m SILTy clay & sand 3.00m-4.50m wet yellow clayey sand	0.00m-1.50m INNER LINING - CASING = Pvc 1.50m-4.50m INNER LINING - SCREEN = Pvc 0.00m-1.00m OUTER LINING - GRAVEL = Cement 1.00m-1.20m OUTER LINING - GRAVEL = Bentonite 1.20m-4.50m OUTER LINING - GRAVEL = Gravel		1.50m-4.50m Clay	2013-05-28	1072	North West
WRK072381	Observation	0.00m-0.30m FILL/disturbed clay some rubble 0.30m-0.70m CLAYey silt/black 0.70m-1.50m SANDy clay/dense 1.50m-2.50m SANDy clay/silty 2.50m-4.20m LIGHter clayey sand/wet	0.00m-1.20m INNER LINING - CASING = Pvc 1.20m-4.20m INNER LINING - SCREEN = Pvc 0.00m-0.60m OUTER LINING - GRAVEL = Cement 0.60m-0.90m OUTER LINING - GRAVEL = Bentonite 0.90m-4.20m OUTER LINING - GRAVEL = Gravel		1.20m-4.20m Clay	2013-05-27	1074	North West
133626	Groundwater Investigation	0.00m-1.00m CLAY SAND 1.00m-3.50m CLAY SAND FINE	0.50m-3.50m INNER LINING - SCREEN = Not Known			1998-04-21	1081	North West
WRK039208	Irrigation		0.00m-60.35m INNER LINING - CASING = Not Known 56.08m-60.35m INNER LINING - SCREEN = Not Known			1963-12-31	1178	North West
81741	Not Known	0.00m-1.00m TOP SOIL AND SAND 1.00m-6.00m SANDY CLAY GREY 6.00m-18.00m SANDY CLAY BANDS SANDSTONE 18.00m-23.00m GREY CLAY WITH CHIPS OF SANDSTONE 23.00m-58.00m GREY SANDY CLAY WITH BROWN CAOL 58.00m-59.00m HARD BAND BASALT 59.00m-62.00m BLUE GREEN CLAY WITH CHIPS OF BASALT 62.00m-68.00m BLUE GREEN CLAY WITH BROWN COAL				1983-02-03	1212	North West
81742	Not Known	0.00m-2.00m SANDY CLAY GREY 2.00m-3.00m SANDY CLAY WHITE 3.00m-5.00m SANDY CLAY GREY 5.00m-9.00m COARSE GRAVEL 9.00m-10.00m SANDY CLAY GREY 10.00m-23.00m SANDY CLAY BLACK 23.00m-50.00m CLAY SANDY GREY WITH PLEATS OF MICA 50.00m-60.00m CLAY GREY WITH BANDS OF SAND STONE 60.00m-69.00m CLAY BLUE GREEN 69.00m-84.00m BLUE GREEN CLAY WITH HARD BANDS				1983-02-03	1212	North West
81740	Not Known	0.00m-1.00m TOP SOIL AND SAND 1.00m-4.00m SANDY CLAY 4.00m-11.00m SAND GRAVEL AND CLAY 11.00m-18.00m SANDY CLAY GREY 18.00m-24.00m CLAY WITH BANDS OF SAND STONE 24.00m-68.00m GREEN BLUE CLAY MARINE				1983-02-04	1212	North West
81743	Irrigation	0.00m-4.00m OLD TIP-FILLED 4.00m-49.00m SILTY CLAY 49.00m-51.00m HARD BAND 51.00m-57.50m WEATHERED BASALT 57.50m-63.00m BASALT 63.00m-65.00m WOODY CLAY/COAL 65.00m-67.50m GREY CLAY/MUDSTONE	0.00m-58.00m INNER LINING - CASING = Steel 58.00m-67.50m INNER LINING - SCREEN = Steel			1983-11-03	1217	North West
WRK986210							1270	North West
WRK054563	Observation					2010-07-01	1289	North West

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK046823	Irrigation	0.00m-0.30m TOP SOIL 0.30m-15.00m SANDY CLAYS & IRONSTONE 15.00m-56.80m MARL LAYERS UP TO 300MM THICK 56.80m-57.30m HARD LENSES (VOLCANIC?) 57.30m-63.00m WERRIBEE FORMATION LITTLE SAND 63.00m-72.00m WEATHERED SHALE 72.00m-87.00m FIRM SHALE 87.00m-88.00m FRACTURED SHALE 88.00m-91.00m FIRM TO HARD SHALE	0.00m-75.00m INNER LINING - CASING = Pvc 11.00m-75.00m OUTER LINING - GRAVEL = Cement		0.00m-75.00m Marl 75.00m-91.00m Shale	2005-08-29	1290	West
WRK054562	Observation					2010-07-01	1294	North West
WRK990956							1326	North West
WRK984509							1328	North West
WRK054967	Domestic & Stock	0.00m-0.30m top soil 0.30m-8.00m old sea bed 8.00m-9.00m soft sandstone 9.00m-12.00m brown sands 12.00m-13.00m soft sandstone 13.00m-16.00m sands 16.00m-17.00m soft sandstone 17.00m-18.00m sands	0.00m-11.00m INNER LINING - CASING = Pvc 11.00m-17.00m INNER LINING - SCREEN = Pvc		0.00m-11.00m Sand 11.00m-17.00m Sand	2010-02-10	1342	South West
WRK980684							1348	North West
WRK987956	Domestic	0.00m-0.20m FILL: SILTY SAND 0.20m-0.40m SAND 0.40m-0.60m SANDY CLAY 0.60m-2.00m SAND 2.00m-4.50m SANDY CLAY 4.50m-9.00m CLAYEY SAND	0.00m-1.00m OUTER LINING - GRAVEL = Cement 4.50m-5.50m OUTER LINING - GRAVEL = Bentonite 5.50m-9.00m OUTER LINING - GRAVEL = Gravel			2008-09-24	1366	West
133635	Groundwater Investigation	0.00m-1.50m FILL SANDY LOAM 1.50m-2.00m CLAY 2.00m-6.50m SANDY CLAY				1998-01-21	1376	North
133633	Groundwater Investigation	0.00m-1.30m FILL SAND & SANDY CLAY 1.30m-6.00m SANDY CLAY				1998-01-21	1447	North
133634	Groundwater Investigation	0.00m-1.00m FILL FRAVEL & SANDY CLAY 1.00m-5.50m SANDY CLAY 5.50m-6.00m CLAYEY SAND				1998-01-21	1458	North
133632	Groundwater Investigation	0.00m-0.90m FILL CLAYEY SILT 0.90m-3.50m SANDY CLAY 3.50m-6.00m CLAYEY SAND				1998-01-21	1504	North
WRK991269							1513	North West
142526	Domestic	0.00m-0.50m SANDY LOAM 0.50m-18.00m SAND/CLAY 18.00m-50.00m SILT/CLAY 50.00m-56.00m SAND	0.00m-53.00m INNER LINING - CASING = Pvc 53.00m-56.00m INNER LINING - SCREEN = Pvc 0.00m-2.00m OUTER LINING - GRAVEL = Cement 2.00m-3.00m OUTER LINING - GRAVEL = Bentonite 50.00m-56.00m OUTER LINING - GRAVEL = Gravel			2000-10-06	1538	West
WRK967337							1617	North
WRK967339							1617	North
WRK967338							1617	North
WRK987954	Groundwater Investigation	0.00m-0.30m FILL: SANDY GRAVEL 0.30m-0.60m FILL: SILTY CLAY 0.60m-2.70m SILTY CLAY 2.70m-3.30m SANDY CLAY 3.30m-4.40m SAND 4.40m-11.20m CLAYEY SAND	0.00m-1.00m OUTER LINING - GRAVEL = Cement 6.00m-7.20m OUTER LINING - GRAVEL = Bentonite 7.20m-11.20m OUTER LINING - GRAVEL = Gravel			2008-09-24	1621	North West
WRK982968							1668	East
76329	Domestic, Stock		0.00m-4.26m INNER LINING - CASING = Abs Plastic 0.00m-4.26m INNER LINING - SCREEN = Not Known			1972-12-01	1716	South West
WRK043168	Irrigation					1982-01-01	1728	North East
WRK982921							1747	West
WRK042466	Irrigation		56.85m-0.00m OUTER LINING - GRAVEL = Packer			1963-12-31	1764	North West

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
130775	Not Used - Capped	0.00m-2.50m GREY FINE SOIL 2.50m-3.50m LIGHT TAN/BROWN CLAY/COARSE SAND LAYERS 3.50m-7.50m LIGHT BROWN/SILTY/FINE SAND CLAY 7.50m-11.50m DARK BROWN WEATHERED SANDSTONE 11.50m-48.40m BLACK/GREY SILTY CLAY FINE SHELLS 48.40m-50.50m BROWN SILTY CLAY/FINE SHELLS 50.50m-52.10m HARD GREEN LIMESTONE 52.10m-53.30m SOFT GREEN LIMESTONE 53.30m-55.70m BROWN FIRM CLAY/FINE SAND 55.70m-57.00m WHITE/BROWN FIRM CLAY 57.00m-61.50m BLACK/GREY BASALT 61.50m-61.80m WEATHERED BLACK BASALT 61.80m-63.70m WEATHERED BLACK/GREY BASALT 63.70m-64.00m GREY/BROWN CLAY BASALT GRAVEL	-0.20m-55.65m INNER LINING - CASING = Abs Plastic 60.40m-64.00m INNER LINING - CASING = Abs Plastic 0.00m-40.00m OUTER LINING - GRAVEL = Cement 40.00m-64.00m OUTER LINING - GRAVEL = Gravel			1996-11-23	1771	North West
WRK054968	Domestic & Stock	0.00m-2.00m fine sand 2.00m-15.00m clay 15.00m-30.00m coarse sand	0.50m-22.00m INNER LINING - CASING = Pvc 22.00m-28.00m INNER LINING - SCREEN = Pvc 28.00m-30.00m INNER LINING - CASING = Pvc 0.00m-9.00m OUTER LINING - GRAVEL = Cement 9.00m-10.00m OUTER LINING - GRAVEL = Bentonite 10.00m-30.00m OUTER LINING - GRAVEL = Gravel		0.50m-22.00m Clay 22.00m-28.00m Sand 28.00m-30.00m Sand	2010-04-02	1802	South West
81746	Domestic	0.00m-3.05m BROWN CLAY 3.05m-15.24m BROWN SANDY CLAY 15.24m-24.38m BLUE GREY GRAVELLY CLAY 24.38m-39.62m GREY GREEN SANDY CLAY 39.62m-45.41m GREY GREEN GRAVELLY CLAY	0.00m-4.57m INNER LINING - CASING = Pvc 0.00m-33.05m INNER LINING - CASING = Pvc 33.05m-38.10m INNER LINING - SCREEN = Pvc 39.92m-41.15m INNER LINING - SCREEN = Wire W S/Steel		33.05m-38.10m Clay 39.92m-41.15m Clay	1982-02-28	1821	East
WRK980809							1852	South East
81680	Not Used - Capped	0.00m-12.19m YELLOW GREY CLAY 12.19m-21.34m SANDY GRAVEL AND CLAY 21.34m-47.24m LIGHT GREY SANDY CLAY 47.24m-47.55m SMALL BAND OF LIMESTONE 47.55m-53.34m COARSE SAND - SHELL AND WOOD 53.34m-55.78m DECOMPOSED BASALT 55.78m-60.96m HARD BASALT	0.00m-56.08m INNER LINING - CASING = Not Known 0.00m-56.08m OUTER LINING - GRAVEL = Cement			1973-01-13	1860	North West
76414	Domestic	0.00m-1.30m PEAT - CLAY 1.30m-2.30m SAND - WET 2.30m-4.57m CLAY - WET 4.57m-0.00m WHITE-GREY SANDSTONE	0.00m-3.96m INNER LINING - CASING = Pvc 3.96m-4.57m INNER LINING - SCREEN = Pvc		3.96m-4.57m Sandstone	1983-02-24	1872	South
114249	Groundwater Investigation	0.00m-0.20m CONCRETE & FILL 0.20m-0.70m BLACK SILTY SAND & BRICKS 0.70m-4.20m FIRM GREY / BROWN SILTY CLAYEY SANDS 4.20m-4.25m BROWN HARD IRONSTONE LENSES 4.25m-6.00m BROWN SILTY FIRM SAND	-0.10m-3.00m INNER LINING - CASING = Pvc Class 18 3.00m-6.00m INNER LINING - SCREEN = Pvc Class 18 1.80m-2.70m OUTER LINING - GRAVEL = Bentonite 2.70m-6.00m OUTER LINING - GRAVEL = Gravel		3.00m-6.00m Sand	1992-09-15	1888	West
114248	Groundwater Investigation	0.00m-0.15m CONCRETE 0.15m-0.85m BLACK MOIST SILTY CLAY SAND 0.85m-6.00m FIRM GREY/BROWN SILTY CLAY & CLAYEY SANDS	-0.10m-3.00m INNER LINING - CASING = Pvc Class 18 3.00m-6.00m INNER LINING - SCREEN = Pvc Class 18 2.00m-2.50m OUTER LINING - GRAVEL = Bentonite 2.50m-6.00m OUTER LINING - GRAVEL = Gravel		3.00m-6.00m Clay	1992-09-14	1897	West
WRK992378							1898	West
114247	Groundwater Investigation	0.00m-0.15m CONCRETE & FILL 0.15m-0.80m BLACK MOIST SILTY CLAY SAND 0.80m-1.20m FIRM GREY / BROWN SILTY CLAY 1.20m-6.00m FIRM CLAY / BROWN CLAYEY SAND	-0.10m-3.00m INNER LINING - CASING = Pvc Class 18 3.00m-6.00m INNER LINING - SCREEN = Pvc Class 18 2.00m-2.50m OUTER LINING - GRAVEL = Bentonite 2.50m-6.00m OUTER LINING - GRAVEL = Gravel		3.00m-6.00m Sand	1992-09-14	1907	West
WRK992071							1909	South
76556	Not Known					1988-01-01	1913	South West

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK981643							1921	North East
WRK989888	Domestic					2009-02-13	1936	West
76560	Not Known					1988-01-01	1943	South West
81736	Domestic	0.00m-0.30m TOP SOIL 0.30m-0.91m WHITE SAND 0.91m-3.61m CLAY 3.61m-7.01m CLAY AND FINE SAND 7.01m-9.71m SHELL GRIT AND SHALE WITH COARSE PARTS 9.71m-11.84m COARSE WATER BEARING CLAY 11.84m-16.15m CLAY SHELL GRIT AND SHALE 16.15m-24.38m SHELL, GRIT AND SHALE	0.00m-22.86m INNER LINING - CASING = Pvc 22.86m-24.38m INNER LINING - SCREEN = Pvc		22.86m-24.38m Clay	1983-08-10	1944	North East
76425	Domestic	0.00m-0.61m LOAM 0.61m-1.06m WHITE SAND 1.06m-1.37m BLACK CLAY 1.37m-1.83m GREY SAND AND SHELLS 1.83m-2.27m BLACK CLAY 2.27m-2.74m GREY SAND AND SEA SHELLS 2.74m-3.35m BLACK CLAY 3.35m-3.66m GREY SAND AND SEA SHELLS 3.66m-4.57m BLACK CLAY 4.57m-5.18m GREY SAND AND SEA SHELLS	0.00m-4.57m INNER LINING - CASING = Pvc 4.57m-5.18m INNER LINING - SCREEN = Pvc		4.57m-5.18m Sand	1983-12-12	1978	South
WRK043124	Not Known					1988-01-01	1994	North East

Boreholes WMIS Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 6)

Boreholes (Earth Resources Database)

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

Bore Id	Bore Type	Company	Usage	Method	Status	Drill Date	Depth	Elevation	Accuracy (m)	Dist (m)	Direct
81731		Local Government Authority	Irrigation	Air Percussion/Air Rotary		16/02/1983	122.00		100	864	North West
315420		Department of Manufacturing & Industry Development				31/12/1928	67.06	20.00	100	1170	South East
81740		Private Individual/Corporation		Rotary (diamond/drag bit)	Abandoned	04/02/1983	68.00		100	1214	North West
81741		Private Individual/Corporation		Rotary (diamond/drag bit)	Abandoned	03/02/1983	68.00		100	1214	North West
81742		Private Individual/Corporation		Rotary (diamond/drag bit)	Abandoned	03/02/1983	84.00		100	1214	North West
81743		Private Individual/Corporation	Public/town water supply	Rotary (diamond/drag bit)		03/11/1983	67.50		100	1220	North West
81746		Private Individual/Corporation	Domestic water supply	Rotary (diamond/drag bit)		28/02/1982	45.41		100	1819	East
76414		Private Individual/Corporation	Domestic water supply	Hand Auger		24/02/1983	4.57		100	1871	South
81736		Private Individual/Corporation	Domestic water supply	Rotary (diamond/drag bit)		10/08/1983	24.38		100	1945	North East
76425		Private Individual/Corporation	Domestic water supply	Spear point (multiple system)		12/12/1983	5.18		100	1978	South

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)

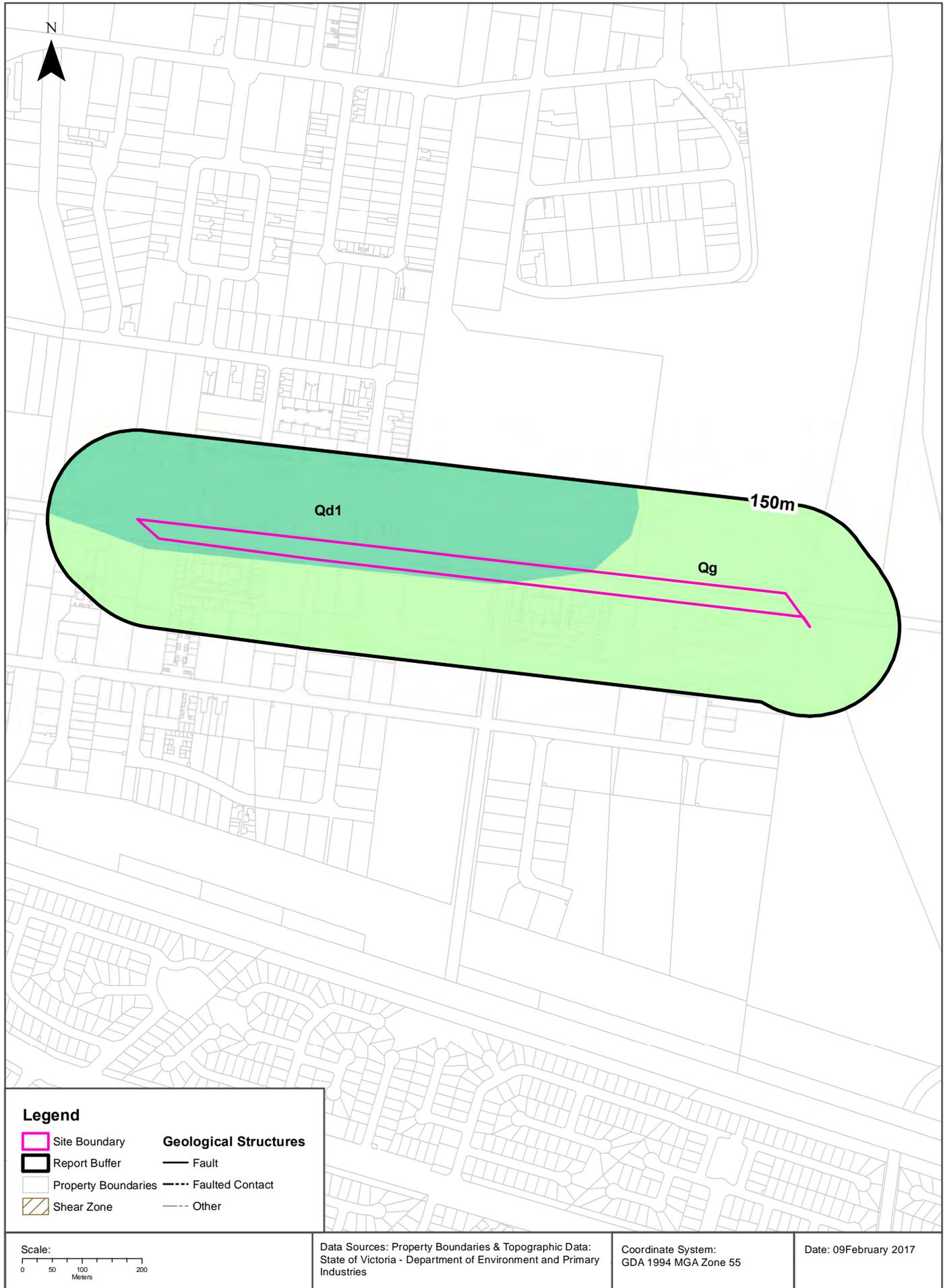
Boreholes from the Federation University Australia dataset, within the report buffer:

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

Boreholes FedUni Data Source: © Federation University Australia

Geology 1:250,000

OSAR Proposed Road Alignments - Site 26 (Section 6)



Geology

OSAR Proposed Road Alignments - Site 26 (Section 6)

Geological Units

What are the Geological Units onsite?

Symbol	Name	Description	Geological Age	Lithology	Dataset
Qd1	inland dune deposits (Qd1): generic	Sand, silt, clay: friable to consolidated; well sorted; includes both lunette deposits and deposits of longitudinal dunes	Quaternary to Quaternary	sand (significant); silt material (significant); clay lithology (significant)	1:250,000
Qg	coastal lagoon deposits (Qg): generic	Silt, clay: dark grey to black; variably consolidated	Holocene to Holocene	silt material (significant); clay lithology (significant)	1:250,000

What are the Geological Units within the report buffer?

Symbol	Name	Description	Geological Age	Lithology	Dataset
Qd1	inland dune deposits (Qd1): generic	Sand, silt, clay: friable to consolidated; well sorted; includes both lunette deposits and deposits of longitudinal dunes	Quaternary to Quaternary	sand (significant); silt material (significant); clay lithology (significant)	1:250,000
Qg	coastal lagoon deposits (Qg): generic	Silt, clay: dark grey to black; variably consolidated	Holocene to Holocene	silt material (significant); clay lithology (significant)	1:250,000

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Geology

OSAR Proposed Road Alignments - Site 26 (Section 6)

Geological Structures

What are the Geological Faults or Faulted Contacts onsite?

Map Id	Type	Name	Contact	Positional Accuracy	Dataset
No features					1:250,000

What are the Dykes, Marker Beds and Veins onsite?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No Data Coverage					

What are the Shear Zones onsite (1:250,000 scale)?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No features					1:250,000

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

Map Id	Type	Name	Contact	Positional Accuracy	Dataset
No features					1:250,000

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

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No Data Coverage					

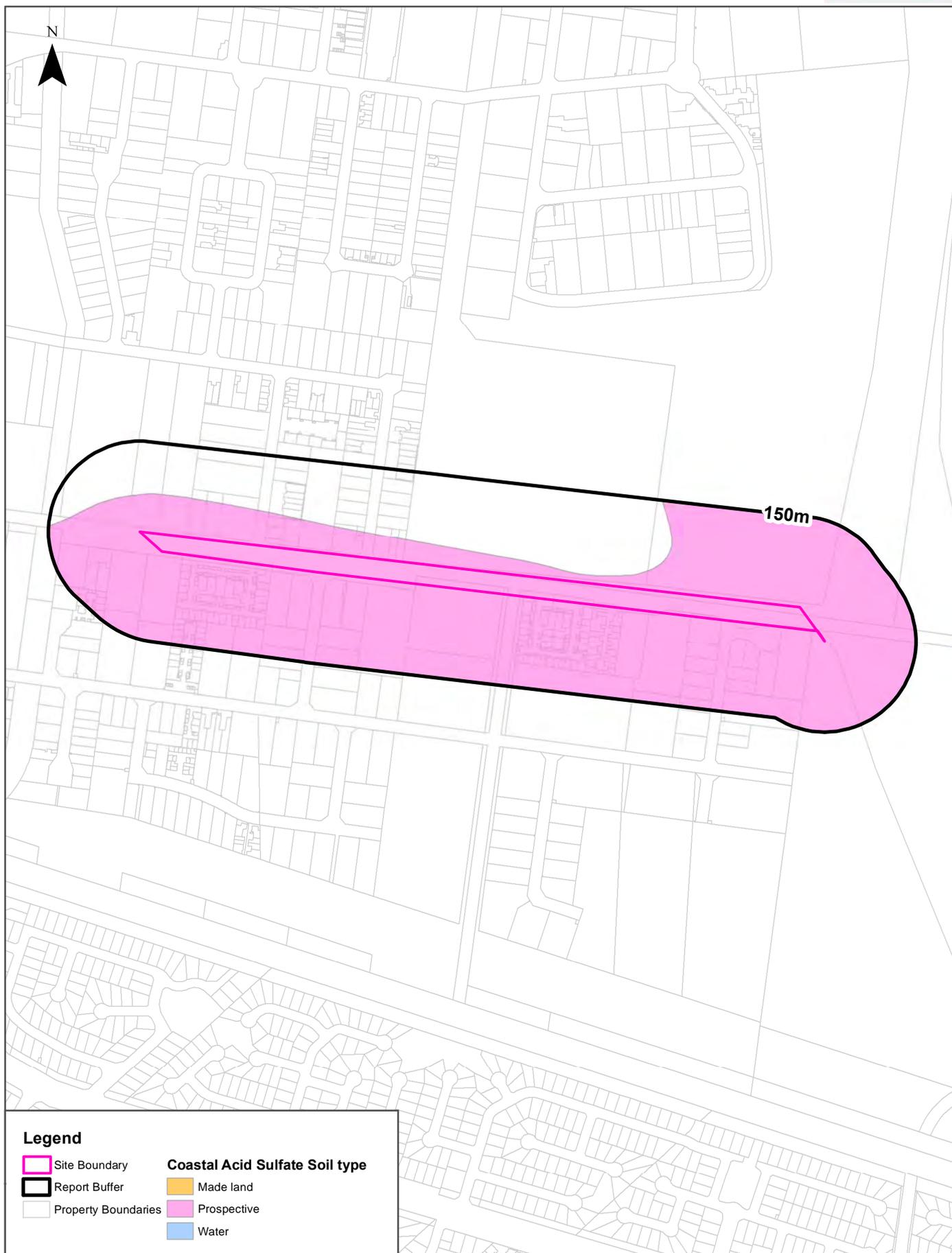
What are the Shear Zones within the report buffer (1:250,000 scale)?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No features					1:250,000

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

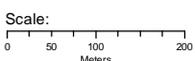
Coastal Acid Sulfate Soils

OSAR Proposed Road Alignments - Site 26 (Section 6)



Legend

- | | |
|---------------------|---------------------------------------|
| Site Boundary | Coastal Acid Sulfate Soil type |
| Report Buffer | Made land |
| Property Boundaries | Prospective |
| | Water |



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Coastal Acid Sulfate Soils

OSAR Proposed Road Alignments - Site 26 (Section 6)

Coastal Acid Sulfate Soils

What are the on-site Coastal Acid Sulfate Soil types?

Coastal Acid Sulfate Soil Types
Prospective

What are the Coastal Acid Sulfate Soil types within the report buffer?

Coastal Acid Sulfate Soil Types	Distance	Direction
Prospective	0m	Onsite

Coastal Acid Sulfate Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Planning Zones

OSAR Proposed Road Alignments - Site 26 (Section 6)



Planning Zones

OSAR Proposed Road Alignments - Site 26 (Section 6)

Planning Zones

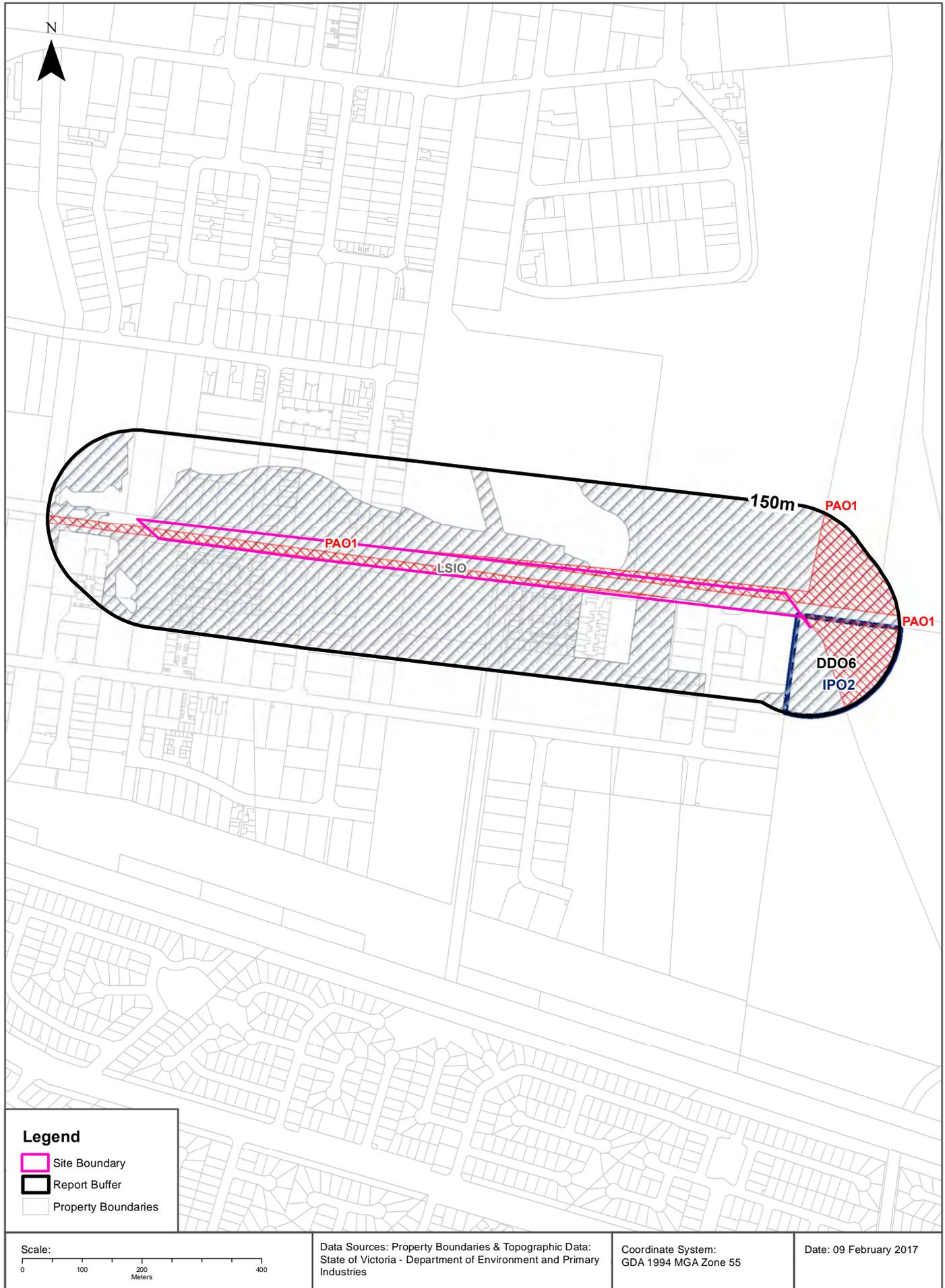
Planning zones within the report buffer:

Zone Code	Description	Distance	Direction
RDZ1	ROAD ZONE - CATEGORY 1	0m	Onsite
IN1Z	INDUSTRIAL 1 ZONE	0m	Onsite
PPRZ	PUBLIC PARK AND RECREATION ZONE	0m	Onsite
GRZ3	GENERAL RESIDENTIAL ZONE - SCHEDULE 3	0m	South East
PUZ7	PUBLIC USE ZONE - OTHER PUBLIC USE	0m	South East
UFZ	URBAN FLOODWAY ZONE	128m	West
UFZ	URBAN FLOODWAY ZONE	134m	North West

Planning Zone Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Planning Overlays

OSAR Proposed Road Alignments - Site 26 (Section 6)



Planning Overlays

OSAR Proposed Road Alignments - Site 26 (Section 6)

Planning Overlays

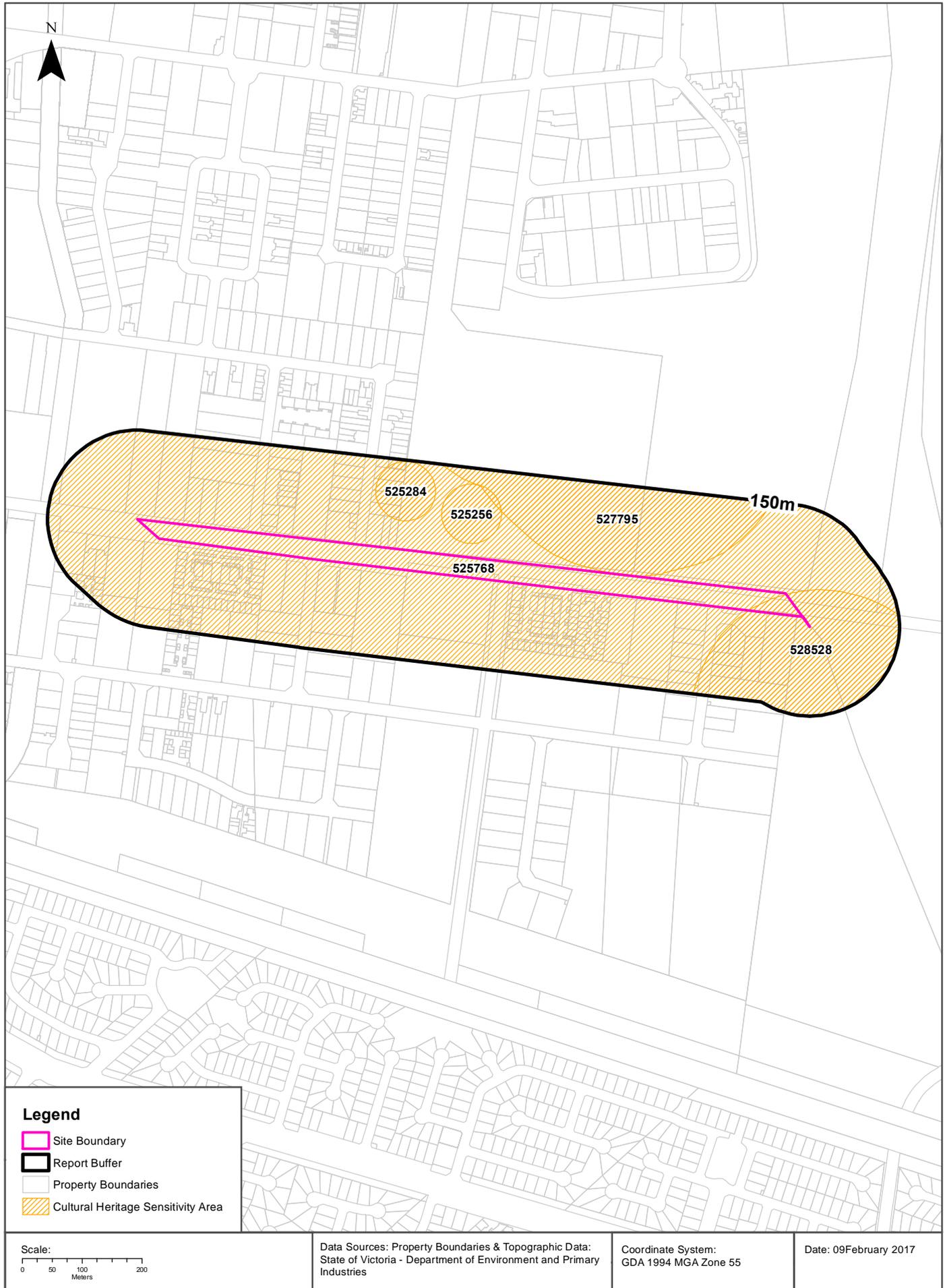
Planning overlays within the report buffer:

Zone Code	Description	Distance	Direction
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	0m	Onsite
PAO1	PUBLIC ACQUISITION OVERLAY 1	0m	Onsite
DDO6	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 6	0m	Onsite
IPO2	INCORPORATED PLAN OVERLAY - SCHEDULE 2	0m	Onsite

Planning Overlay Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Cultural Heritage Sensitivity

OSAR Proposed Road Alignments - Site 26 (Section 6)



Cultural Heritage Sensitivity

OSAR Proposed Road Alignments - Site 26 (Section 6)

Cultural Heritage Sensitivity

Areas of Cultural Heritage Sensitivity as specified in Division 3 of Part 2 in the Aboriginal Heritage Regulations 2007, within the report buffer:

Map Id	Culturally Sensitive	Distance	Direction
525768	YES	0m	Onsite
528528	YES	0m	Onsite
527795	YES	0m	Onsite
525256	YES	23m	North
525284	YES	48m	North West

Cultural Heritage Sensitivity Data Custodian: State Government Victoria - Dept of Planning and Community Development
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Natural Hazards

OSAR Proposed Road Alignments - Site 26 (Section 6)

Bushfire Prone Areas

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

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

Bushfire Prone Area Data Custodian: State Government Victoria - Dept of Transport, Planning & Local Infrastructure
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Fire History

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

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

Fire History Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Flood - 1 in 100 year modelled flood extent

What 1 in 100 year flood extent features exist within the report buffer?

Feature	Source	Method	Scale	Modified Date	Distance	Direction
N/A	No records within buffer					

Flood Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Ecological Constraints - Native Vegetation 2005 & RAMSAR Wetlands

OSAR Proposed Road Alignments - Site 26 (Section 6)



Ecological Constraints

OSAR Proposed Road Alignments - Site 26 (Section 6)

Native Vegetation (Modelled 2005 Ecological Vegetation Classes)

What native vegetation exists within the report buffer?

Veg Code	EVC Name	EVCCode	Group	Subgroup	Bioregion	Conservation Status	Geographic Occurance	Distance
GipP0053	Swamp Scrub	0053	Riparian Scrubs or Swampy Scrubs and Woodlands		Gippsland Plain	Endangered	Common	0m
GipP0125	Plains Grassy Wetland	0125	Wetlands	Freshwater	Gippsland Plain	Endangered	Naturally Restricted	0m
GipP0927	Plains Grassy Woodland/Swamp Scrub/Plains Grassy Wetland Mosaic	0927	Plains Woodlands or Forests	Freely-draining	Gippsland Plain	Endangered	not applicable	0m

Native Vegetation Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

RAMSAR Wetlands

What RAMSAR wetland areas exist within the report buffer?

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

RAMSAR Wetland Area Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

USE OF REPORT – APPLICABLE TERMS

The following terms apply to any person (End User) who is given the Report by the person who purchased the Report from Lotsearch Pty Ltd (ABN: 89 600 168 018) (Lotsearch) or who otherwise has access to the Report. The contract terms that apply between Lotsearch and the purchaser of the Report are specified in the order form pursuant to which the Report was ordered and the terms set out below are of no effect as between Lotsearch and the purchaser of the Report.

1. End User acknowledges and agrees that:
 - (a) the Report is compiled from or using content (**Third Party Content**) which is comprised of:
 - (i) content provided to Lotsearch by third party content suppliers with whom Lotsearch has contractual arrangements or content which is freely available (**Third Party Content Suppliers**);
 - (j) content which is derived from content described in paragraph (i);
 - (b) Lotsearch does not take any responsibility for or give any warranty in relation to the accuracy or completeness of any Third Party Content included in the Report;
 - (c) the Third Party Content Suppliers do not constitute an exhaustive set of all repositories or sources of information available in relation to the property which is the subject of the Report (**Property**);
 - (d) Lotsearch has not undertaken any physical inspection of the property;
 - (e) Lotsearch does not warrant that all land uses or features whether past or current are identified in the Report;
 - (f) the Report does not include any information relating to the actual state or condition of the Property;
 - (g) the Report should not be used or taken to indicate or exclude actual fitness or unfitness of a Property for any particular purpose;
 - (h) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
 - (i) the End User should undertake its own inspections of the Property to satisfy itself that there are no defects or failures.
2. The End User may not make the Report or any copies or extracts of the report or any part of it available to any other person. If End User wishes to provide the Report to any other person or make extracts or copies of the Report, it must contact the purchaser of the Report before doing so to ensure the proposed use is consistent with the contract terms between Lotsearch and the purchaser.
3. Neither Lotsearch (nor any of its officers, employees or agents) nor any of its Third Party Content Suppliers will have any liability to End User or any person to whom End User provides the Report and End User must not represent that Lotsearch or any of its Third Party Content Suppliers accepts liability to any such person or make any other representation to any such person on behalf of Lotsearch or any Third Party Content Supplier.
4. End User must not remove any copyright notices, trade marks, digital rights management information, other embedded information, disclaimers or limitations from the Report or authorise any person to do so.
5. End User acknowledges and agrees that Lotsearch and Third Party Content Suppliers retain ownership of all copyright, patent, design right (registered or unregistered), trade marks (registered or unregistered), database right or other data right, moral right or know how or any other intellectual property right in any Report or any other item, information or data included in or provided as part of a Report.
6. To the extent permitted by law and subject to paragraph 7, all implied terms, representations and warranties whether statutory or otherwise relating to the subject matter of these terms other than as expressly set out in these terms are excluded.
7. Subject to paragraph 8, Lotsearch excludes liability to End User for loss or damage of any kind, however caused, due to Lotsearch's negligence, breach of contract, breach of any law, in equity, under indemnities or otherwise, arising out of all acts, omissions and events whenever occurring.
8. Lotsearch acknowledges that if, under applicable State, Territory or Commonwealth law, End User is a consumer certain rights may be conferred on End User which cannot be excluded, restricted or modified. If so, and if that law applies to Lotsearch, then, Lotsearch's liability is limited to the greater of an amount equal to the cost of resupplying the Report and the maximum extent permitted under applicable laws.
9. Subject to paragraph 7, neither Lotsearch nor the End User is liable to the other for any indirect, incidental, consequential, special or exemplary damages arising out of or in relation to these terms.
10. These terms are subject to New South Wales law.

Environmental Risk and Planning Report

Proposed Road Alignments - Mordialloc Bypass (Section 7)

Report Buffer: 150m

Report Date: 09 Feb 2017 13:43:48

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.

Table of Contents

Location Confidences.....	2
Dataset Listings	3
Site Location Aerial	5
Topographic Features	6
Elevation Contours.....	7
EPA Records.....	8
Waste Management Facilities	11
Historical Business Activities.....	12
Historical Aerial Imagery & Maps	14
Features of Interest	21
Hydrogeology & Groundwater	23
Groundwater Boreholes	24
Geology	29
Coastal Acid Sulfate Soils	32
Planning Zones	34
Planning Overlays	36
Cultural Heritage Sensitivity	38
Natural Hazards	40
Ecological Constraints.....	41
Terms & Conditions.....	43

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 "LocConf". These codes lookup to the following location confidences:

LC Code	Location Confidence
1	Georeferenced to the site location / premise or part of site
2	Georeferenced with the confidence of the general/approximate area
3	Georeferenced to the road or rail
4	Georeferenced to the road intersection
5	Feature is a buffered point
6	Land adjacent to Georeferenced Site
7	Georeferenced to a network of features

Dataset Listing

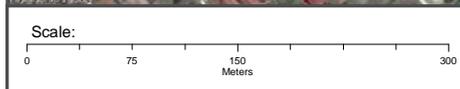
Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features in Buffer
Topographic and Cadastre data	State Government Victoria - Department of Environment, Land, Water & Planning	06/02/2017	06/02/2017	Quarterly	-	-	-
Current Priority Sites	Environment Protection Authority (Vic)	06/02/2017	31/12/2016	Monthly	0	0	0
Former Priority Sites & other Pollution Notices	Environment Protection Authority (Vic)	06/02/2017	05/01/2017	Monthly	0	0	0
EPA Environmental Audit Reports	Environment Protection Authority (Vic)	06/02/2017	24/11/2016	Monthly	0	0	0
Groundwater Zones with Restricted Uses	Environment Protection Authority (Vic)	06/02/2017	27/01/2017	Monthly	0	0	0
Licensed Activities	Environment Protection Authority (Vic)	06/02/2017	29/01/2017	Monthly	0	0	0
Former Licensed Activities	Environment Protection Authority (Vic)	06/02/2017	29/01/2017	Monthly	0	0	0
Works Approvals	Environment Protection Authority (Vic)	06/02/2017	06/02/2017	Monthly	0	0	0
National Waste Management Site Database	Geoscience Australia	06/02/2017	15/11/2012	Quarterly	0	0	0
Statewide Waste and Resource Recovery Infrastructure Plan Facilities	State Government Victoria - Department of Sustainability	27/11/2014	31/12/2012	None planned	0	0	0
EPA Prescribed Industrial Waste	Environment Protection Authority (Vic)	04/01/2017	04/01/2017	Quarterly	0	0	0
UBD Business to Business Directory 1991	Hardie Grant			Not required	0	0	0
UBD Business to Business Directory 1991 - Garages & Service Stations	Hardie Grant			Not required	0	0	0
UBD Business Directory 1980	Hardie Grant			Not required	0	0	0
UBD Business Directory 1980 Drycleaners, Motor Garages & Service Stations	Hardie Grant			Not required	0	0	0
Features of Interest	State Government Victoria - Department of Environment, Land, Water & Planning	03/02/2017	27/01/2017	Quarterly	3	4	4
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1	1	1
Groundwater Salinity	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Unknown	2	-	-
Depth to Watertable	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Unknown	1	-	-
Surface Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Unknown	1	-	-
Basement Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Unknown	1	-	-
Groundwater Boreholes WMIS	State Government Victoria - Department of Environment, Land, Water & Planning	29/04/2016	28/04/2016	Annually	0	0	36
Groundwater Boreholes Earth Resources Database	The State of Victoria, Department of Economic Development, Jobs, Transport and Resources	29/04/2016	17/02/2010	As required	0	0	10
Groundwater Boreholes Fed Uni	Federation University Australia	29/04/2016	07/01/2014	As required	0	0	0
Geological Units 1:250,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	1	-	1
Geological Structures 1:250,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	0	-	0
Shear zones 250k	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	0	-	0
Coastal Acid Sulfate Soils	The State of Victoria, Department of Economic Development, Jobs, Transport and Resources	15/07/2016	30/03/2011	None planned	2	2	2
Planning Scheme Zones	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	5	6	7

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features in Buffer
Planning Scheme Overlay	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	5	5	5
Cultural Heritage Sensitivity	State Government Victoria - Department of Planning and Community Development	03/02/2017	27/01/2017	Quarterly	2	2	2
Bushfire Prone Area	State Government Victoria - Department of Transport, Planning and Local Infrastructure	27/01/2017	27/01/2017	Quarterly	0	0	0
Fire History	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	0	0	0
Flood - 1 in 100 Year Modelled Flood Extent	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	0	0	0
Native Vegetation (Modelled 2005 Ecological Vegetation Classes)	State Government Victoria - Department of Environment, Land, Water & Planning	13/01/2015	31/12/2005	None planned	1	1	1
RAMSAR Wetlands	State Government Victoria - Department of Environment, Land, Water & Planning	13/01/2015	24/06/2013	None planned	0	0	0

Aerial Imagery 2016

OSAR Proposed Road Alignments - Site 26 (Section 7)



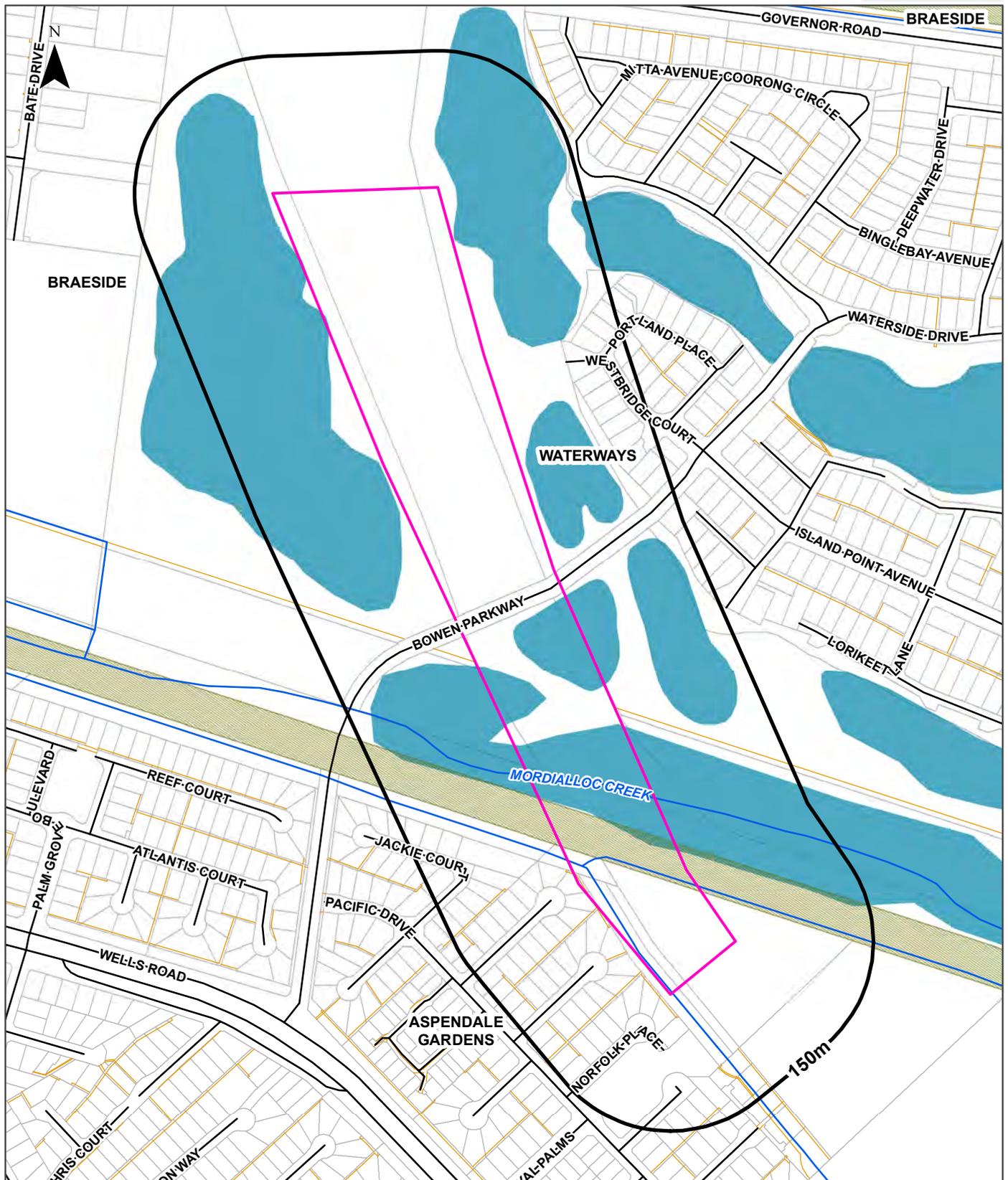
Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System: GDA 1994 MGA Zone 55

Date: 09February, 2017

Topographic Data

OSAR Proposed Road Alignments - Site 26 (Section 7)

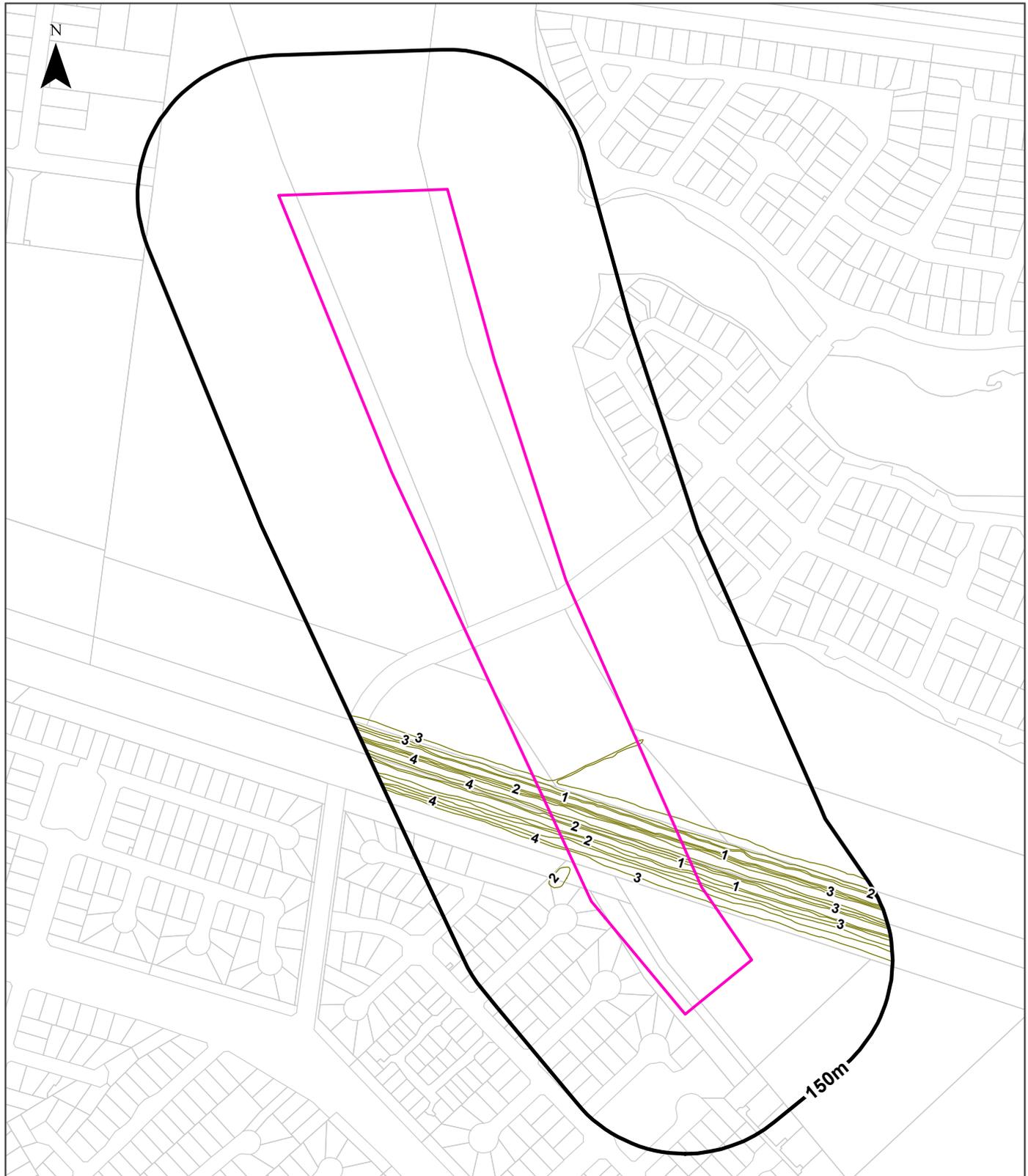


Legend				
Site Boundary	Water Area	Major Road	Railway	Watercourse
Report Buffer	Crown or Commonwealth Land	Road	Light Rail	Easement
Property Boundaries	Statewide Forest	Track/Pathway	Rail - Underground/Tunnel	

<p>Scale:</p>	<p>Data Sources: Property Boundaries & Topographic Data: State of Victoria - Department of Environment and Primary Industries</p>	<p>Coordinate System: GDA 1994 MGA Zone 55</p>	<p>Date: 09February 2017</p>
---------------	---	--	------------------------------

Elevation Contours (m AHD)

OSAR Proposed Road Alignments - Site 26 (Section 7)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Elevation Contour (m AHD)

Accuracy & Currency: The vertical accuracy of these contours is +/-0.5m and must therefore not be used for any design or engineering works, but only as a general guide to topography. Gaps may occur along contour lines due to vertical topography, obscured topography in the source mapping such as buildings, quarries, dense vegetation or dead ground, or the fact that original buildings have been replaced in the intervening forty years since the original contour capture. Original contour capture occurred between 1970 and 1985.



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 7)

Current EPA Priority Sites Register

What sites on the current EPA priority sites register exist within the report buffer?

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

Priority Sites Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Former EPA Priority Sites & Other Pollution Notices

What sites within the report buffer 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.

Notice No	Notice Type	Company	Address	Suburb	Status	Issue	Date Issued	Loc Conf	Dist	Dir
N/A	No records in buffer									

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

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 7)

EPA Environmental Audits

What EPA environmental audit records exist within the report 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.

CARMS No	Transaction No	Site	Address	Suburb	Date Complete	Loc Conf	Distance	Direction
N/A	No records in buffer							

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

EPA Groundwater Zones with Restricted Uses

What EPA GQRUZ exist within the report buffer?

Note. Please click on CARMS No. to activate a hyperlink to online documentation.

CARMS No	EPA Id	Site History	Site Address	Restricted Uses	Loc Conf	Distance	Direction
N/A	No records in buffer						

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

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 7)

EPA Licensed Activities

What EPA licensed activities exist within the report 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									

Licensed Activity Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Former EPA Licensed Activities

What former EPA licensed activities exist within the report buffer?

Licence No	Organisation	Premise Address	Suburb	Activities	Loc Conf	Dist (m)	Direction
N/A	No records in buffer						

Former Licensed Activity Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

EPA Works Approvals

What EPA works approvals exist within the report buffer?

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

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

Waste Management Facilities

OSAR Proposed Road Alignments - Site 26 (Section 7)

National Waste Management Site Database

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

Site Id	Owner	Name	Address	Suburb	Postcode	Landfill	Reprocess	Transfer	Loc Conf	Dist (m)	Direction
N/A	No records in buffer										

Waste Management Facilities Data Source: Australian Government Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Statewide Waste and Resource Recovery Infrastructure Plan Facilities

Statewide Waste and Resource Recovery Infrastructure Plan Facilities within the report 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

EPA Prescribed Industrial Waste

EPA Prescribed industrial waste sites within the report buffer:

Map Id	Company Name	Address	Suburb	Treatment /Disposal	Transport	Accredited Agent	EPA List Status	Loc Conf	Dist (m)	Direct
N/A	No records in buffer									

Prescribed Industrial Waste Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 7)

1991 Business to Business Directory Records

1991 UBD Business Directory Records within 150m of the site:

Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1991 Business to Business Directory Garages & Service Stations

1991 UBD Business Directory Garages & Service Stations within 1km of the site:

Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 7)

1980 Business Directory Records

1980 UBD Business Directory Records within 150m of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1980 Business Directory Drycleaners, Garages & Service Stations

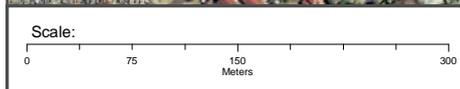
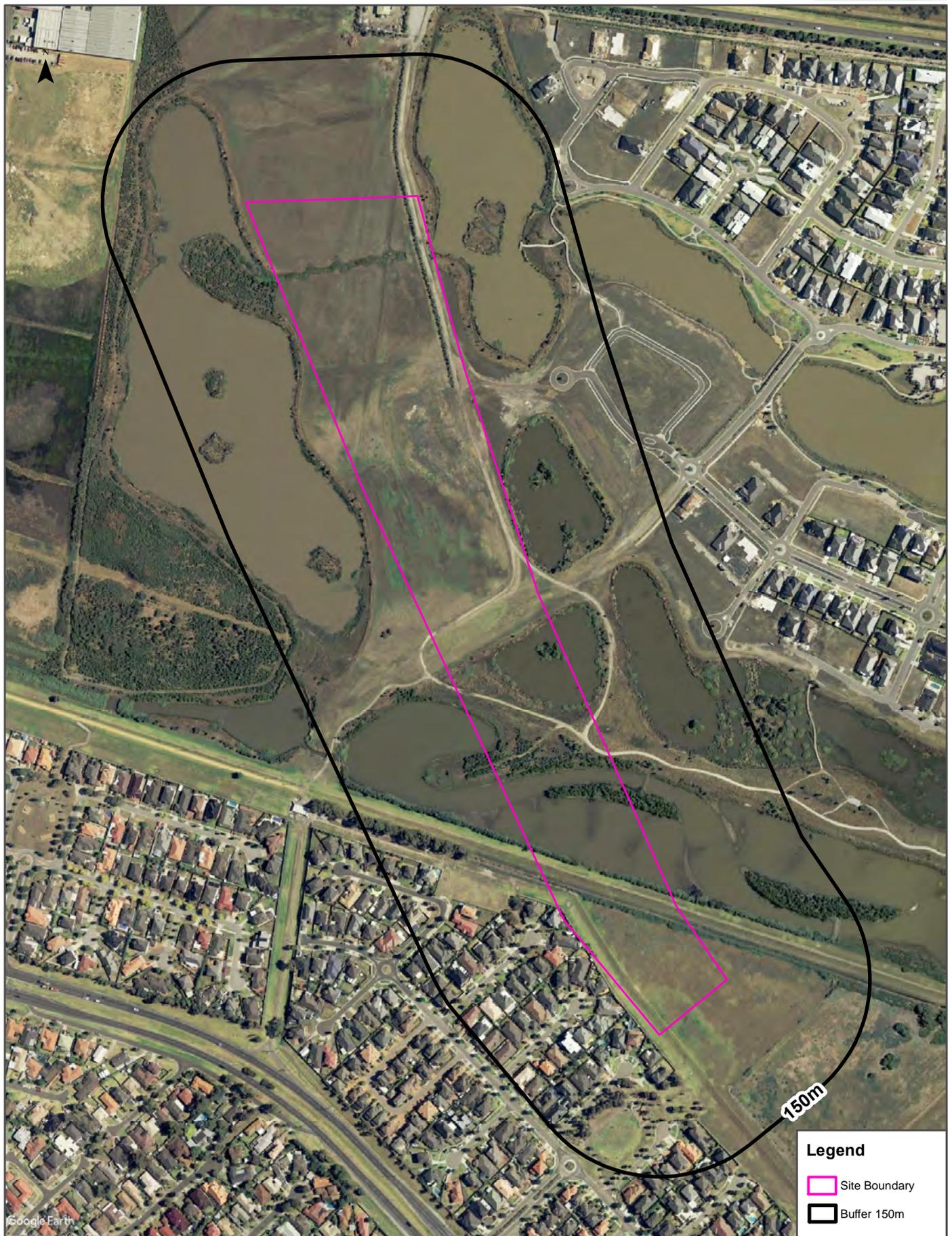
Drycleaners, Garages & Service Stations from the 1980 UBD Business Directory within 1km of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Aerial Imagery 2009

OSAR Proposed Road Alignments - Site 26 (Section 7)



Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 55

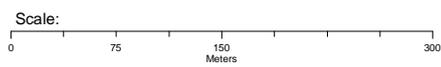
Date: 09February, 2017

Aerial Imagery 2005

OSAR Proposed Road Alignments - Site 26 (Section 7)



Google Earth
11/20/2017 12:28:43



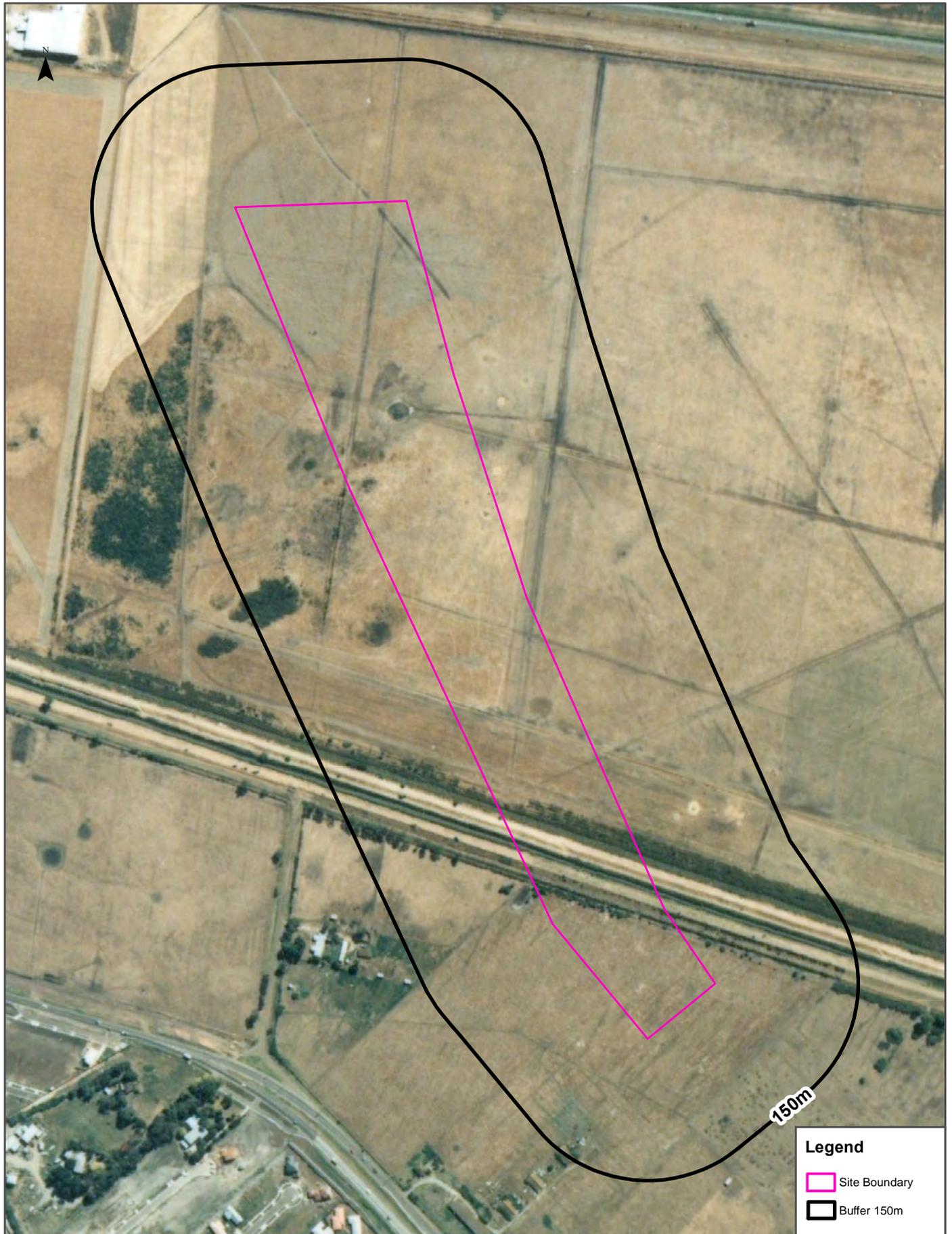
Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February, 2017

Aerial Imagery 1990

OSAR Proposed Road Alignments - Site 26 (Section 7)

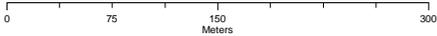


150m

Legend

-  Site Boundary
-  Buffer 150m

Scale:



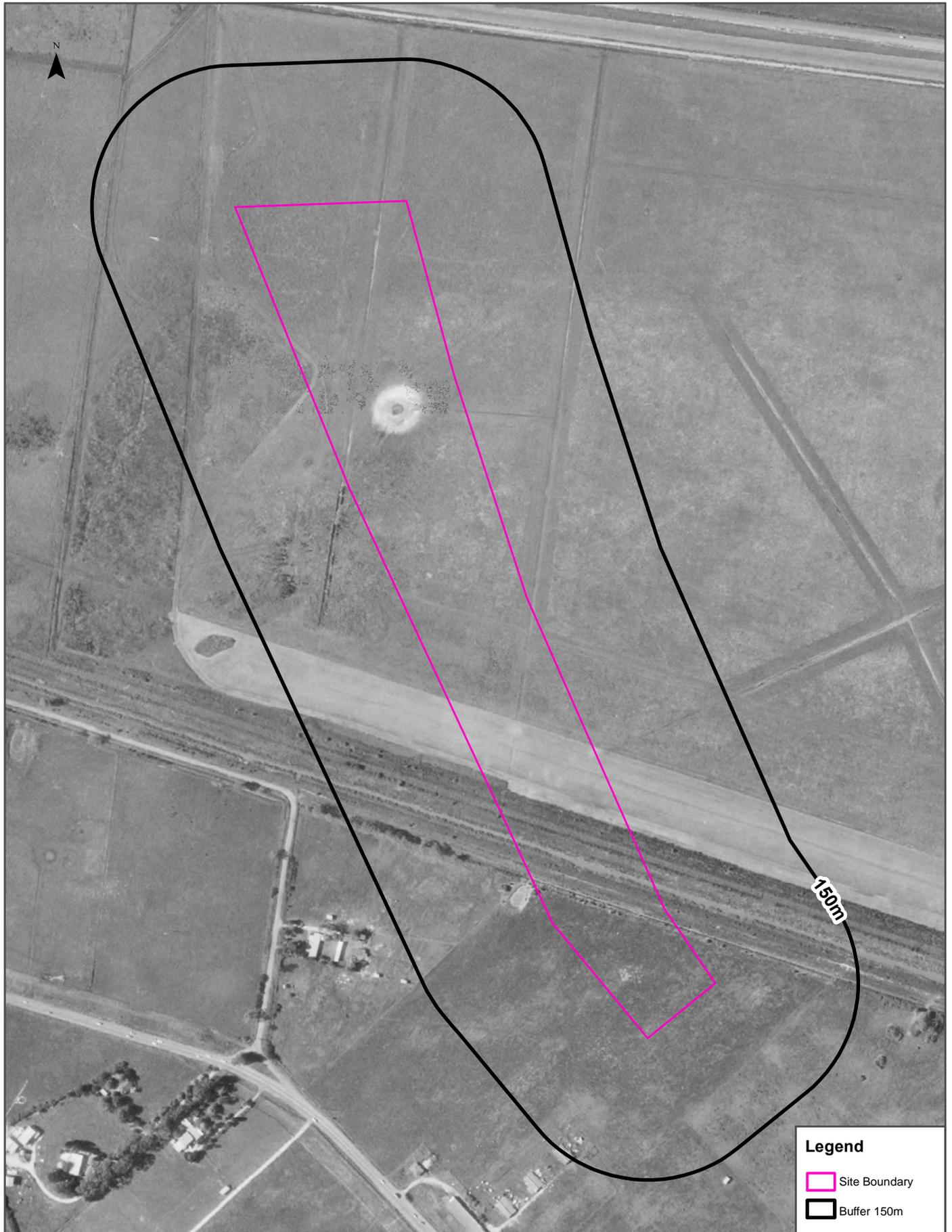
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

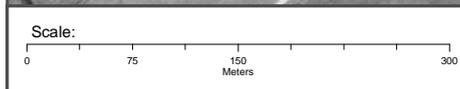
Date: 09February, 2017

Aerial Imagery 1985

OSAR Proposed Road Alignments - Site 26 (Section 7)



Legend	
	Site Boundary
	Buffer 150m



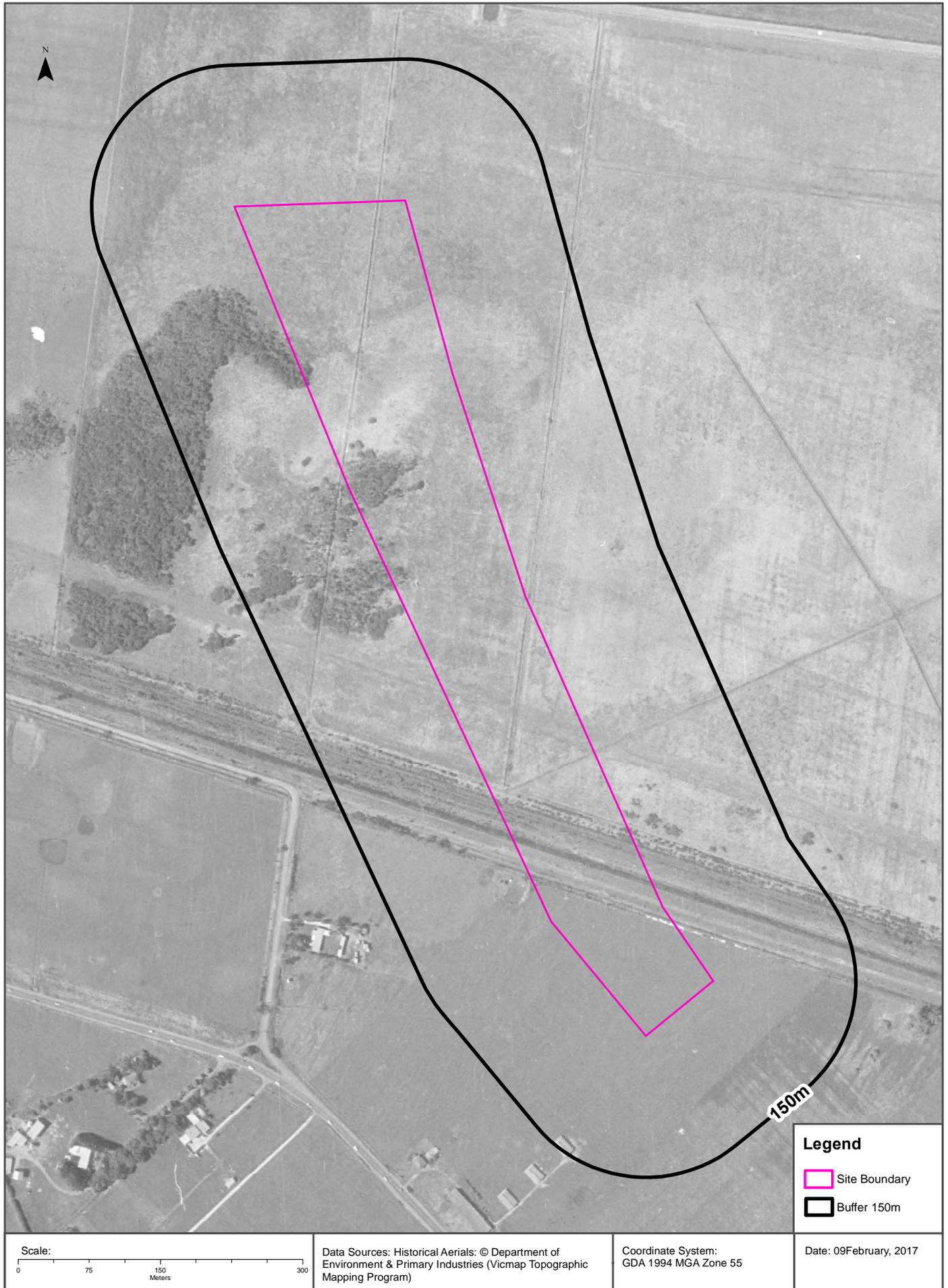
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 10February 2017

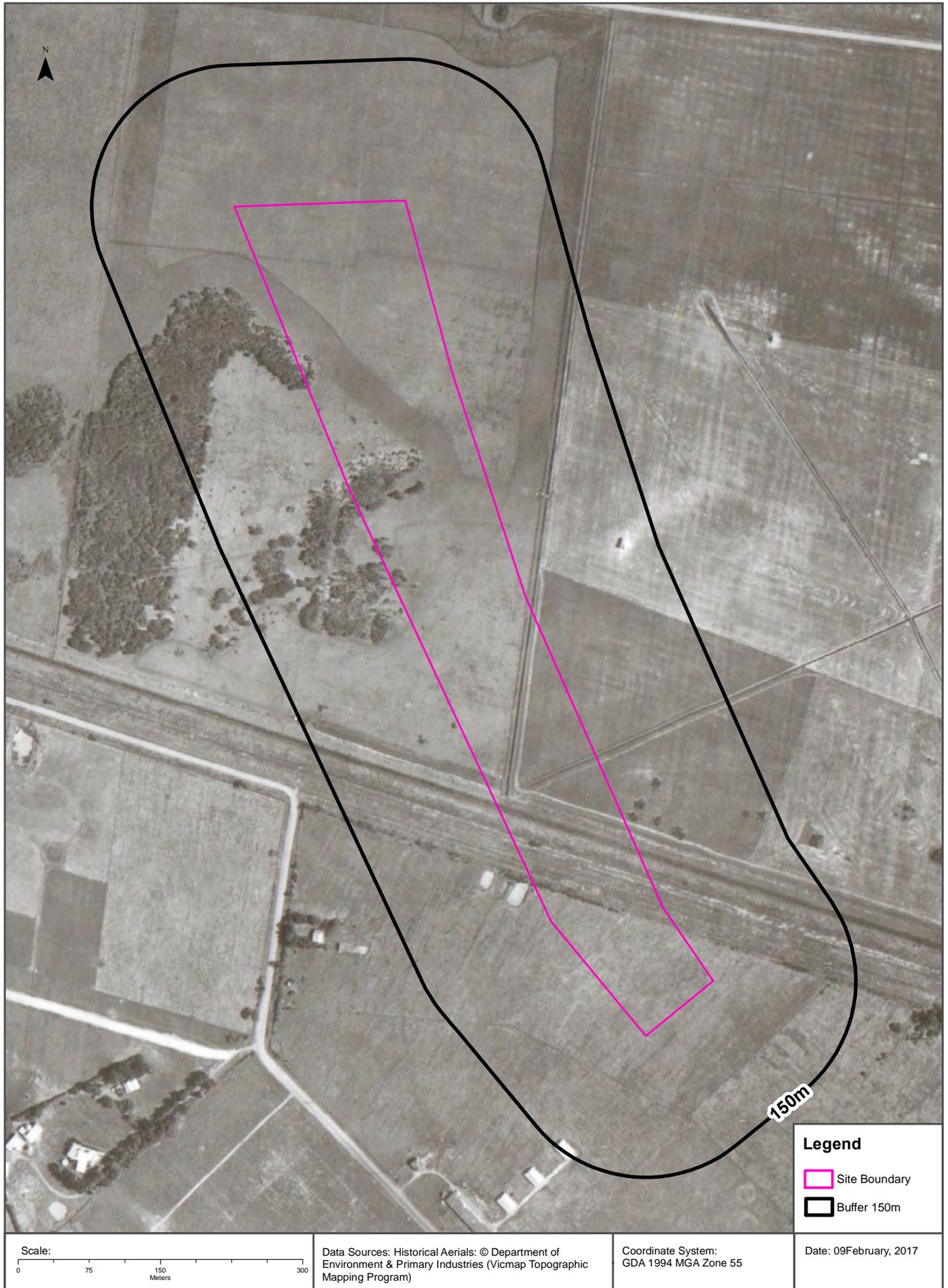
Aerial Imagery 1974

OSAR Proposed Road Alignments - Site 26 (Section 7)



Aerial Imagery 1966

OSAR Proposed Road Alignments - Site 26 (Section 7)



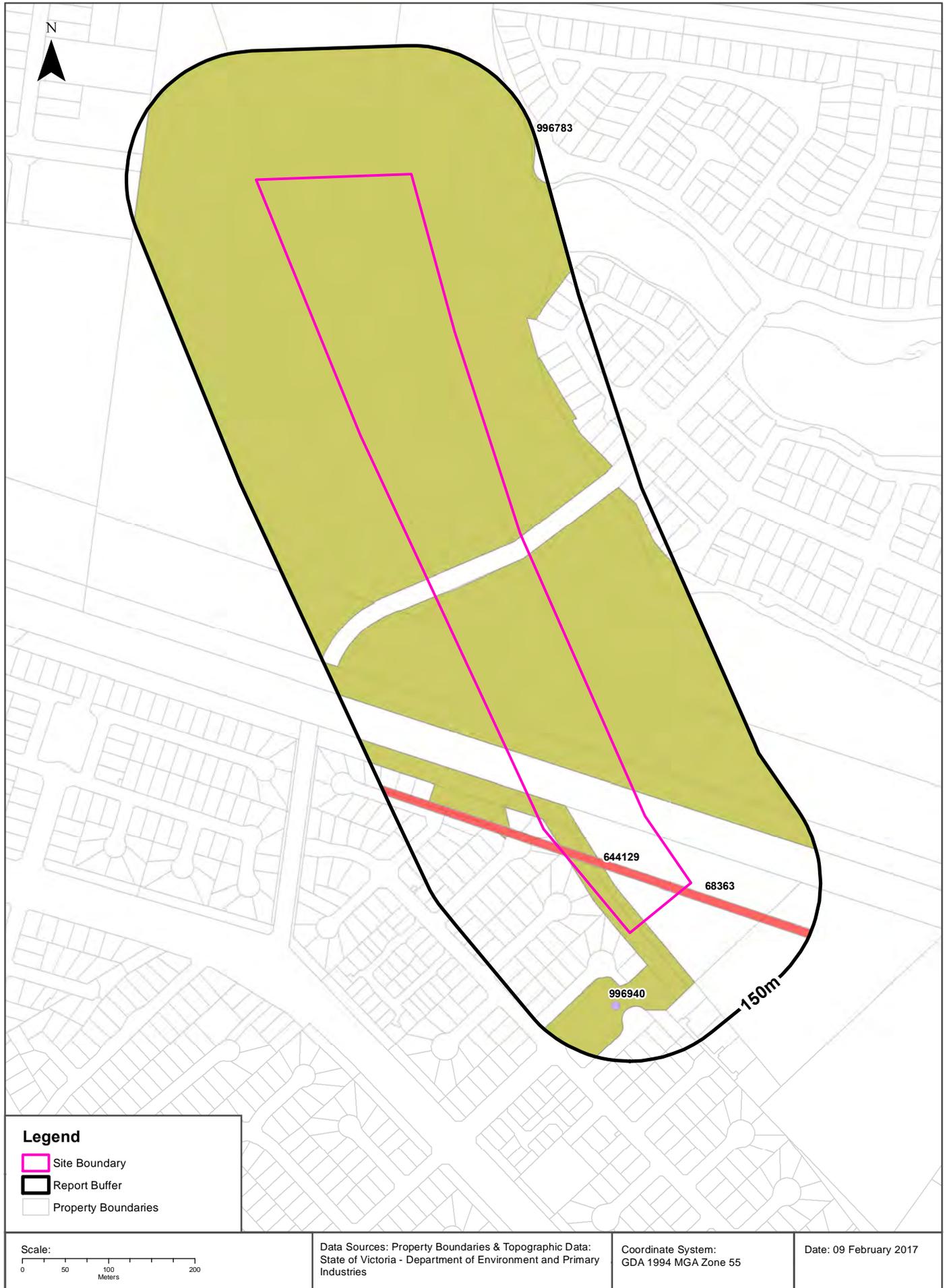
Aerial Imagery 1951

OSAR Proposed Road Alignments - Site 26 (Section 7)



Features of Interest

OSAR Proposed Road Alignments - Site 26 (Section 7)



Features of Interest

OSAR Proposed Road Alignments - Site 26 (Section 7)

Features of Interest

Features of Interest within 1km of the site:

Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
996783	reserve	park		0m	Onsite
644129	reserve	park		0m	Onsite
68363	pipeline	gas pipeline	Dutson To Hastings	0m	Onsite
996940	recreational resource	playground		82m	South

Features of Interest Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

OSAR Proposed Road Alignments - Site 26 (Section 7)

Hydrogeology

Description of aquifers within report buffer:

Description	Distance	Direction
Porous, extensive highly productive aquifers	0m	Onsite

Hydrogeology Map of Australia: Commonwealth of Australia (Geoscience Australia)
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Salinity

On-site Groundwater Salinity:

Groundwater Salinity	Percent Of Site Area
1,000 - 3,500 mg/l	92
3,500 - 7,000 mg/l	8

Depth to Watertable

On-site Depth to Watertable:

Depth to Watertable	Percent Of Site Area
Less than 5 metres	100

Surface Elevation

Approximate on-site Surface Elevation:

Surface Elevation
3 AHDm

Basement Elevation

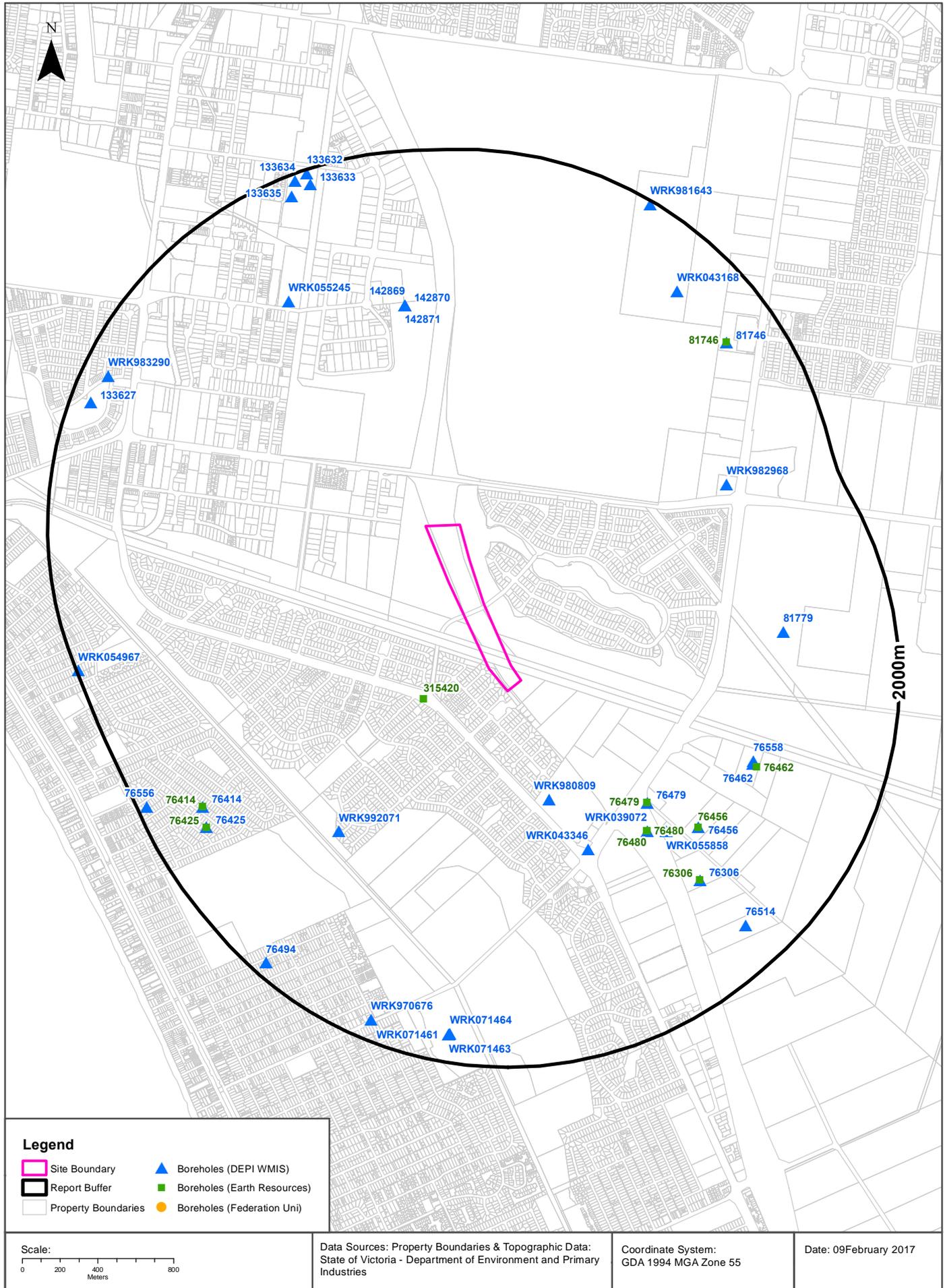
Approximate on-site Basement Elevation:

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
-53 AHDm to -46 AHDm

Groundwater Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 7)



Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 7)

Boreholes (DEPI WMIS)

Boreholes from the Department of Environment and Primary Industries' Water Measurement Information System, within the report buffer:

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK980809							615	South
76479	Domestic	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-12.00m SANDY CLAY 12.00m-19.00m SAND (MEDIUM) 19.00m-24.38m CLAY IRONSTONE BANDS	0.00m-12.19m INNER LINING - CASING = Pvc Class 9 12.19m-18.29m INNER LINING - SCREEN = Pvc Class 9 18.29m-24.38m INNER LINING - CASING = Pvc Class 9		12.19m-18.29m Sand	1986-01-11	931	South East
WRK043346							940	South East
WRK039072	Domestic, Irrigation, Stock	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-18.00m SANDY CLAY 18.00m-22.00m SAND (MEDIUM) 22.00m-24.38m CLAY (IRONSTONE BANDS)	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-21.34m INNER LINING - SCREEN = Pvc 21.34m-24.38m INNER LINING - CASING = Pvc		18.29m-21.34m Sand	1986-01-09	1041	South East
WRK055858	Irrigation						1110	South East
WRK992071							1162	South West
142869	Groundwater Investigation	0.00m-14.40m SANDY CLAY	0.00m-11.40m INNER LINING - CASING = Pvc 11.40m-14.40m INNER LINING - SCREEN = Pvc 10.40m-10.90m OUTER LINING - GRAVEL = Bentonite 10.90m-14.40m OUTER LINING - GRAVEL = Gravel			1999-11-03	1182	North
142870	Groundwater Investigation	0.00m-12.50m SANDY CLAY	0.00m-5.00m INNER LINING - CASING = Pvc 5.00m-12.50m INNER LINING - SCREEN = Pvc 0.00m-4.00m OUTER LINING - GRAVEL = Cement 4.00m-4.50m OUTER LINING - GRAVEL = Bentonite 4.50m-12.50m OUTER LINING - GRAVEL = Gravel			1999-10-18	1182	North
142871	Groundwater Investigation	0.00m-12.50m SANDY CLAY	0.00m-5.00m INNER LINING - CASING = Pvc 5.00m-12.00m INNER LINING - SCREEN = Pvc 0.00m-4.00m OUTER LINING - GRAVEL = Cement 4.00m-4.50m OUTER LINING - GRAVEL = Bentonite 4.50m-12.50m OUTER LINING - GRAVEL = Gravel			1999-10-18	1182	North
76456	Domestic, Stock	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-12.00m SANDY CLAY 12.00m-18.00m SAND (MEDIUM) 18.00m-22.25m CLAY WITH IRONSTONE BANDS	0.00m-12.19m INNER LINING - CASING = Pvc 12.19m-18.29m INNER LINING - SCREEN = Pvc 18.29m-22.25m INNER LINING - CASING = Pvc		12.19m-18.29m Sand	1983-11-23	1218	South East
76558	Not Known					1988-01-01	1299	South East
76462	Agro Industries, Domestic, Stock	0.00m-2.44m BLACK TOPSOIL 2.44m-3.00m GREY CLAY 3.00m-12.19m RED CLAY 12.19m-18.29m GREY SANDY CLAY 18.29m-21.34m COARSE SAND	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-21.34m INNER LINING - SCREEN = Pvc		18.29m-21.34m Sand	1982-12-27	1303	South East
WRK055245	Observation		0.00m-2.00m INNER LINING - CASING = Pvc 2.00m-8.00m INNER LINING - SCREEN = Pvc 0.00m-1.50m OUTER LINING - GRAVEL = Bentonite 1.50m-8.00m OUTER LINING - GRAVEL = Gravel			2010-02-23	1398	North West

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
81779	Not Known	0.00m-0.70m SANDY LOAM 0.70m-3.00m GREY CLAYEY SAND 3.00m-10.00m ORANGE SANDS 10.00m-14.00m GREY SANDS 14.00m-17.50m BLACK SANDS	0.00m-10.50m INNER LINING - CASING = Pvc 10.50m-16.50m INNER LINING - SCREEN = Pvc 16.50m-17.50m INNER LINING - CASING = Pvc 8.50m-17.50m OUTER LINING - GRAVEL = Not Known		10.50m-16.50m Sand	1988-12-08	1409	East
WRK982968							1416	North East
76306	Domestic	0.00m-3.00m BLACK CLAY 3.00m-11.00m YELLOW CLAY 11.00m-18.00m SANDY CLAY 18.00m-24.38m SAND (MEDIUM)	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-24.38m INNER LINING - SCREEN = Pvc		18.29m-24.38m Sand	1986-01-13	1421	South East
76414	Domestic	0.00m-1.30m PEAT - CLAY 1.30m-2.30m SAND - WET 2.30m-4.57m CLAY - WET 4.57m-0.00m WHITE-GREY SANDSTONE	0.00m-3.96m INNER LINING - CASING = Pvc 3.96m-4.57m INNER LINING - SCREEN = Pvc		3.96m-4.57m Sandstone	1983-02-24	1681	South West
WRK043168	Irrigation					1982-01-01	1694	North East
81746	Domestic	0.00m-3.05m BROWN CLAY 3.05m-15.24m BROWN SANDY CLAY 15.24m-24.38m BLUE GREY GRAVELLY CLAY 24.38m-39.62m GREY GREEN SANDY CLAY 39.62m-45.41m GREY GREEN GRAVELLY CLAY	0.00m-4.57m INNER LINING - CASING = Pvc 0.00m-33.05m INNER LINING - CASING = Pvc 33.05m-38.10m INNER LINING - SCREEN = Pvc 39.92m-41.15m INNER LINING - SCREEN = Wire W S/Steel		33.05m-38.10m Clay 39.92m-41.15m Clay	1982-02-28	1711	North East
76425	Domestic	0.00m-0.61m LOAM 0.61m-1.06m WHITE SAND 1.06m-1.37m BLACK CLAY 1.37m-1.83m GREY SAND AND SHELLS 1.83m-2.27m BLACK CLAY 2.27m-2.74m GREY SAND AND SEA SHELLS 2.74m-3.35m BLACK CLAY 3.35m-3.66m GREY SAND AND SEA SHELLS 3.66m-4.57m BLACK CLAY 4.57m-5.18m GREY SAND AND SEA SHELLS	0.00m-4.57m INNER LINING - CASING = Pvc 4.57m-5.18m INNER LINING - SCREEN = Pvc		4.57m-5.18m Sand	1983-12-12	1715	South West
76514	Domestic	0.00m-3.00m STILL BLACK CLAY 3.00m-6.00m YELLOW BROWN SANDY CLAY 6.00m-9.50m YELLOW BROWN LOOSE SAND 9.50m-14.00m YELLOW BROWN SANDY CLAY 14.00m-20.00m YELLOW BROWN LOOSE SAND	0.00m-12.50m INNER LINING - CASING = Not Known 12.50m-18.30m INNER LINING - SCREEN = Not Known 40.00m-0.00m OUTER LINING - GRAVEL = Not Known		12.50m-18.30m Sand	1990-02-27	1760	South East
WRK071464	Observation					2012-10-11	1847	South
WRK071461	Observation	0.00m-0.60m SOIL 0.60m-7.30m SAND	0.00m-3.00m INNER LINING - CASING = Pvc 3.00m-7.50m INNER LINING - SCREEN = Pvc 0.00m-0.10m OUTER LINING - GRAVEL = Cement 0.10m-3.00m OUTER LINING - GRAVEL = Bentonite 3.00m-7.50m OUTER LINING - GRAVEL = Gravel		3.00m-7.50m Sand	2012-10-11	1851	South
WRK071462	Observation					2012-10-11	1851	South
WRK071463	Observation					2012-10-11	1851	South
WRK983290							1859	North West
133627	Groundwater Investigation	0.00m-0.50m CLAY 0.50m-1.40m FILL CRUSEHD ROCK & SILTSTONE 1.40m-4.00m CLAY	1.00m-4.00m INNER LINING - SCREEN = Not Known		1.00m-4.00m Clay	1998-04-21	1887	North West
WRK970676							1889	South
133635	Groundwater Investigation	0.00m-1.50m FILL SANDY LOAM 1.50m-2.00m CLAY 2.00m-6.50m SANDY CLAY				1998-01-21	1894	North West
133633	Groundwater Investigation	0.00m-1.30m FILL SAND & SANDY CLAY 1.30m-6.00m SANDY CLAY				1998-01-21	1916	North
76494	Domestic	0.00m-0.60m BLACK SANDY TOP SOIL 0.60m-1.00m BROWN CLAY SAND - FINE 1.00m-2.13m YELLOW CALCAREOUS SHELLY SAND - COARSE 2.13m-3.00m AS ABOVE TENDING GREY TO BLACK AND FINE GRAINED 3.00m-4.50m LIGNEOUS BLACK CLAY	-0.10m-2.10m INNER LINING - CASING = Pvc Class 12 2.10m-2.74m INNER LINING - SCREEN = Pvc Class 12 1.50m-3.00m OUTER LINING - GRAVEL = Gravel		2.10m-2.74m Marl	1987-01-09	1927	South West
76556	Not Known					1988-01-01	1949	South West

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
133634	Groundwater Investigation	0.00m-1.00m FILL FRAVEL & SANDY CLAY 1.00m-5.50m SANDY CLAY 5.50m-6.00m CLAYEY SAND				1998-01-21	1962	North West
133632	Groundwater Investigation	0.00m-0.90m FILL CLAYEY SILT 0.90m-3.50m SANDY CLAY 3.50m-6.00m CLAYEY SAND				1998-01-21	1979	North
WRK981643							1981	North East
WRK054967	Domestic & Stock	0.00m-0.30m top soil 0.30m-8.00m old sea bed 8.00m-9.00m soft sandstone 9.00m-12.00m brown sands 12.00m-13.00m soft sandstone 13.00m-16.00m sands 16.00m-17.00m soft sandstone 17.00m-18.00m sands	0.00m-11.00m INNER LINING - CASING = Pvc 11.00m-17.00m INNER LINING - SCREEN = Pvc		0.00m-11.00m Sand 11.00m-17.00m Sand	2010-02-10	1991	West

Boreholes WMIS Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 7)

Boreholes (Earth Resources Database)

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

Bore Id	Bore Type	Company	Usage	Method	Status	Drill Date	Depth	Elevation	Accuracy (m)	Dist (m)	Direct
315420		Department of Manufacturing & Industry Development				31/12/1928	67.06	20.00	100	382	South West
76479		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		11/01/1986	24.38		100	928	South East
76480		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		09/01/1986	24.38		100	1039	South East
76480		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		09/01/1986	24.38		100	1039	South East
76456		Private Individual/Corporation	Domestic & Stock water supply	Air Percussion/Air Rotary		23/11/1983	22.25		100	1216	South East
76462		Private Individual/Corporation	Stock/Poultry water supply	Air Percussion/Air Rotary		27/12/1982	21.34		100	1325	South East
76306		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		13/01/1986	60.96		100	1418	South East
76414		Private Individual/Corporation	Domestic water supply	Hand Auger		24/02/1983	4.57		100	1682	South West
81746		Private Individual/Corporation	Domestic water supply	Rotary (diamond/drag bit)		28/02/1982	45.41		100	1710	North East
76425		Private Individual/Corporation	Domestic water supply	Spear point (multiple system)		12/12/1983	5.18		100	1716	South West

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)

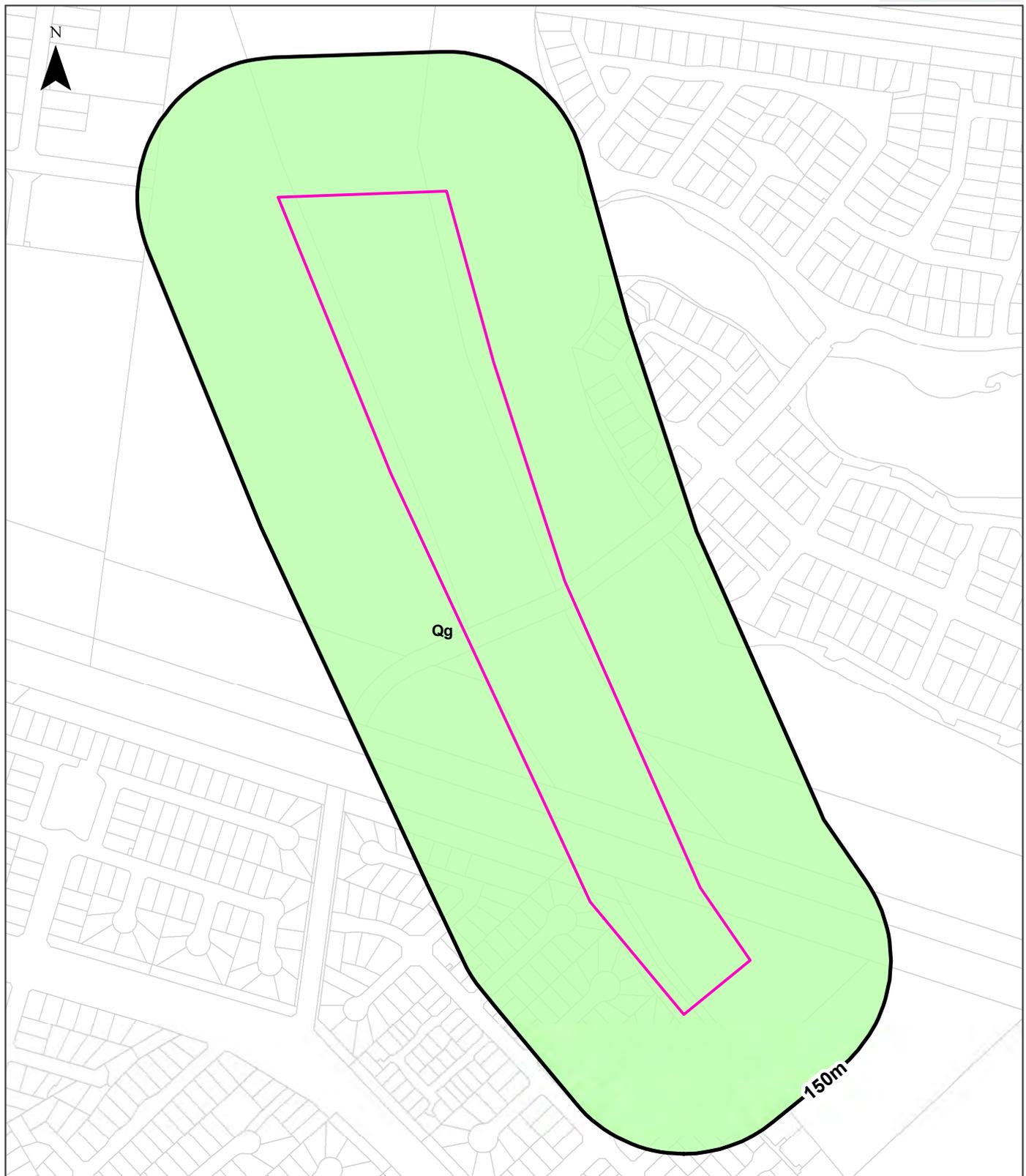
Boreholes from the Federation University Australia dataset, within the report buffer:

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

Boreholes FedUni Data Source: © Federation University Australia

Geology 1:250,000

OSAR Proposed Road Alignments - Site 26 (Section 7)



Legend

Site Boundary	Geological Structures
Report Buffer	Fault
Property Boundaries	Faulted Contact
Shear Zone	Other



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary
Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Geology

OSAR Proposed Road Alignments - Site 26 (Section 7)

Geological Units

What are the Geological Units onsite?

Symbol	Name	Description	Geological Age	Lithology	Dataset
Qg	coastal lagoon deposits (Qg): generic	Silt, clay: dark grey to black; variably consolidated	Holocene to Holocene	silt material (significant); clay lithology (significant)	1:250,000

What are the Geological Units within the report buffer?

Symbol	Name	Description	Geological Age	Lithology	Dataset
Qg	coastal lagoon deposits (Qg): generic	Silt, clay: dark grey to black; variably consolidated	Holocene to Holocene	silt material (significant); clay lithology (significant)	1:250,000

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Geology

OSAR Proposed Road Alignments - Site 26 (Section 7)

Geological Structures

What are the Geological Faults or Faulted Contacts onsite?

Map Id	Type	Name	Contact	Positional Accuracy	Dataset
No features					1:250,000

What are the Dykes, Marker Beds and Veins onsite?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No Data Coverage					

What are the Shear Zones onsite (1:250,000 scale)?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No features					1:250,000

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

Map Id	Type	Name	Contact	Positional Accuracy	Dataset
No features					1:250,000

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

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No Data Coverage					

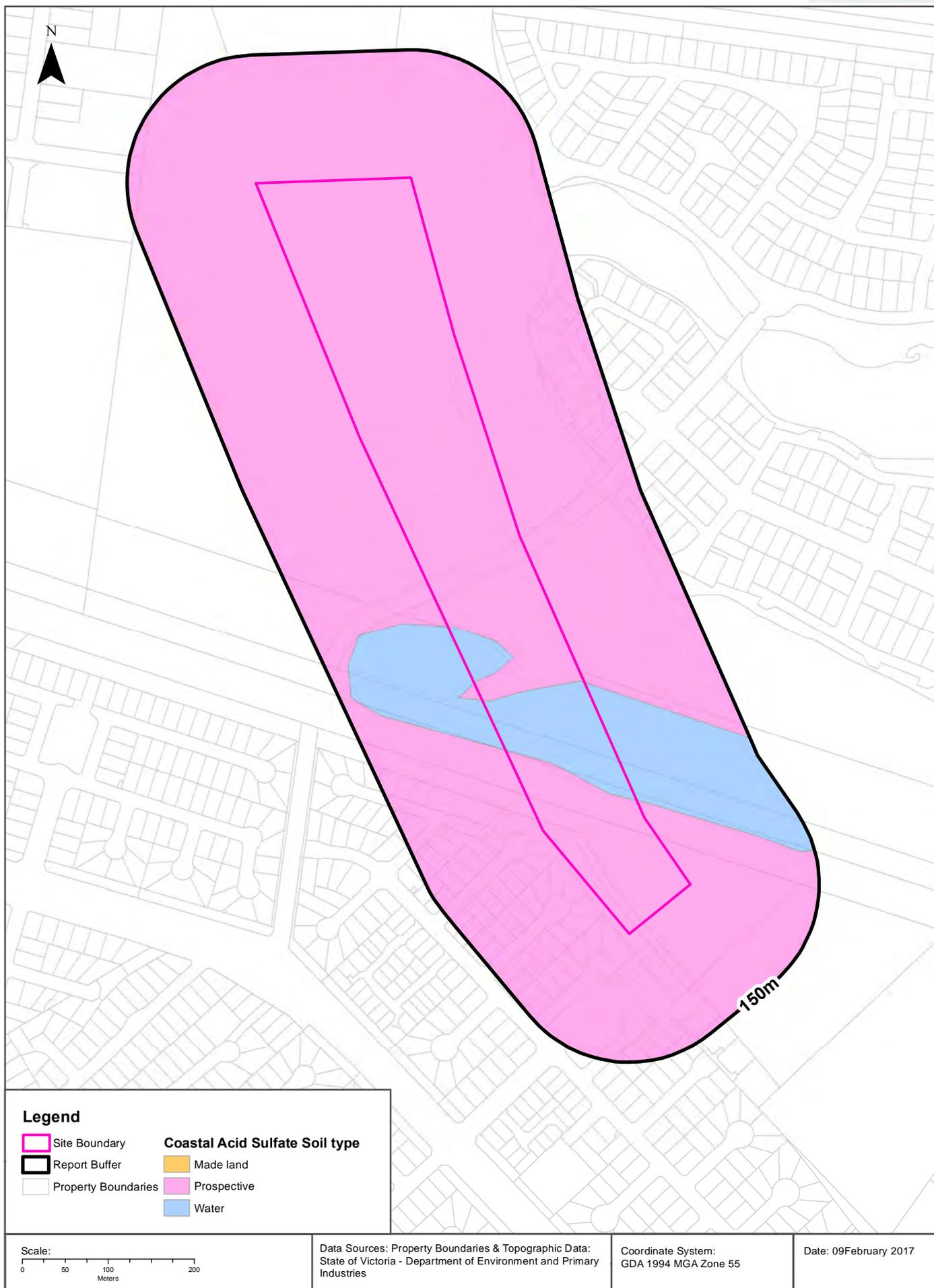
What are the Shear Zones within the report buffer (1:250,000 scale)?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No features					1:250,000

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Coastal Acid Sulfate Soils

OSAR Proposed Road Alignments - Site 26 (Section 7)



Coastal Acid Sulfate Soils

OSAR Proposed Road Alignments - Site 26 (Section 7)

Coastal Acid Sulfate Soils

What are the on-site Coastal Acid Sulfate Soil types?

Coastal Acid Sulfate Soil Types
Prospective
Water

What are the Coastal Acid Sulfate Soil types within the report buffer?

Coastal Acid Sulfate Soil Types	Distance	Direction
Prospective	0m	Onsite
Water	0m	Onsite

Coastal Acid Sulfate Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Planning Zones

OSAR Proposed Road Alignments - Site 26 (Section 7)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Scale: 0 50 100 200 Meters

Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Planning Zones

OSAR Proposed Road Alignments - Site 26 (Section 7)

Planning Zones

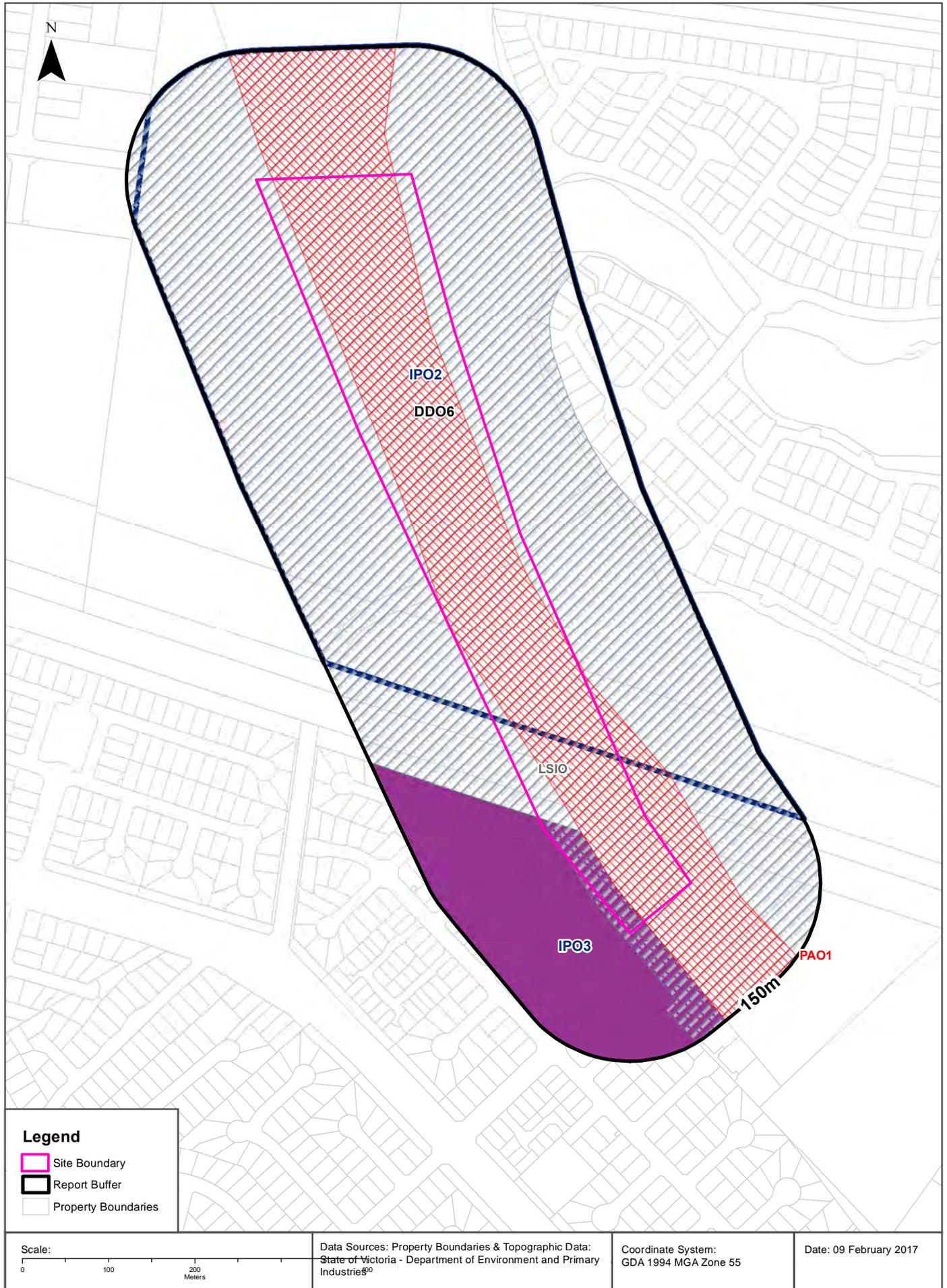
Planning zones within the report buffer:

Zone Code	Description	Distance	Direction
GRZ3	GENERAL RESIDENTIAL ZONE - SCHEDULE 3	0m	Onsite
PUZ7	PUBLIC USE ZONE - OTHER PUBLIC USE	0m	Onsite
UFZ	URBAN FLOODWAY ZONE	0m	Onsite
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	0m	Onsite
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	0m	Onsite
GRZ3	GENERAL RESIDENTIAL ZONE - SCHEDULE 3	82m	East
IN1Z	INDUSTRIAL 1 ZONE	134m	North West

Planning Zone Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Planning Overlays

OSAR Proposed Road Alignments - Site 26 (Section 7)



Planning Overlays

OSAR Proposed Road Alignments - Site 26 (Section 7)

Planning Overlays

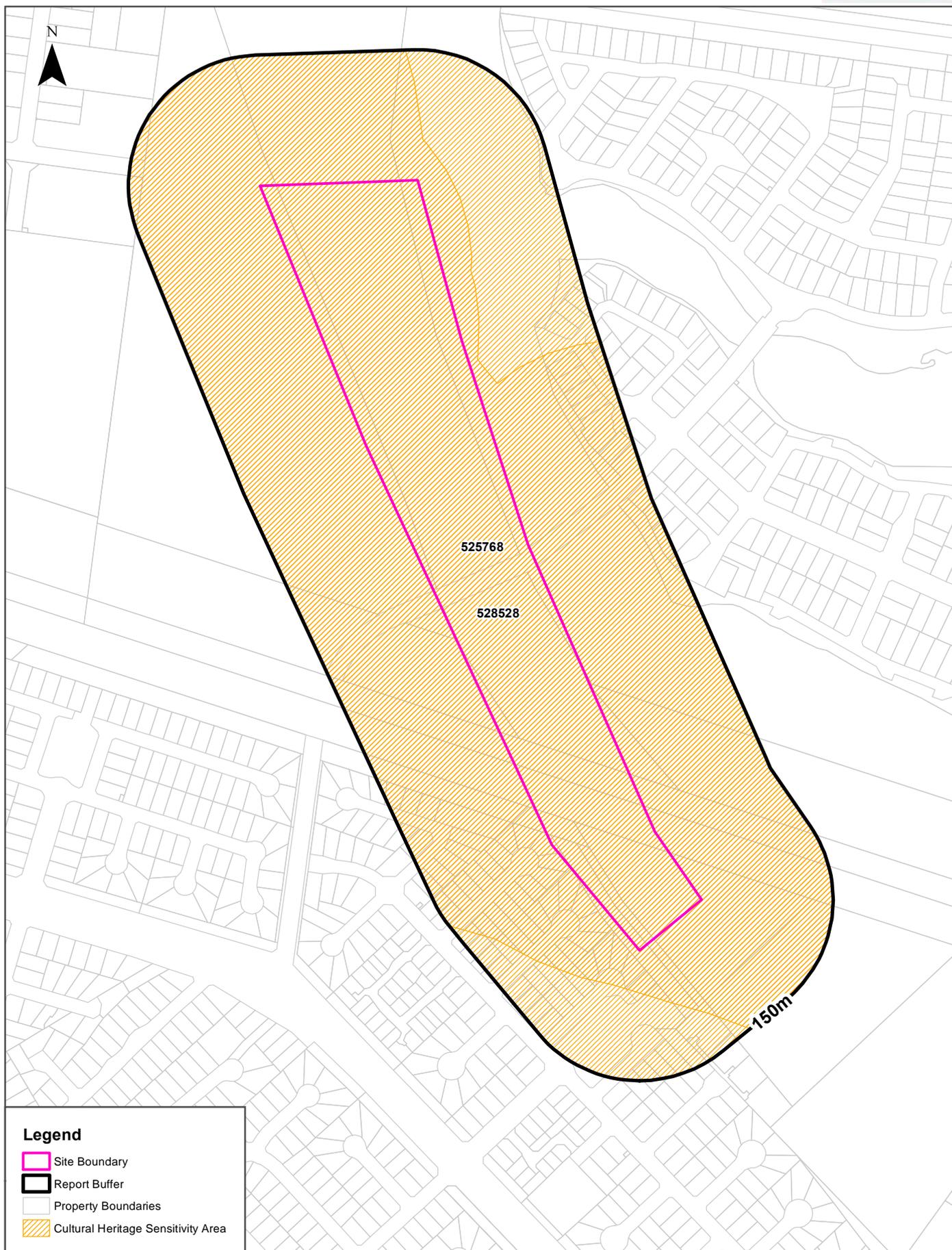
Planning overlays within the report buffer:

Zone Code	Description	Distance	Direction
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	0m	Onsite
DDO6	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 6	0m	Onsite
IPO2	INCORPORATED PLAN OVERLAY - SCHEDULE 2	0m	Onsite
PAO1	PUBLIC ACQUISITION OVERLAY 1	0m	Onsite
IPO3	INCORPORATED PLAN OVERLAY - SCHEDULE 3	0m	Onsite

Planning Overlay Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

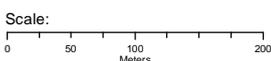
Cultural Heritage Sensitivity

OSAR Proposed Road Alignments - Site 26 (Section 7)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Cultural Heritage Sensitivity Area



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Cultural Heritage Sensitivity

OSAR Proposed Road Alignments - Site 26 (Section 7)

Cultural Heritage Sensitivity

Areas of Cultural Heritage Sensitivity as specified in Division 3 of Part 2 in the Aboriginal Heritage Regulations 2007, within the report buffer:

Map Id	Culturally Sensitive	Distance	Direction
525768	YES	0m	Onsite
528528	YES	0m	Onsite

Cultural Heritage Sensitivity Data Custodian: State Government Victoria - Dept of Planning and Community Development
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Natural Hazards

OSAR Proposed Road Alignments - Site 26 (Section 7)

Bushfire Prone Areas

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

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

Bushfire Prone Area Data Custodian: State Government Victoria - Dept of Transport, Planning & Local Infrastructure
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Fire History

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

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

Fire History Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Flood - 1 in 100 year modelled flood extent

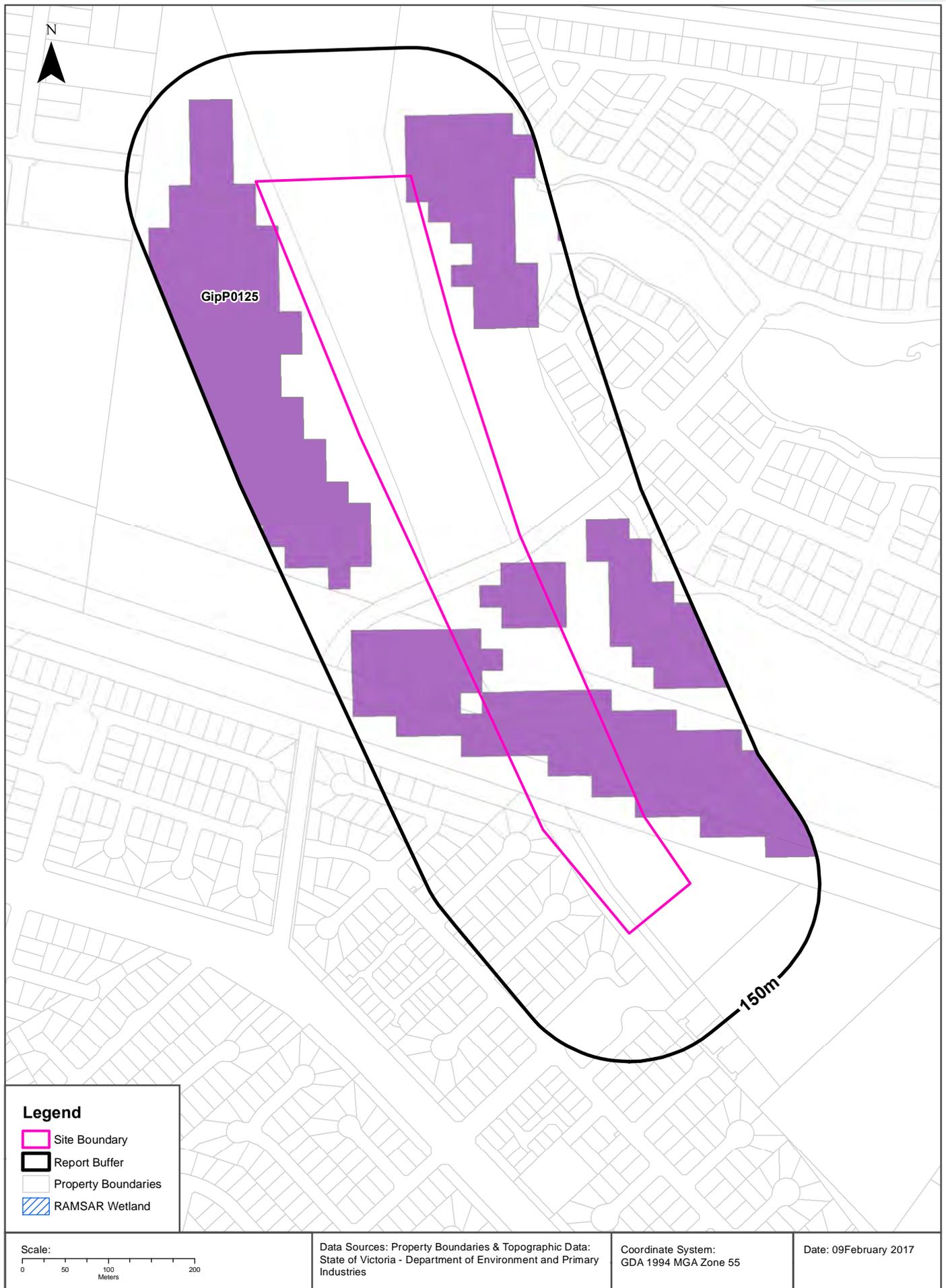
What 1 in 100 year flood extent features exist within the report buffer?

Feature	Source	Method	Scale	Modified Date	Distance	Direction
N/A	No records within buffer					

Flood Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Ecological Constraints - Native Vegetation 2005 & RAMSAR Wetlands

OSAR Proposed Road Alignments - Site 26 (Section 7)



Ecological Constraints

OSAR Proposed Road Alignments - Site 26 (Section 7)

Native Vegetation (Modelled 2005 Ecological Vegetation Classes)

What native vegetation exists within the report buffer?

Veg Code	EVC Name	EVCCode	Group	Subgroup	Bioregion	Conservation Status	Geographic Occurance	Distance
GipP0125	Plains Grassy Wetland	0125	Wetlands	Freshwater	Gippsland Plain	Endangered	Naturally Restricted	0m

Native Vegetation Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

RAMSAR Wetlands

What RAMSAR wetland areas exist within the report buffer?

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

RAMSAR Wetland Area Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

USE OF REPORT – APPLICABLE TERMS

The following terms apply to any person (End User) who is given the Report by the person who purchased the Report from Lotsearch Pty Ltd (ABN: 89 600 168 018) (Lotsearch) or who otherwise has access to the Report. The contract terms that apply between Lotsearch and the purchaser of the Report are specified in the order form pursuant to which the Report was ordered and the terms set out below are of no effect as between Lotsearch and the purchaser of the Report.

1. End User acknowledges and agrees that:
 - (a) the Report is compiled from or using content (**Third Party Content**) which is comprised of:
 - (i) content provided to Lotsearch by third party content suppliers with whom Lotsearch has contractual arrangements or content which is freely available (**Third Party Content Suppliers**);
 - (j) content which is derived from content described in paragraph (i);
 - (b) Lotsearch does not take any responsibility for or give any warranty in relation to the accuracy or completeness of any Third Party Content included in the Report;
 - (c) the Third Party Content Suppliers do not constitute an exhaustive set of all repositories or sources of information available in relation to the property which is the subject of the Report (**Property**);
 - (d) Lotsearch has not undertaken any physical inspection of the property;
 - (e) Lotsearch does not warrant that all land uses or features whether past or current are identified in the Report;
 - (f) the Report does not include any information relating to the actual state or condition of the Property;
 - (g) the Report should not be used or taken to indicate or exclude actual fitness or unfitness of a Property for any particular purpose;
 - (h) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
 - (i) the End User should undertake its own inspections of the Property to satisfy itself that there are no defects or failures.
2. The End User may not make the Report or any copies or extracts of the report or any part of it available to any other person. If End User wishes to provide the Report to any other person or make extracts or copies of the Report, it must contact the purchaser of the Report before doing so to ensure the proposed use is consistent with the contract terms between Lotsearch and the purchaser.
3. Neither Lotsearch (nor any of its officers, employees or agents) nor any of its Third Party Content Suppliers will have any liability to End User or any person to whom End User provides the Report and End User must not represent that Lotsearch or any of its Third Party Content Suppliers accepts liability to any such person or make any other representation to any such person on behalf of Lotsearch or any Third Party Content Supplier.
4. End User must not remove any copyright notices, trade marks, digital rights management information, other embedded information, disclaimers or limitations from the Report or authorise any person to do so.
5. End User acknowledges and agrees that Lotsearch and Third Party Content Suppliers retain ownership of all copyright, patent, design right (registered or unregistered), trade marks (registered or unregistered), database right or other data right, moral right or know how or any other intellectual property right in any Report or any other item, information or data included in or provided as part of a Report.
6. To the extent permitted by law and subject to paragraph 7, all implied terms, representations and warranties whether statutory or otherwise relating to the subject matter of these terms other than as expressly set out in these terms are excluded.
7. Subject to paragraph 8, Lotsearch excludes liability to End User for loss or damage of any kind, however caused, due to Lotsearch's negligence, breach of contract, breach of any law, in equity, under indemnities or otherwise, arising out of all acts, omissions and events whenever occurring.
8. Lotsearch acknowledges that if, under applicable State, Territory or Commonwealth law, End User is a consumer certain rights may be conferred on End User which cannot be excluded, restricted or modified. If so, and if that law applies to Lotsearch, then, Lotsearch's liability is limited to the greater of an amount equal to the cost of resupplying the Report and the maximum extent permitted under applicable laws.
9. Subject to paragraph 7, neither Lotsearch nor the End User is liable to the other for any indirect, incidental, consequential, special or exemplary damages arising out of or in relation to these terms.
10. These terms are subject to New South Wales law.

Environmental Risk and Planning Report

Proposed Road Alignments - Mordialloc Bypass (Section 8)

Report Buffer: 150m

Report Date: 09 Feb 2017 14:23:56

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.

Table of Contents

Location Confidences.....	2
Dataset Listings	3
Site Location Aerial	5
Topographic Features	6
Elevation Contours.....	7
EPA Records.....	8
Waste Management Facilities	11
Historical Business Activities.....	12
Historical Aerial Imagery & Maps	14
Features of Interest	22
Hydrogeology & Groundwater.....	24
Groundwater Boreholes	25
Geology.....	29
Coastal Acid Sulfate Soils	32
Planning Zones	34
Planning Overlays	36
Cultural Heritage Sensitivity	38
Natural Hazards	40
Ecological Constraints.....	41
Terms & Conditions.....	43

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 "LocConf". These codes lookup to the following location confidences:

LC Code	Location Confidence
1	Georeferenced to the site location / premise or part of site
2	Georeferenced with the confidence of the general/approximate area
3	Georeferenced to the road or rail
4	Georeferenced to the road intersection
5	Feature is a buffered point
6	Land adjacent to Georeferenced Site
7	Georeferenced to a network of features

Dataset Listing

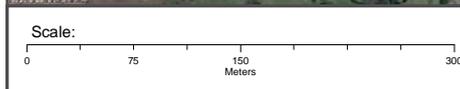
Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features in Buffer
Topographic and Cadastre data	State Government Victoria - Department of Environment, Land, Water & Planning	06/02/2017	06/02/2017	Quarterly	-	-	-
Current Priority Sites	Environment Protection Authority (Vic)	06/02/2017	31/12/2016	Monthly	0	0	0
Former Priority Sites & other Pollution Notices	Environment Protection Authority (Vic)	06/02/2017	05/01/2017	Monthly	0	0	0
EPA Environmental Audit Reports	Environment Protection Authority (Vic)	06/02/2017	24/11/2016	Monthly	0	0	0
Groundwater Zones with Restricted Uses	Environment Protection Authority (Vic)	06/02/2017	27/01/2017	Monthly	0	0	0
Licensed Activities	Environment Protection Authority (Vic)	06/02/2017	29/01/2017	Monthly	0	0	0
Former Licensed Activities	Environment Protection Authority (Vic)	06/02/2017	29/01/2017	Monthly	0	0	0
Works Approvals	Environment Protection Authority (Vic)	06/02/2017	06/02/2017	Monthly	0	0	0
National Waste Management Site Database	Geoscience Australia	06/02/2017	15/11/2012	Quarterly	0	0	0
Statewide Waste and Resource Recovery Infrastructure Plan Facilities	State Government Victoria - Department of Sustainability	27/11/2014	31/12/2012	None planned	0	0	0
EPA Prescribed Industrial Waste	Environment Protection Authority (Vic)	04/01/2017	04/01/2017	Quarterly	0	0	0
UBD Business to Business Directory 1991	Hardie Grant			Not required	0	0	0
UBD Business to Business Directory 1991 - Garages & Service Stations	Hardie Grant			Not required	0	0	0
UBD Business Directory 1980	Hardie Grant			Not required	0	0	0
UBD Business Directory 1980 Drycleaners, Motor Garages & Service Stations	Hardie Grant			Not required	0	0	0
Features of Interest	State Government Victoria - Department of Environment, Land, Water & Planning	03/02/2017	27/01/2017	Quarterly	4	7	8
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1	1	1
Groundwater Salinity	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Unknown	1	-	-
Depth to Watertable	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Unknown	1	-	-
Surface Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Unknown	1	-	-
Basement Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Unknown	1	-	-
Groundwater Boreholes WMIS	State Government Victoria - Department of Environment, Land, Water & Planning	29/04/2016	28/04/2016	Annually	0	0	26
Groundwater Boreholes Earth Resources Database	The State of Victoria, Department of Economic Development, Jobs, Transport and Resources	29/04/2016	17/02/2010	As required	0	0	10
Groundwater Boreholes Fed Uni	Federation University Australia	29/04/2016	07/01/2014	As required	0	0	0
Geological Units 1:250,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	1	-	1
Geological Structures 1:250,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	0	-	0
Shear zones 250k	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	0	-	0
Coastal Acid Sulfate Soils	The State of Victoria, Department of Economic Development, Jobs, Transport and Resources	15/07/2016	30/03/2011	None planned	1	2	2
Planning Scheme Zones	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	2	6	9

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features in Buffer
Planning Scheme Overlay	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	3	3	5
Cultural Heritage Sensitivity	State Government Victoria - Department of Planning and Community Development	03/02/2017	27/01/2017	Quarterly	2	2	2
Bushfire Prone Area	State Government Victoria - Department of Transport, Planning and Local Infrastructure	27/01/2017	27/01/2017	Quarterly	0	0	0
Fire History	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	0	0	0
Flood - 1 in 100 Year Modelled Flood Extent	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	0	0	0
Native Vegetation (Modelled 2005 Ecological Vegetation Classes)	State Government Victoria - Department of Environment, Land, Water & Planning	13/01/2015	31/12/2005	None planned	1	1	1
RAMSAR Wetlands	State Government Victoria - Department of Environment, Land, Water & Planning	13/01/2015	24/06/2013	None planned	0	0	0

Aerial Imagery 2016

OSAR Proposed Road Alignments - Site 26 (Section 8)



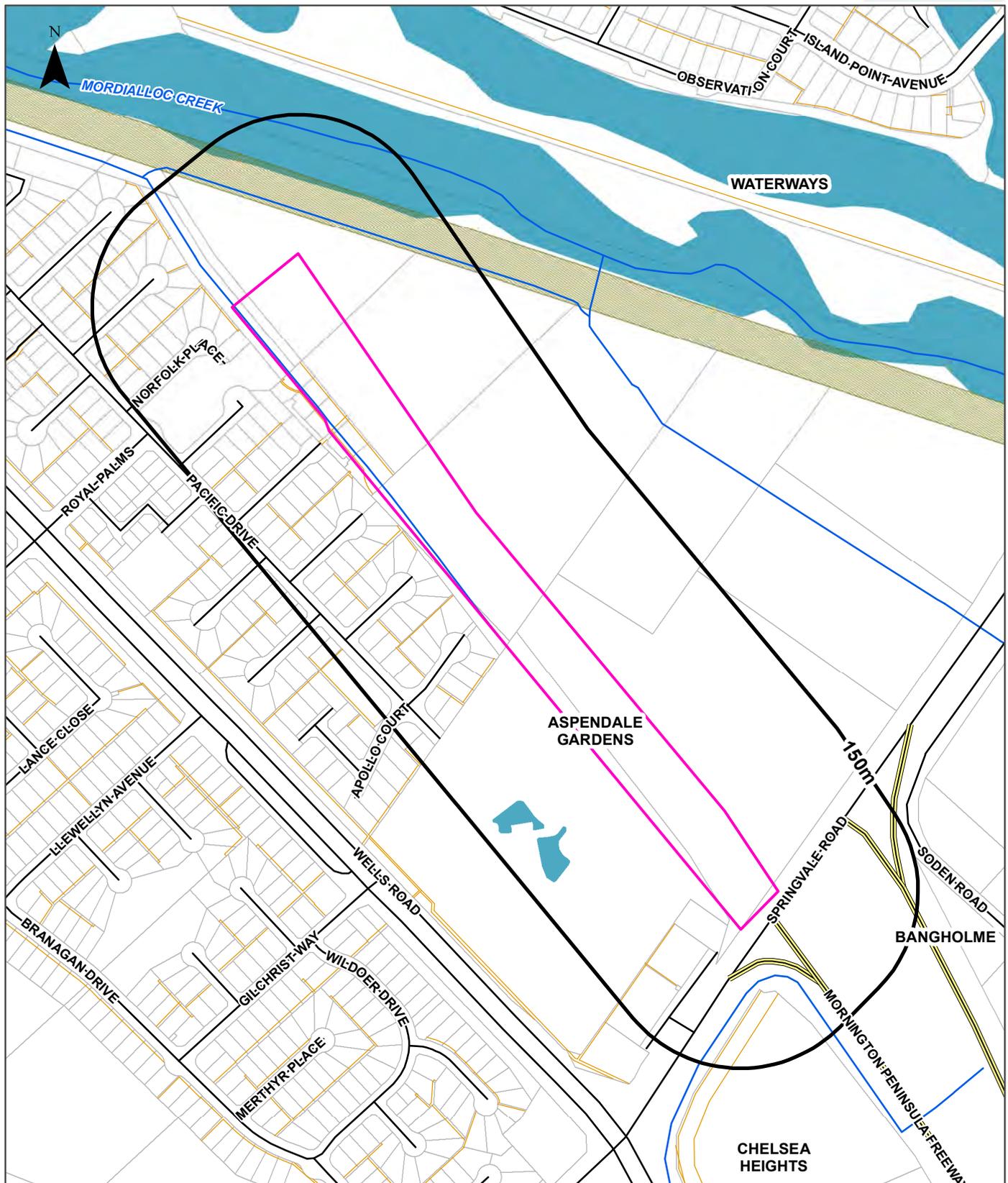
Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 55

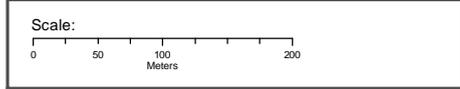
Date: 09February, 2017

Topographic Data

OSAR Proposed Road Alignments - Site 26 (Section 8)



Legend				
Site Boundary	Water Area	Major Road	Railway	Watercourse
Report Buffer	Crown or Commonwealth Land	Road	Light Rail	Easement
Property Boundaries	Statewide Forest	Track/Pathway	Rail - Underground/Tunnel	



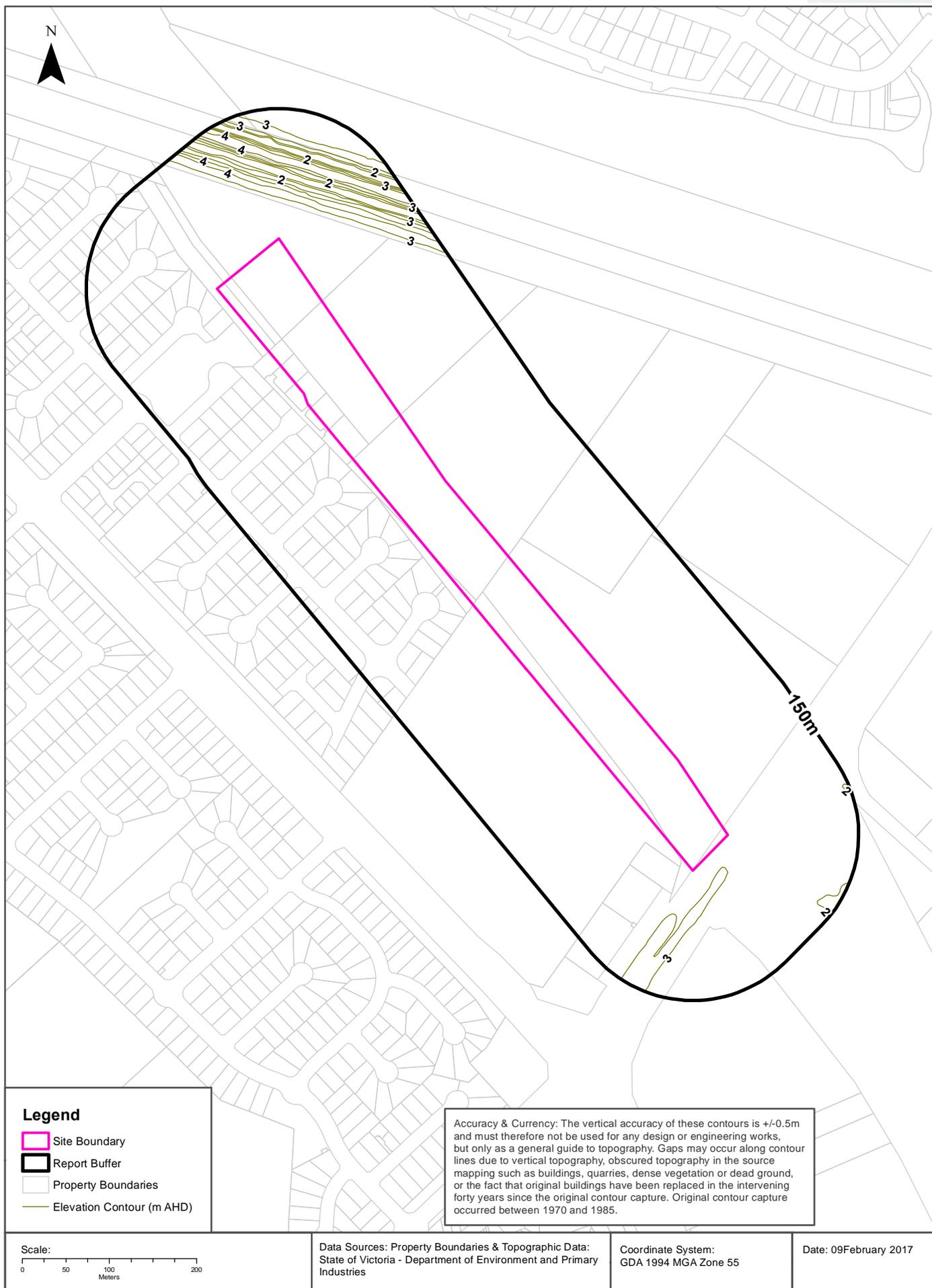
Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09 February 2017

Elevation Contours (m AHD)

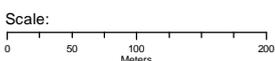
OSAR Proposed Road Alignments - Site 26 (Section 8)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Elevation Contour (m AHD)

Accuracy & Currency: The vertical accuracy of these contours is +/-0.5m and must therefore not be used for any design or engineering works, but only as a general guide to topography. Gaps may occur along contour lines due to vertical topography, obscured topography in the source mapping such as buildings, quarries, dense vegetation or dead ground, or the fact that original buildings have been replaced in the intervening forty years since the original contour capture. Original contour capture occurred between 1970 and 1985.



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 8)

Current EPA Priority Sites Register

What sites on the current EPA priority sites register exist within the report buffer?

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

Priority Sites Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Former EPA Priority Sites & Other Pollution Notices

What sites within the report buffer 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.

Notice No	Notice Type	Company	Address	Suburb	Status	Issue	Date Issued	Loc Conf	Dist	Dir
N/A	No records in buffer									

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

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 8)

EPA Environmental Audits

What EPA environmental audit records exist within the report 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.

CARMS No	Transaction No	Site	Address	Suburb	Date Complete	Loc Conf	Distance	Direction
N/A	No records in buffer							

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

EPA Groundwater Zones with Restricted Uses

What EPA GQRUZ exist within the report buffer?

Note. Please click on CARMS No. to activate a hyperlink to online documentation.

CARMS No	EPA Id	Site History	Site Address	Restricted Uses	Loc Conf	Distance	Direction
N/A	No records in buffer						

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

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 8)

EPA Licensed Activities

What EPA licensed activities exist within the report 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									

Licensed Activity Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Former EPA Licensed Activities

What former EPA licensed activities exist within the report buffer?

Licence No	Organisation	Premise Address	Suburb	Activities	Loc Conf	Dist (m)	Direction
N/A	No records in buffer						

Former Licensed Activity Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

EPA Works Approvals

What EPA works approvals exist within the report buffer?

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

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

Waste Management Facilities

OSAR Proposed Road Alignments - Site 26 (Section 8)

National Waste Management Site Database

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

Site Id	Owner	Name	Address	Suburb	Postcode	Landfill	Reprocess	Transfer	Loc Conf	Dist (m)	Direction
N/A	No records in buffer										

Waste Management Facilities Data Source: Australian Government Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Statewide Waste and Resource Recovery Infrastructure Plan Facilities

Statewide Waste and Resource Recovery Infrastructure Plan Facilities within the report 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

EPA Prescribed Industrial Waste

EPA Prescribed industrial waste sites within the report buffer:

Map Id	Company Name	Address	Suburb	Treatment /Disposal	Transport	Accredited Agent	EPA List Status	Loc Conf	Dist (m)	Direct
N/A	No records in buffer									

Prescribed Industrial Waste Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 8)

1991 Business to Business Directory Records

1991 UBD Business Directory Records within 150m of the site:

Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1991 Business to Business Directory Garages & Service Stations

1991 UBD Business Directory Garages & Service Stations within 1km of the site:

Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 8)

1980 Business Directory Records

1980 UBD Business Directory Records within 150m of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1980 Business Directory Drycleaners, Garages & Service Stations

Drycleaners, Garages & Service Stations from the 1980 UBD Business Directory within 1km of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Aerial Imagery 2009

OSAR Proposed Road Alignments - Site 26 (Section 8)



Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09 February, 2017

Aerial Imagery 2005

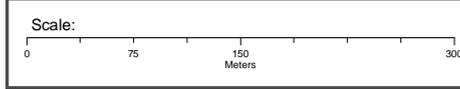
OSAR Proposed Road Alignments - Site 26 (Section 8)



150m

Google Earth
Sat 2 22:02 2017

Legend	
	Site Boundary
	Buffer 150m



Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February, 2017

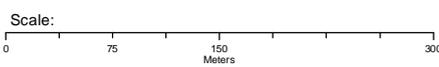
Aerial Imagery 1990

OSAR Proposed Road Alignments - Site 26 (Section 8)



Legend

- Site Boundary
- Buffer 150m



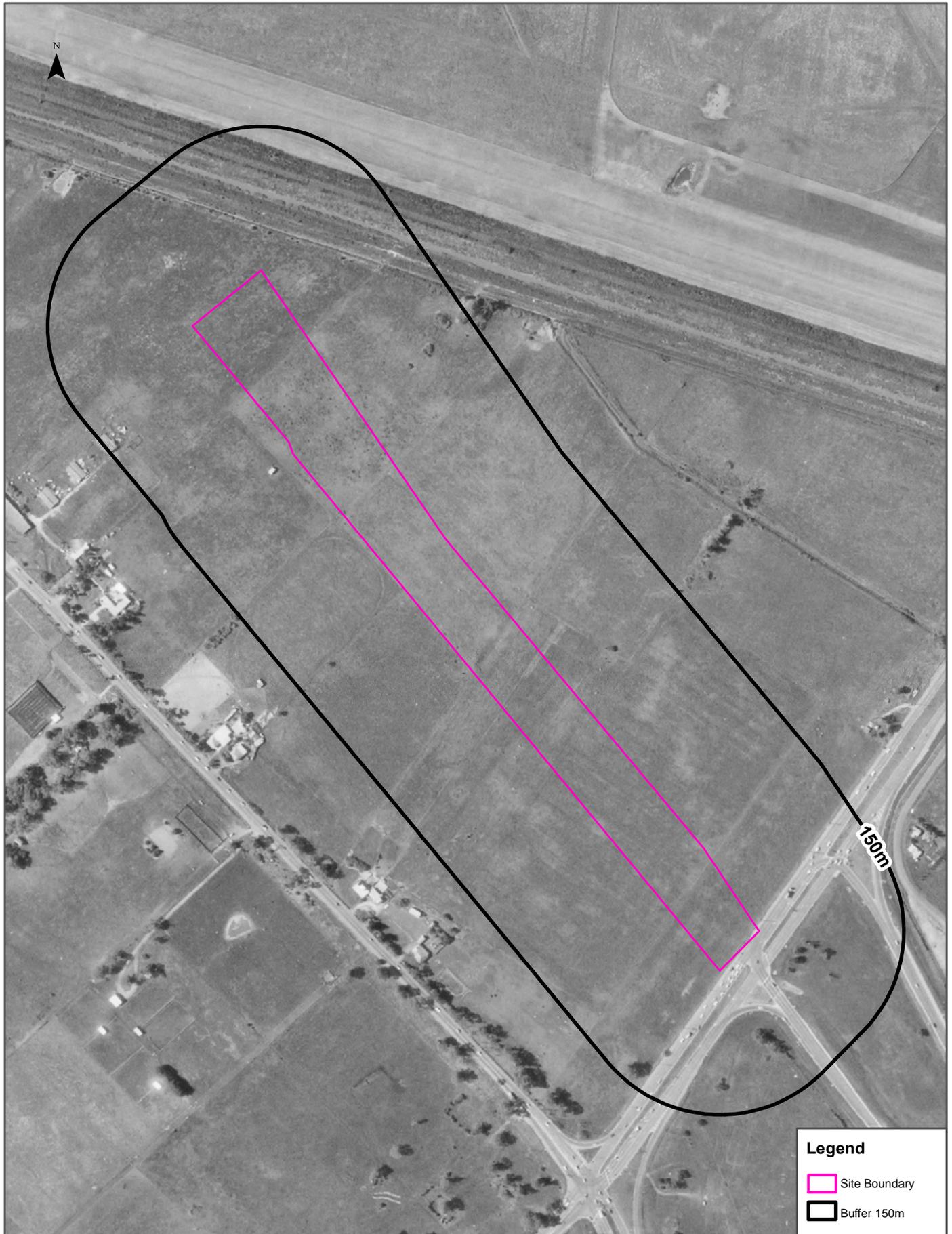
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 09February, 2017

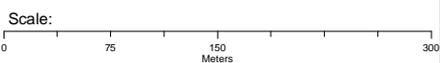
Aerial Imagery 1985

OSAR Proposed Road Alignments - Site 26 (Section 8)



Legend

-  Site Boundary
-  Buffer 150m



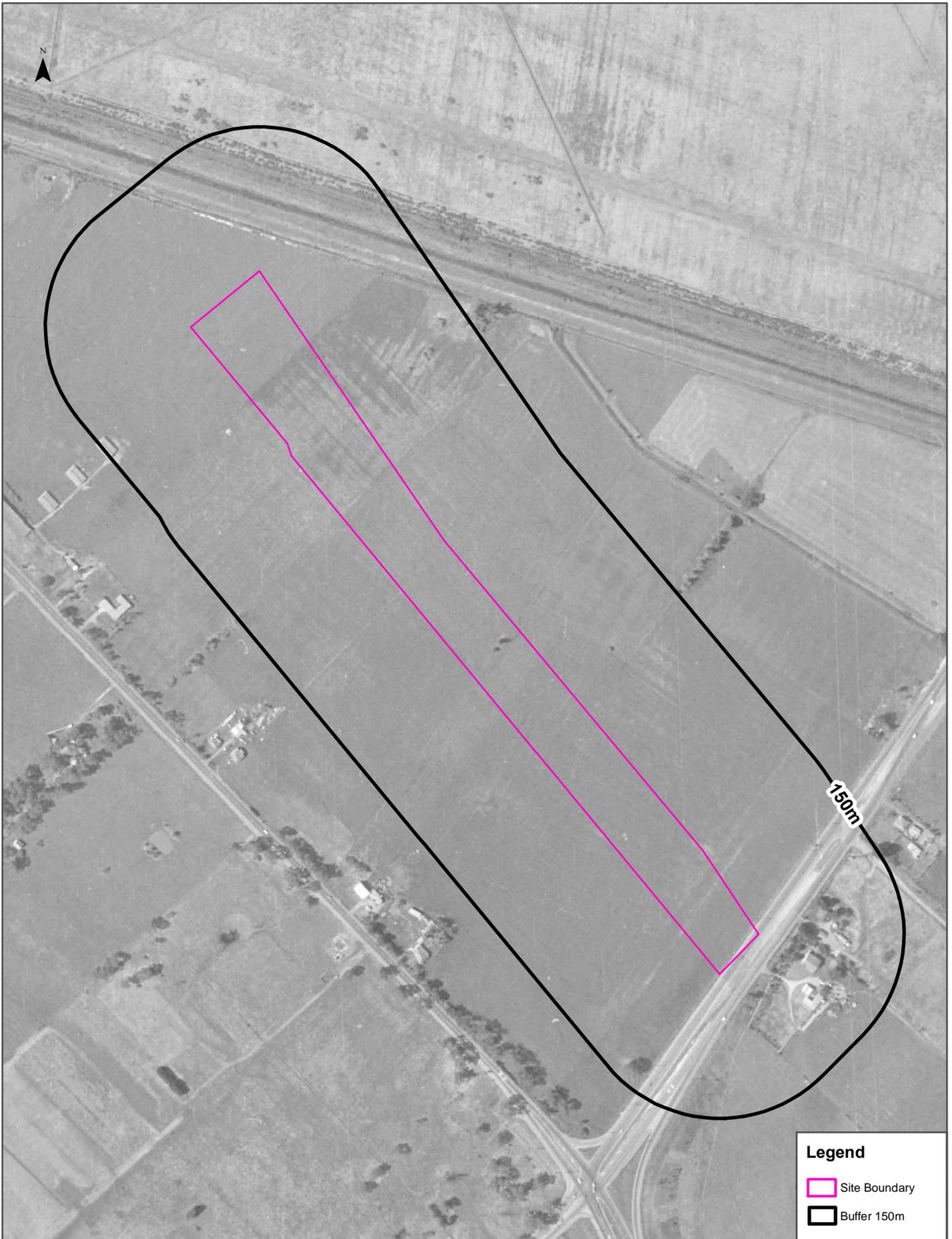
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 10 February 2017

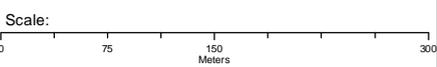
Aerial Imagery 1974

OSAR Proposed Road Alignments - Site 26 (Section 8)



Legend

- Site Boundary
- Buffer 150m



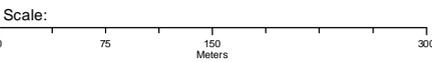
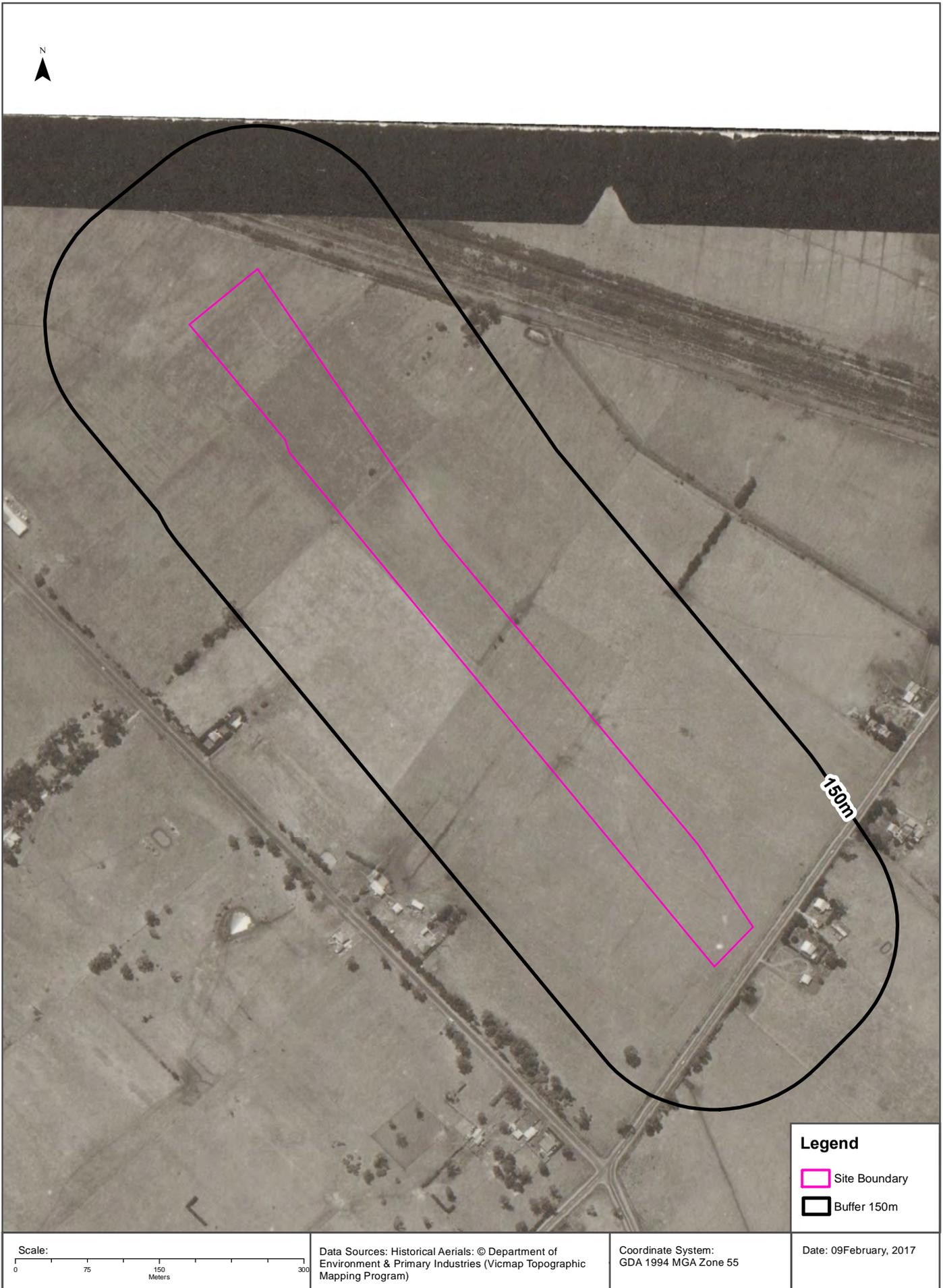
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 09February, 2017

Aerial Imagery 1962

OSAR Proposed Road Alignments - Site 26 (Section 8)



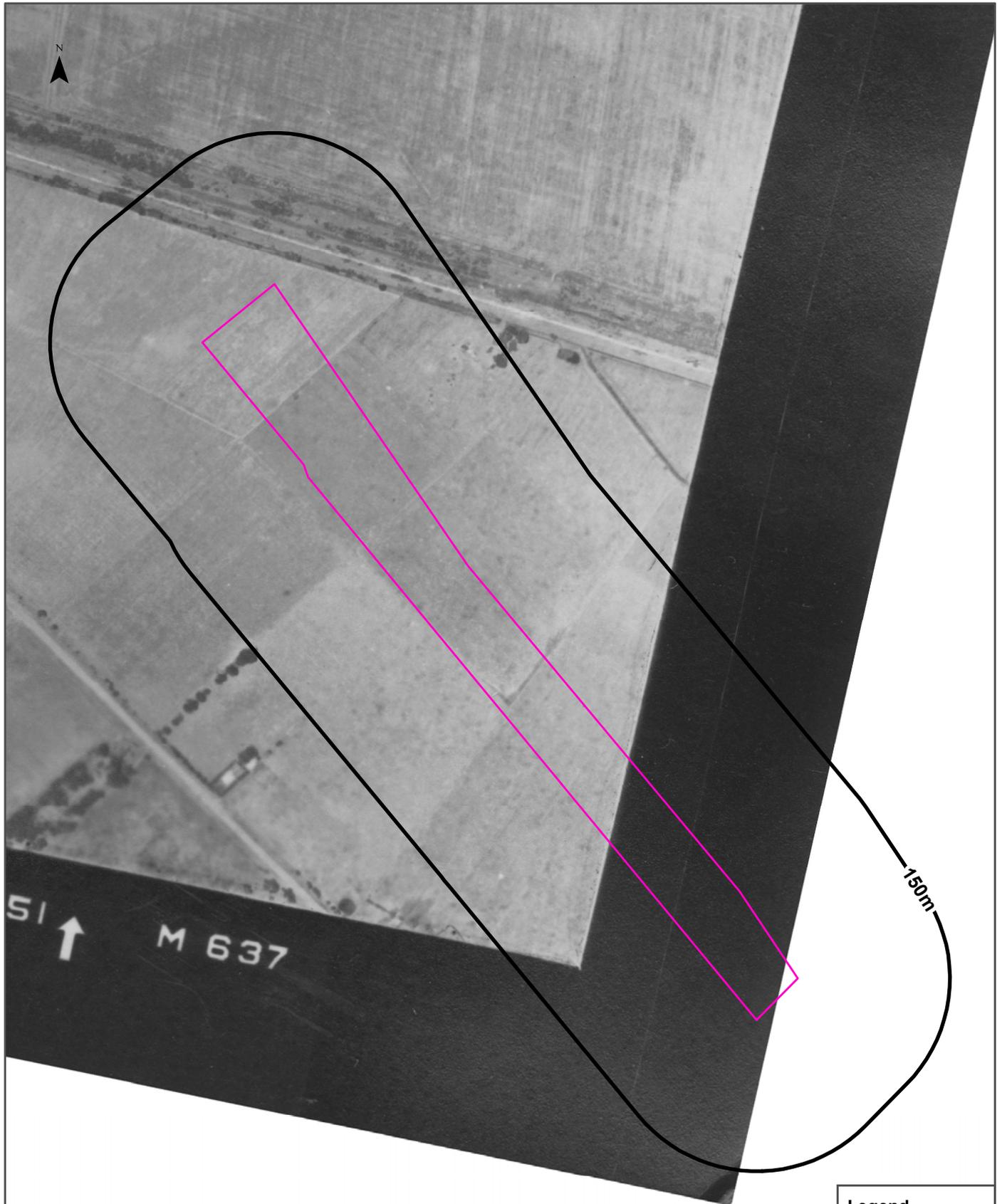
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

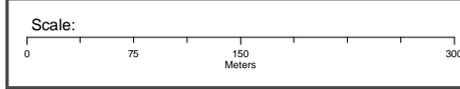
Date: 09February, 2017

Aerial Imagery 1951

OSAR Proposed Road Alignments - Site 26 (Section 8)



Legend	
	Site Boundary
	Buffer 150m



Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 10February 2017

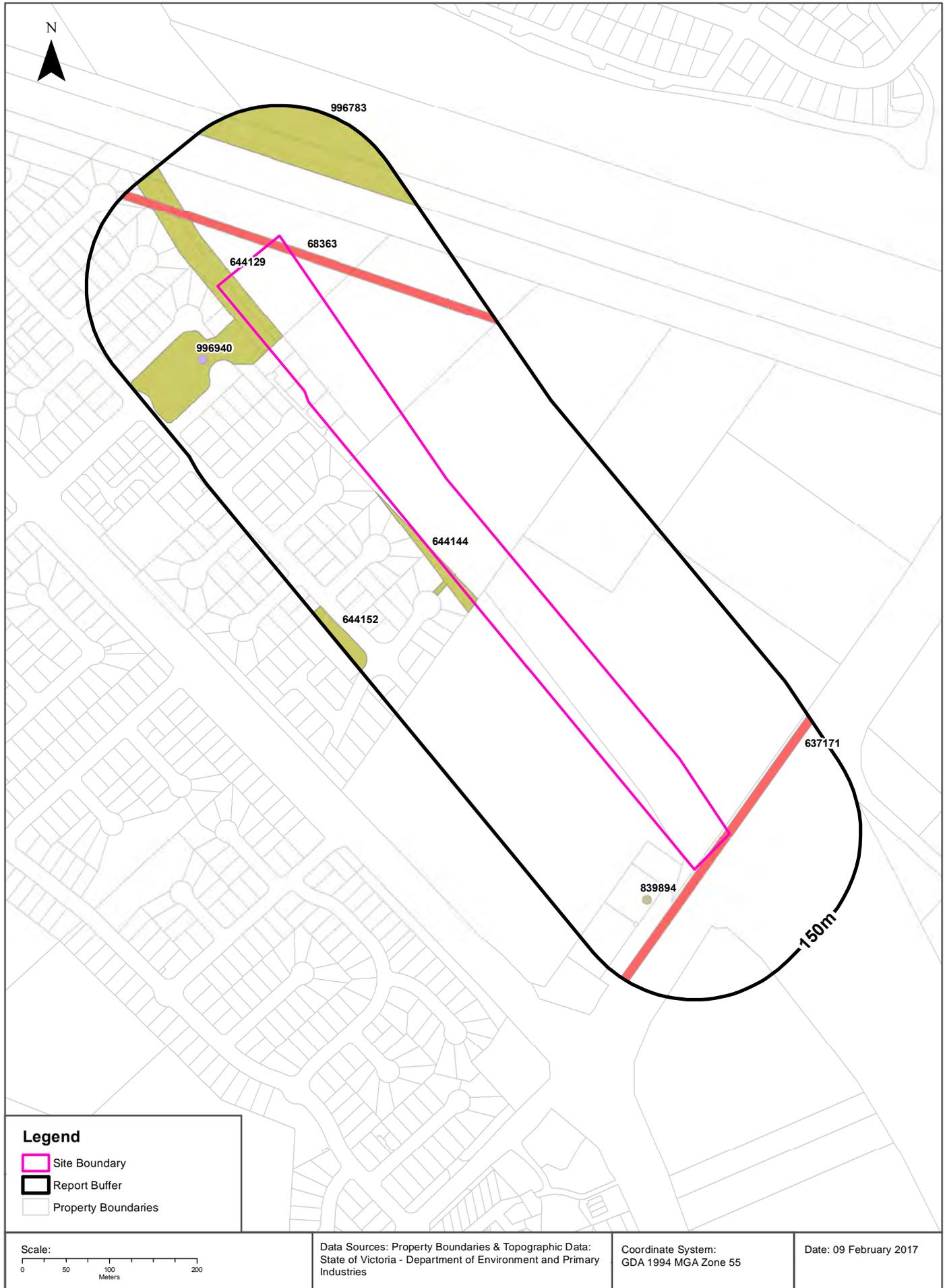
Aerial Imagery 1951

OSAR Proposed Road Alignments - Site 26 (Section 8)



Features of Interest

OSAR Proposed Road Alignments - Site 26 (Section 8)



Features of Interest

OSAR Proposed Road Alignments - Site 26 (Section 8)

Features of Interest

Features of Interest within 1km of the site:

Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
644144	reserve	park		0m	Onsite
68363	pipeline	gas pipeline	Dutson To Hastings	0m	Onsite
637171	pipeline	gas pipeline	Dandenong - Edithvale	0m	Onsite
644129	reserve	park		0m	Onsite
839894	care facility	child care	Goodstart Early Learning Aspendale Gardens	60m	South East
996940	recreational resource	playground		62m	North West
996783	reserve	park		82m	North
644152	reserve	park		133m	South West

Features of Interest Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

OSAR Proposed Road Alignments - Site 26 (Section 8)

Hydrogeology

Description of aquifers within report buffer:

Description	Distance	Direction
Porous, extensive highly productive aquifers	0m	Onsite

Hydrogeology Map of Australia: Commonwealth of Australia (Geoscience Australia)
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Salinity

On-site Groundwater Salinity:

Groundwater Salinity	Percent Of Site Area
3,500 - 7,000 mg/l	100

Depth to Watertable

On-site Depth to Watertable:

Depth to Watertable	Percent Of Site Area
Less than 5 metres	100

Surface Elevation

Approximate on-site Surface Elevation:

Surface Elevation
2 AHDm to 3 AHDm

Basement Elevation

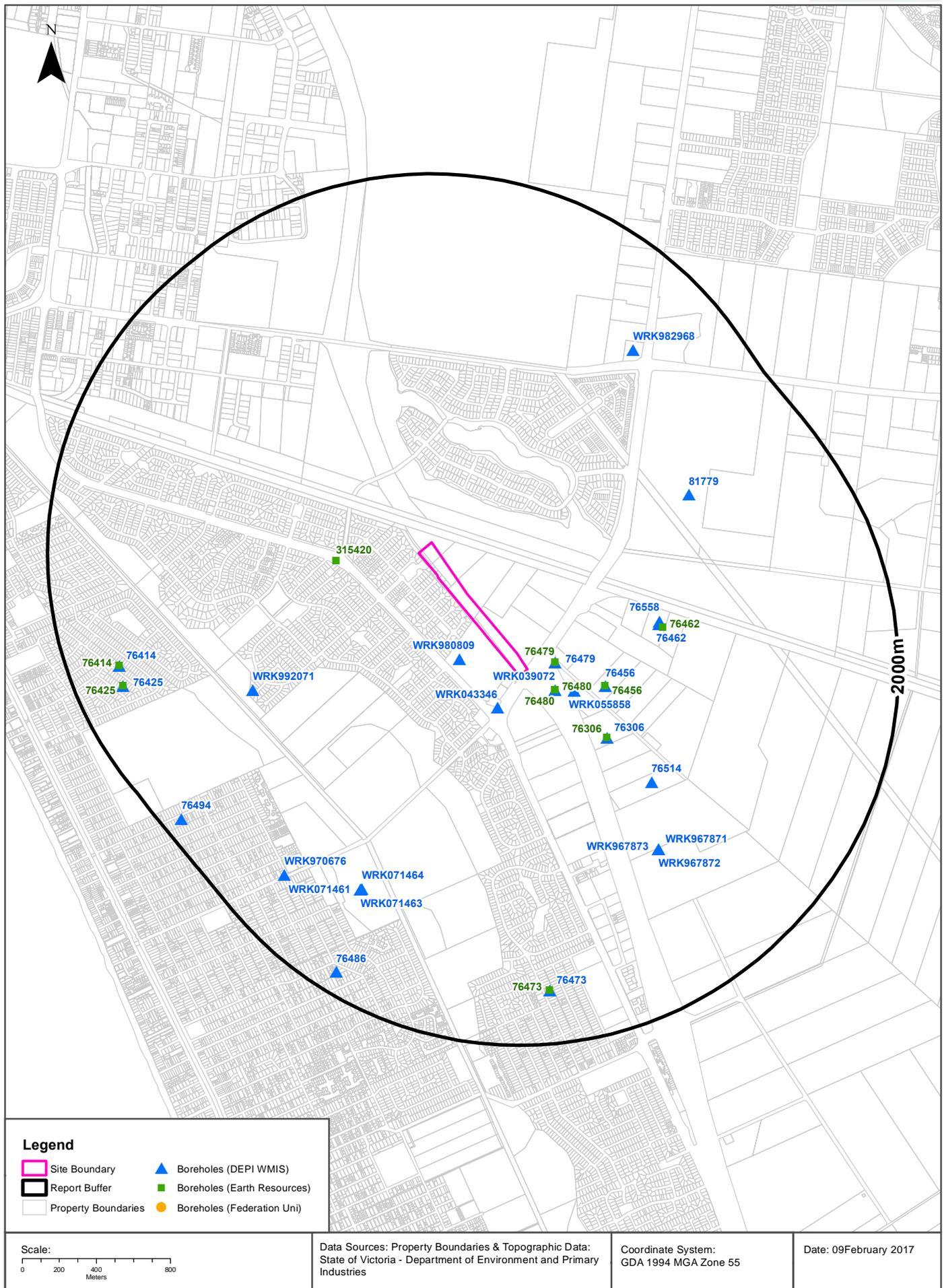
Approximate on-site Basement Elevation:

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
-55 AHDm to -52 AHDm

Groundwater Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 8)



Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 8)

Boreholes (DEPI WMIS)

Boreholes from the Department of Environment and Primary Industries' Water Measurement Information System, within the report buffer:

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
76479	Domestic	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-12.00m SANDY CLAY 12.00m-19.00m SAND (MEDIUM) 19.00m-24.38m CLAY IRONSTONE BANDS	0.00m-12.19m INNER LINING - CASING = Pvc Class 9 12.19m-18.29m INNER LINING - SCREEN = Pvc Class 9 18.29m-24.38m INNER LINING - CASING = Pvc Class 9		12.19m-18.29m Sand	1986-01-11	154	South East
WRK039072	Domestic, Irrigation, Stock	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-18.00m SANDY CLAY 18.00m-22.00m SAND (MEDIUM) 22.00m-24.38m CLAY (IRONSTONE BANDS)	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-21.34m INNER LINING - SCREEN = Pvc 21.34m-24.38m INNER LINING - CASING = Pvc		18.29m-21.34m Sand	1986-01-09	187	South East
WRK980809							190	South
WRK043346							205	South
WRK055858	Irrigation						275	South East
76456	Domestic, Stock	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-12.00m SANDY CLAY 12.00m-18.00m SAND (MEDIUM) 18.00m-22.25m CLAY WITH IRONSTONE BANDS	0.00m-12.19m INNER LINING - CASING = Pvc 12.19m-18.29m INNER LINING - SCREEN = Pvc 18.29m-22.25m INNER LINING - CASING = Pvc		12.19m-18.29m Sand	1983-11-23	429	South East
76306	Domestic	0.00m-3.00m BLACK CLAY 3.00m-11.00m YELLOW CLAY 11.00m-18.00m SANDY CLAY 18.00m-24.38m SAND (MEDIUM)	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-24.38m INNER LINING - SCREEN = Pvc		18.29m-24.38m Sand	1986-01-13	568	South East
76462	Agro Industries, Domestic, Stock	0.00m-2.44m BLACK TOPSOIL 2.44m-3.00m GREY CLAY 3.00m-12.19m RED CLAY 12.19m-18.29m GREY SANDY CLAY 18.29m-21.34m COARSE SAND	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-21.34m INNER LINING - SCREEN = Pvc		18.29m-21.34m Sand	1982-12-27	750	East
76558	Not Known					1988-01-01	758	East
76514	Domestic	0.00m-3.00m STILL BLACK CLAY 3.00m-6.00m YELLOW BROWN SANDY CLAY 6.00m-9.50m YELLOW BROWN LOOSE SAND 9.50m-14.00m YELLOW BROWN SANDY CLAY 14.00m-20.00m YELLOW BROWN LOOSE SAND	0.00m-12.50m INNER LINING - CASING = Not Known 12.50m-18.30m INNER LINING - SCREEN = Not Known 40.00m-0.00m OUTER LINING - GRAVEL = Not Known		12.50m-18.30m Sand	1990-02-27	907	South East
WRK992071							1162	West
WRK967871	Groundwater Investigation	0.00m-0.20m ORGANIC MATTER 0.20m-0.40m CLAYEY SAND 0.40m-7.50m SANDY CLAY, GREY	0.00m-4.50m INNER LINING - CASING = Pvc Class 18 4.50m-7.50m INNER LINING - SLOT = Pvc Class 18 0.00m-0.50m OUTER LINING - GRAVEL = Cement 0.50m-3.50m OUTER LINING - GRAVEL = Seal 3.50m-4.00m OUTER LINING - GRAVEL = Bentonite 4.00m-7.50m OUTER LINING - GRAVEL = Gravel			2004-11-26	1196	South East
WRK967873	Groundwater Investigation	0.00m-1.20m CLAY 1.20m-4.20m SILTY SANDY CLAY, BLACK 4.20m-5.20m SANDY CLAY, DARK BROWN 5.20m-6.20m SILTY CLAY	0.00m-2.60m INNER LINING - CASING = Pvc Class 18 2.60m-6.20m INNER LINING - SLOT = Pvc Class 18 0.00m-0.50m OUTER LINING - GRAVEL = Cement 0.50m-1.20m OUTER LINING - GRAVEL = Seal 1.20m-2.10m OUTER LINING - GRAVEL = Bentonite 2.10m-6.20m OUTER LINING - GRAVEL = Gravel			2004-12-10	1196	South East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK967872	Groundwater Investigation	0.00m-0.20m ORGANIC MATTER 0.20m-0.50m SAND - BROWN 0.50m-9.00m SANDY CLAY, GREY	0.00m-4.50m INNER LINING - CASING = Pvc Class 18 4.50m-9.00m INNER LINING - SLOT = Pvc Class 18 0.00m-0.50m OUTER LINING - GRAVEL = Cement 0.50m-4.00m OUTER LINING - GRAVEL = Seal 4.00m-5.00m OUTER LINING - GRAVEL = Bentonite 5.00m-9.00m OUTER LINING - GRAVEL = Gravel			2004-11-26	1196	South East
81779	Not Known	0.00m-0.70m SANDY LOAM 0.70m-3.00m GREY CLAYEY SAND 3.00m-10.00m ORANGE SANDS 10.00m-14.00m GREY SANDS 14.00m-17.50m BLACK SANDS	0.00m-10.50m INNER LINING - CASING = Pvc 10.50m-16.50m INNER LINING - SCREEN = Pvc 16.50m-17.50m INNER LINING - CASING = Pvc 8.50m-17.50m OUTER LINING - GRAVEL = Not Known		10.50m-16.50m Sand	1988-12-08	1262	North East
WRK071464	Observation					2012-10-11	1431	South
WRK071463	Observation					2012-10-11	1436	South
WRK071461	Observation	0.00m-0.60m SOIL 0.60m-7.30m SAND	0.00m-3.00m INNER LINING - CASING = Pvc 3.00m-7.50m INNER LINING - SCREEN = Pvc 0.00m-0.10m OUTER LINING - GRAVEL = Cement 0.10m-3.00m OUTER LINING - GRAVEL = Bentonite 3.00m-7.50m OUTER LINING - GRAVEL = Gravel		3.00m-7.50m Sand	2012-10-11	1437	South
WRK071462	Observation					2012-10-11	1437	South
WRK982968							1505	North East
WRK970676							1661	South West
76473	Domestic	0.00m-0.91m BLACK TOP SOIL 0.91m-3.00m YELLOW FINE SAND 3.00m-6.10m COARSE SAND CLEAN	0.00m-5.44m INNER LINING - CASING = Not Known 5.44m-6.10m INNER LINING - SCREEN = Not Known		5.44m-6.10m Sand	1983-08-07	1708	South
76414	Domestic	0.00m-1.30m PEAT - CLAY 1.30m-2.30m SAND - WET 2.30m-4.57m CLAY - WET 4.57m-0.00m WHITE-GREY SANDSTONE	0.00m-3.96m INNER LINING - CASING = Pvc 3.96m-4.57m INNER LINING - SCREEN = Pvc		3.96m-4.57m Sandstone	1983-02-24	1725	West
76425	Domestic	0.00m-0.61m LOAM 0.61m-1.06m WHITE SAND 1.06m-1.37m BLACK CLAY 1.37m-1.83m GREY SAND AND SHELLS 1.83m-2.27m BLACK CLAY 2.27m-2.74m GREY SAND AND SEA SHELLS 2.74m-3.35m BLACK CLAY 3.35m-3.66m GREY SAND AND SEA SHELLS 3.66m-4.57m BLACK CLAY 4.57m-5.18m GREY SAND AND SEA SHELLS	0.00m-4.57m INNER LINING - CASING = Pvc 4.57m-5.18m INNER LINING - SCREEN = Pvc		4.57m-5.18m Sand	1983-12-12	1749	West
76486	Domestic	0.00m-5.00m PROBABLY SAND	0.00m-5.00m INNER LINING - CASING = Pvc			1983-12-31	1881	South
76494	Domestic	0.00m-0.60m BLACK SANDY TOP SOIL 0.60m-1.00m BROWN CLAY SAND - FINE 1.00m-2.13m YELLOW CALCAREOUS SHELLY SAND- COARSE 2.13m-3.00m AS ABOVE TENDING GREY TO BLACK AND FINE GRAINED 3.00m-4.50m LIGNEOUS BLACK CLAY	-0.10m-2.10m INNER LINING - CASING = Pvc Class 12 2.10m-2.74m INNER LINING - SCREEN = Pvc Class 12 1.50m-3.00m OUTER LINING - GRAVEL = Gravel		2.10m-2.74m Marl	1987-01-09	1899	South West

Boreholes WMIS Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 8)

Boreholes (Earth Resources Database)

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

Bore Id	Bore Type	Company	Usage	Method	Status	Drill Date	Depth	Elevation	Accuracy (m)	Dist (m)	Direct
76479		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		11/01/1986	24.38		100	151	South East
76480		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		09/01/1986	24.38		100	184	South East
76480		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		09/01/1986	24.38		100	184	South East
76456		Private Individual/Corporation	Domestic & Stock water supply	Air Percussion/Air Rotary		23/11/1983	22.25		100	427	South East
315420		Department of Manufacturing & Industry Development				31/12/1928	67.06	20.00	100	447	West
76306		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		13/01/1986	60.96		100	566	South East
76462		Private Individual/Corporation	Stock/Poultry water supply	Air Percussion/Air Rotary		27/12/1982	21.34		100	762	East
76473		Private Individual/Corporation	Domestic water supply	Hand Auger		07/08/1983	6.10		100	1707	South
76414		Private Individual/Corporation	Domestic water supply	Hand Auger		24/02/1983	4.57		100	1726	West
76425		Private Individual/Corporation	Domestic water supply	Spear point (multiple system)		12/12/1983	5.18		100	1750	West

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)

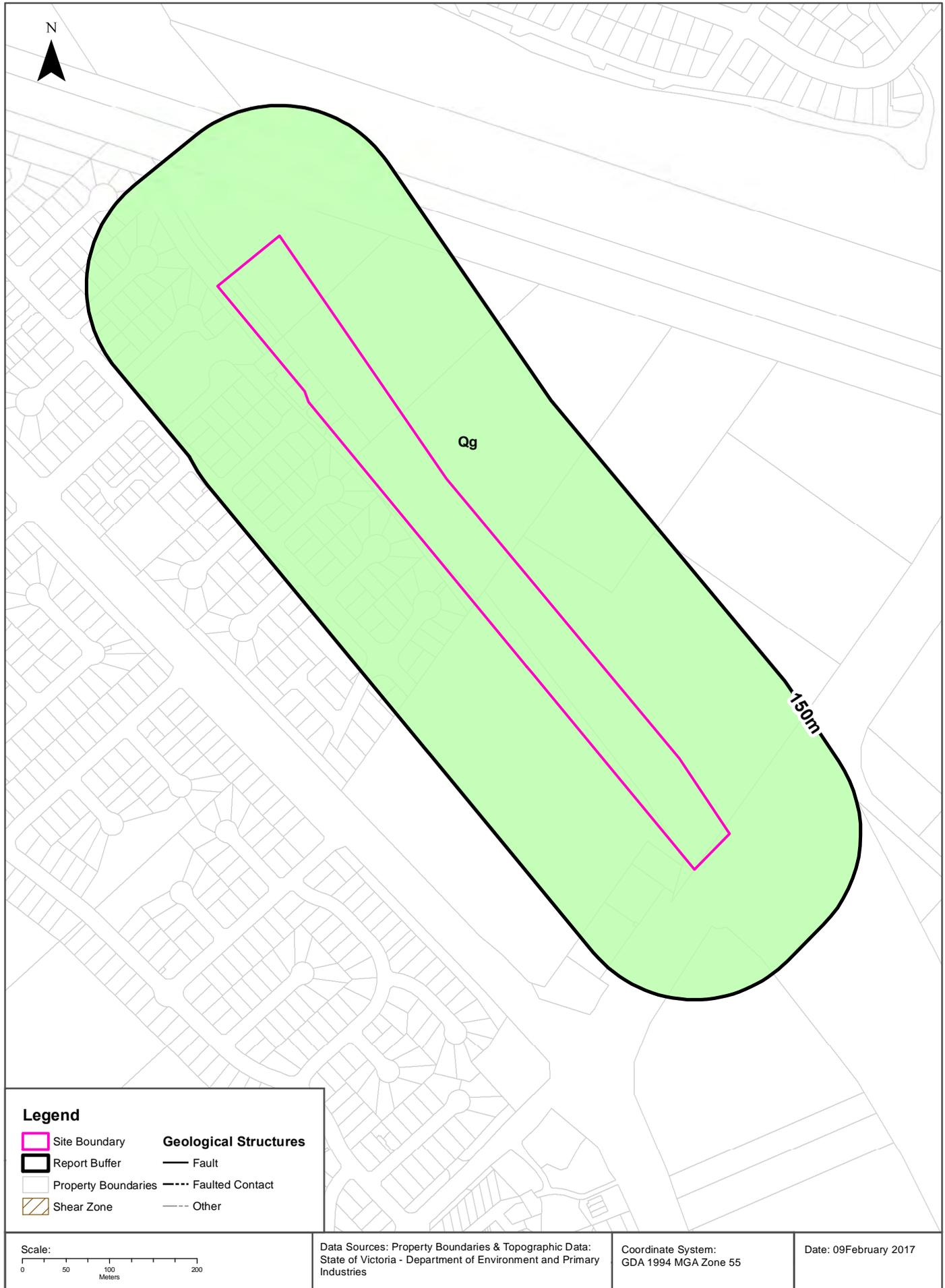
Boreholes from the Federation University Australia dataset, within the report buffer:

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

Boreholes FedUni Data Source: © Federation University Australia

Geology 1:250,000

OSAR Proposed Road Alignments - Site 26 (Section 8)



Geology

OSAR Proposed Road Alignments - Site 26 (Section 8)

Geological Units

What are the Geological Units onsite?

Symbol	Name	Description	Geological Age	Lithology	Dataset
Qg	coastal lagoon deposits (Qg): generic	Silt, clay: dark grey to black; variably consolidated	Holocene to Holocene	silt material (significant); clay lithology (significant)	1:250,000

What are the Geological Units within the report buffer?

Symbol	Name	Description	Geological Age	Lithology	Dataset
Qg	coastal lagoon deposits (Qg): generic	Silt, clay: dark grey to black; variably consolidated	Holocene to Holocene	silt material (significant); clay lithology (significant)	1:250,000

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Geology

OSAR Proposed Road Alignments - Site 26 (Section 8)

Geological Structures

What are the Geological Faults or Faulted Contacts onsite?

Map Id	Type	Name	Contact	Positional Accuracy	Dataset
No features					1:250,000

What are the Dykes, Marker Beds and Veins onsite?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No Data Coverage					

What are the Shear Zones onsite (1:250,000 scale)?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No features					1:250,000

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

Map Id	Type	Name	Contact	Positional Accuracy	Dataset
No features					1:250,000

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

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No Data Coverage					

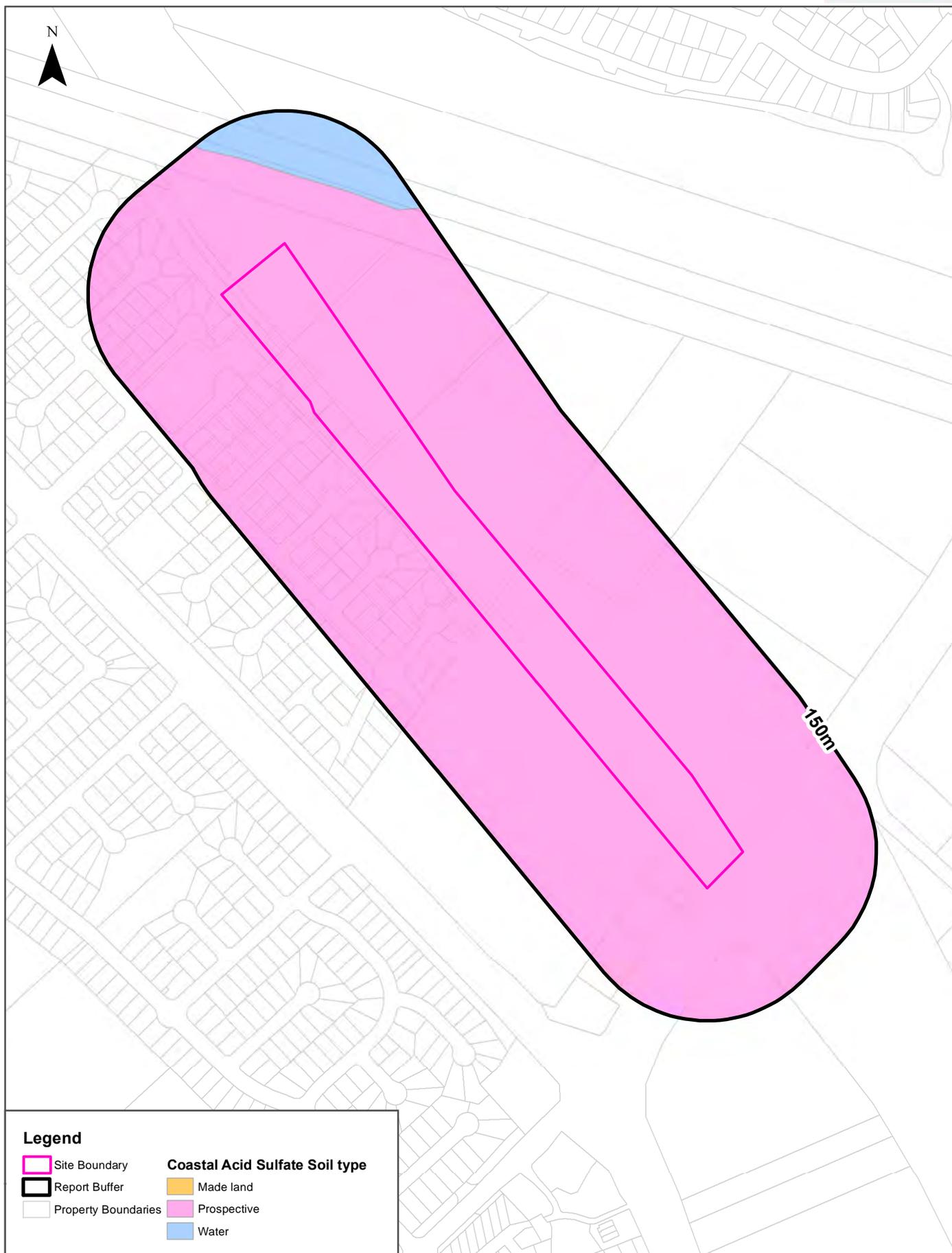
What are the Shear Zones within the report buffer (1:250,000 scale)?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No features					1:250,000

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

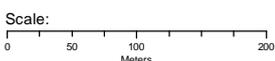
Coastal Acid Sulfate Soils

OSAR Proposed Road Alignments - Site 26 (Section 8)



Legend

- | | |
|---------------------|---------------------------------------|
| Site Boundary | Coastal Acid Sulfate Soil type |
| Report Buffer | Made land |
| Property Boundaries | Prospective |
| | Water |



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary
Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Coastal Acid Sulfate Soils

OSAR Proposed Road Alignments - Site 26 (Section 8)

Coastal Acid Sulfate Soils

What are the on-site Coastal Acid Sulfate Soil types?

Coastal Acid Sulfate Soil Types
Prospective

What are the Coastal Acid Sulfate Soil types within the report buffer?

Coastal Acid Sulfate Soil Types	Distance	Direction
Prospective	0m	Onsite
Water	77m	North

Coastal Acid Sulfate Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Planning Zones

OSAR Proposed Road Alignments - Site 26 (Section 8)



Planning Zones

OSAR Proposed Road Alignments - Site 26 (Section 8)

Planning Zones

Planning zones within the report buffer:

Zone Code	Description	Distance	Direction
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	0m	Onsite
GRZ3	GENERAL RESIDENTIAL ZONE - SCHEDULE 3	0m	Onsite
RDZ1	ROAD ZONE - CATEGORY 1	0m	North West
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	40m	North
RDZ1	ROAD ZONE - CATEGORY 1	43m	North East
C2Z	COMMERCIAL 2 ZONE	68m	South East
PUZ7	PUBLIC USE ZONE - OTHER PUBLIC USE	112m	North
UFZ	URBAN FLOODWAY ZONE	128m	North West
GWZ	GREEN WEDGE ZONE	147m	South East

Planning Zone Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Planning Overlays

OSAR Proposed Road Alignments - Site 26 (Section 8)



Planning Overlays

OSAR Proposed Road Alignments - Site 26 (Section 8)

Planning Overlays

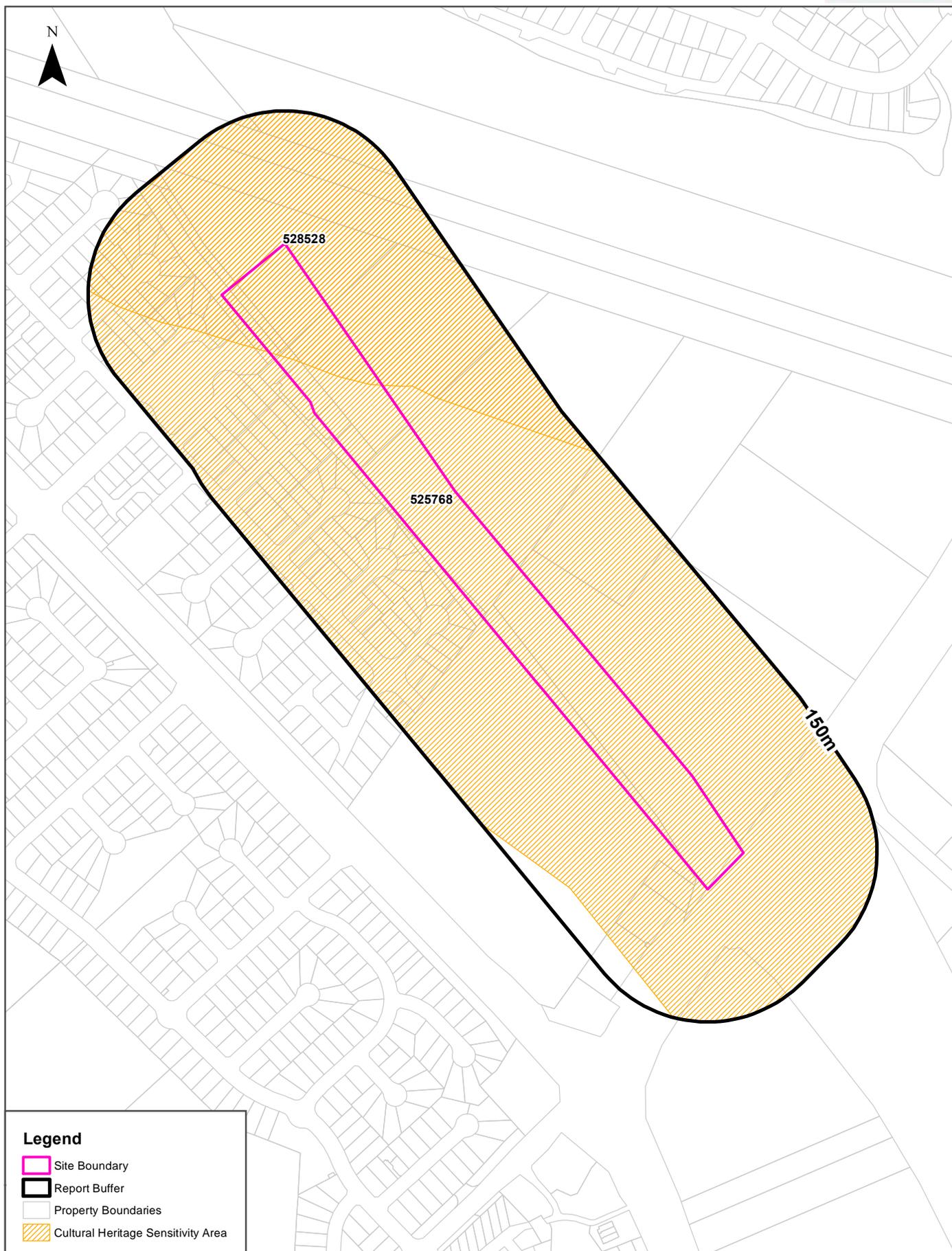
Planning overlays within the report buffer:

Zone Code	Description	Distance	Direction
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	0m	Onsite
PAO1	PUBLIC ACQUISITION OVERLAY 1	0m	Onsite
IPO3	INCORPORATED PLAN OVERLAY - SCHEDULE 3	0m	Onsite
DDO6	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 6	112m	North
IPO2	INCORPORATED PLAN OVERLAY - SCHEDULE 2	112m	North

Planning Overlay Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

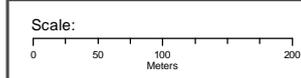
Cultural Heritage Sensitivity

OSAR Proposed Road Alignments - Site 26 (Section 8)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Cultural Heritage Sensitivity Area



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary
Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Cultural Heritage Sensitivity

OSAR Proposed Road Alignments - Site 26 (Section 8)

Cultural Heritage Sensitivity

Areas of Cultural Heritage Sensitivity as specified in Division 3 of Part 2 in the Aboriginal Heritage Regulations 2007, within the report buffer:

Map Id	Culturally Sensitive	Distance	Direction
525768	YES	0m	Onsite
528528	YES	0m	Onsite

Cultural Heritage Sensitivity Data Custodian: State Government Victoria - Dept of Planning and Community Development
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Natural Hazards

OSAR Proposed Road Alignments - Site 26 (Section 8)

Bushfire Prone Areas

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

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

Bushfire Prone Area Data Custodian: State Government Victoria - Dept of Transport, Planning & Local Infrastructure
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Fire History

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

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

Fire History Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Flood - 1 in 100 year modelled flood extent

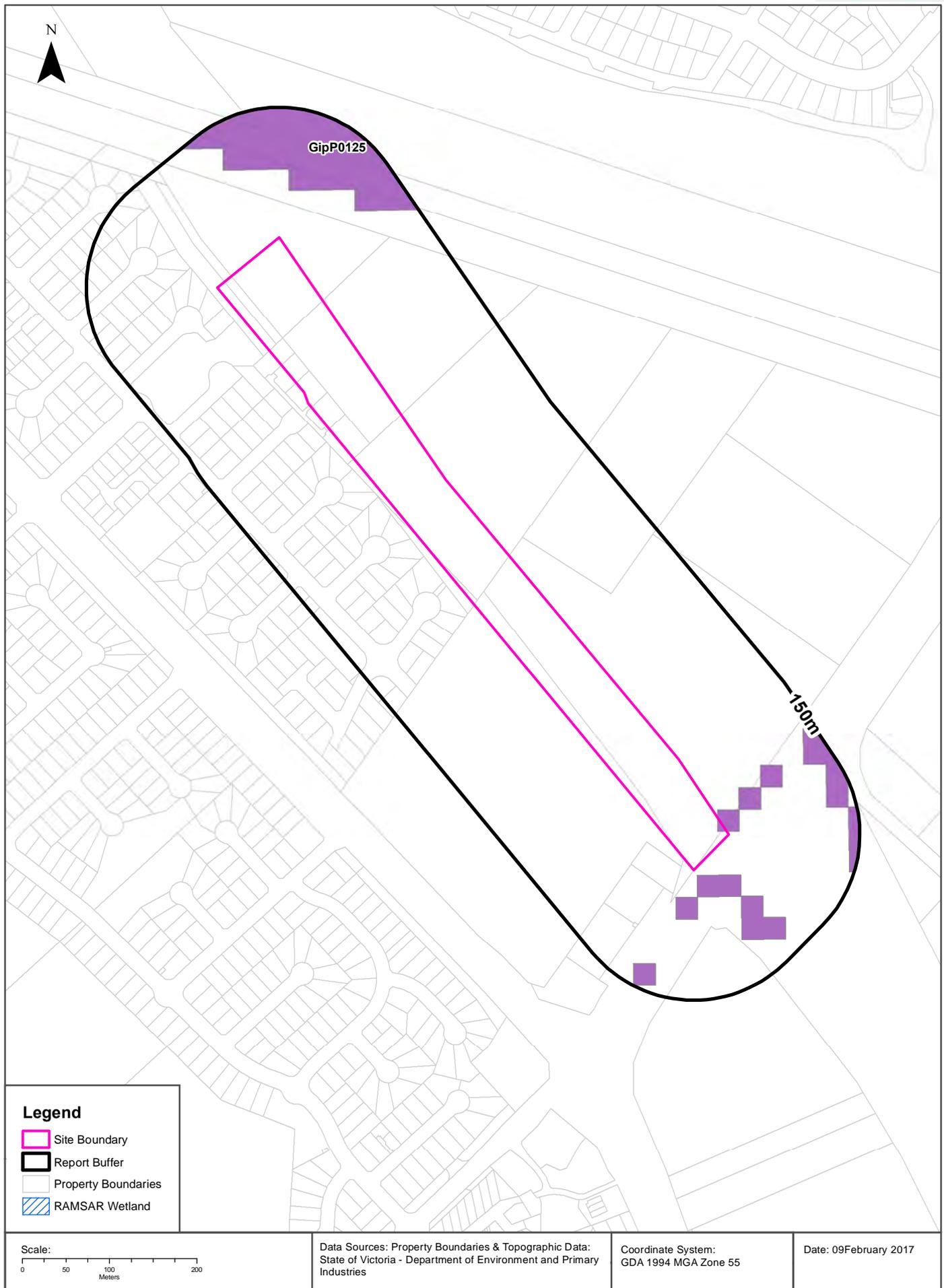
What 1 in 100 year flood extent features exist within the report buffer?

Feature	Source	Method	Scale	Modified Date	Distance	Direction
N/A	No records within buffer					

Flood Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Ecological Constraints - Native Vegetation 2005 & RAMSAR Wetlands

OSAR Proposed Road Alignments - Site 26 (Section 8)



Ecological Constraints

OSAR Proposed Road Alignments - Site 26 (Section 8)

Native Vegetation (Modelled 2005 Ecological Vegetation Classes)

What native vegetation exists within the report buffer?

Veg Code	EVC Name	EVCCode	Group	Subgroup	Bioregion	Conservation Status	Geographic Occurance	Distance
GipP0125	Plains Grassy Wetland	0125	Wetlands	Freshwater	Gippsland Plain	Endangered	Naturally Restricted	0m

Native Vegetation Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

RAMSAR Wetlands

What RAMSAR wetland areas exist within the report buffer?

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

RAMSAR Wetland Area Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

USE OF REPORT – APPLICABLE TERMS

The following terms apply to any person (End User) who is given the Report by the person who purchased the Report from Lotsearch Pty Ltd (ABN: 89 600 168 018) (Lotsearch) or who otherwise has access to the Report. The contract terms that apply between Lotsearch and the purchaser of the Report are specified in the order form pursuant to which the Report was ordered and the terms set out below are of no effect as between Lotsearch and the purchaser of the Report.

1. End User acknowledges and agrees that:
 - (a) the Report is compiled from or using content (**Third Party Content**) which is comprised of:
 - (i) content provided to Lotsearch by third party content suppliers with whom Lotsearch has contractual arrangements or content which is freely available (**Third Party Content Suppliers**);
 - (j) content which is derived from content described in paragraph (i);
 - (b) Lotsearch does not take any responsibility for or give any warranty in relation to the accuracy or completeness of any Third Party Content included in the Report;
 - (c) the Third Party Content Suppliers do not constitute an exhaustive set of all repositories or sources of information available in relation to the property which is the subject of the Report (**Property**);
 - (d) Lotsearch has not undertaken any physical inspection of the property;
 - (e) Lotsearch does not warrant that all land uses or features whether past or current are identified in the Report;
 - (f) the Report does not include any information relating to the actual state or condition of the Property;
 - (g) the Report should not be used or taken to indicate or exclude actual fitness or unfitness of a Property for any particular purpose;
 - (h) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
 - (i) the End User should undertake its own inspections of the Property to satisfy itself that there are no defects or failures.
2. The End User may not make the Report or any copies or extracts of the report or any part of it available to any other person. If End User wishes to provide the Report to any other person or make extracts or copies of the Report, it must contact the purchaser of the Report before doing so to ensure the proposed use is consistent with the contract terms between Lotsearch and the purchaser.
3. Neither Lotsearch (nor any of its officers, employees or agents) nor any of its Third Party Content Suppliers will have any liability to End User or any person to whom End User provides the Report and End User must not represent that Lotsearch or any of its Third Party Content Suppliers accepts liability to any such person or make any other representation to any such person on behalf of Lotsearch or any Third Party Content Supplier.
4. End User must not remove any copyright notices, trade marks, digital rights management information, other embedded information, disclaimers or limitations from the Report or authorise any person to do so.
5. End User acknowledges and agrees that Lotsearch and Third Party Content Suppliers retain ownership of all copyright, patent, design right (registered or unregistered), trade marks (registered or unregistered), database right or other data right, moral right or know how or any other intellectual property right in any Report or any other item, information or data included in or provided as part of a Report.
6. To the extent permitted by law and subject to paragraph 7, all implied terms, representations and warranties whether statutory or otherwise relating to the subject matter of these terms other than as expressly set out in these terms are excluded.
7. Subject to paragraph 8, Lotsearch excludes liability to End User for loss or damage of any kind, however caused, due to Lotsearch's negligence, breach of contract, breach of any law, in equity, under indemnities or otherwise, arising out of all acts, omissions and events whenever occurring.
8. Lotsearch acknowledges that if, under applicable State, Territory or Commonwealth law, End User is a consumer certain rights may be conferred on End User which cannot be excluded, restricted or modified. If so, and if that law applies to Lotsearch, then, Lotsearch's liability is limited to the greater of an amount equal to the cost of resupplying the Report and the maximum extent permitted under applicable laws.
9. Subject to paragraph 7, neither Lotsearch nor the End User is liable to the other for any indirect, incidental, consequential, special or exemplary damages arising out of or in relation to these terms.
10. These terms are subject to New South Wales law.

Environmental Risk and Planning Report

Proposed Road Alignments - Mordialloc Bypass (Section 9)

Report Buffer: 150m

Report Date: 09 Feb 2017 14:42:59

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.

Table of Contents

Location Confidences.....	2
Dataset Listings	3
Site Location Aerial	5
Topographic Features	6
Elevation Contours.....	7
EPA Records.....	8
Waste Management Facilities	11
Historical Business Activities.....	12
Historical Aerial Imagery & Maps	14
Features of Interest	21
Hydrogeology & Groundwater	23
Groundwater Boreholes	24
Geology	29
Coastal Acid Sulfate Soils	32
Planning Zones	34
Planning Overlays	36
Cultural Heritage Sensitivity	38
Natural Hazards	40
Ecological Constraints.....	42
Terms & Conditions.....	44

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 "LocConf". These codes lookup to the following location confidences:

LC Code	Location Confidence
1	Georeferenced to the site location / premise or part of site
2	Georeferenced with the confidence of the general/approximate area
3	Georeferenced to the road or rail
4	Georeferenced to the road intersection
5	Feature is a buffered point
6	Land adjacent to Georeferenced Site
7	Georeferenced to a network of features

Dataset Listing

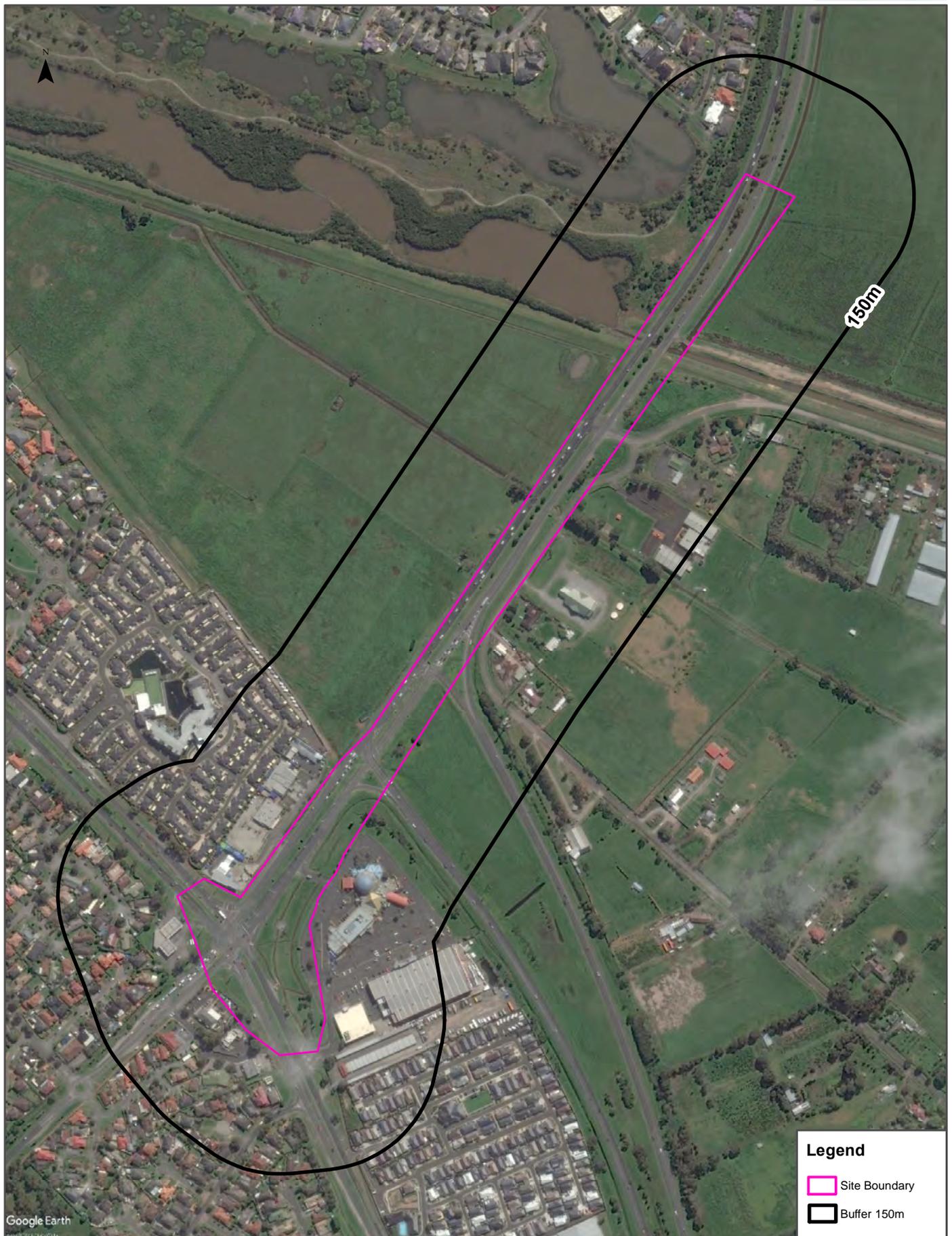
Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features in Buffer
Topographic and Cadastre data	State Government Victoria - Department of Environment, Land, Water & Planning	06/02/2017	06/02/2017	Quarterly	-	-	-
Current Priority Sites	Environment Protection Authority (Vic)	06/02/2017	31/12/2016	Monthly	0	0	0
Former Priority Sites & other Pollution Notices	Environment Protection Authority (Vic)	06/02/2017	05/01/2017	Monthly	0	0	0
EPA Environmental Audit Reports	Environment Protection Authority (Vic)	06/02/2017	24/11/2016	Monthly	0	0	0
Groundwater Zones with Restricted Uses	Environment Protection Authority (Vic)	06/02/2017	27/01/2017	Monthly	0	0	0
Licensed Activities	Environment Protection Authority (Vic)	06/02/2017	29/01/2017	Monthly	0	0	0
Former Licensed Activities	Environment Protection Authority (Vic)	06/02/2017	29/01/2017	Monthly	0	0	0
Works Approvals	Environment Protection Authority (Vic)	06/02/2017	06/02/2017	Monthly	0	0	0
National Waste Management Site Database	Geoscience Australia	06/02/2017	15/11/2012	Quarterly	0	0	0
Statewide Waste and Resource Recovery Infrastructure Plan Facilities	State Government Victoria - Department of Sustainability	27/11/2014	31/12/2012	None planned	0	0	0
EPA Prescribed Industrial Waste	Environment Protection Authority (Vic)	04/01/2017	04/01/2017	Quarterly	0	0	0
UBD Business to Business Directory 1991	Hardie Grant			Not required	0	0	0
UBD Business to Business Directory 1991 - Garages & Service Stations	Hardie Grant			Not required	0	0	0
UBD Business Directory 1980	Hardie Grant			Not required	0	0	0
UBD Business Directory 1980 Drycleaners, Motor Garages & Service Stations	Hardie Grant			Not required	0	0	0
Features of Interest	State Government Victoria - Department of Environment, Land, Water & Planning	03/02/2017	27/01/2017	Quarterly	3	11	12
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1	1	1
Groundwater Salinity	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Unknown	2	-	-
Depth to Watertable	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Unknown	1	-	-
Surface Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Unknown	1	-	-
Basement Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Unknown	1	-	-
Groundwater Boreholes WMIS	State Government Victoria - Department of Environment, Land, Water & Planning	29/04/2016	28/04/2016	Annually	1	2	46
Groundwater Boreholes Earth Resources Database	The State of Victoria, Department of Economic Development, Jobs, Transport and Resources	29/04/2016	17/02/2010	As required	0	1	14
Groundwater Boreholes Fed Uni	Federation University Australia	29/04/2016	07/01/2014	As required	0	0	0
Geological Units 1:250,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	1	-	1
Geological Structures 1:250,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	0	-	0
Shear zones 250k	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	0	-	0
Coastal Acid Sulfate Soils	The State of Victoria, Department of Economic Development, Jobs, Transport and Resources	15/07/2016	30/03/2011	None planned	1	2	2
Planning Scheme Zones	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	3	10	10

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features in Buffer
Planning Scheme Overlay	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	3	7	7
Cultural Heritage Sensitivity	State Government Victoria - Department of Planning and Community Development	03/02/2017	27/01/2017	Quarterly	2	3	3
Bushfire Prone Area	State Government Victoria - Department of Transport, Planning and Local Infrastructure	27/01/2017	27/01/2017	Quarterly	1	1	1
Fire History	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	0	0	0
Flood - 1 in 100 Year Modelled Flood Extent	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	0	0	0
Native Vegetation (Modelled 2005 Ecological Vegetation Classes)	State Government Victoria - Department of Environment, Land, Water & Planning	13/01/2015	31/12/2005	None planned	1	1	1
RAMSAR Wetlands	State Government Victoria - Department of Environment, Land, Water & Planning	13/01/2015	24/06/2013	None planned	0	0	0

Aerial Imagery 2016

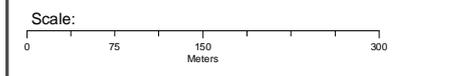
OSAR Proposed Road Alignments - Site 26 (Section 9)



Google Earth
Image © 2016 Google Inc.

Legend

- Site Boundary
- Buffer 150m



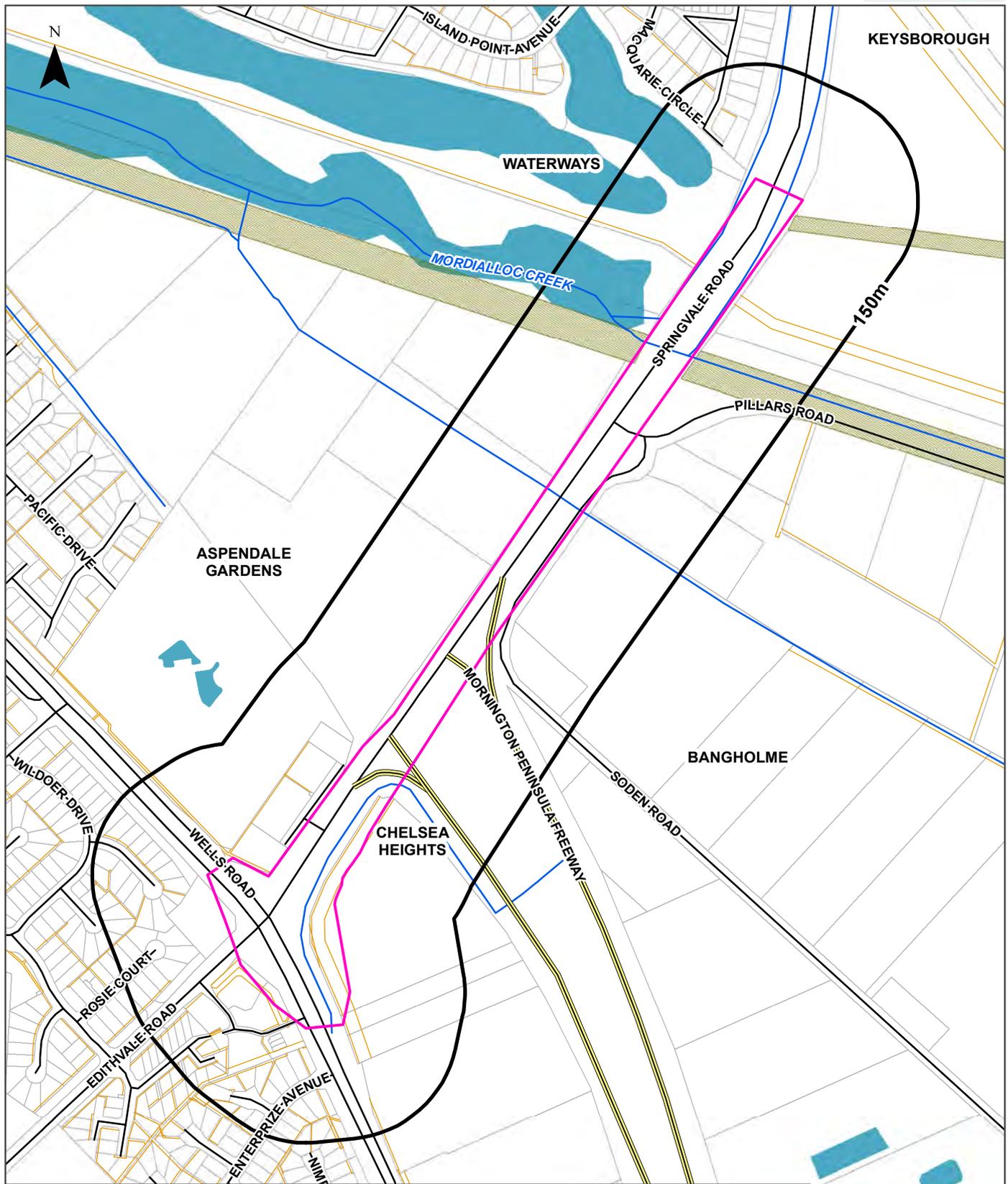
Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February, 2017

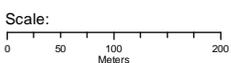
Topographic Data

OSAR Proposed Road Alignments - Site 26 (Section 9)



Legend

- | | | | | |
|---------------------|----------------------------|---------------|---------------------------|-------------|
| Site Boundary | Water Area | Major Road | Railway | Watercourse |
| Report Buffer | Crown or Commonwealth Land | Road | Light Rail | Easement |
| Property Boundaries | Statewide Forest | Track/Pathway | Rail - Underground/Tunnel | |



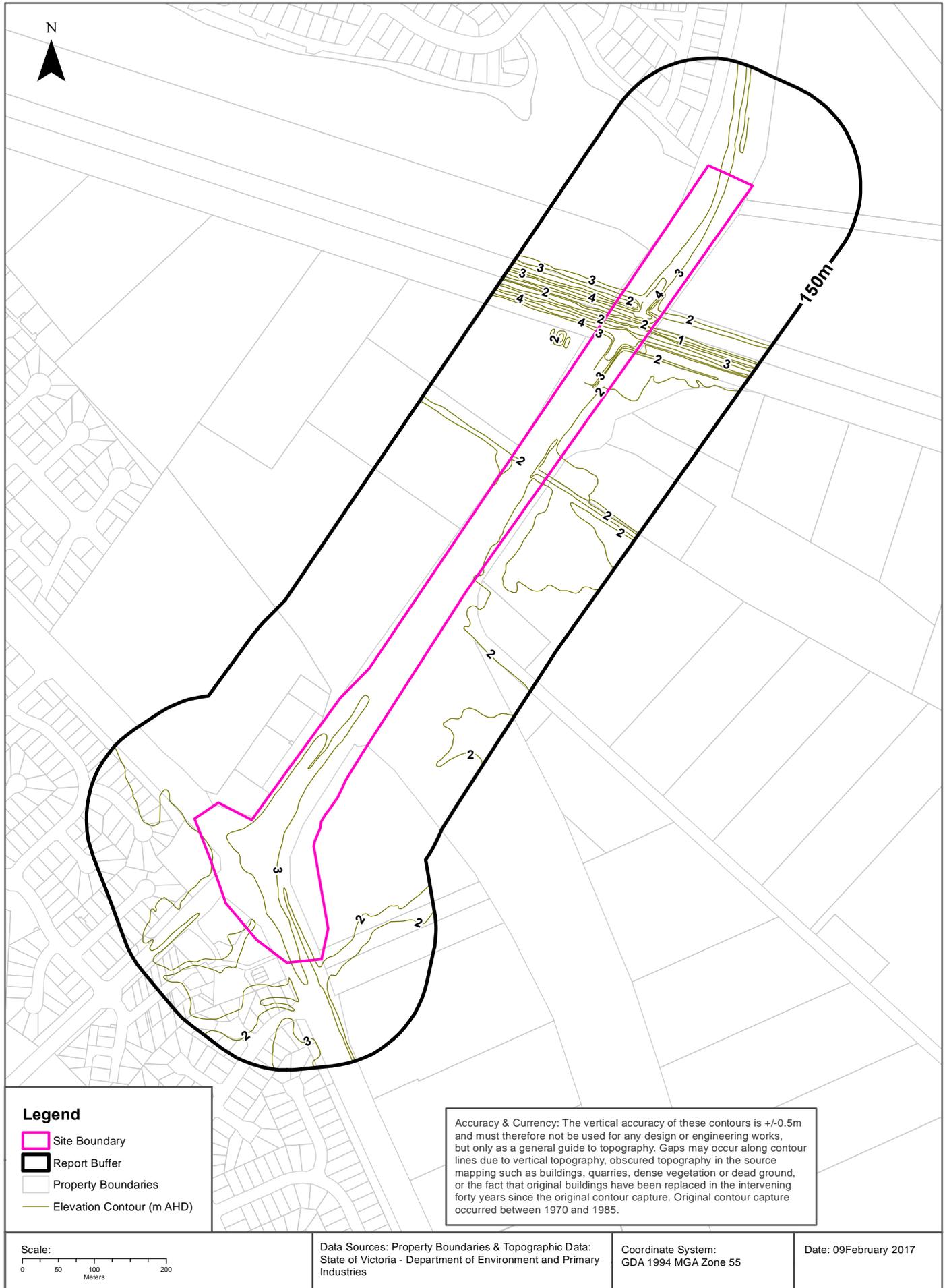
Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09 February 2017

Elevation Contours (m AHD)

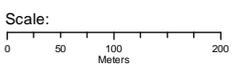
OSAR Proposed Road Alignments - Site 26 (Section 9)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Elevation Contour (m AHD)

Accuracy & Currency: The vertical accuracy of these contours is +/-0.5m and must therefore not be used for any design or engineering works, but only as a general guide to topography. Gaps may occur along contour lines due to vertical topography, obscured topography in the source mapping such as buildings, quarries, dense vegetation or dead ground, or the fact that original buildings have been replaced in the intervening forty years since the original contour capture. Original contour capture occurred between 1970 and 1985.



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 9)

Current EPA Priority Sites Register

What sites on the current EPA priority sites register exist within the report buffer?

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

Priority Sites Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Former EPA Priority Sites & Other Pollution Notices

What sites within the report buffer 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.

Notice No	Notice Type	Company	Address	Suburb	Status	Issue	Date Issued	Loc Conf	Dist	Dir
N/A	No records in buffer									

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

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 9)

EPA Environmental Audits

What EPA environmental audit records exist within the report 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.

CARMS No	Transaction No	Site	Address	Suburb	Date Complete	Loc Conf	Distance	Direction
N/A	No records in buffer							

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

EPA Groundwater Zones with Restricted Uses

What EPA GQRUZ exist within the report buffer?

Note. Please click on CARMS No. to activate a hyperlink to online documentation.

CARMS No	EPA Id	Site History	Site Address	Restricted Uses	Loc Conf	Distance	Direction
N/A	No records in buffer						

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

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 9)

EPA Licensed Activities

What EPA licensed activities exist within the report 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									

Licensed Activity Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Former EPA Licensed Activities

What former EPA licensed activities exist within the report buffer?

Licence No	Organisation	Premise Address	Suburb	Activities	Loc Conf	Dist (m)	Direction
N/A	No records in buffer						

Former Licensed Activity Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

EPA Works Approvals

What EPA works approvals exist within the report buffer?

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

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

Waste Management Facilities

OSAR Proposed Road Alignments - Site 26 (Section 9)

National Waste Management Site Database

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

Site Id	Owner	Name	Address	Suburb	Postcode	Landfill	Reprocess	Transfer	Loc Conf	Dist (m)	Direction
N/A	No records in buffer										

Waste Management Facilities Data Source: Australian Government Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Statewide Waste and Resource Recovery Infrastructure Plan Facilities

Statewide Waste and Resource Recovery Infrastructure Plan Facilities within the report 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

EPA Prescribed Industrial Waste

EPA Prescribed industrial waste sites within the report buffer:

Map Id	Company Name	Address	Suburb	Treatment /Disposal	Transport	Accredited Agent	EPA List Status	Loc Conf	Dist (m)	Direct
N/A	No records in buffer									

Prescribed Industrial Waste Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 9)

1991 Business to Business Directory Records

1991 UBD Business Directory Records within 150m of the site:

Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1991 Business to Business Directory Garages & Service Stations

1991 UBD Business Directory Garages & Service Stations within 1km of the site:

Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 9)

1980 Business Directory Records

1980 UBD Business Directory Records within 150m of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1980 Business Directory Drycleaners, Garages & Service Stations

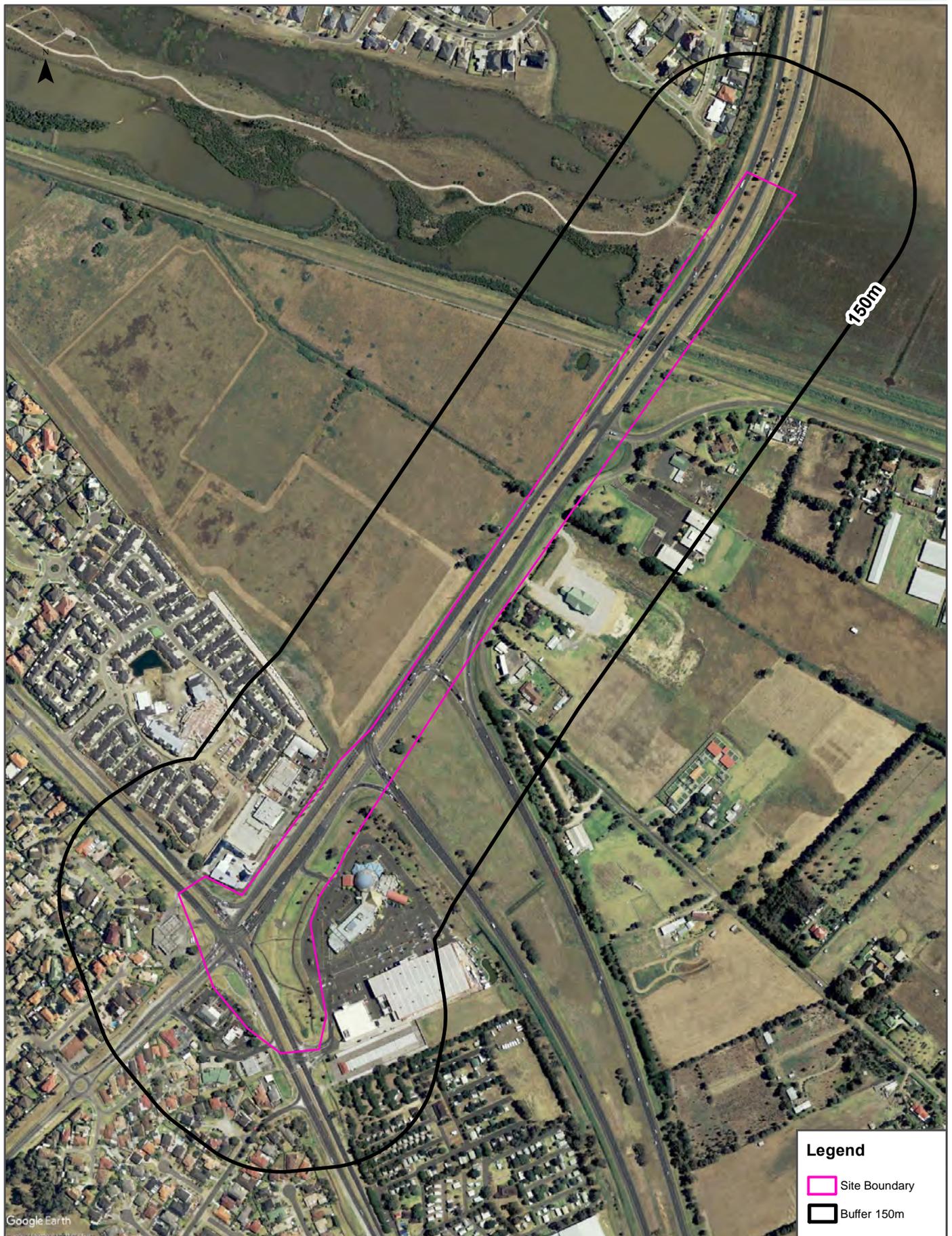
Drycleaners, Garages & Service Stations from the 1980 UBD Business Directory within 1km of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Aerial Imagery 2009

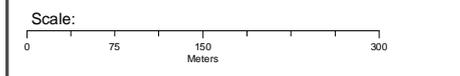
OSAR Proposed Road Alignments - Site 26 (Section 9)



Google Earth

Legend

- Site Boundary
- Buffer 150m



Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System: GDA 1994 MGA Zone 55

Date: 09February, 2017

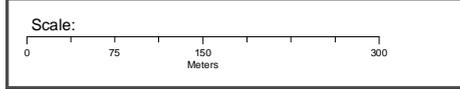
Aerial Imagery 2005

OSAR Proposed Road Alignments - Site 26 (Section 9)



Google Earth

Legend	
	Site Boundary
	Buffer 150m



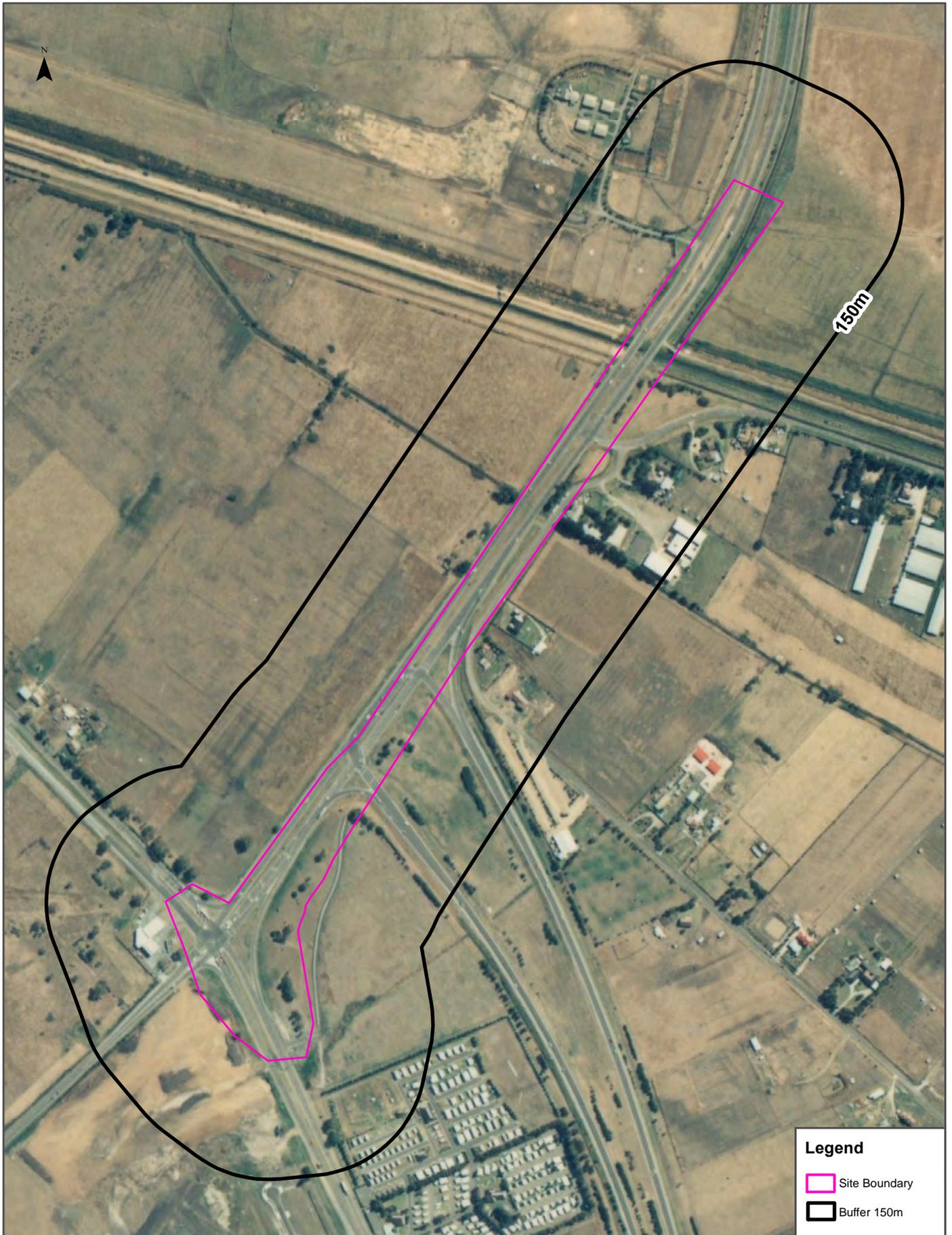
Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System: GDA 1994 MGA Zone 55

Date: 09February, 2017

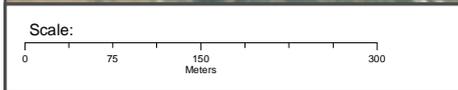
Aerial Imagery 1990

OSAR Proposed Road Alignments - Site 26 (Section 9)



Legend

- Site Boundary
- Buffer 150m



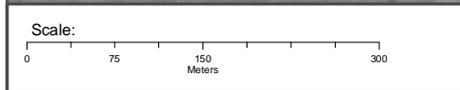
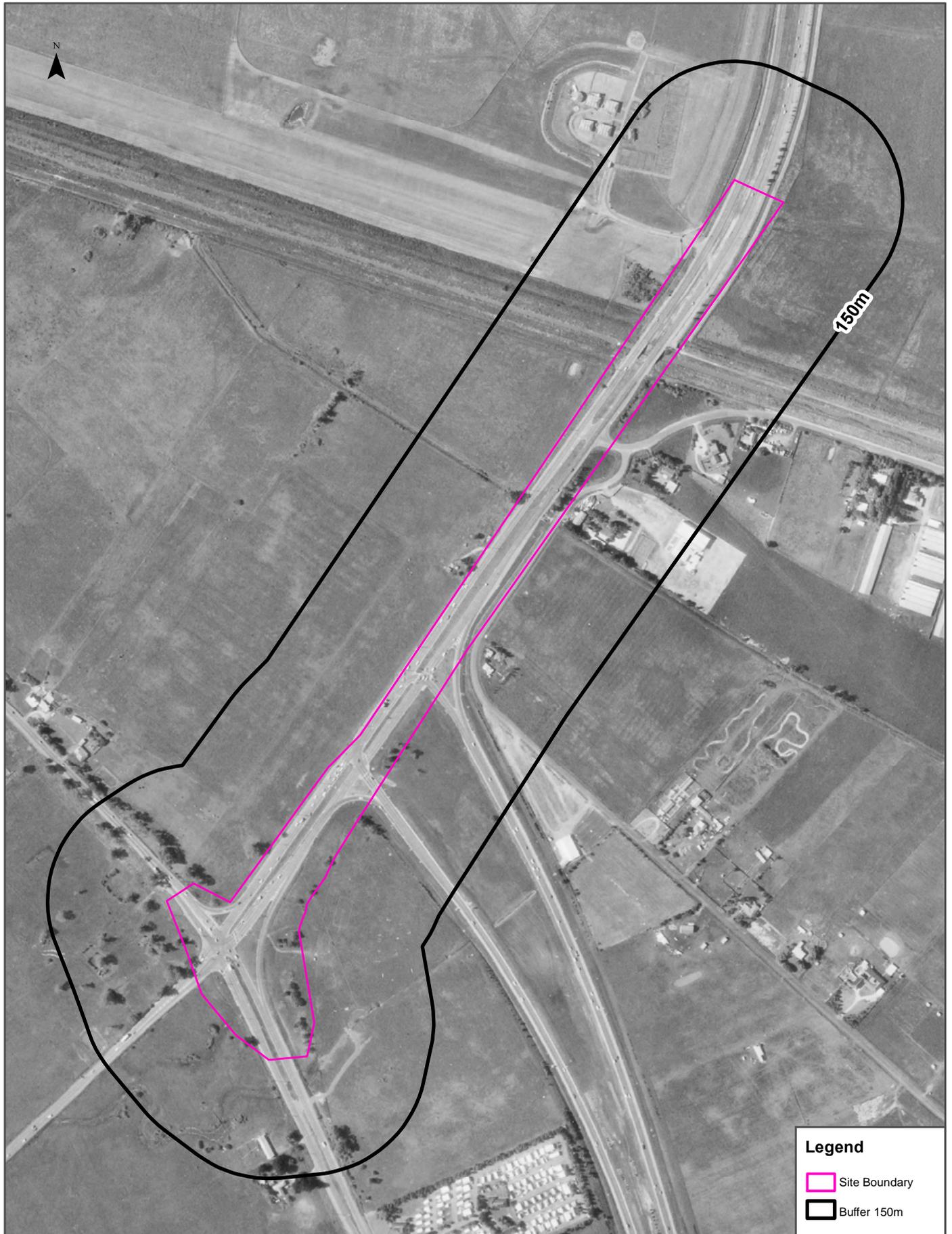
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 09February, 2017

Aerial Imagery 1985

OSAR Proposed Road Alignments - Site 26 (Section 9)



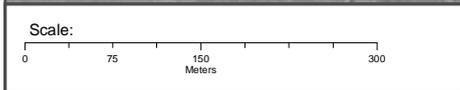
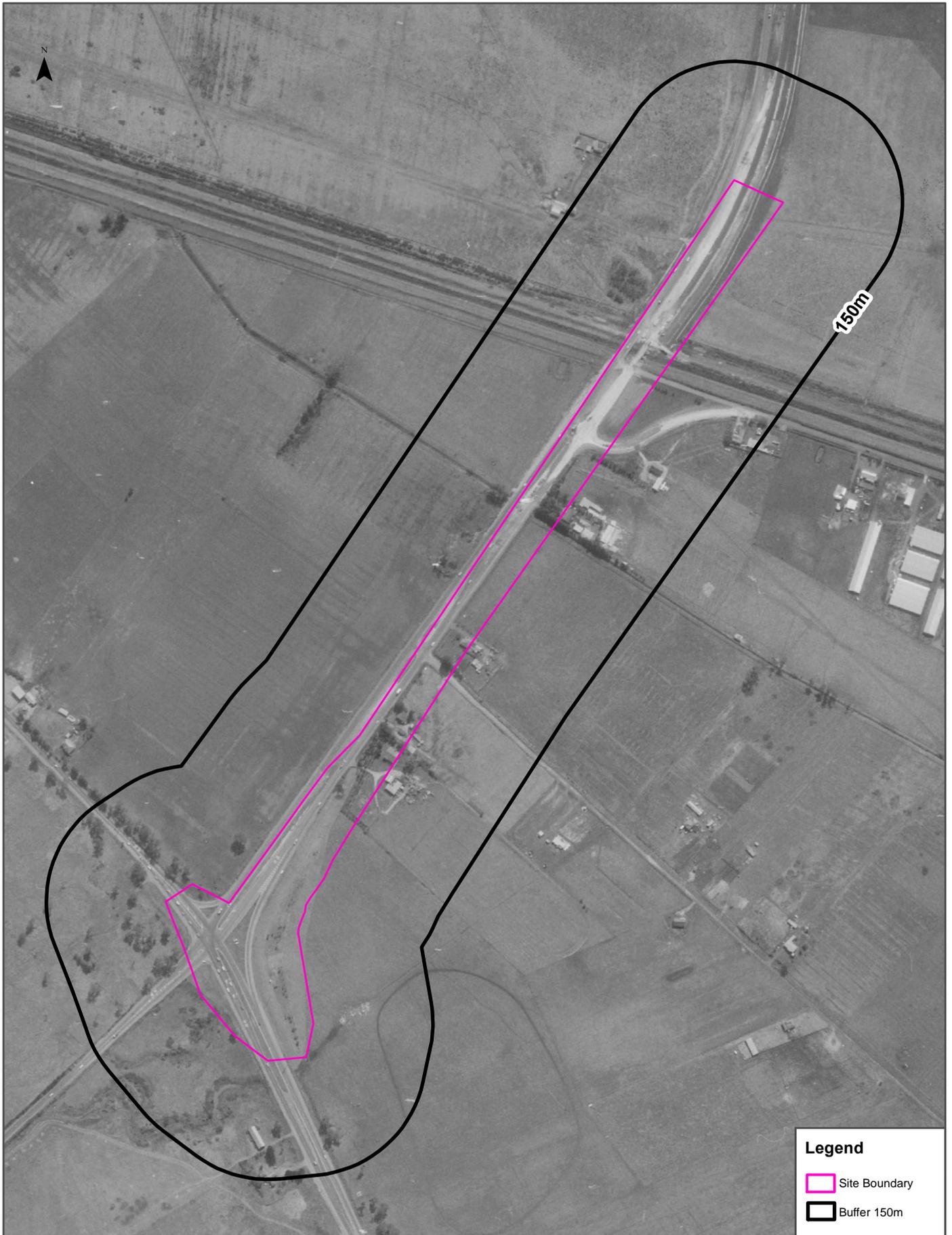
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 10 February 2017

Aerial Imagery 1974

OSAR Proposed Road Alignments - Site 26 (Section 9)



Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

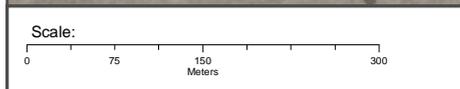
Date: 09February, 2017

Aerial Imagery 1962

OSAR Proposed Road Alignments - Site 26 (Section 9)



Legend	
	Site Boundary
	Buffer 150m



Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 09February, 2017

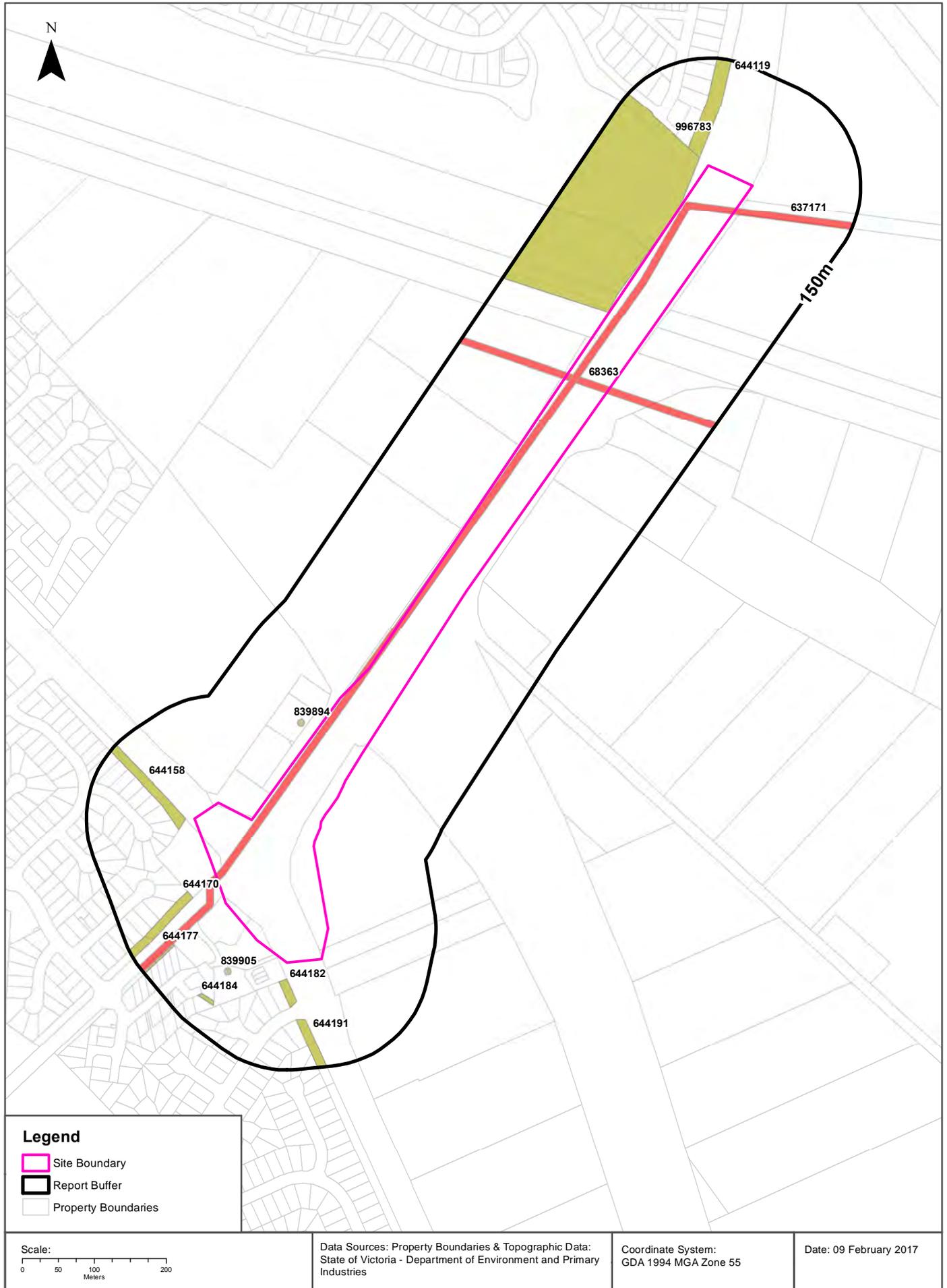
Aerial Imagery 1951

OSAR Proposed Road Alignments - Site 26 (Section 9)



Features of Interest

OSAR Proposed Road Alignments - Site 26 (Section 9)



Features of Interest

OSAR Proposed Road Alignments - Site 26 (Section 9)

Features of Interest

Features of Interest within 1km of the site:

Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
996783	reserve	park		0m	Onsite
68363	pipeline	gas pipeline	Dutson To Hastings	0m	Onsite
637171	pipeline	gas pipeline	Dandenong - Edithvale	0m	Onsite
644158	reserve	park		12m	South West
644119	reserve	park		17m	North East
839894	care facility	child care	Goodstart Early Learning Aspendale Gardens	19m	South West
644182	reserve	park		23m	South
644170	reserve	park		41m	South West
839905	care facility	child care	Goodstart Early Learning Chelsea Heights	55m	South West
644191	reserve	park		80m	South
644177	reserve	park		92m	South West
644184	reserve	park		104m	South West

Features of Interest Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

OSAR Proposed Road Alignments - Site 26 (Section 9)

Hydrogeology

Description of aquifers within report buffer:

Description	Distance	Direction
Porous, extensive highly productive aquifers	0m	Onsite

Hydrogeology Map of Australia: Commonwealth of Australia (Geoscience Australia)
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Salinity

On-site Groundwater Salinity:

Groundwater Salinity	Percent Of Site Area
3,500 - 7,000 mg/l	93
1,000 - 3,500 mg/l	7

Depth to Watertable

On-site Depth to Watertable:

Depth to Watertable	Percent Of Site Area
Less than 5 metres	100

Surface Elevation

Approximate on-site Surface Elevation:

Surface Elevation
2 AHDm to 3 AHDm

Basement Elevation

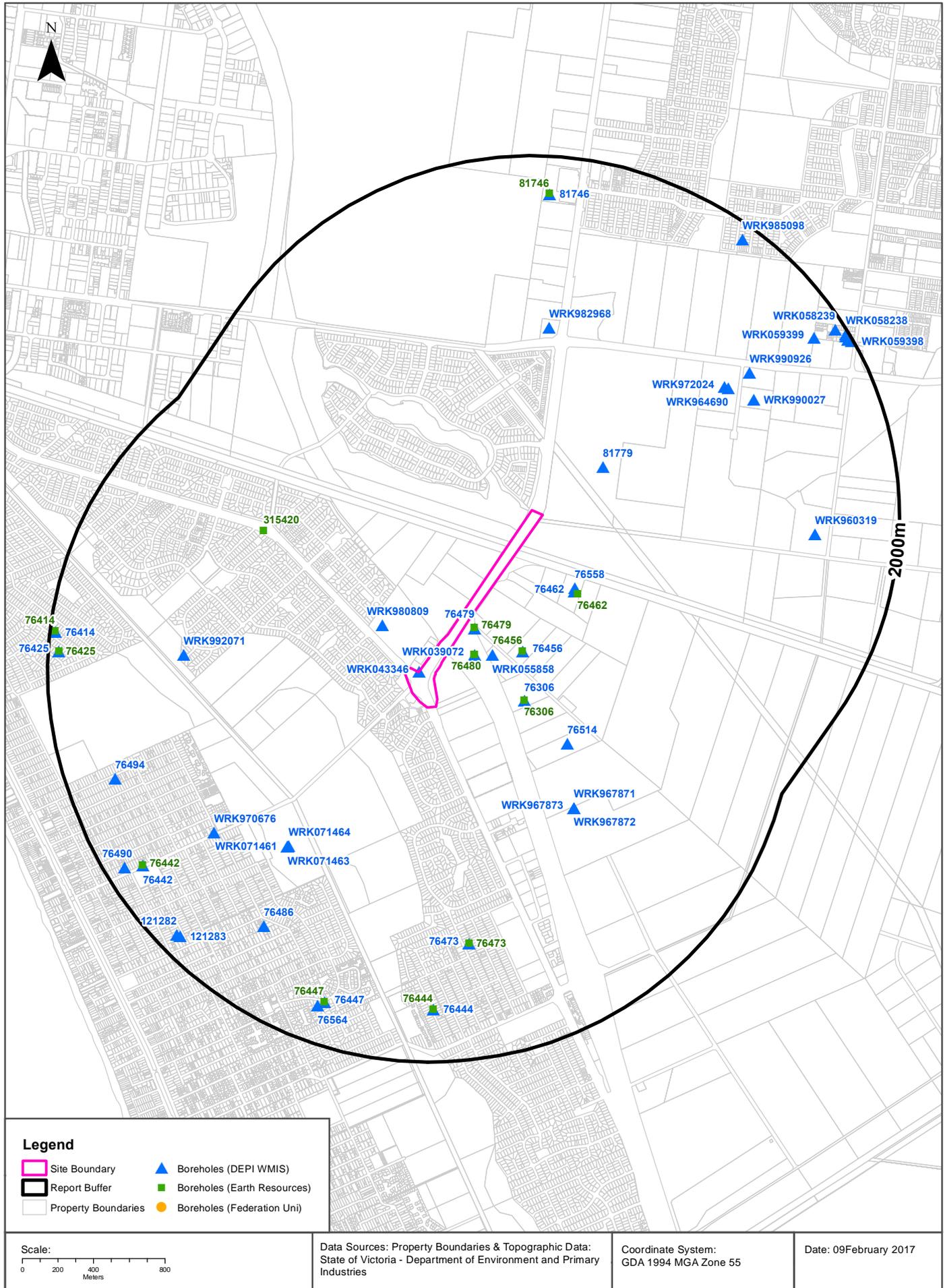
Approximate on-site Basement Elevation:

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
-57 AHDm to -46 AHDm

Groundwater Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 9)



Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 9)

Boreholes (DEPI WMIS)

Boreholes from the Department of Environment and Primary Industries' Water Measurement Information System, within the report buffer:

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK043346							0	Onsite
76479	Domestic	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-12.00m SANDY CLAY 12.00m-19.00m SAND (MEDIUM) 19.00m-24.38m CLAY IRONSTONE BANDS	0.00m-12.19m INNER LINING - CASING = Pvc Class 9 12.19m-18.29m INNER LINING - SCREEN = Pvc Class 9 18.29m-24.38m INNER LINING - CASING = Pvc Class 9		12.19m-18.29m Sand	1986-01-11	50	South East
WRK039072	Domestic, Irrigation, Stock	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-18.00m SANDY CLAY 18.00m-22.00m SAND (MEDIUM) 22.00m-24.38m CLAY (IRONSTONE BANDS)	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-21.34m INNER LINING - SCREEN = Pvc 21.34m-24.38m INNER LINING - CASING = Pvc		18.29m-21.34m Sand	1986-01-09	131	South
WRK055858	Irrigation						217	South East
WRK980809							289	West
76456	Domestic, Stock	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-12.00m SANDY CLAY 12.00m-18.00m SAND (MEDIUM) 18.00m-22.25m CLAY WITH IRONSTONE BANDS	0.00m-12.19m INNER LINING - CASING = Pvc 12.19m-18.29m INNER LINING - SCREEN = Pvc 18.29m-22.25m INNER LINING - CASING = Pvc		12.19m-18.29m Sand	1983-11-23	348	South East
76558	Not Known					1988-01-01	383	East
76462	Agro Industries, Domestic, Stock	0.00m-2.44m BLACK TOPSOIL 2.44m-3.00m GREY CLAY 3.00m-12.19m RED CLAY 12.19m-18.29m GREY SANDY CLAY 18.29m-21.34m COARSE SAND	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-21.34m INNER LINING - SCREEN = Pvc		18.29m-21.34m Sand	1982-12-27	392	East
81779	Not Known	0.00m-0.70m SANDY LOAM 0.70m-3.00m GREY CLAYEY SAND 3.00m-10.00m ORANGE SANDS 10.00m-14.00m GREY SANDS 14.00m-17.50m BLACK SANDS	0.00m-10.50m INNER LINING - CASING = Pvc 10.50m-16.50m INNER LINING - SCREEN = Pvc 16.50m-17.50m INNER LINING - CASING = Pvc 8.50m-17.50m OUTER LINING - GRAVEL = Not Known		10.50m-16.50m Sand	1988-12-08	433	North East
76306	Domestic	0.00m-3.00m BLACK CLAY 3.00m-11.00m YELLOW CLAY 11.00m-18.00m SANDY CLAY 18.00m-24.38m SAND (MEDIUM)	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-24.38m INNER LINING - SCREEN = Pvc		18.29m-24.38m Sand	1986-01-13	487	South East
76514	Domestic	0.00m-3.00m STILL BLACK CLAY 3.00m-6.00m YELLOW BROWN SANDY CLAY 6.00m-9.50m YELLOW BROWN LOOSE SAND 9.50m-14.00m YELLOW BROWN SANDY CLAY 14.00m-20.00m YELLOW BROWN LOOSE SAND	0.00m-12.50m INNER LINING - CASING = Not Known 12.50m-18.30m INNER LINING - SCREEN = Not Known 40.00m-0.00m OUTER LINING - GRAVEL = Not Known		12.50m-18.30m Sand	1990-02-27	764	South East
WRK967871	Groundwater Investigation	0.00m-0.20m ORGANIC MATTER 0.20m-0.40m CLAYEY SAND 0.40m-7.50m SANDY CLAY, GREY	0.00m-4.50m INNER LINING - CASING = Pvc Class 18 4.50m-7.50m INNER LINING - SLOT = Pvc Class 18 0.00m-0.50m OUTER LINING - GRAVEL = Cement 0.50m-3.50m OUTER LINING - GRAVEL = Seal 3.50m-4.00m OUTER LINING - GRAVEL = Bentonite 4.00m-7.50m OUTER LINING - GRAVEL = Gravel			2004-11-26	960	South East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK967872	Groundwater Investigation	0.00m-0.20m ORGANIC MATTER 0.20m-0.50m SAND - BROWN 0.50m-9.00m SANDY CLAY, GREY	0.00m-4.50m INNER LINING - CASING = Pvc Class 18 4.50m-9.00m INNER LINING - SLOT = Pvc Class 18 0.00m-0.50m OUTER LINING - GRAVEL = Cement 0.50m-4.00m OUTER LINING - GRAVEL = Seal 4.00m-5.00m OUTER LINING - GRAVEL = Bentonite 5.00m-9.00m OUTER LINING - GRAVEL = Gravel			2004-11-26	960	South East
WRK967873	Groundwater Investigation	0.00m-1.20m CLAY 1.20m-4.20m SILTY SANDY CLAY, BLACK 4.20m-5.20m SANDY CLAY, DARK BROWN 5.20m-6.20m SILTY CLAY	0.00m-2.60m INNER LINING - CASING = Pvc Class 18 2.60m-6.20m INNER LINING - SLOT = Pvc Class 18 0.00m-0.50m OUTER LINING - GRAVEL = Cement 0.50m-1.20m OUTER LINING - GRAVEL = Seal 1.20m-2.10m OUTER LINING - GRAVEL = Bentonite 2.10m-6.20m OUTER LINING - GRAVEL = Gravel			2004-12-10	960	South East
WRK982968							1033	North
WRK071464	Observation					2012-10-11	1095	South West
WRK071463	Observation					2012-10-11	1101	South West
WRK071462	Observation					2012-10-11	1102	South West
WRK071461	Observation	0.00m-0.60m SOIL 0.60m-7.30m SAND	0.00m-3.00m INNER LINING - CASING = Pvc 3.00m-7.50m INNER LINING - SCREEN = Pvc 0.00m-0.10m OUTER LINING - GRAVEL = Cement 0.10m-3.00m OUTER LINING - GRAVEL = Bentonite 3.00m-7.50m OUTER LINING - GRAVEL = Gravel		3.00m-7.50m Sand	2012-10-11	1102	South West
WRK992071							1240	West
WRK972024							1249	North East
WRK964690							1261	North East
76473	Domestic	0.00m-0.91m BLACK TOP SOIL 0.91m-3.00m YELLOW FINE SAND 3.00m-6.10m COARSE SAND CLEAN	0.00m-5.44m INNER LINING - CASING = Not Known 5.44m-6.10m INNER LINING - SCREEN = Not Known		5.44m-6.10m Sand	1983-08-07	1348	South
WRK990027	Domestic	0.00m-1.00m top soil 1.00m-4.60m sandy clay 4.60m-27.00m sloppy beach sands	0.00m-15.00m INNER LINING - CASING = Pvc 15.00m-27.00m INNER LINING - SCREEN = Pvc 0.00m-6.00m OUTER LINING - GRAVEL = Cement 6.00m-27.00m OUTER LINING - GRAVEL = Gravel			2009-05-21	1350	North East
WRK970676							1360	South West
WRK990926							1409	North East
WRK960319	Domestic & Stock	0.00m-0.30m TOPSOIL 0.30m-1.80m GREY CLAY 1.80m-3.50m ORANGE & GREY CLAY 3.50m-10.00m GREY SILTY CLAY 10.00m-19.00m BLACK SILTY CLAY 19.00m-24.00m LIGNIOUS CLAY 24.00m-27.00m VOLCANIC CLAY 27.00m-61.00m GRANITE	0.40m-27.00m INNER LINING - CASING = Pvc 27.00m-58.00m INNER LINING - SLOT = Pvc 0.00m-3.00m OUTER LINING - GRAVEL = Cement 3.00m-27.00m OUTER LINING - GRAVEL = Gravel		27.00m-58.00m Granite	2002-12-19	1531	East
76486	Domestic	0.00m-5.00m PROBABLY SAND	0.00m-5.00m INNER LINING - CASING = Pvc			1983-12-31	1533	South West
76444	Domestic	0.00m-0.61m BLACK LOAM SAND TOP SOIL 0.61m-2.40m BLACK GREY SAND 2.40m-3.61m GREY COARSE SAND	0.00m-2.74m INNER LINING - CASING = Pvc 2.74m-3.61m INNER LINING - SCREEN = Pvc		2.74m-3.61m Sand	1983-11-09	1701	South
76494	Domestic	0.00m-0.60m BLACK SANDY TOP SOIL 0.60m-1.00m BROWN CLAY SAND - FINE 1.00m-2.13m YELLOW CALCAREOUS SHELLY SAND- COARSE 2.13m-3.00m AS ABOVE TENDING GREY TO BLACK AND FINE GRAINED 3.00m-4.50m LIGNIOUS BLACK CLAY	-0.10m-2.10m INNER LINING - CASING = Pvc Class 12 2.10m-2.74m INNER LINING - SCREEN = Pvc Class 12 1.50m-3.00m OUTER LINING - GRAVEL = Gravel		2.10m-2.74m Marl	1987-01-09	1729	South West
76447	Domestic	0.00m-1.83m BLACK CLAY BUILT UP GROWN 1.83m-2.44m COARSE WHITE SAND TO BLACK MARL	0.00m-1.83m INNER LINING - CASING = Not Known 1.83m-2.44m INNER LINING - SCREEN = Not Known		1.83m-2.44m Sand	1983-09-14	1757	South

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
81746	Domestic	0.00m-3.05m BROWN CLAY 3.05m-15.24m BROWN SANDY CLAY 15.24m-24.38m BLUE GREY GRAVELLY CLAY 24.38m-39.62m GREY GREEN SANDY CLAY 39.62m-45.41m GREY GREEN GRAVELLY CLAY	0.00m-4.57m INNER LINING - CASING = Pvc 0.00m-33.05m INNER LINING - CASING = Pvc 33.05m-38.10m INNER LINING - SCREEN = Pvc 39.92m-41.15m INNER LINING - SCREEN = Wire W S/Steel		33.05m-38.10m Clay 39.92m-41.15m Clay	1982-02-28	1786	North
76564	Domestic	0.00m-3.00m NO DETAILS AVAILABLE	0.00m-3.00m INNER LINING - CASING = Pvc			1983-03-17	1789	South
76442	Domestic	0.00m-7.62m SAND	0.00m-7.00m INNER LINING - CASING = Pvc 7.00m-7.62m INNER LINING - SCREEN = Pvc		7.00m-7.62m Sand	1983-01-12	1797	South West
WRK059399	Observation					2010-11-10	1821	North East
121283	Groundwater Investigation	0.00m-34.00m GREY SAND & CLAY PATCHES	-0.50m-31.00m INNER LINING - CASING = Pvc 31.00m-34.00m INNER LINING - SCREEN = Pvc 0.00m-2.00m OUTER LINING - GRAVEL = Cement 29.00m-30.00m OUTER LINING - GRAVEL = Bentonite 30.00m-34.00m OUTER LINING - GRAVEL = Gravel		31.00m-34.00m Sand	1993-10-20	1884	South West
76490	Domestic	0.00m-5.00m SAND	0.00m-4.00m INNER LINING - CASING = Pvc 4.00m-5.00m INNER LINING - SCREEN = Pvc		4.00m-5.00m Sand	1985-12-31	1887	South West
121282	Groundwater Investigation	0.00m-31.00m GREY SAND & CLAY PATCHES	-0.50m-22.00m INNER LINING - CASING = Pvc 22.00m-31.00m INNER LINING - SCREEN = Pvc 0.00m-2.00m OUTER LINING - GRAVEL = Cement 19.00m-20.00m OUTER LINING - GRAVEL = Bentonite 20.00m-31.00m OUTER LINING - GRAVEL = Gravel		22.00m-31.00m Sand	1993-10-20	1892	South West
WRK985098							1916	North East
76425	Domestic	0.00m-0.61m LOAM 0.61m-1.06m WHITE SAND 1.06m-1.37m BLACK CLAY 1.37m-1.83m GREY SAND AND SHELLS 1.83m-2.27m BLACK CLAY 2.27m-2.74m GREY SAND AND SEA SHELLS 2.74m-3.35m BLACK CLAY 3.35m-3.66m GREY SAND AND SEA SHELLS 3.66m-4.57m BLACK CLAY 4.57m-5.18m GREY SAND AND SEA SHELLS	0.00m-4.57m INNER LINING - CASING = Pvc 4.57m-5.18m INNER LINING - SCREEN = Pvc		4.57m-5.18m Sand	1983-12-12	1939	West
WRK058239	Observation					2010-11-10	1944	North East
76414	Domestic	0.00m-1.30m PEAT - CLAY 1.30m-2.30m SAND - WET 2.30m-4.57m CLAY - WET 4.57m-0.00m WHITE-GREY SANDSTONE	0.00m-3.96m INNER LINING - CASING = Pvc 3.96m-4.57m INNER LINING - SCREEN = Pvc		3.96m-4.57m Sandstone	1983-02-24	1969	West
WRK068557	Observation					2012-01-21	1975	North East
WRK068558	Observation					2012-01-21	1976	North East
WRK058238	Observation	0.00m-0.60m sandy silt 0.60m-2.80m silty clay 2.80m-6.00m clayey sand	0.00m-2.00m INNER LINING - CASING = Pvc 2.00m-6.00m INNER LINING - SCREEN = Pvc 0.00m-0.30m OUTER LINING - GRAVEL = Cement 0.30m-1.50m OUTER LINING - GRAVEL = Bentonite 1.50m-6.00m OUTER LINING - GRAVEL = Gravel		2.00m-6.00m Sand	2010-11-10	1982	North East
WRK059398	Observation					2010-11-10	1990	North East

Boreholes WMIS Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 9)

Boreholes (Earth Resources Database)

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

Bore Id	Bore Type	Company	Usage	Method	Status	Drill Date	Depth	Elevation	Accuracy (m)	Dist (m)	Direct
76479		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		11/01/1986	24.38		100	47	South East
76480		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		09/01/1986	24.38		100	128	South
76480		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		09/01/1986	24.38		100	128	South
76456		Private Individual/Corporation	Domestic & Stock water supply	Air Percussion/Air Rotary		23/11/1983	22.25		100	345	South East
76462		Private Individual/Corporation	Stock/Poultry water supply	Air Percussion/Air Rotary		27/12/1982	21.34		100	415	East
76306		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		13/01/1986	60.96		100	485	South East
315420		Department of Manufacturing & Industry Development				31/12/1928	67.06	20.00	100	1122	North West
76473		Private Individual/Corporation	Domestic water supply	Hand Auger		07/08/1983	6.10		100	1347	South
76444		Private Individual/Corporation	Domestic water supply	Spear point (multiple system)		09/11/1983	3.60		100	1700	South
76447		Private Individual/Corporation	Domestic water supply	Hand Auger		14/09/1983	2.44		100	1756	South
81746		Private Individual/Corporation	Domestic water supply	Rotary (diamond/drag bit)		28/02/1982	45.41		100	1786	North
76442		Private Individual/Corporation	Domestic water supply	Mechanical Auger		12/01/1983	7.62		100	1797	South West
76425		Private Individual/Corporation	Domestic water supply	Spear point (multiple system)		12/12/1983	5.18		100	1941	West
76414		Private Individual/Corporation	Domestic water supply	Hand Auger		24/02/1983	4.57		100	1970	West

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)

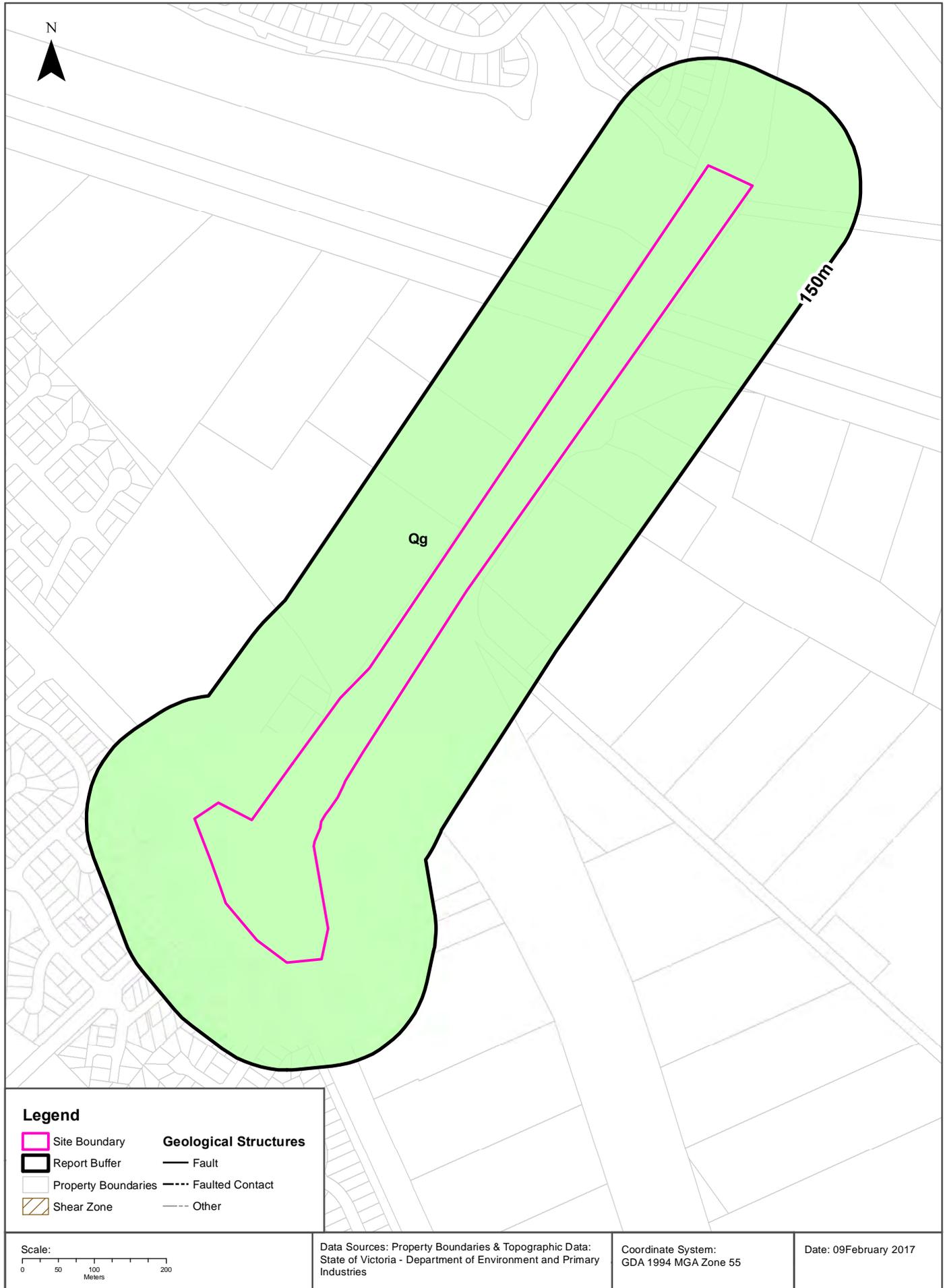
Boreholes from the Federation University Australia dataset, within the report buffer:

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

Boreholes FedUni Data Source: © Federation University Australia

Geology 1:250,000

OSAR Proposed Road Alignments - Site 26 (Section 9)



Geology

OSAR Proposed Road Alignments - Site 26 (Section 9)

Geological Units

What are the Geological Units onsite?

Symbol	Name	Description	Geological Age	Lithology	Dataset
Qg	coastal lagoon deposits (Qg): generic	Silt, clay: dark grey to black; variably consolidated	Holocene to Holocene	silt material (significant); clay lithology (significant)	1:250,000

What are the Geological Units within the report buffer?

Symbol	Name	Description	Geological Age	Lithology	Dataset
Qg	coastal lagoon deposits (Qg): generic	Silt, clay: dark grey to black; variably consolidated	Holocene to Holocene	silt material (significant); clay lithology (significant)	1:250,000

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Geology

OSAR Proposed Road Alignments - Site 26 (Section 9)

Geological Structures

What are the Geological Faults or Faulted Contacts onsite?

Map Id	Type	Name	Contact	Positional Accuracy	Dataset
No features					1:250,000

What are the Dykes, Marker Beds and Veins onsite?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No Data Coverage					

What are the Shear Zones onsite (1:250,000 scale)?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No features					1:250,000

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

Map Id	Type	Name	Contact	Positional Accuracy	Dataset
No features					1:250,000

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

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No Data Coverage					

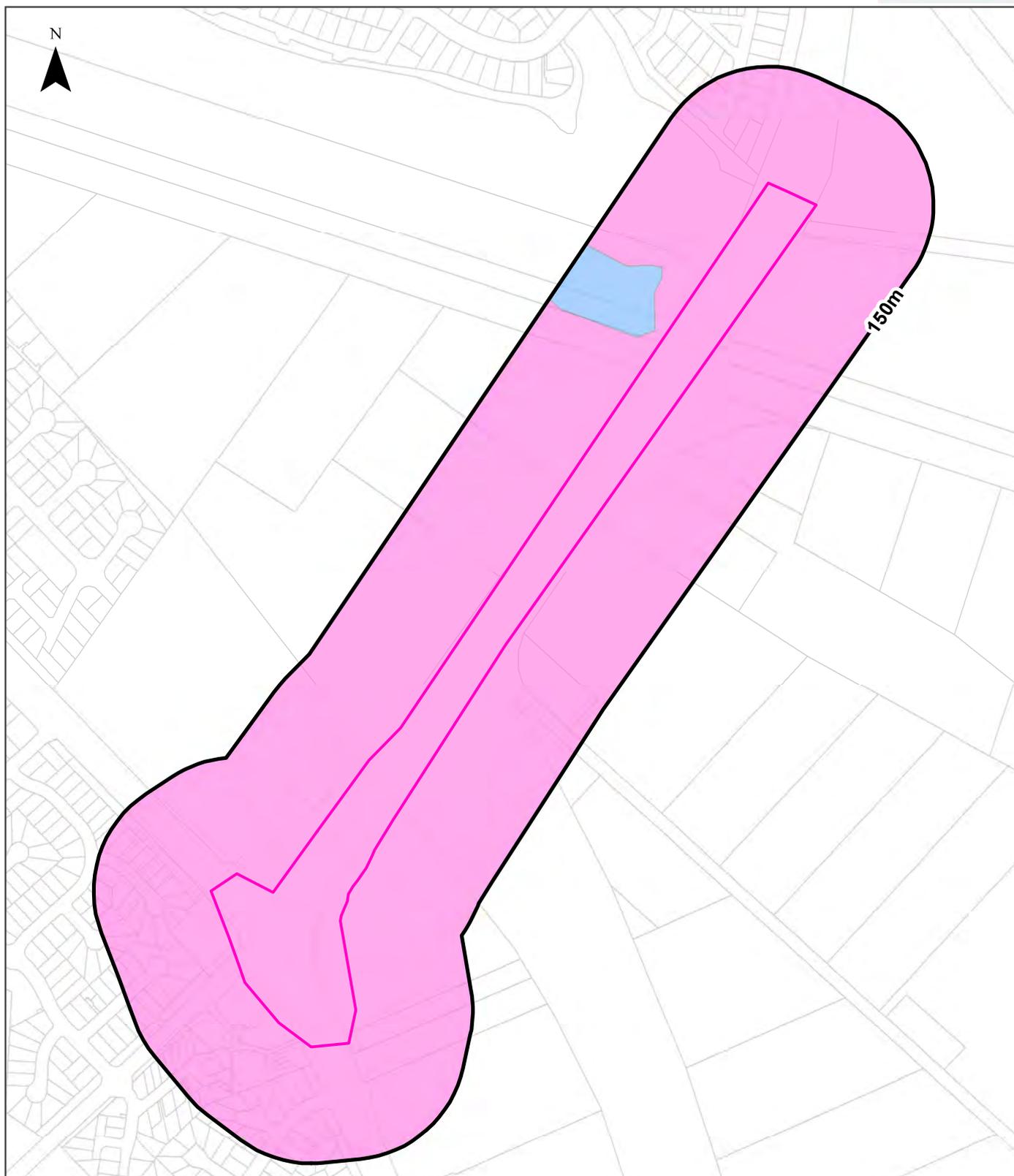
What are the Shear Zones within the report buffer (1:250,000 scale)?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No features					1:250,000

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

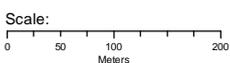
Coastal Acid Sulfate Soils

OSAR Proposed Road Alignments - Site 26 (Section 9)



Legend

- | | |
|---------------------|---------------------------------------|
| Site Boundary | Coastal Acid Sulfate Soil type |
| Report Buffer | Made land |
| Property Boundaries | Prospective |
| | Water |



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary
Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Coastal Acid Sulfate Soils

OSAR Proposed Road Alignments - Site 26 (Section 9)

Coastal Acid Sulfate Soils

What are the on-site Coastal Acid Sulfate Soil types?

Coastal Acid Sulfate Soil Types
Prospective

What are the Coastal Acid Sulfate Soil types within the report buffer?

Coastal Acid Sulfate Soil Types	Distance	Direction
Prospective	0m	Onsite
Water	16m	North West

Coastal Acid Sulfate Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Planning Zones

OSAR Proposed Road Alignments - Site 26 (Section 9)



Planning Zones

OSAR Proposed Road Alignments - Site 26 (Section 9)

Planning Zones

Planning zones within the report buffer:

Zone Code	Description	Distance	Direction
RDZ1	ROAD ZONE - CATEGORY 1	0m	Onsite
C2Z	COMMERCIAL 2 ZONE	0m	Onsite
GWZ	GREEN WEDGE ZONE	0m	Onsite
GRZ3	GENERAL RESIDENTIAL ZONE - SCHEDULE 3	0m	North West
PUZ7	PUBLIC USE ZONE - OTHER PUBLIC USE	0m	North
UFZ	URBAN FLOODWAY ZONE	0m	East
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	1m	North West
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	5m	North West
GRZ3	GENERAL RESIDENTIAL ZONE - SCHEDULE 3	17m	North
GRZ3	GENERAL RESIDENTIAL ZONE - SCHEDULE 3	23m	South

Planning Zone Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Planning Overlays

OSAR Proposed Road Alignments - Site 26 (Section 9)



Planning Overlays

OSAR Proposed Road Alignments - Site 26 (Section 9)

Planning Overlays

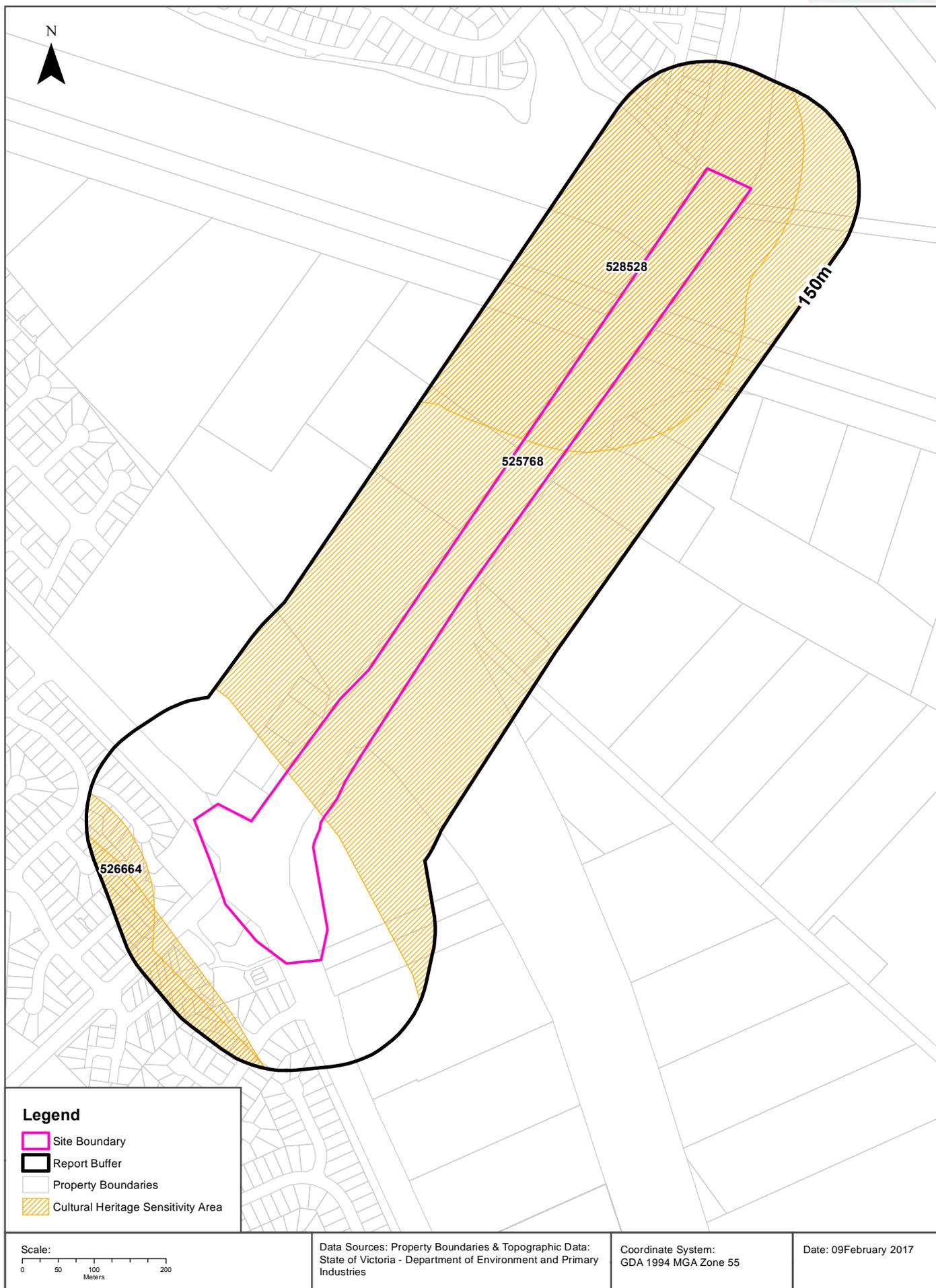
Planning overlays within the report buffer:

Zone Code	Description	Distance	Direction
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	0m	Onsite
ESO3	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 3	0m	Onsite
IPO3	INCORPORATED PLAN OVERLAY - SCHEDULE 3	0m	Onsite
PAO1	PUBLIC ACQUISITION OVERLAY 1	0m	North West
DDO6	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 6	0m	North
IPO2	INCORPORATED PLAN OVERLAY - SCHEDULE 2	0m	North
ESO3	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 3	77m	South West

Planning Overlay Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Cultural Heritage Sensitivity

OSAR Proposed Road Alignments - Site 26 (Section 9)



Cultural Heritage Sensitivity

OSAR Proposed Road Alignments - Site 26 (Section 9)

Cultural Heritage Sensitivity

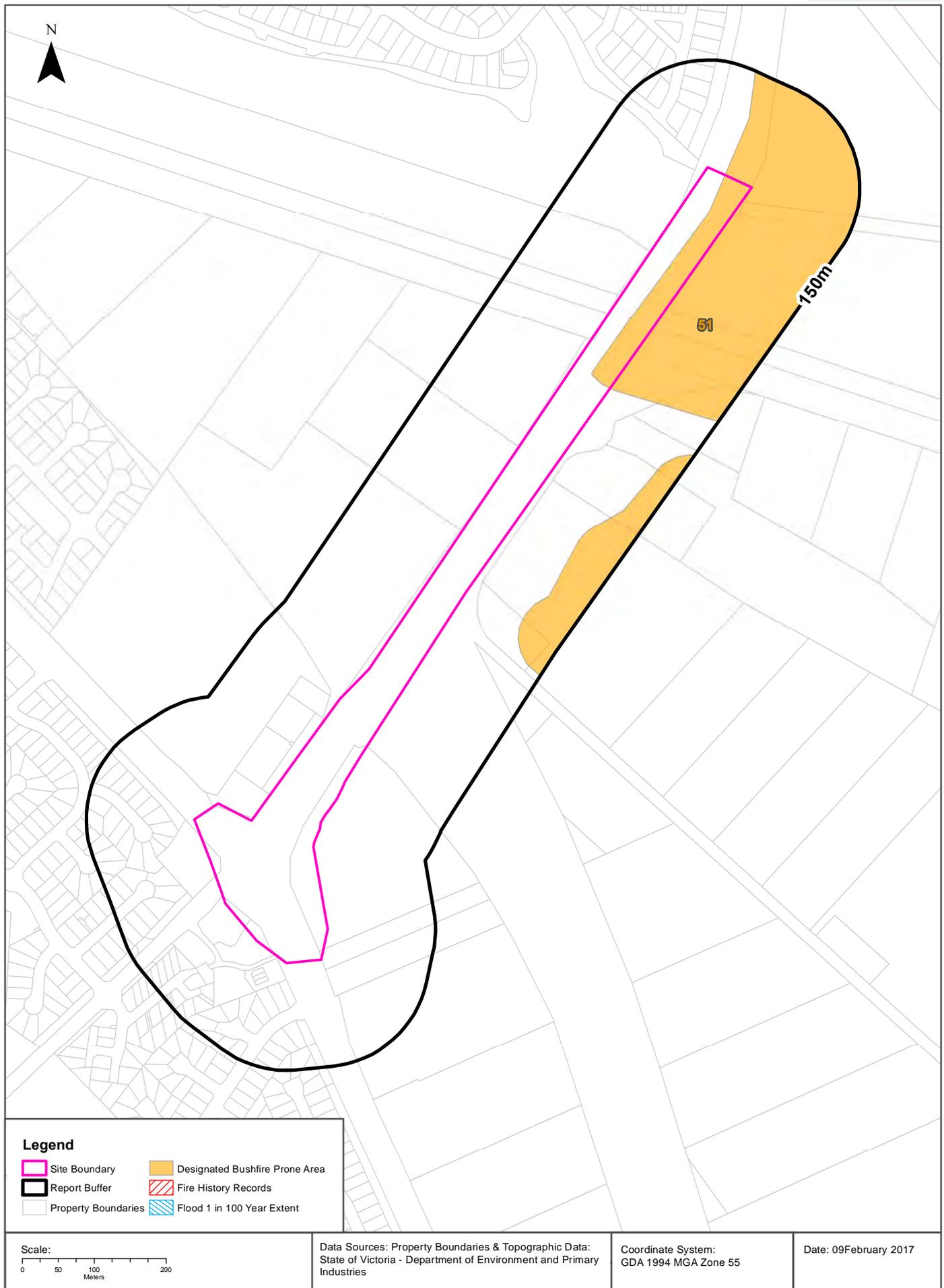
Areas of Cultural Heritage Sensitivity as specified in Division 3 of Part 2 in the Aboriginal Heritage Regulations 2007, within the report buffer:

Map Id	Culturally Sensitive	Distance	Direction
525768	YES	0m	Onsite
528528	YES	0m	Onsite
526664	YES	84m	South West

Cultural Heritage Sensitivity Data Custodian: State Government Victoria - Dept of Planning and Community Development
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Natural Hazards

OSAR Proposed Road Alignments - Site 26 (Section 9)



Natural Hazards

OSAR Proposed Road Alignments - Site 26 (Section 9)

Bushfire Prone Areas

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

Map ID	Feature	Plan No	LGA	Gazetted Date	Distance	Direction
51	Designated Bushfire Prone Area	LEGL./14-154	GREATER DANDENONG	07/04/2014	0m	Onsite

Bushfire Prone Area Data Custodian: State Government Victoria - Dept of Transport, Planning & Local Infrastructure
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Fire History

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

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

Fire History Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Flood - 1 in 100 year modelled flood extent

What 1 in 100 year flood extent features exist within the report buffer?

Feature	Source	Method	Scale	Modified Date	Distance	Direction
N/A	No records within buffer					

Flood Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Ecological Constraints - Native Vegetation 2005 & RAMSAR Wetlands

OSAR Proposed Road Alignments - Site 26 (Section 9)



Ecological Constraints

OSAR Proposed Road Alignments - Site 26 (Section 9)

Native Vegetation (Modelled 2005 Ecological Vegetation Classes)

What native vegetation exists within the report buffer?

Veg Code	EVC Name	EVCCode	Group	Subgroup	Bioregion	Conservation Status	Geographic Occurance	Distance
GipP0125	Plains Grassy Wetland	0125	Wetlands	Freshwater	Gippsland Plain	Endangered	Naturally Restricted	0m

Native Vegetation Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

RAMSAR Wetlands

What RAMSAR wetland areas exist within the report buffer?

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

RAMSAR Wetland Area Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

USE OF REPORT – APPLICABLE TERMS

The following terms apply to any person (End User) who is given the Report by the person who purchased the Report from Lotsearch Pty Ltd (ABN: 89 600 168 018) (Lotsearch) or who otherwise has access to the Report. The contract terms that apply between Lotsearch and the purchaser of the Report are specified in the order form pursuant to which the Report was ordered and the terms set out below are of no effect as between Lotsearch and the purchaser of the Report.

1. End User acknowledges and agrees that:
 - (a) the Report is compiled from or using content (**Third Party Content**) which is comprised of:
 - (i) content provided to Lotsearch by third party content suppliers with whom Lotsearch has contractual arrangements or content which is freely available (**Third Party Content Suppliers**);
 - (j) content which is derived from content described in paragraph (i);
 - (b) Lotsearch does not take any responsibility for or give any warranty in relation to the accuracy or completeness of any Third Party Content included in the Report;
 - (c) the Third Party Content Suppliers do not constitute an exhaustive set of all repositories or sources of information available in relation to the property which is the subject of the Report (**Property**);
 - (d) Lotsearch has not undertaken any physical inspection of the property;
 - (e) Lotsearch does not warrant that all land uses or features whether past or current are identified in the Report;
 - (f) the Report does not include any information relating to the actual state or condition of the Property;
 - (g) the Report should not be used or taken to indicate or exclude actual fitness or unfitness of a Property for any particular purpose;
 - (h) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
 - (i) the End User should undertake its own inspections of the Property to satisfy itself that there are no defects or failures.
2. The End User may not make the Report or any copies or extracts of the report or any part of it available to any other person. If End User wishes to provide the Report to any other person or make extracts or copies of the Report, it must contact the purchaser of the Report before doing so to ensure the proposed use is consistent with the contract terms between Lotsearch and the purchaser.
3. Neither Lotsearch (nor any of its officers, employees or agents) nor any of its Third Party Content Suppliers will have any liability to End User or any person to whom End User provides the Report and End User must not represent that Lotsearch or any of its Third Party Content Suppliers accepts liability to any such person or make any other representation to any such person on behalf of Lotsearch or any Third Party Content Supplier.
4. End User must not remove any copyright notices, trade marks, digital rights management information, other embedded information, disclaimers or limitations from the Report or authorise any person to do so.
5. End User acknowledges and agrees that Lotsearch and Third Party Content Suppliers retain ownership of all copyright, patent, design right (registered or unregistered), trade marks (registered or unregistered), database right or other data right, moral right or know how or any other intellectual property right in any Report or any other item, information or data included in or provided as part of a Report.
6. To the extent permitted by law and subject to paragraph 7, all implied terms, representations and warranties whether statutory or otherwise relating to the subject matter of these terms other than as expressly set out in these terms are excluded.
7. Subject to paragraph 8, Lotsearch excludes liability to End User for loss or damage of any kind, however caused, due to Lotsearch's negligence, breach of contract, breach of any law, in equity, under indemnities or otherwise, arising out of all acts, omissions and events whenever occurring.
8. Lotsearch acknowledges that if, under applicable State, Territory or Commonwealth law, End User is a consumer certain rights may be conferred on End User which cannot be excluded, restricted or modified. If so, and if that law applies to Lotsearch, then, Lotsearch's liability is limited to the greater of an amount equal to the cost of resupplying the Report and the maximum extent permitted under applicable laws.
9. Subject to paragraph 7, neither Lotsearch nor the End User is liable to the other for any indirect, incidental, consequential, special or exemplary damages arising out of or in relation to these terms.
10. These terms are subject to New South Wales law.

Environmental Risk and Planning Report

Proposed Road Alignments - Mordialloc Bypass (Section 10)

Report Buffer: 150m

Report Date: 09 Feb 2017 15:25:50

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.

Table of Contents

Location Confidences.....	2
Dataset Listings	3
Site Location Aerial	5
Topographic Features	6
Elevation Contours.....	7
EPA Records.....	8
Waste Management Facilities	11
Historical Business Activities.....	12
Historical Aerial Imagery & Maps	14
Features of Interest	21
Hydrogeology & Groundwater.....	23
Groundwater Boreholes	24
Geology.....	29
Coastal Acid Sulfate Soils	32
Planning Zones	34
Planning Overlays	36
Cultural Heritage Sensitivity	38
Natural Hazards	40
Ecological Constraints.....	42
Terms & Conditions.....	44

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 "LocConf". These codes lookup to the following location confidences:

LC Code	Location Confidence
1	Georeferenced to the site location / premise or part of site
2	Georeferenced with the confidence of the general/approximate area
3	Georeferenced to the road or rail
4	Georeferenced to the road intersection
5	Feature is a buffered point
6	Land adjacent to Georeferenced Site
7	Georeferenced to a network of features

Dataset Listing

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

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features in Buffer
Topographic and Cadastre data	State Government Victoria - Department of Environment, Land, Water & Planning	06/02/2017	06/02/2017	Quarterly	-	-	-
Current Priority Sites	Environment Protection Authority (Vic)	06/02/2017	31/12/2016	Monthly	0	0	0
Former Priority Sites & other Pollution Notices	Environment Protection Authority (Vic)	06/02/2017	05/01/2017	Monthly	0	0	0
EPA Environmental Audit Reports	Environment Protection Authority (Vic)	06/02/2017	24/11/2016	Monthly	0	0	0
Groundwater Zones with Restricted Uses	Environment Protection Authority (Vic)	06/02/2017	27/01/2017	Monthly	0	0	0
Licensed Activities	Environment Protection Authority (Vic)	06/02/2017	29/01/2017	Monthly	0	0	0
Former Licensed Activities	Environment Protection Authority (Vic)	06/02/2017	29/01/2017	Monthly	0	0	0
Works Approvals	Environment Protection Authority (Vic)	06/02/2017	06/02/2017	Monthly	0	0	0
National Waste Management Site Database	Geoscience Australia	06/02/2017	15/11/2012	Quarterly	0	0	0
Statewide Waste and Resource Recovery Infrastructure Plan Facilities	State Government Victoria - Department of Sustainability	27/11/2014	31/12/2012	None planned	0	0	0
EPA Prescribed Industrial Waste	Environment Protection Authority (Vic)	04/01/2017	04/01/2017	Quarterly	0	0	0
UBD Business to Business Directory 1991	Hardie Grant			Not required	0	0	0
UBD Business to Business Directory 1991 - Garages & Service Stations	Hardie Grant			Not required	0	0	0
UBD Business Directory 1980	Hardie Grant			Not required	0	0	0
UBD Business Directory 1980 Drycleaners, Motor Garages & Service Stations	Hardie Grant			Not required	0	0	0
Features of Interest	State Government Victoria - Department of Environment, Land, Water & Planning	03/02/2017	27/01/2017	Quarterly	0	3	3
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1	1	1
Groundwater Salinity	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Unknown	1	-	-
Depth to Watertable	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Unknown	1	-	-
Surface Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Unknown	1	-	-
Basement Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Unknown	1	-	-
Groundwater Boreholes WMIS	State Government Victoria - Department of Environment, Land, Water & Planning	29/04/2016	28/04/2016	Annually	1	3	38
Groundwater Boreholes Earth Resources Database	The State of Victoria, Department of Economic Development, Jobs, Transport and Resources	29/04/2016	17/02/2010	As required	2	3	11
Groundwater Boreholes Fed Uni	Federation University Australia	29/04/2016	07/01/2014	As required	0	0	0
Geological Units 1:250,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	1	-	2
Geological Structures 1:250,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	0	-	0
Shear zones 250k	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	0	-	0
Coastal Acid Sulfate Soils	The State of Victoria, Department of Economic Development, Jobs, Transport and Resources	15/07/2016	30/03/2011	None planned	1	1	1
Planning Scheme Zones	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	1	5	5

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features in Buffer
Planning Scheme Overlay	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	0	3	3
Cultural Heritage Sensitivity	State Government Victoria - Department of Planning and Community Development	03/02/2017	27/01/2017	Quarterly	1	1	1
Bushfire Prone Area	State Government Victoria - Department of Transport, Planning and Local Infrastructure	27/01/2017	27/01/2017	Quarterly	1	1	1
Fire History	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	0	0	0
Flood - 1 in 100 Year Modelled Flood Extent	State Government Victoria - Department of Environment, Land, Water & Planning	27/01/2017	27/01/2017	Quarterly	0	0	0
Native Vegetation (Modelled 2005 Ecological Vegetation Classes)	State Government Victoria - Department of Environment, Land, Water & Planning	13/01/2015	31/12/2005	None planned	1	1	1
RAMSAR Wetlands	State Government Victoria - Department of Environment, Land, Water & Planning	13/01/2015	24/06/2013	None planned	0	0	0

Aerial Imagery 2016

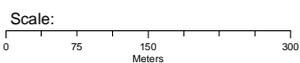
OSAR Proposed Road Alignments - Site 26 (Section 10)



Google Earth
17/02/2017 10:58:38 AM

Legend

- Site Boundary
- Buffer 150m



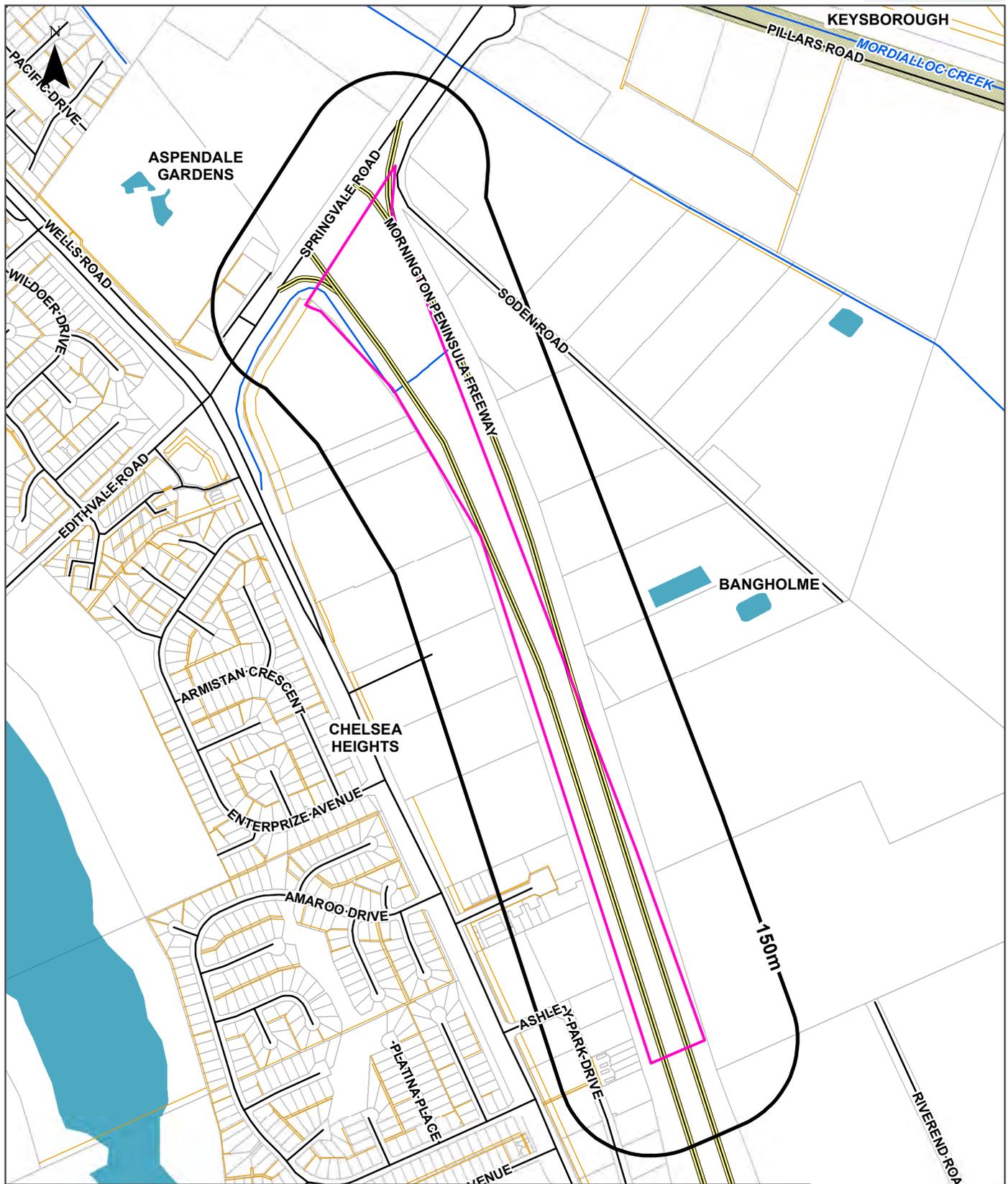
Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February, 2017

Topographic Data

OSAR Proposed Road Alignments - Site 26 (Section 10)



Legend				
Site Boundary	Water Area	Major Road	Railway	Watercourse
Report Buffer	Crown or Commonwealth Land	Road	Light Rail	Easement
Property Boundaries	Statewide Forest	Track/Pathway	Rail - Underground/Tunnel	



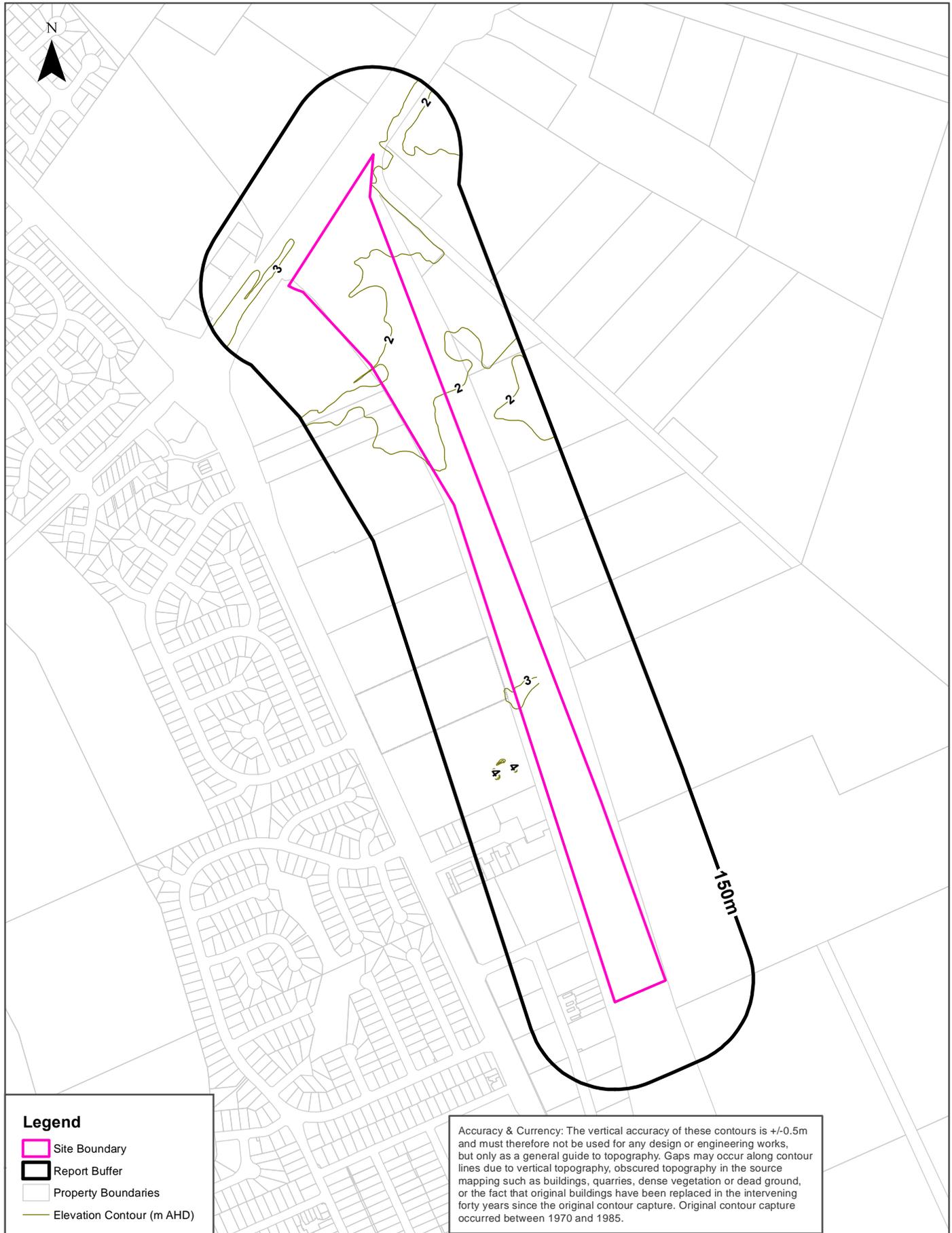
Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Elevation Contours (m AHD)

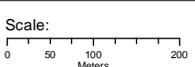
OSAR Proposed Road Alignments - Site 26 (Section 10)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Elevation Contour (m AHD)

Accuracy & Currency: The vertical accuracy of these contours is +/-0.5m and must therefore not be used for any design or engineering works, but only as a general guide to topography. Gaps may occur along contour lines due to vertical topography, obscured topography in the source mapping such as buildings, quarries, dense vegetation or dead ground, or the fact that original buildings have been replaced in the intervening forty years since the original contour capture. Original contour capture occurred between 1970 and 1985.



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 10)

Current EPA Priority Sites Register

What sites on the current EPA priority sites register exist within the report buffer?

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

Priority Sites Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Former EPA Priority Sites & Other Pollution Notices

What sites within the report buffer 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.

Notice No	Notice Type	Company	Address	Suburb	Status	Issue	Date Issued	Loc Conf	Dist	Dir
N/A	No records in buffer									

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

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 10)

EPA Environmental Audits

What EPA environmental audit records exist within the report 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.

CARMS No	Transaction No	Site	Address	Suburb	Date Complete	Loc Conf	Distance	Direction
N/A	No records in buffer							

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

EPA Groundwater Zones with Restricted Uses

What EPA GQRUZ exist within the report buffer?

Note. Please click on CARMS No. to activate a hyperlink to online documentation.

CARMS No	EPA Id	Site History	Site Address	Restricted Uses	Loc Conf	Distance	Direction
N/A	No records in buffer						

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

EPA Records

OSAR Proposed Road Alignments - Site 26 (Section 10)

EPA Licensed Activities

What EPA licensed activities exist within the report 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									

Licensed Activity Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Former EPA Licensed Activities

What former EPA licensed activities exist within the report buffer?

Licence No	Organisation	Premise Address	Suburb	Activities	Loc Conf	Dist (m)	Direction
N/A	No records in buffer						

Former Licensed Activity Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

EPA Works Approvals

What EPA works approvals exist within the report buffer?

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

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

Waste Management Facilities

OSAR Proposed Road Alignments - Site 26 (Section 10)

National Waste Management Site Database

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

Site Id	Owner	Name	Address	Suburb	Postcode	Landfill	Reprocess	Transfer	Loc Conf	Dist (m)	Direction
N/A	No records in buffer										

Waste Management Facilities Data Source: Australian Government Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Statewide Waste and Resource Recovery Infrastructure Plan Facilities

Statewide Waste and Resource Recovery Infrastructure Plan Facilities within the report 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

EPA Prescribed Industrial Waste

EPA Prescribed industrial waste sites within the report buffer:

Map Id	Company Name	Address	Suburb	Treatment /Disposal	Transport	Accredited Agent	EPA List Status	Loc Conf	Dist (m)	Direct
N/A	No records in buffer									

Prescribed Industrial Waste Data Custodian: State Government Victoria - Environmental Protection Authority (EPA)

Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 10)

1991 Business to Business Directory Records

1991 UBD Business Directory Records within 150m of the site:

Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1991 Business to Business Directory Garages & Service Stations

1991 UBD Business Directory Garages & Service Stations within 1km of the site:

Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

OSAR Proposed Road Alignments - Site 26 (Section 10)

1980 Business Directory Records

1980 UBD Business Directory Records within 150m of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1980 Business Directory Drycleaners, Garages & Service Stations

Drycleaners, Garages & Service Stations from the 1980 UBD Business Directory within 1km of the site:

Activity	Premise	Ref No.	Location Confidence	Distance	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Aerial Imagery 2009

OSAR Proposed Road Alignments - Site 26 (Section 10)



Google Earth
© 2016 Google Inc. All rights reserved.

Legend

-  Site Boundary
-  Buffer 150m



Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February, 2017

Aerial Imagery 2005

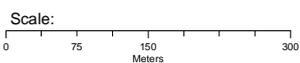
OSAR Proposed Road Alignments - Site 26 (Section 10)



Google Earth
© 2016 Google Inc.

Legend

- Site Boundary
- Buffer 150m



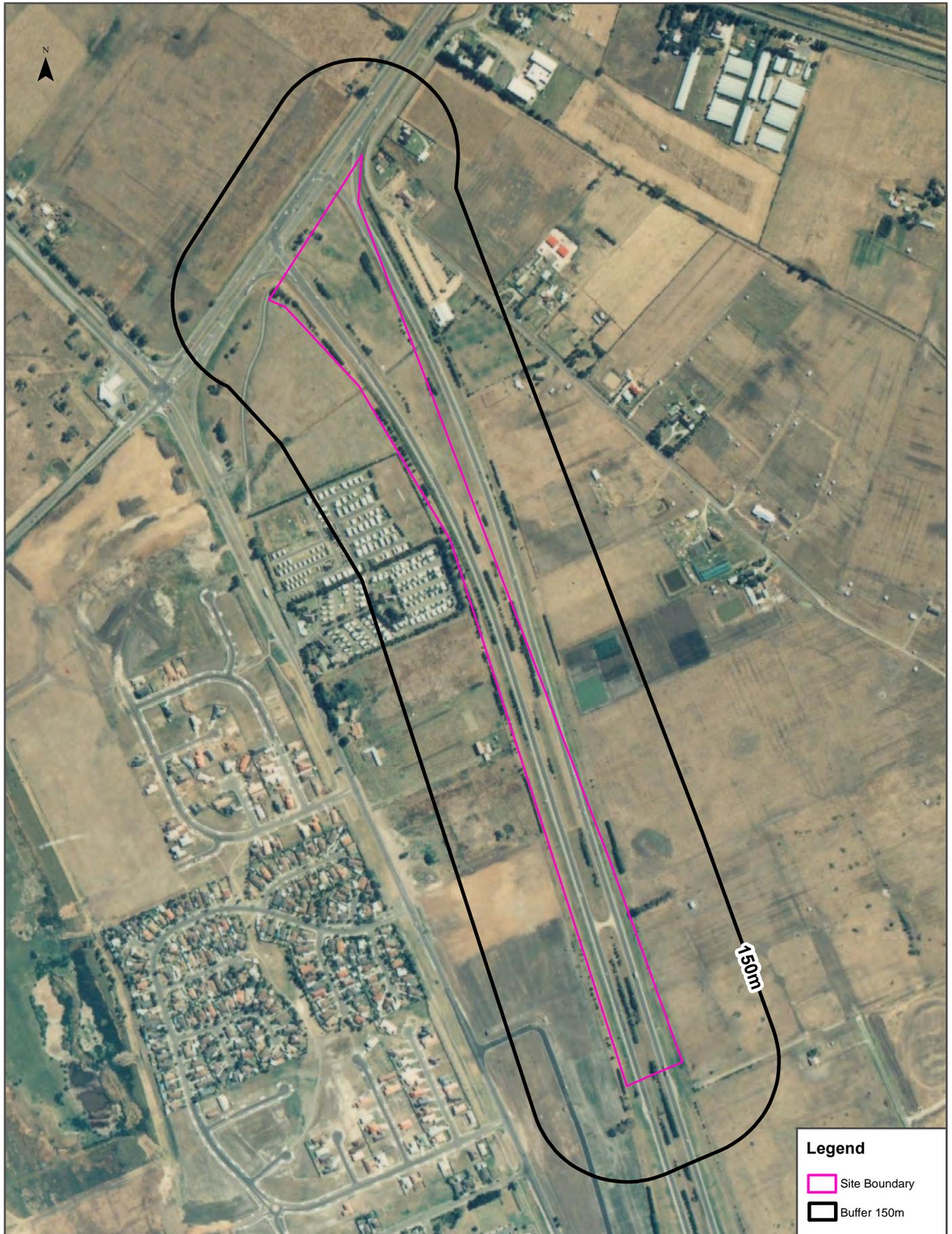
Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February, 2017

Aerial Imagery 1990

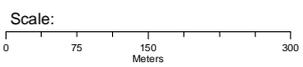
OSAR Proposed Road Alignments - Site 26 (Section 10)



150m

Legend

- Site Boundary
- Buffer 150m



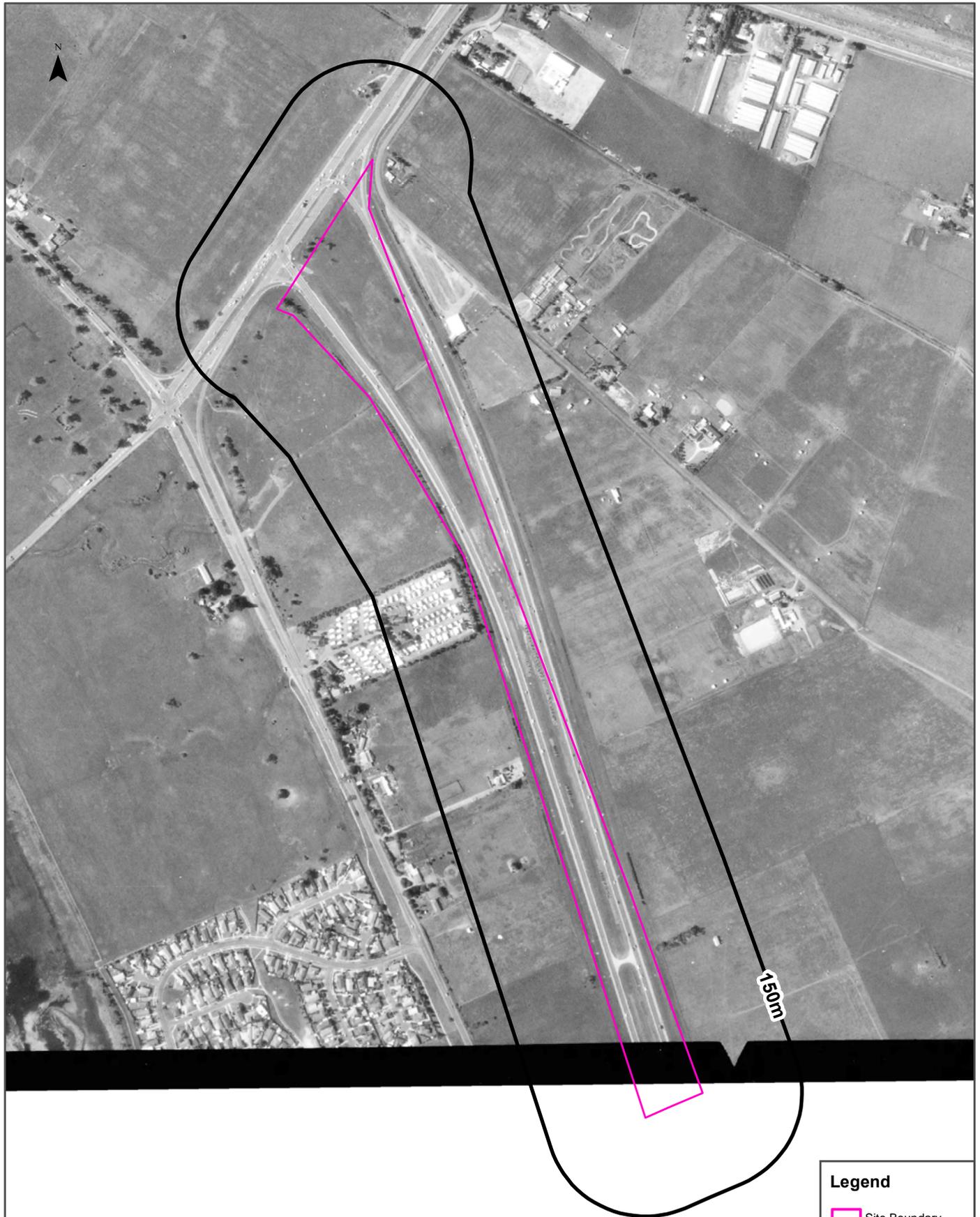
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 09February, 2017

Aerial Imagery 1985

OSAR Proposed Road Alignments - Site 26 (Section 10)



Legend	
	Site Boundary
	Buffer 150m



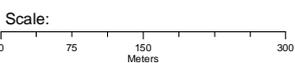
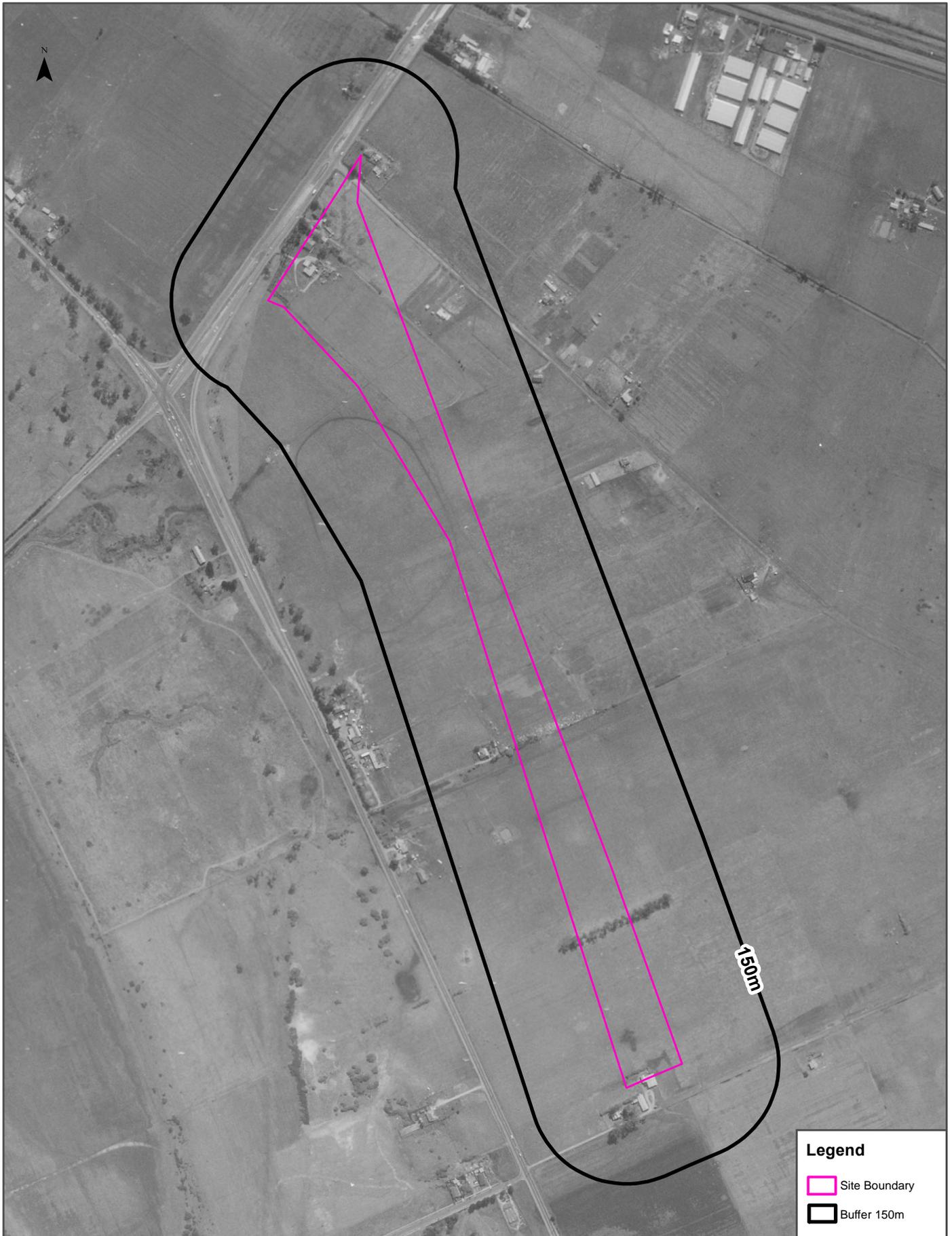
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 10 February 2017

Aerial Imagery 1974

OSAR Proposed Road Alignments - Site 26 (Section 10)



Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 09February, 2017

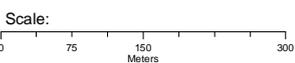
Aerial Imagery 1962

OSAR Proposed Road Alignments - Site 26 (Section 10)



Legend

- Site Boundary
- Buffer 150m



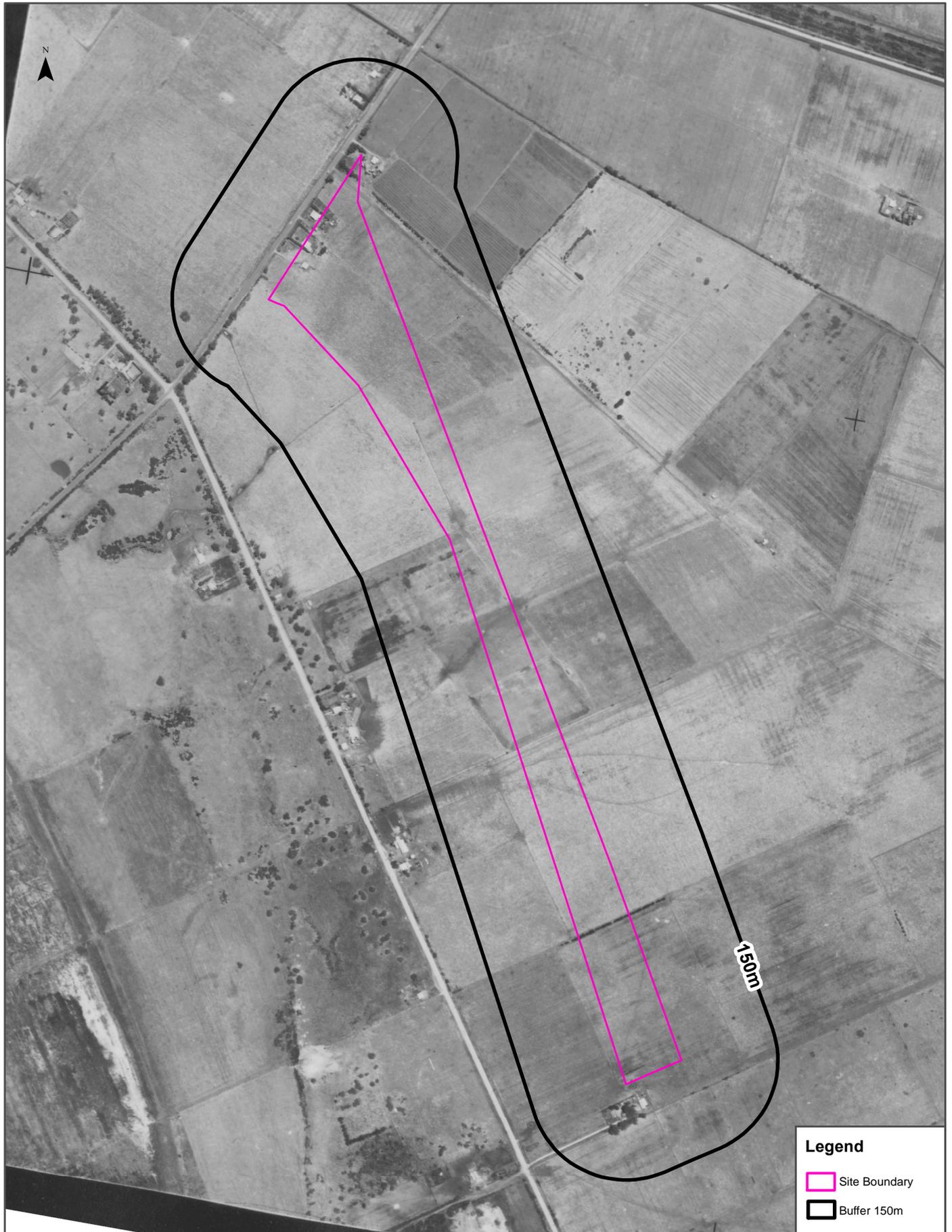
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 09February, 2017

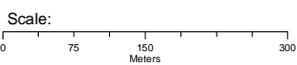
Aerial Imagery 1951

OSAR Proposed Road Alignments - Site 26 (Section 10)



Legend

-  Site Boundary
-  Buffer 150m



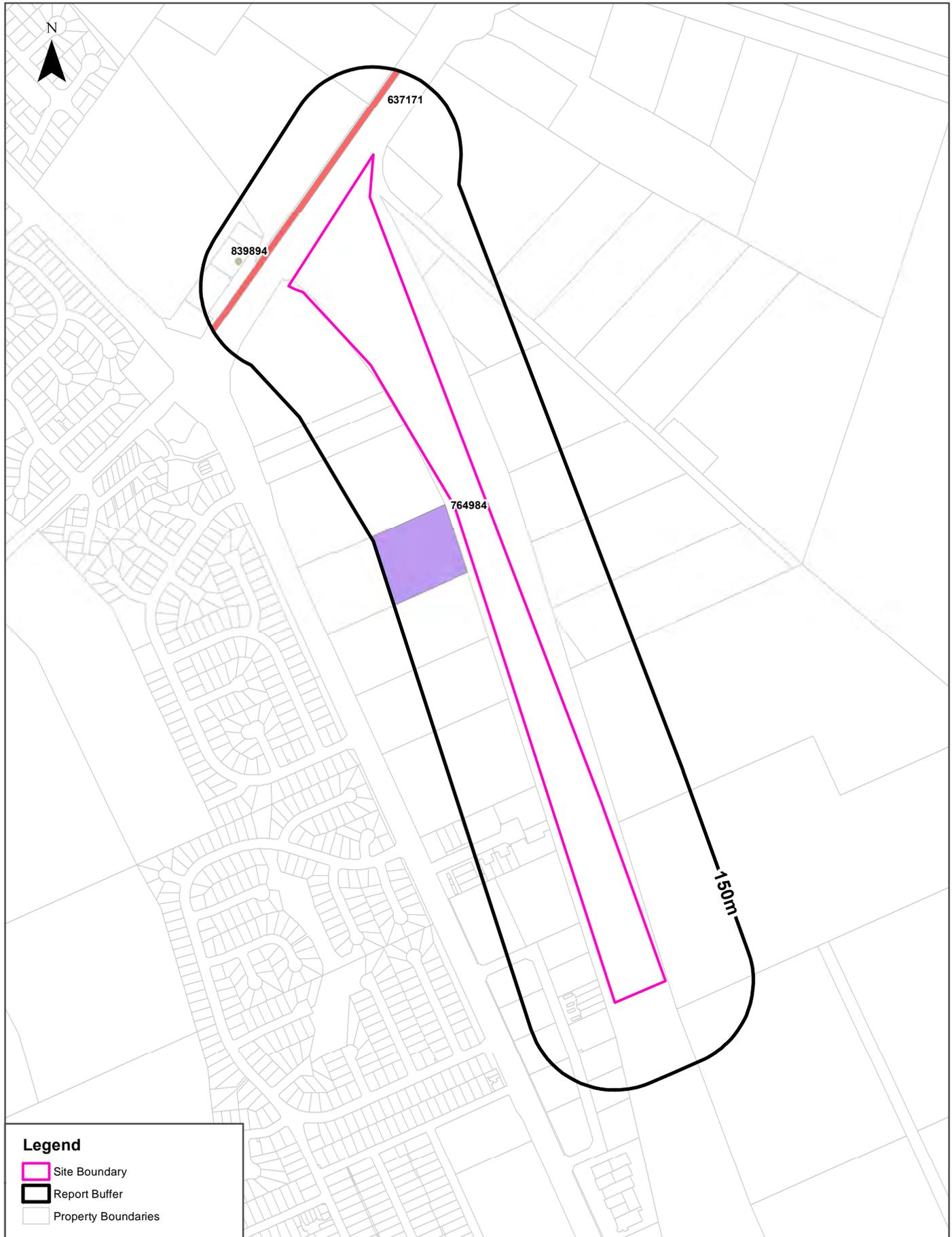
Data Sources: Historical Aerials: © Department of Environment & Primary Industries (Vicmap Topographic Mapping Program)

Coordinate System: GDA 1994 MGA Zone 55

Date: 09February, 2017

Features of Interest

OSAR Proposed Road Alignments - Site 26 (Section 10)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Scale:

0 50 100 200
Meters

Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary
Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09 February 2017

Features of Interest

OSAR Proposed Road Alignments - Site 26 (Section 10)

Features of Interest

Features of Interest within 1km of the site:

Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
764984	community space	caravan park	South East Holiday Village	12m	West
637171	pipeline	gas pipeline	Dandenong - Edithvale	45m	North East
839894	care facility	child care	Goodstart Early Learning Aspendale Gardens	91m	North West

Features of Interest Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

OSAR Proposed Road Alignments - Site 26 (Section 10)

Hydrogeology

Description of aquifers within report buffer:

Description	Distance	Direction
Porous, extensive highly productive aquifers	0m	Onsite

Hydrogeology Map of Australia: Commonwealth of Australia (Geoscience Australia)
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Salinity

On-site Groundwater Salinity:

Groundwater Salinity	Percent Of Site Area
3,500 - 7,000 mg/l	100

Depth to Watertable

On-site Depth to Watertable:

Depth to Watertable	Percent Of Site Area
Less than 5 metres	100

Surface Elevation

Approximate on-site Surface Elevation:

Surface Elevation
2 AHDm to 3 AHDm

Basement Elevation

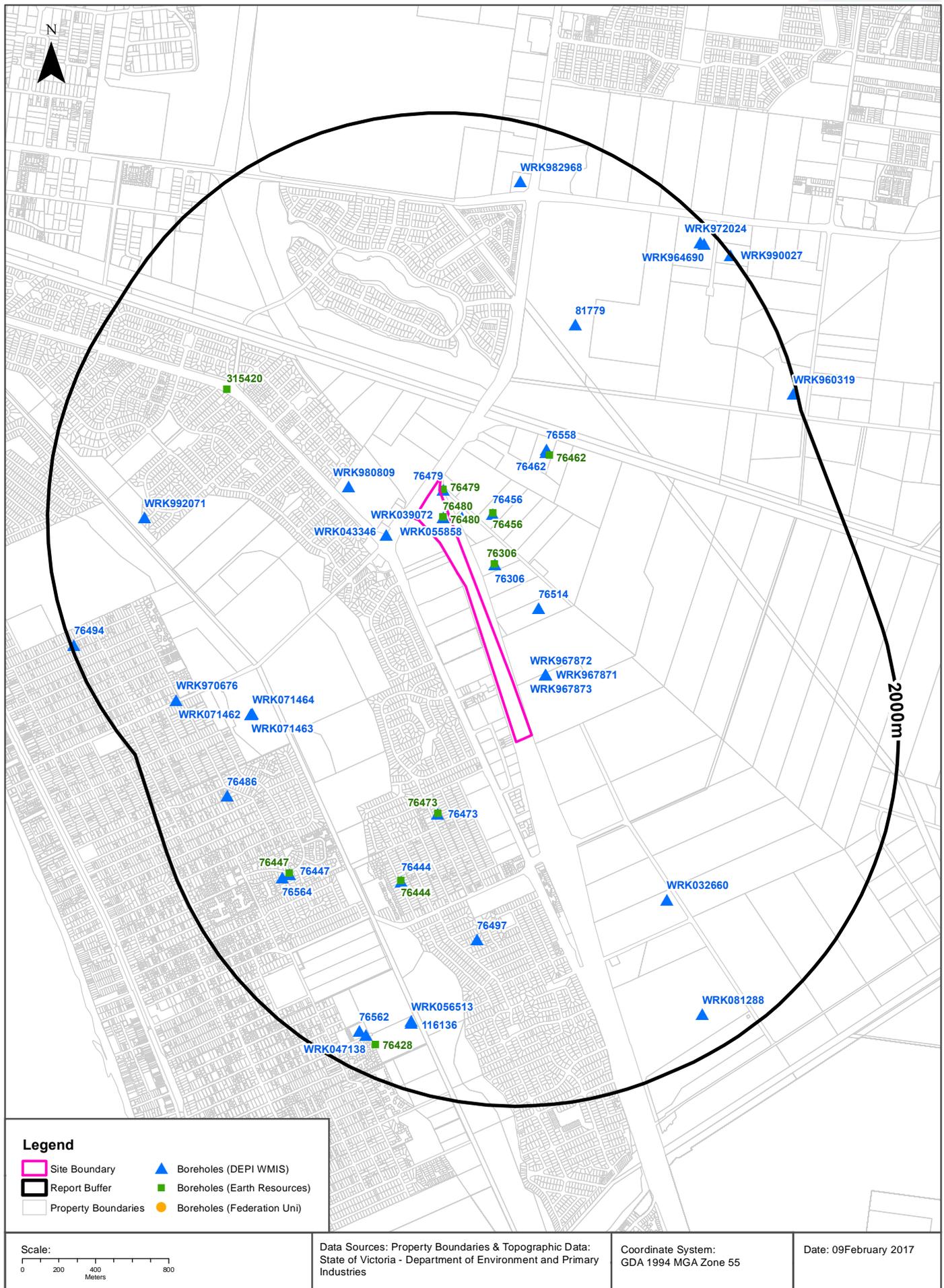
Approximate on-site Basement Elevation:

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
-64 AHDm to -52 AHDm

Groundwater Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 10)



Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 10)

Boreholes (DEPI WMIS)

Boreholes from the Department of Environment and Primary Industries' Water Measurement Information System, within the report buffer:

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK039072	Domestic, Irrigation, Stock	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-18.00m SANDY CLAY 18.00m-22.00m SAND (MEDIUM) 22.00m-24.38m CLAY (IRONSTONE BANDS)	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-21.34m INNER LINING - SCREEN = Pvc 21.34m-24.38m INNER LINING - CASING = Pvc		18.29m-21.34m Sand	1986-01-09	0	Onsite
76479	Domestic	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-12.00m SANDY CLAY 12.00m-19.00m SAND (MEDIUM) 19.00m-24.38m CLAY IRONSTONE BANDS	0.00m-12.19m INNER LINING - CASING = Pvc Class 9 12.19m-18.29m INNER LINING - SCREEN = Pvc Class 9 18.29m-24.38m INNER LINING - CASING = Pvc Class 9		12.19m-18.29m Sand	1986-01-11	20	North
WRK055858	Irrigation						61	North
76306	Domestic	0.00m-3.00m BLACK CLAY 3.00m-11.00m YELLOW CLAY 11.00m-18.00m SANDY CLAY 18.00m-24.38m SAND (MEDIUM)	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-24.38m INNER LINING - SCREEN = Pvc		18.29m-24.38m Sand	1986-01-13	136	North East
WRK043346							175	North West
WRK967873	Groundwater Investigation	0.00m-1.20m CLAY 1.20m-4.20m SILTY SANDY CLAY, BLACK 4.20m-5.20m SANDY CLAY, DARK BROWN 5.20m-6.20m SILTY CLAY	0.00m-2.60m INNER LINING - CASING = Pvc Class 18 2.60m-6.20m INNER LINING - SLOT = Pvc Class 18 0.00m-0.50m OUTER LINING - GRAVEL = Cement 0.50m-1.20m OUTER LINING - GRAVEL = Seal 1.20m-2.10m OUTER LINING - GRAVEL = Bentonite 2.10m-6.20m OUTER LINING - GRAVEL = Gravel			2004-12-10	181	South East
WRK967872	Groundwater Investigation	0.00m-0.20m ORGANIC MATTER 0.20m-0.50m SAND - BROWN 0.50m-9.00m SANDY CLAY, GREY	0.00m-4.50m INNER LINING - CASING = Pvc Class 18 4.50m-9.00m INNER LINING - SLOT = Pvc Class 18 0.00m-0.50m OUTER LINING - GRAVEL = Cement 0.50m-4.00m OUTER LINING - GRAVEL = Seal 4.00m-5.00m OUTER LINING - GRAVEL = Bentonite 5.00m-9.00m OUTER LINING - GRAVEL = Gravel			2004-11-26	181	South East
WRK967871	Groundwater Investigation	0.00m-0.20m ORGANIC MATTER 0.20m-0.40m CLAYEY SAND 0.40m-7.50m SANDY CLAY, GREY	0.00m-4.50m INNER LINING - CASING = Pvc Class 18 4.50m-7.50m INNER LINING - SLOT = Pvc Class 18 0.00m-0.50m OUTER LINING - GRAVEL = Cement 0.50m-3.50m OUTER LINING - GRAVEL = Seal 3.50m-4.00m OUTER LINING - GRAVEL = Bentonite 4.00m-7.50m OUTER LINING - GRAVEL = Gravel			2004-11-26	181	South East
76456	Domestic, Stock	0.00m-3.00m BLACK CLAY 3.00m-9.00m YELLOW CLAY 9.00m-12.00m SANDY CLAY 12.00m-18.00m SAND (MEDIUM) 18.00m-22.25m CLAY WITH IRONSTONE BANDS	0.00m-12.19m INNER LINING - CASING = Pvc 12.19m-18.29m INNER LINING - SCREEN = Pvc 18.29m-22.25m INNER LINING - CASING = Pvc		12.19m-18.29m Sand	1983-11-23	226	North
76514	Domestic	0.00m-3.00m STILL BLACK CLAY 3.00m-6.00m YELLOW BROWN SANDY CLAY 6.00m-9.50m YELLOW BROWN LOOSE SAND 9.50m-14.00m YELLOW BROWN SANDY CLAY 14.00m-20.00m YELLOW BROWN LOOSE SAND	0.00m-12.50m INNER LINING - CASING = Not Known 12.50m-18.30m INNER LINING - SCREEN = Not Known 40.00m-0.00m OUTER LINING - GRAVEL = Not Known		12.50m-18.30m Sand	1990-02-27	275	East
WRK980809							396	North West

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
76473	Domestic	0.00m-0.91m BLACK TOP SOIL 0.91m-3.00m YELLOW FINE SAND 3.00m-6.10m COARSE SAND CLEAN	0.00m-5.44m INNER LINING - CASING = Not Known 5.44m-6.10m INNER LINING - SCREEN = Not Known		5.44m-6.10m Sand	1983-08-07	580	South
76462	Agro Industries, Domestic, Stock	0.00m-2.44m BLACK TOPSOIL 2.44m-3.00m GREY CLAY 3.00m-12.19m RED CLAY 12.19m-18.29m GREY SANDY CLAY 18.29m-21.34m COARSE SAND	0.00m-18.29m INNER LINING - CASING = Pvc 18.29m-21.34m INNER LINING - SCREEN = Pvc		18.29m-21.34m Sand	1982-12-27	591	North East
76558	Not Known					1988-01-01	597	North East
76444	Domestic	0.00m-0.61m BLACK LOAM SAND TOP SOIL 0.61m-2.40m BLACK GREY SAND 2.40m-3.61m GREY COARSE SAND	0.00m-2.74m INNER LINING - CASING = Pvc 2.74m-3.61m INNER LINING - SCREEN = Pvc		2.74m-3.61m Sand	1983-11-09	987	South
76497	Domestic	0.00m-3.00m SAND	0.00m-2.20m INNER LINING - CASING = Galvanised Iron 2.20m-3.00m INNER LINING - SCREEN = Galvanised Iron		2.20m-3.00m Sand	1984-12-31	1104	South
81779	Not Known	0.00m-0.70m SANDY LOAM 0.70m-3.00m GREY CLAYEY SAND 3.00m-10.00m ORANGE SANDS 10.00m-14.00m GREY SANDS 14.00m-17.50m BLACK SANDS	0.00m-10.50m INNER LINING - CASING = Pvc 10.50m-16.50m INNER LINING - SCREEN = Pvc 16.50m-17.50m INNER LINING - CASING = Pvc 8.50m-17.50m OUTER LINING - GRAVEL = Not Known		10.50m-16.50m Sand	1988-12-08	1115	North
WRK032660	Irrigation	0.00m-0.30m TOPSOIL 0.30m-1.80m DARK GREY CLAY 1.80m-3.50m YELLOW CLAY 3.50m-19.00m YELLOW & GREY CLAY 19.00m-22.00m BLACK SILT 22.00m-25.60m DECOMPOSED BASALT 25.60m-51.00m COROL SHELL & LAYERS OF SANDSTONE 51.00m-56.00m BASALT & HONEYCOMB	-0.50m-26.00m INNER LINING - CASING = Pvc 26.00m-51.00m INNER LINING - CASING = Pvc 51.00m-56.00m INNER LINING - SCREEN = Pvc			1998-07-08	1164	South East
WRK071464	Observation					2012-10-11	1322	South West
WRK071463	Observation					2012-10-11	1327	South West
WRK071462	Observation					2012-10-11	1328	South West
WRK071461	Observation	0.00m-0.60m SOIL 0.60m-7.30m SAND	0.00m-3.00m INNER LINING - CASING = Pvc 3.00m-7.50m INNER LINING - SCREEN = Pvc 0.00m-0.10m OUTER LINING - GRAVEL = Cement 0.10m-3.00m OUTER LINING - GRAVEL = Bentonite 3.00m-7.50m OUTER LINING - GRAVEL = Gravel		3.00m-7.50m Sand	2012-10-11	1328	South West
76447	Domestic	0.00m-1.83m BLACK CLAY BUILT UP GROWN 1.83m-2.44m COARSE WHITE SAND TO BLACK MARL	0.00m-1.83m INNER LINING - CASING = Not Known 1.83m-2.44m INNER LINING - SCREEN = Not Known		1.83m-2.44m Sand	1983-09-14	1432	South West
WRK992071							1469	West
76564	Domestic	0.00m-3.00m NO DETAILS AVAILABLE	0.00m-3.00m INNER LINING - CASING = Pvc			1983-03-17	1477	South West
76486	Domestic	0.00m-5.00m PROBABLY SAND	0.00m-5.00m INNER LINING - CASING = Pvc			1983-12-31	1590	South West
WRK056513	Observation	0.00m-0.30m topsoil 0.30m-6.00m sand	0.00m-3.00m INNER LINING - CASING = Pvc 3.00m-6.00m INNER LINING - SCREEN = Pvc 0.00m-1.00m OUTER LINING - GRAVEL = Cement 1.00m-2.50m OUTER LINING - GRAVEL = Bentonite 2.50m-6.00m OUTER LINING - GRAVEL = Gravel		0.00m-3.00m Sand 3.00m-6.00m Sand	2010-04-29	1632	South
WRK970676							1637	West
116136	Groundwater Investigation	0.00m-1.70m FILL 1.70m-7.00m SAND 7.00m-8.00m SILTY SAND	0.00m-2.50m INNER LINING - CASING = Pvc 2.50m-8.00m INNER LINING - SCREEN = Pvc 2.30m-3.00m OUTER LINING - GRAVEL = Bentonite 3.00m-8.00m OUTER LINING - GRAVEL = Gravel			1991-02-22	1641	South
WRK982968							1681	North
WRK081288	Observation	0.00m-0.30m Top soil 0.30m-20.50m SANDS& clay 20.50m-47.00m MARL& coal 47.00m-50.00m volcanic 50.00m-63.00m BASALT	0.00m-51.00m INNER LINING - CASING = Pvc 0.00m-51.00m OUTER LINING - GRAVEL = Cement			2015-10-12	1790	South East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
76562	Domestic					1988-01-01	1800	South
WRK047138	Irrigation	0.00m-1.00m FILL/TOP SOIL 1.00m-29.00m BRIGHTON GROUP - SANDY CLAY AND CLAYEY SAND 29.00m-35.00m COURSE SAND 35.00m-36.00m SANDY CLAY	0.50m-30.00m INNER LINING - CASING = Pvc 30.00m-33.00m INNER LINING - SCREEN = Stainless Steel 33.00m-36.00m INNER LINING - CASING = Pvc 0.00m-26.00m OUTER LINING - GRAVEL = Cement 26.00m-36.00m OUTER LINING - GRAVEL = Gravel			2008-11-24	1803	South
WRK972024							1915	North East
WRK964690							1926	North East
WRK960319	Domestic & Stock	0.00m-0.30m TOPSOIL 0.30m-1.80m GREY CLAY 1.80m-3.50m ORANGE & GREY CLAY 3.50m-10.00m GREY SILTY CLAY 10.00m-19.00m BLACK SILTY CLAY 19.00m-24.00m LIGNIOUS CLAY 24.00m-27.00m VOLCANIC CLAY 27.00m-61.00m GRANITE	0.40m-27.00m INNER LINING - CASING = Pvc 27.00m-58.00m INNER LINING - SLOT = Pvc 0.00m-3.00m OUTER LINING - GRAVEL = Cement 3.00m-27.00m OUTER LINING - GRAVEL = Gravel		27.00m-58.00m Granite	2002-12-19	1978	North East
76494	Domestic	0.00m-0.60m BLACK SANDY TOP SOIL 0.60m-1.00m BROWN CLAY SAND - FINE 1.00m-2.13m YELLOW CALCAREOUS SHELLY SAND- COARSE 2.13m-3.00m AS ABOVE TENDING GREY TO BLACK AND FINE GRAINED 3.00m-4.50m LIGNEOUS BLACK CLAY	-0.10m-2.10m INNER LINING - CASING = Pvc Class 12 2.10m-2.74m INNER LINING - SCREEN = Pvc Class 12 1.50m-3.00m OUTER LINING - GRAVEL = Gravel		2.10m-2.74m Marl	1987-01-09	1980	West
WRK990027	Domestic	0.00m-1.00m top soil 1.00m-4.60m sandy clay 4.60m-27.00m sloppy beach sands	0.00m-15.00m INNER LINING - CASING = Pvc 15.00m-27.00m INNER LINING - SCREEN = Pvc 0.00m-6.00m OUTER LINING - GRAVEL = Cement 6.00m-27.00m OUTER LINING - GRAVEL = Gravel			2009-05-21	1995	North East

Boreholes WMIS Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

OSAR Proposed Road Alignments - Site 26 (Section 10)

Boreholes (Earth Resources Database)

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

Bore Id	Bore Type	Company	Usage	Method	Status	Drill Date	Depth	Elevation	Accuracy (m)	Dist (m)	Direct
76480		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		09/01/1986	24.38		100	0	Onsite
76480		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		09/01/1986	24.38		100	0	Onsite
76479		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		11/01/1986	24.38		100	17	North
76306		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		13/01/1986	60.96		100	135	North East
76456		Private Individual/Corporation	Domestic & Stock water supply	Air Percussion/Air Rotary		23/11/1983	22.25		100	225	North
76473		Private Individual/Corporation	Domestic water supply	Hand Auger		07/08/1983	6.10		100	580	South
76462		Private Individual/Corporation	Stock/Poultry water supply	Air Percussion/Air Rotary		27/12/1982	21.34		100	604	North East
76444		Private Individual/Corporation	Domestic water supply	Spear point (multiple system)		09/11/1983	3.60		100	988	South
315420		Department of Manufacturing & Industry Development				31/12/1928	67.06	20.00	100	1241	North West
76447		Private Individual/Corporation	Domestic water supply	Hand Auger		14/09/1983	2.44		100	1433	South West
76428		Private Individual/Corporation	Domestic water supply	Hand Auger		22/03/1983	4.40		100	1832	South

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)

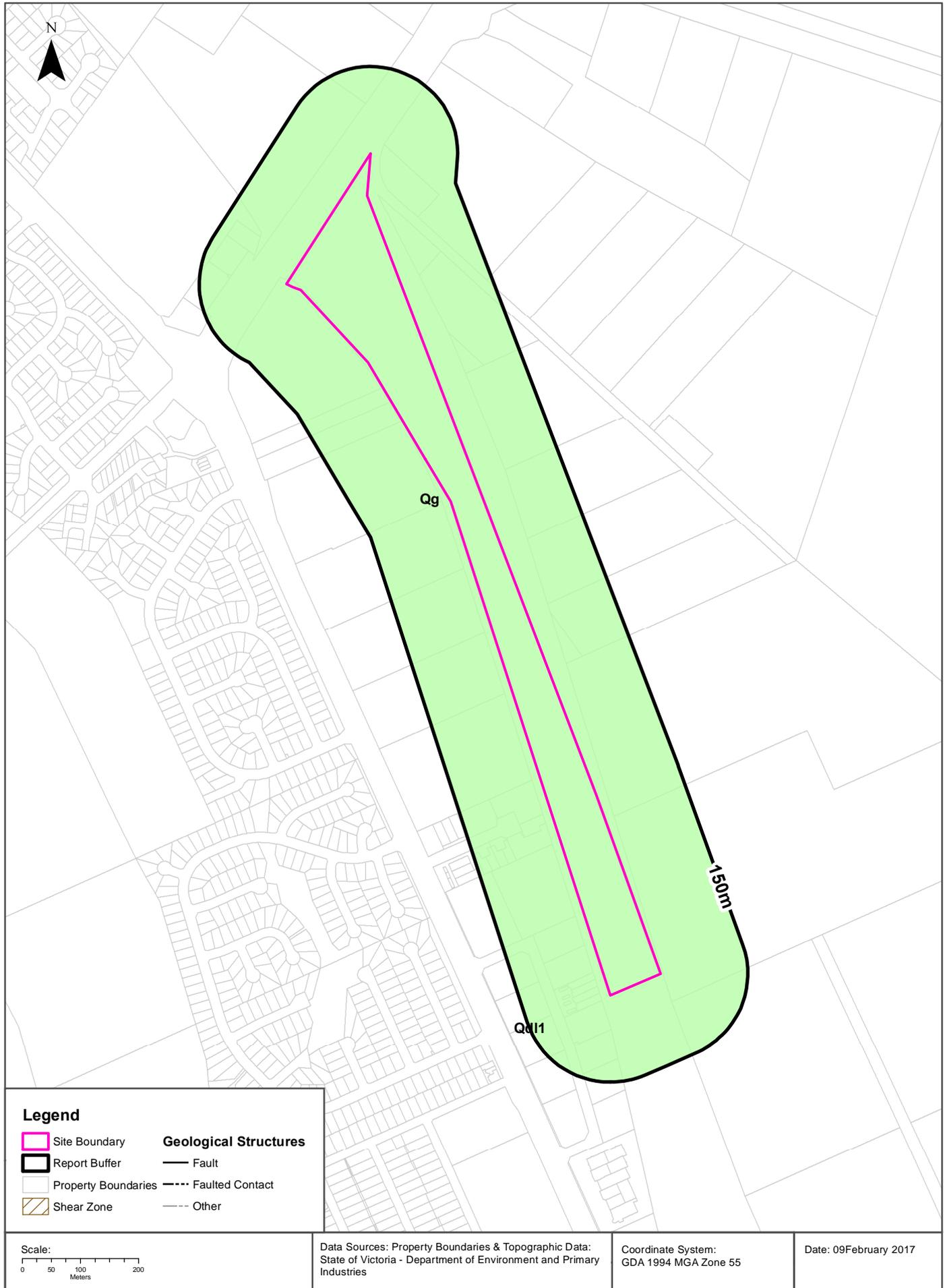
Boreholes from the Federation University Australia dataset, within the report buffer:

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

Boreholes FedUni Data Source: © Federation University Australia

Geology 1:250,000

OSAR Proposed Road Alignments - Site 26 (Section 10)



Geology

OSAR Proposed Road Alignments - Site 26 (Section 10)

Geological Units

What are the Geological Units onsite?

Symbol	Name	Description	Geological Age	Lithology	Dataset
Qg	coastal lagoon deposits (Qg): generic	Silt, clay: dark grey to black; variably consolidated	Holocene to Holocene	silt material (significant); clay lithology (significant)	1:250,000

What are the Geological Units within the report buffer?

Symbol	Name	Description	Geological Age	Lithology	Dataset
Qdl1	coastal dune deposits (Qdl1): generic	Sand, silt, clay: well sorted, poorly consolidated; coastal dune and beach deposits, some swamp deposits	Holocene to Holocene	sand (significant); silt material (significant); clay lithology (significant)	1:250,000
Qg	coastal lagoon deposits (Qg): generic	Silt, clay: dark grey to black; variably consolidated	Holocene to Holocene	silt material (significant); clay lithology (significant)	1:250,000

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Geology

OSAR Proposed Road Alignments - Site 26 (Section 10)

Geological Structures

What are the Geological Faults or Faulted Contacts onsite?

Map Id	Type	Name	Contact	Positional Accuracy	Dataset
No features					1:250,000

What are the Dykes, Marker Beds and Veins onsite?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No Data Coverage					

What are the Shear Zones onsite (1:250,000 scale)?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No features					1:250,000

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

Map Id	Type	Name	Contact	Positional Accuracy	Dataset
No features					1:250,000

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

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No Data Coverage					

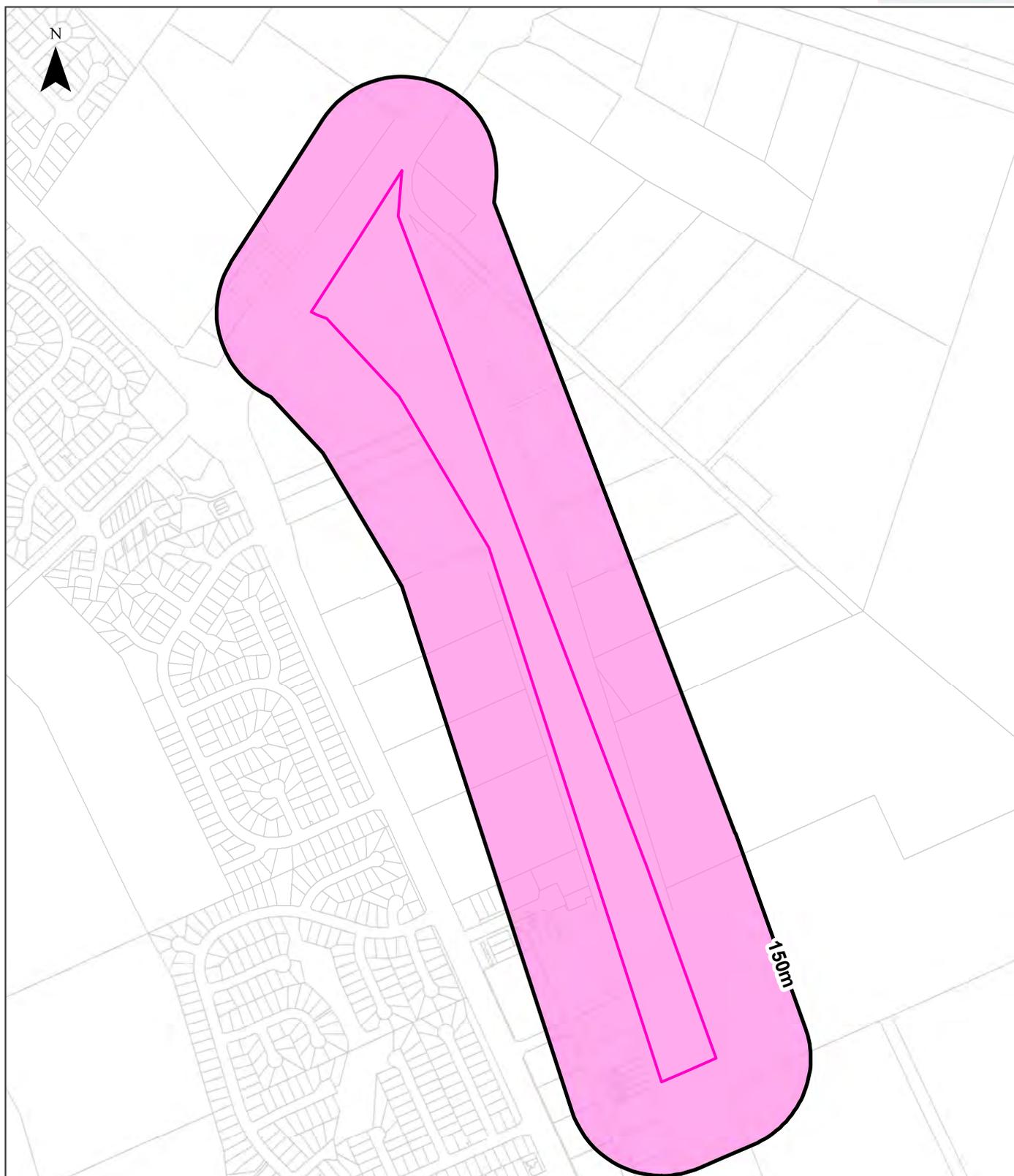
What are the Shear Zones within the report buffer (1:250,000 scale)?

Map Id	Type	Name	Description	Positional Accuracy	Dataset
No features					1:250,000

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Coastal Acid Sulfate Soils

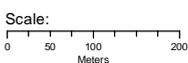
OSAR Proposed Road Alignments - Site 26 (Section 10)



150m

Legend

- | | |
|---------------------|---------------------------------------|
| Site Boundary | Coastal Acid Sulfate Soil type |
| Report Buffer | Made land |
| Property Boundaries | Prospective |
| | Water |



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Coastal Acid Sulfate Soils

OSAR Proposed Road Alignments - Site 26 (Section 10)

Coastal Acid Sulfate Soils

What are the on-site Coastal Acid Sulfate Soil types?

Coastal Acid Sulfate Soil Types
Prospective

What are the Coastal Acid Sulfate Soil types within the report buffer?

Coastal Acid Sulfate Soil Types	Distance	Direction
Prospective	0m	Onsite

Coastal Acid Sulfate Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Planning Zones

OSAR Proposed Road Alignments - Site 26 (Section 10)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries

Scale:
0 50 100 200
Meters

Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary
Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Planning Zones

OSAR Proposed Road Alignments - Site 26 (Section 10)

Planning Zones

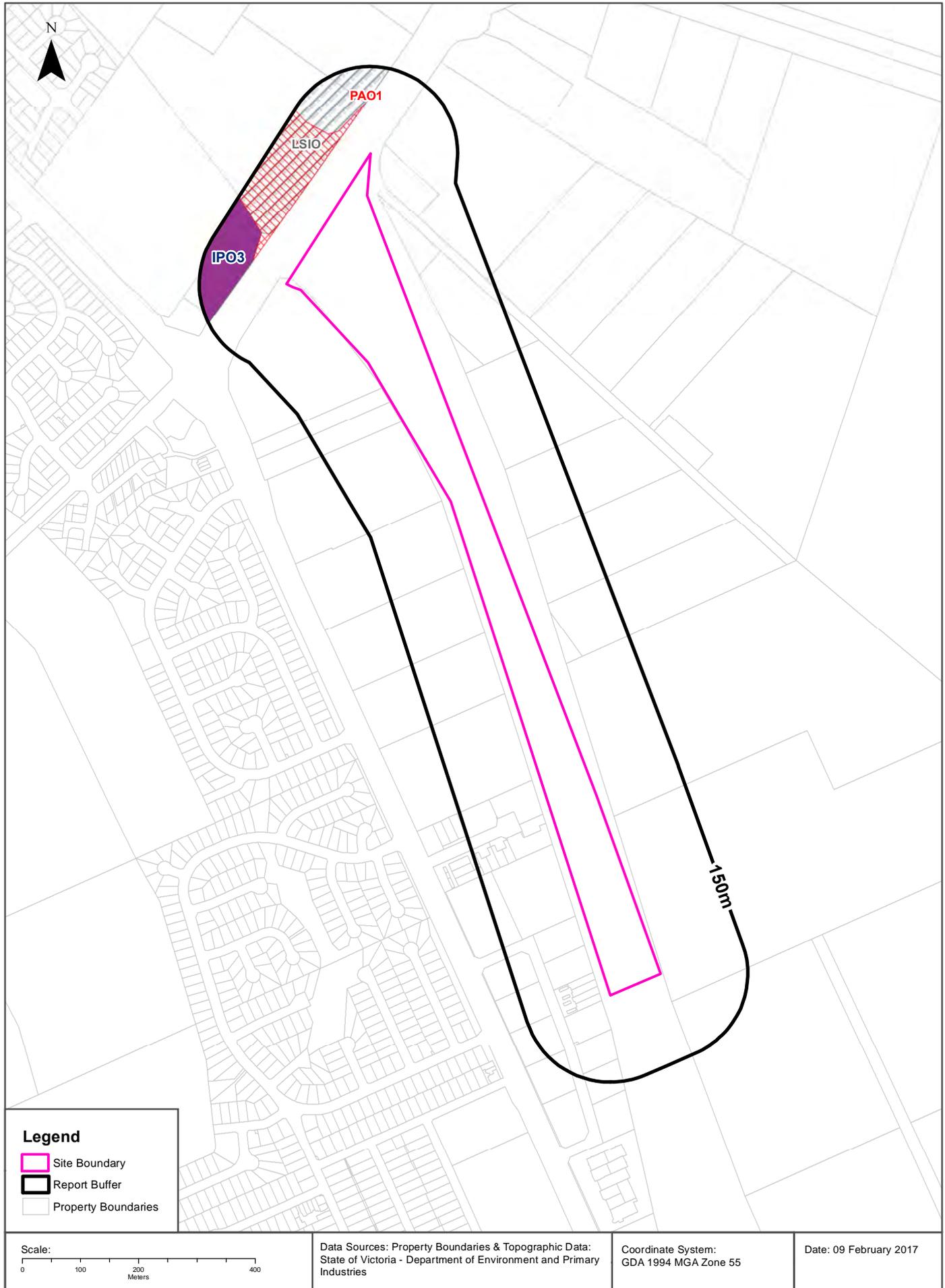
Planning zones within the report buffer:

Zone Code	Description	Distance	Direction
RDZ1	ROAD ZONE - CATEGORY 1	0m	Onsite
C2Z	COMMERCIAL 2 ZONE	0m	South
GWZ	GREEN WEDGE ZONE	0m	East
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	57m	North West
GRZ3	GENERAL RESIDENTIAL ZONE - SCHEDULE 3	68m	North West

Planning Zone Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Planning Overlays

OSAR Proposed Road Alignments - Site 26 (Section 10)



Planning Overlays

OSAR Proposed Road Alignments - Site 26 (Section 10)

Planning Overlays

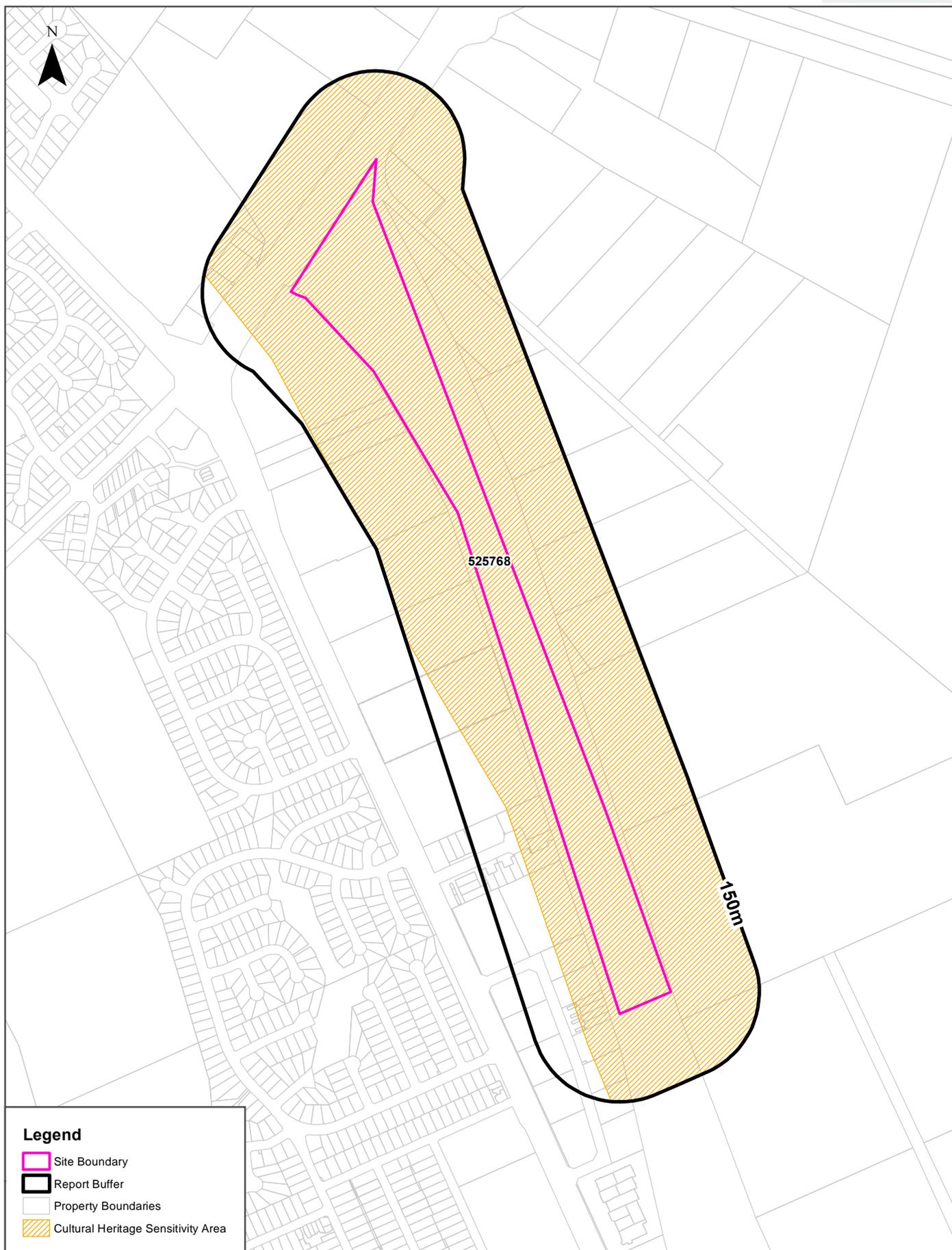
Planning overlays within the report buffer:

Zone Code	Description	Distance	Direction
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	57m	West
PAO1	PUBLIC ACQUISITION OVERLAY 1	57m	North West
IPO3	INCORPORATED PLAN OVERLAY - SCHEDULE 3	71m	North West

Planning Overlay Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

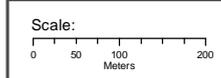
Cultural Heritage Sensitivity

OSAR Proposed Road Alignments - Site 26 (Section 10)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- Cultural Heritage Sensitivity Area



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Cultural Heritage Sensitivity

OSAR Proposed Road Alignments - Site 26 (Section 10)

Cultural Heritage Sensitivity

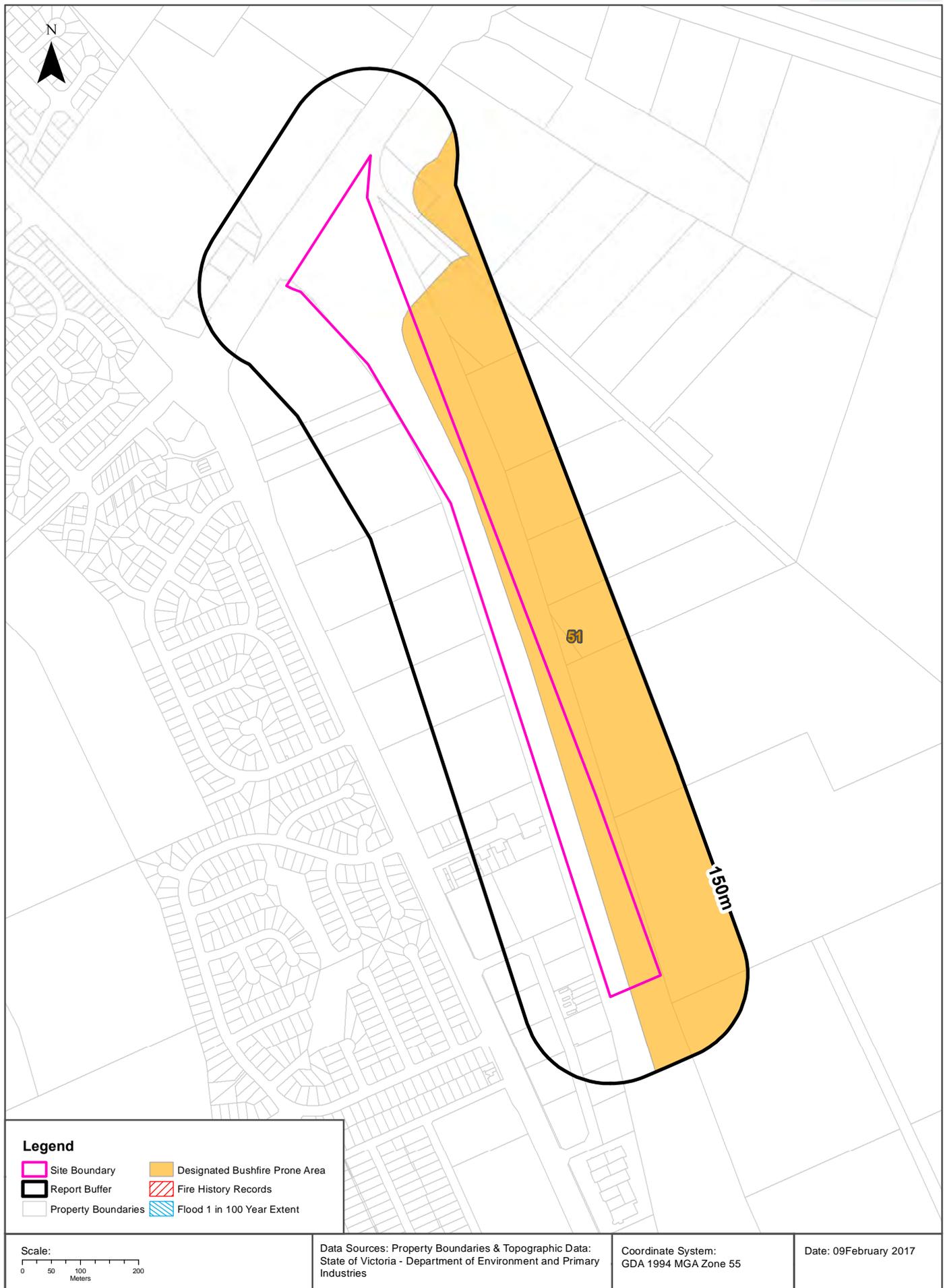
Areas of Cultural Heritage Sensitivity as specified in Division 3 of Part 2 in the Aboriginal Heritage Regulations 2007, within the report buffer:

Map Id	Culturally Sensitive	Distance	Direction
525768	YES	0m	Onsite

Cultural Heritage Sensitivity Data Custodian: State Government Victoria - Dept of Planning and Community Development
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Natural Hazards

OSAR Proposed Road Alignments - Site 26 (Section 10)



Natural Hazards

OSAR Proposed Road Alignments - Site 26 (Section 10)

Bushfire Prone Areas

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

Map ID	Feature	Plan No	LGA	Gazetted Date	Distance	Direction
51	Designated Bushfire Prone Area	LEGL./14-154	GREATER DANDENONG	07/04/2014	0m	Onsite

Bushfire Prone Area Data Custodian: State Government Victoria - Dept of Transport, Planning & Local Infrastructure
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Fire History

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

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

Fire History Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Flood - 1 in 100 year modelled flood extent

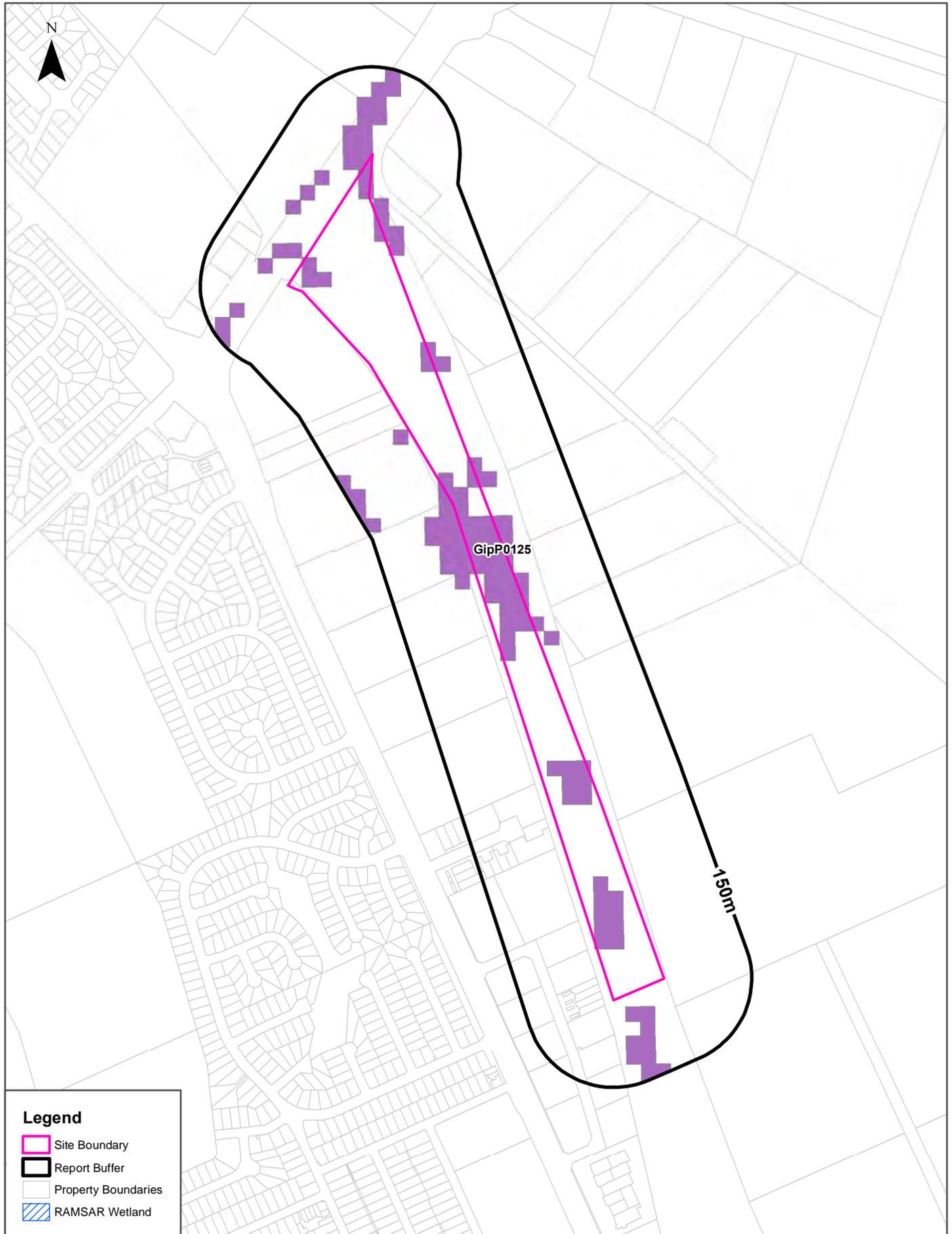
What 1 in 100 year flood extent features exist within the report buffer?

Feature	Source	Method	Scale	Modified Date	Distance	Direction
N/A	No records within buffer					

Flood Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Ecological Constraints - Native Vegetation 2005 & RAMSAR Wetlands

OSAR Proposed Road Alignments - Site 26 (Section 10)



Legend

- Site Boundary
- Report Buffer
- Property Boundaries
- RAMSAR Wetland



Data Sources: Property Boundaries & Topographic Data:
State of Victoria - Department of Environment and Primary Industries

Coordinate System:
GDA 1994 MGA Zone 55

Date: 09February 2017

Ecological Constraints

OSAR Proposed Road Alignments - Site 26 (Section 10)

Native Vegetation (Modelled 2005 Ecological Vegetation Classes)

What native vegetation exists within the report buffer?

Veg Code	EVC Name	EVCCode	Group	Subgroup	Bioregion	Conservation Status	Geographic Occurance	Distance
GipP0125	Plains Grassy Wetland	0125	Wetlands	Freshwater	Gippsland Plain	Endangered	Naturally Restricted	0m

Native Vegetation Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

RAMSAR Wetlands

What RAMSAR wetland areas exist within the report buffer?

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

RAMSAR Wetland Area Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

USE OF REPORT – APPLICABLE TERMS

The following terms apply to any person (End User) who is given the Report by the person who purchased the Report from Lotsearch Pty Ltd (ABN: 89 600 168 018) (Lotsearch) or who otherwise has access to the Report. The contract terms that apply between Lotsearch and the purchaser of the Report are specified in the order form pursuant to which the Report was ordered and the terms set out below are of no effect as between Lotsearch and the purchaser of the Report.

1. End User acknowledges and agrees that:
 - (a) the Report is compiled from or using content (**Third Party Content**) which is comprised of:
 - (i) content provided to Lotsearch by third party content suppliers with whom Lotsearch has contractual arrangements or content which is freely available (**Third Party Content Suppliers**);
 - (j) content which is derived from content described in paragraph (i);
 - (b) Lotsearch does not take any responsibility for or give any warranty in relation to the accuracy or completeness of any Third Party Content included in the Report;
 - (c) the Third Party Content Suppliers do not constitute an exhaustive set of all repositories or sources of information available in relation to the property which is the subject of the Report (**Property**);
 - (d) Lotsearch has not undertaken any physical inspection of the property;
 - (e) Lotsearch does not warrant that all land uses or features whether past or current are identified in the Report;
 - (f) the Report does not include any information relating to the actual state or condition of the Property;
 - (g) the Report should not be used or taken to indicate or exclude actual fitness or unfitness of a Property for any particular purpose;
 - (h) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
 - (i) the End User should undertake its own inspections of the Property to satisfy itself that there are no defects or failures.
2. The End User may not make the Report or any copies or extracts of the report or any part of it available to any other person. If End User wishes to provide the Report to any other person or make extracts or copies of the Report, it must contact the purchaser of the Report before doing so to ensure the proposed use is consistent with the contract terms between Lotsearch and the purchaser.
3. Neither Lotsearch (nor any of its officers, employees or agents) nor any of its Third Party Content Suppliers will have any liability to End User or any person to whom End User provides the Report and End User must not represent that Lotsearch or any of its Third Party Content Suppliers accepts liability to any such person or make any other representation to any such person on behalf of Lotsearch or any Third Party Content Supplier.
4. End User must not remove any copyright notices, trade marks, digital rights management information, other embedded information, disclaimers or limitations from the Report or authorise any person to do so.
5. End User acknowledges and agrees that Lotsearch and Third Party Content Suppliers retain ownership of all copyright, patent, design right (registered or unregistered), trade marks (registered or unregistered), database right or other data right, moral right or know how or any other intellectual property right in any Report or any other item, information or data included in or provided as part of a Report.
6. To the extent permitted by law and subject to paragraph 7, all implied terms, representations and warranties whether statutory or otherwise relating to the subject matter of these terms other than as expressly set out in these terms are excluded.
7. Subject to paragraph 8, Lotsearch excludes liability to End User for loss or damage of any kind, however caused, due to Lotsearch's negligence, breach of contract, breach of any law, in equity, under indemnities or otherwise, arising out of all acts, omissions and events whenever occurring.
8. Lotsearch acknowledges that if, under applicable State, Territory or Commonwealth law, End User is a consumer certain rights may be conferred on End User which cannot be excluded, restricted or modified. If so, and if that law applies to Lotsearch, then, Lotsearch's liability is limited to the greater of an amount equal to the cost of resupplying the Report and the maximum extent permitted under applicable laws.
9. Subject to paragraph 7, neither Lotsearch nor the End User is liable to the other for any indirect, incidental, consequential, special or exemplary damages arising out of or in relation to these terms.
10. These terms are subject to New South Wales law.

Appendix C

GROUNDWATER QUALITY SUMMARY TABLES

Table C.1: Field pH and yield of bores at Mordialloc Bypass project site

Bore ID	Distance to site (m)	Latitude	Longitude	Groundwater use	Date	Field pH	Yield (L/s)
76462	392	-38.02355	145.1412637	Stock and domestic	30/12/1982	7.6	1.26
76306	136	-38.02906	145.1379348	Stock and domestic	31/12/1982	-	0.63
76414	1681	-38.02507	145.1080742	Stock and domestic	1/01/1983	-	0.19
76442	1797	-38.03705	145.1133493	Stock and domestic	2/01/1983	-	0.32
76444	987	-38.04464	145.1317282	Stock and domestic	3/01/1983	-	0.32
76490	1887	-38.03712	145.1122074	Stock and domestic	4/01/1983	-	0.69
76494	1729	-38.03261	145.1116973	Stock and domestic	5/01/1983	-	0.25
76497	1104	-38.0476	145.1363822	Stock and domestic	6/01/1983	-	0.13
76514	275	-38.03127	145.1406128	Stock and domestic	7/01/1983	-	1
81716	241	-37.97974	145.1191442	Stock and domestic	8/01/1983	-	0.25
81722	683	-37.98182	145.1250112	Stock and domestic	9/01/1983	-	0.25
81736	363	-37.99201	145.1255494	Stock and domestic	10/01/1983	-	0.76
81737	152	-37.97965	145.1134533	Stock and domestic	11/01/1983	-	4
81738	804	-37.97655	145.128333	Stock and domestic	12/01/1983	-	0.38
81739	1029	-37.97435	145.131577	Stock and domestic	13/01/1983	-	0.37
81750	550	-37.9788	145.1224702	Stock and domestic	14/01/1983	-	0.19
81755	792	-37.97467	145.128837	Stock and domestic	15/01/1983	-	0.13
81762	1993	-37.9828	145.141837	Stock and domestic	16/01/1983	-	0.13
81767	1025	-37.98224	145.1293271	Stock and domestic	17/01/1983	-	0.63
142526	1538	-38.00686	145.0907751	Stock and domestic	18/01/1983	-	4
WRK990027	1350	-38.014	145.1529622	Stock and domestic	19/01/1983	-	0.3
WRK054967	1342	-38.01842	145.1007477	Stock and domestic	20/01/1983	-	0.5
WRK963468	902	-38.00555	145.0983693	Stock and domestic	21/01/1983	-	0.38
81814	1797	-37.96256	145.0930613	Stock and domestic	22/01/1983	-	7.2
81697	1225	-37.95526	145.1382065	Stock and domestic	23/01/1983	-	0.11
81714	1522	-37.98561	145.1372121	Stock and domestic	24/01/1983	-	0.88
81717	848	-37.97414	145.129533	Stock and domestic	25/01/1983	-	0.11
81761	1053	-37.98243	145.1298921	Stock and domestic	26/01/1983	-	0.06
133612	980	-37.96607	145.1039552	Irrigation	27/01/1983	-	3
133613	1084	-37.9626	145.1013692	Irrigation	28/01/1983	-	1.5
WRK032549	711	-37.97312	145.1279402	Irrigation	29/01/1983	-	3
WRK032660	1164	-38.04581	145.148222	Irrigation	30/01/1983	-	18.95
WRK032943	1305	-37.9479	145.1119898	Irrigation	31/01/1983	-	1
WRK039208	1178	-37.99996	145.0991529	Irrigation	1/02/1983	-	4.42
WRK039209	632	-37.96302	145.1330027	Irrigation	2/02/1983	-	3.78
WRK039211	1374	-37.99577	145.1392192	Irrigation	3/02/1983	-	1.29
WRK042431	556	-37.98747	145.1083666	Irrigation	4/02/1983	-	6
WRK042486	873	-37.96403	145.1047567	Irrigation	5/02/1983	-	0.85
WRK043374	1826	-37.99492	145.1442625	Irrigation	6/02/1983	-	3.5
81694	1332	-37.98158	145.1329871	Unknown	7/02/1983	-	0.06
81690	274	-37.96251	145.112527	Unknown	8/02/1983	-	0.07
81725	235	-37.95818	145.1234498	Unknown	9/02/1983	-	1.14
81726	247	-37.95809	145.1235668	Unknown	10/02/1983	-	0.32
81731	862	-38.00094	145.1035698	Unknown	11/02/1983	-	2.53
81733	848	-37.96183	145.1038931	Unknown	12/02/1983	-	0.76
81772	974	-38.00178	145.1001309	Unknown	13/02/1983	-	6
80581	1085	-37.95143	145.1071199	Stock and domestic	14/02/1983	-	1.2
81721	929	-37.96037	145.1026791	Stock and domestic	15/02/1983	-	7.57
81793	1399	-37.94775	145.1249676	Monitoring	2/04/1996	5.4	-
81795	1803	-37.94354	145.1209776	Monitoring	2/04/1996	5.9	-
81796	1828	-37.94477	145.1300504	Monitoring	2/04/1996	5.7	-
81797	965	-37.9525	145.1287166	Monitoring	3/04/1996	5.7	-
124426	510	-37.96564	145.1263219	Monitoring	2/04/1996	5.9	-
127110	908	-37.95219	145.1097859	Monitoring	2/04/1996	4.6	-
127111	905	-37.9522	145.1098309	Monitoring	2/04/1996	5.5	-
127113	188	-37.95853	145.1227808	Monitoring	2/04/1996	5.7	-
127114	187	-37.95854	145.1227808	Monitoring	3/04/1996	4.4	-
127117	194	-37.95775	145.1152439	Monitoring	2/04/1996	5.9	-
127118	195	-37.95775	145.1152319	Monitoring	2/04/1996	5.2	-
81435	1473	-37.96684	145.1413287	Monitoring	21/05/1976	7.45	-

Bore ID	Distance to site (m)	Latitude	Longitude	Groundwater use	Date	Field pH	Yield (L/s)
125269	1267	-37.97753	145.1334986	Monitoring	15/11/1995	5.5	-
125270	1939	-37.98195	145.1408393	Monitoring	22/11/1995	5.8	-
125271	1940	-37.98196	145.1408533	Monitoring	21/11/1995	4.8	-
125272	1813	-37.98257	145.1395867	Monitoring	21/11/1995	6	-
125273	1812	-37.98257	145.1395782	Monitoring	21/11/1995	6.4	-
125274	1642	-37.98102	145.1366346	Monitoring	22/11/1995	6	-
81420	1019	-37.95171	145.1080229	Monitoring	1/12/1972	5.25	-
81419	0	-37.96097	145.1173469	Monitoring	28/11/1972	6.4	-
81421	187	-37.96821	145.119438	Monitoring	20/02/1976	7.94	-
109632	1501	-37.96623	145.1420277	Monitoring	10/10/1973	7.43	-
76479	20	-38.02532	145.1348398	Stock and domestic	11/01/1986	8.3	1.26
81753	1288	-37.9603	145.0985832	Stock and domestic	1/04/1985	8.1	0.51
81763	964	-37.9789	145.1287291	Stock and domestic	12/11/1982	5.9	1.26
WRK039072	0	-38.02667	145.1348058	Stock and domestic	9/01/1986	8.3	0.95
76456	226	-38.02654	145.1378848	Stock and domestic	11/09/1984	5.9	1.26
81678	1511	-37.98525	145.1369931	Stock and domestic	29/11/1972	6.5	0.3
81732	1187	-37.96882	145.1354738	Stock and domestic	17/11/1982	6.65	0.76
81433	1813	-37.96754	145.1451816	Monitoring	9/04/1976	4.11	-
81434	1813	-37.96754	145.1451816	Monitoring	26/04/1976	5.45	-
127109	513	-37.96567	145.1263329	Monitoring	2/04/1996	6.7	-
81710	251	-37.9605	145.1290817	Irrigation	3/05/1979	8.1	-
81771	1625	-37.99281	145.1414347	Irrigation	12/11/1986	7.5	4.5
WRK039213	760	-37.9539	145.1260627	Unknown	1/01/1900	8.3	4.5
81674	842	-37.96784	145.1303759	Unknown	6/01/1971	8.1	-
81696	1937	-37.95354	145.0927252	Unknown	7/12/1973	8.26	-

Table C.2: Laboratory electrical conductivity and major ions for bores at Mordialloc Bypass project site

Bore ID	Date	Lab EC	HCO₃ (mg/L)	SO₄ (mg/L)	Cl (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)
109632	10/10/1973	1450	129	76	321	65	24	173	5
81419	28/11/1972	1541	29	95	383	16	42	198	1
81421	4/12/1991	2800	292.68	57	730	110	48	410	8.2
81435	24/09/1985	750	45.122	13	190	4.8	21	100	1.1
81674	6/01/1971	2152	259	18	552	94	36	305	7
81710	3/05/1979	1200	217	13	256	51	14	170	6
81732	17/11/1982	800	64	2	165	16	11	96	2
81753	1/04/1985	620	107.32	16	110	19	7.6	74	5.3
81763	12/11/1982	3450	18	103	1038	20	85	560	2
76456	11/09/1984	270	18.293	3	59	6.2	7	34	0.1
76462	11/11/1983	1060	500	5	89	23	15	220	2.1
76479	11/01/1986	1800	414.63	61	340	47	31	300	3.5
81771	12/11/1986	1100	121.95	1.1	260	17	11	170	3.3
WRK039072	9/01/1986	2500	317.07	67	630	91	51	370	4.3

Table C.3: Groundwater levels of bores within 2km of Mordialloc Bypass project site

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
81419	19/03/1973	15.14	15.11	11.56
81419	27/09/1973	14.37	14.34	12.33
81419	16/11/1973	12.86	12.83	13.84
81419	16/01/1974	12.26	12.23	14.44
81419	26/02/1974	11.86	11.83	14.84
81419	22/03/1974	11.44	11.41	15.26
81419	23/04/1974	10.51	10.48	16.19
81419	30/05/1974	9.53	9.50	17.17
81419	26/06/1974	7.90	7.87	18.80
81419	17/07/1974	8.37	8.34	18.33
81419	2/09/1974	7.81	7.78	18.89
81419	3/10/1974	7.41	7.38	19.29
81419	6/11/1974	7.20	7.17	19.50
81419	16/01/1975	6.69	6.66	20.01
81419	12/02/1975	6.80	6.77	19.90
81419	7/03/1975	7.21	7.18	19.49
81419	9/04/1975	7.58	7.55	19.12
81419	27/05/1975	7.64	7.61	19.06
81419	24/06/1975	7.20	7.17	19.50
81419	28/07/1975	6.95	6.92	19.75
81419	24/09/1975	6.80	6.77	19.90
81419	22/10/1975	6.80	6.77	19.90
81419	8/12/1975	6.70	6.67	20.00
81419	21/01/1976	6.59	6.56	20.11
81419	27/02/1976	6.89	6.86	19.81
81419	5/05/1976	8.33	8.30	18.37
81419	23/07/1976	8.47	8.44	18.23
81419	12/11/1976	8.13	8.10	18.57
81419	11/02/1977	6.72	6.69	19.98
81419	12/10/1977	4.47	4.44	22.23
81419	7/03/1978	7.74	7.71	18.96
81419	11/09/1978	6.87	6.84	19.83
81419	24/04/1979	6.41	6.38	20.29
81419	21/05/1981	7.07	7.04	19.63
81419	1/04/1982	6.76	6.73	19.94
81419	26/07/1982	6.58	6.55	20.12
127483	28/05/1996	3.94	3.99	13.81
127483	24/12/1996	3.98	4.03	13.77
127483	22/01/1997	4.19	4.24	13.56
127483	21/02/1997	4.30	4.35	13.45
127483	20/03/1997	4.13	4.18	13.62
127483	24/04/1997	4.42	4.47	13.33
127483	16/05/1997	4.40	4.45	13.35
127483	27/06/1997	4.30	4.35	13.45
127483	29/07/1997	4.35	4.40	13.40
127483	26/09/1997	4.11	4.16	13.64
127483	13/11/1997	4.18	4.23	13.57
127483	10/12/1997	4.10	4.15	13.65
127483	13/01/1998	4.45	4.50	13.30
127483	26/02/1998	4.35	4.40	13.40

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
127483	24/03/1998	4.45	4.50	13.30
127483	28/04/1998	4.50	4.55	13.25
127483	28/05/1998	4.40	4.45	13.35
127483	25/06/1998	4.30	4.35	13.45
127483	29/07/1998	4.10	4.15	13.65
127483	20/08/1998	4.20	4.25	13.55
127483	22/09/1998	4.20	4.25	13.55
127483	26/10/1998	4.14	4.19	13.61
127483	19/11/1998	4.25	4.30	13.50
127483	16/12/1998	4.20	4.25	13.55
127483	28/01/1999	4.20	4.25	13.55
127483	24/02/1999	4.55	4.60	13.20
127483	26/03/1999	4.65	4.70	13.10
127483	30/04/1999	4.75	4.80	13.00
127483	27/05/1999	4.80	4.85	12.95
127483	28/06/1999	4.70	4.75	13.05
127483	17/08/1999	4.65	4.70	13.10
127483	30/11/1999	4.64	4.69	13.11
127483	28/02/2000	5.00	5.05	12.75
127483	30/05/2000	4.90	4.95	12.85
127483	23/08/2000	4.70	4.75	13.05
127483	13/11/2000	4.27	4.32	13.48
127483	23/02/2001	4.35	4.40	13.40
127483	15/05/2001	4.77	4.82	12.98
127483	7/08/2001	4.39	4.44	13.36
127483	28/11/2001	4.26	4.31	13.49
127483	28/02/2002	4.40	4.45	13.35
127483	17/05/2002	4.57	4.62	13.18
127483	19/08/2002	4.42	4.47	13.33
127483	27/11/2002	4.67	4.72	13.08
127483	27/02/2003	4.90	4.95	12.85
127483	28/05/2003	4.90	4.95	12.85
127483	27/08/2003	4.72	4.77	13.03
127483	25/11/2003	4.53	4.58	13.22
127483	24/02/2004	4.90	4.95	12.85
127483	26/05/2004	5.06	5.11	12.69
127483	31/08/2004	4.50	4.55	13.25
127483	26/11/2004	4.20	4.25	13.55
127483	15/02/2005	4.44	4.49	13.31
127483	19/05/2005	4.78	4.83	12.97
127483	24/08/2005	4.58	4.63	13.17
127483	22/11/2005	4.47	4.52	13.28
127483	22/02/2006	4.77	4.82	12.98
127483	25/05/2006	4.39	4.44	13.36
127483	23/08/2006	4.63	4.68	13.12
127483	14/11/2006	4.52	4.57	13.23
127483	21/02/2007	4.94	4.99	12.81
127483	16/05/2007	5.24	5.29	12.51
127483	28/08/2007	5.17	5.22	12.58
127483	26/11/2007	5.11	5.16	12.64
127483	25/02/2008	5.27	5.32	12.48
127483	29/05/2008	5.46	5.51	12.29

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
127483	25/08/2008	5.30	5.35	12.45
127483	24/11/2008	5.21	5.26	12.54
127483	23/02/2009	5.44	5.49	12.31
127483	28/05/2009	5.54	5.59	12.21
127483	24/08/2009	5.47	5.52	12.28
127483	1/12/2009	5.44	5.49	12.31
127483	10/02/2010	5.52	5.57	12.23
127483	26/05/2010	5.57	5.62	12.18
127483	25/08/2010	5.21	5.26	12.54
127483	22/11/2010	4.82	4.87	12.93
127483	28/02/2011	4.35	4.40	13.40
127483	26/05/2011	4.34	4.39	13.41
127483	24/08/2011	4.39	4.44	13.36
127483	22/11/2011	4.31	4.36	13.44
127483	29/02/2012	4.65	4.70	13.10
127483	24/05/2012	4.68	4.73	13.07
127483	28/08/2012	4.05	4.10	13.70
127483	29/11/2012	4.21	4.26	13.54
127483	27/02/2013	4.72	4.77	13.03
127483	28/05/2013	4.95	5.00	12.80
127483	26/08/2013	4.60	4.65	13.15
127483	25/11/2013	4.54	4.59	13.21
127483	26/02/2014	4.71	4.76	13.04
127483	28/05/2014	4.97	5.02	12.78
127483	27/08/2014	4.90	4.95	12.85
127483	26/11/2014	4.91	4.96	12.84
127483	23/02/2015	5.08	5.13	12.67
127483	26/05/2015	5.25	5.30	12.50
127483	25/08/2015	5.16	5.21	12.59
127483	27/11/2015	5.12	5.17	12.63
127483	23/02/2016	5.29	5.34	12.46
127114	8/10/1996	4.61	3.82	26.95
81421	25/07/1973	7.90	7.01	15.28
81421	27/09/1973	8.30	7.41	14.88
81421	16/11/1973	7.68	6.79	15.50
81421	16/01/1974	7.73	6.84	15.45
81421	26/02/1974	8.53	7.64	14.65
81421	22/03/1974	7.64	6.75	15.54
81421	23/04/1974	6.64	5.75	16.54
81421	30/05/1974	6.34	5.45	16.84
81421	26/06/1974	6.05	5.16	17.13
81421	17/07/1974	5.71	4.82	17.47
81421	2/09/1974	5.43	4.54	17.75
81421	3/10/1974	5.15	4.26	18.03
81421	6/11/1974	5.02	4.13	18.16
81421	16/01/1975	4.77	3.88	18.41
81421	12/02/1975	5.20	4.31	17.98
81421	7/03/1975	5.63	4.74	17.55
81421	9/04/1975	5.58	4.69	17.60
81421	27/05/1975	5.44	4.55	17.74
81421	24/06/1975	5.02	4.13	18.16
81421	28/07/1975	4.95	4.06	18.23

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
81421	24/09/1975	4.88	3.99	18.30
81421	22/10/1975	4.94	4.05	18.24
81421	8/12/1975	4.73	3.84	18.45
81421	21/01/1976	4.68	3.79	18.50
81421	27/02/1976	4.89	4.00	18.29
81421	5/05/1976	6.07	5.18	17.11
81421	23/07/1976	6.14	5.25	17.04
81421	12/11/1976	5.99	5.10	17.19
81421	11/02/1977	5.93	5.04	17.25
81421	11/10/1977	6.55	5.66	16.63
81421	7/03/1978	5.32	4.43	17.86
81421	11/09/1978	4.83	3.94	18.35
81421	24/04/1979	4.40	3.51	18.78
81421	21/05/1981	5.17	4.28	18.01
81421	6/04/1982	4.55	3.66	18.63
81421	26/07/1982	4.30	3.41	18.88
81421	9/03/1983	5.11	4.22	18.07
81421	10/08/1983	4.77	3.88	18.41
81421	2/04/1984	4.48	3.59	18.70
81421	15/03/1985	4.95	4.08	17.62
81421	20/09/1985	4.40	3.53	18.17
81421	15/04/1986	5.01	4.14	17.56
81421	27/10/1986	4.34	3.47	18.23
81421	1/04/1987	5.01	4.14	17.56
81421	8/09/1987	4.77	3.90	17.80
81421	28/04/1988	4.81	3.94	17.76
81421	1/12/1988	4.14	3.27	18.43
81421	8/05/1989	4.30	3.43	18.27
81421	4/01/1990	3.88	3.01	18.69
81421	4/05/1990	4.61	3.74	17.96
81421	23/11/1990	3.86	2.99	18.71
81421	8/05/1991	4.49	3.62	18.08
81421	4/12/1991	4.21	3.34	18.36
127113	8/10/1996	9.46	8.56	22.21
127117	8/10/1996	6.39	6.45	22.81
127118	7/10/1996	1.40	1.44	27.82
127486	28/05/1996	1.63	1.70	9.42
127486	3/12/1996	1.47	1.54	9.58
127486	24/12/1996	1.44	1.51	9.61
127486	22/01/1997	1.55	1.62	9.50
127486	21/02/1997	1.55	1.62	9.50
127486	20/03/1997	2.00	2.07	9.05
127486	24/04/1997	1.90	1.97	9.15
127486	15/05/1997	1.97	2.04	9.08
127486	27/06/1997	1.90	1.97	9.15
127486	29/07/1997	1.90	1.97	9.15
127486	26/09/1997	1.89	1.96	9.16
127486	13/11/1997	2.14	2.21	8.91
127486	10/12/1997	2.15	2.22	8.90
127486	13/01/1998	2.32	2.39	8.73
127486	26/02/1998	2.35	2.42	8.70
127486	24/03/1998	2.52	2.59	8.53

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
127486	28/04/1998	2.50	2.57	8.55
127486	28/05/1998	2.50	2.57	8.55
127486	25/06/1998	2.50	2.57	8.55
127486	29/07/1998	2.35	2.42	8.70
127486	20/08/1998	2.30	2.37	8.75
127486	22/09/1998	2.40	2.47	8.65
127486	26/10/1998	2.40	2.47	8.65
127486	19/11/1998	2.40	2.47	8.65
127486	16/12/1998	2.40	2.47	8.65
127486	28/01/1999	2.50	2.57	8.55
127486	24/02/1999	2.55	2.62	8.50
127486	26/03/1999	2.70	2.77	8.35
127486	30/04/1999	2.60	2.67	8.45
127486	27/05/1999	2.74	2.81	8.31
127486	28/06/1999	2.70	2.77	8.35
127486	17/08/1999	2.62	2.69	8.43
127486	30/11/1999	2.36	2.43	8.69
127486	28/02/2000	2.50	2.57	8.55
127486	30/05/2000	2.50	2.57	8.55
127486	23/08/2000	2.38	2.45	8.67
127486	13/11/2000	2.22	2.29	8.83
127486	23/02/2001	2.40	2.47	8.65
127486	15/05/2001	2.54	2.61	8.51
127486	7/08/2001	2.47	2.54	8.58
127486	28/11/2001	2.33	2.40	8.72
127486	28/02/2002	2.52	2.59	8.53
127486	17/05/2002	2.72	2.79	8.33
127486	19/08/2002	2.63	2.70	8.42
127486	27/11/2002	2.82	2.89	8.23
127486	27/02/2003	3.18	3.25	7.87
127486	28/05/2003	3.22	3.29	7.83
127486	27/08/2003	3.10	3.17	7.95
127486	25/11/2003	2.82	2.89	8.23
127486	24/02/2004	3.15	3.22	7.90
127486	26/05/2004	3.34	3.41	7.71
127486	31/08/2004	2.73	2.80	8.32
127486	26/11/2004	2.71	2.78	8.34
127486	15/02/2005	2.87	2.94	8.18
127486	19/05/2005	3.10	3.17	7.95
127486	24/08/2005	3.10	3.17	7.95
127486	22/11/2005	2.89	2.96	8.16
127486	22/02/2006	3.22	3.29	7.83
127486	25/05/2006	3.16	3.23	7.89
127486	23/08/2006	3.17	3.24	7.88
127486	14/11/2006	3.38	3.45	7.67
127486	21/02/2007	3.69	3.76	7.36
127486	16/05/2007	3.83	3.90	7.22
127486	28/08/2007	3.68	3.75	7.37
127486	26/11/2007	3.88	3.95	7.17
127486	25/02/2008	4.03	4.10	7.02
127486	29/05/2008	4.15	4.22	6.90
127486	25/08/2008	4.03	4.10	7.02

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
127486	24/11/2008	4.11	4.18	6.94
127486	23/02/2009	4.28	4.35	6.77
127486	28/05/2009	4.31	4.38	6.74
127486	24/08/2009	4.22	4.29	6.83
127486	3/12/2009	4.20	4.27	6.85
127486	9/02/2010	4.40	4.47	6.65
127486	24/05/2010	4.42	4.49	6.63
127486	25/08/2010	4.13	4.20	6.92
127486	22/11/2010	3.82	3.89	7.23
127486	28/02/2011	3.47	3.54	7.58
127486	25/05/2011	3.47	3.54	7.58
127486	26/08/2011	3.34	3.41	7.71
127486	22/11/2011	3.16	3.23	7.89
127486	29/02/2012	3.48	3.55	7.57
127486	24/05/2012	3.43	3.50	7.62
127486	28/08/2012	3.07	3.14	7.98
127486	29/11/2012	3.06	3.13	7.99
127486	26/02/2013	3.61	3.68	7.44
127486	28/05/2013	3.71	3.78	7.34
127486	26/08/2013	3.42	3.49	7.63
127486	25/11/2013	3.28	3.35	7.77
127486	26/02/2014	3.64	3.71	7.41
127486	28/05/2014	3.73	3.80	7.32
127486	27/08/2014	3.56	3.63	7.49
127486	26/11/2014	3.63	3.70	7.42
127486	23/02/2015	3.89	3.96	7.16
127486	26/05/2015	3.95	4.02	7.10
127486	25/08/2015	3.85	3.92	7.20
127486	27/11/2015	3.94	4.01	7.11
127486	23/02/2016	4.17	4.24	6.88
127484	28/05/1996	1.84	1.89	9.26
127484	3/12/1996	1.58	1.63	9.52
127484	24/12/1996	1.53	1.58	9.57
127484	22/01/1997	1.60	1.65	9.50
127484	21/02/1997	1.68	1.73	9.42
127484	20/03/1997	1.78	1.83	9.32
127484	24/04/1997	1.80	1.85	9.30
127484	15/05/1997	2.01	2.06	9.09
127484	27/06/1997	2.00	2.05	9.10
127484	29/07/1997	2.18	2.23	8.92
127484	26/09/1997	2.19	2.24	8.91
127484	13/11/1997	2.13	2.18	8.97
127484	10/12/1997	2.10	2.15	9.00
127484	13/01/1998	2.54	2.59	8.56
127484	26/02/1998	2.35	2.40	8.75
127484	24/03/1998	2.50	2.55	8.60
127484	28/04/1998	2.50	2.55	8.60
127484	28/05/1998	2.50	2.55	8.60
127484	25/06/1998	2.50	2.55	8.60
127484	29/07/1998	2.45	2.50	8.65
127484	20/08/1998	2.40	2.45	8.70
127484	22/09/1998	2.40	2.45	8.70

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
127484	26/10/1998	2.33	2.38	8.77
127484	19/11/1998	2.35	2.40	8.75
127484	16/12/1998	2.40	2.45	8.70
127484	28/01/1999	2.50	2.55	8.60
127484	24/02/1999	2.55	2.60	8.55
127484	26/03/1999	2.70	2.75	8.40
127484	30/04/1999	2.70	2.75	8.40
127484	27/05/1999	2.74	2.79	8.36
127484	28/06/1999	2.66	2.71	8.44
127484	17/08/1999	2.52	2.57	8.58
127484	30/11/1999	2.36	2.41	8.74
127484	28/02/2000	2.70	2.75	8.40
127484	30/05/2000	2.50	2.55	8.60
127484	23/08/2000	2.45	2.50	8.65
127484	13/11/2000	2.34	2.39	8.76
127484	23/02/2001	2.15	2.20	8.95
127484	15/05/2001	2.72	2.77	8.38
127484	7/08/2001	2.43	2.48	8.67
127484	28/11/2001	2.33	2.38	8.78
127484	28/02/2002	2.50	2.55	8.60
127484	17/05/2002	2.80	2.85	8.30
127484	5/06/2002	2.73	2.78	8.37
127484	19/08/2002	2.62	2.67	8.48
127484	27/11/2002	2.79	2.84	8.31
127484	27/02/2003	3.07	3.12	8.03
127484	28/05/2003	3.17	3.22	7.93
127484	27/08/2003	3.05	3.10	8.05
127484	25/11/2003	2.83	2.88	8.27
127484	24/02/2004	3.15	3.20	7.95
127484	26/05/2004	3.34	3.39	7.76
127484	31/08/2004	2.99	3.04	8.11
127484	26/11/2004	2.71	2.76	8.39
127484	15/02/2005	2.88	2.93	8.22
127484	19/05/2005	3.10	3.15	8.00
127484	24/08/2005	3.10	3.15	8.00
127484	22/11/2005	2.89	2.94	8.21
127484	22/02/2006	3.23	3.28	7.87
127484	25/05/2006	3.17	3.22	7.93
127484	23/08/2006	3.16	3.21	7.94
127484	14/11/2006	3.36	3.41	7.74
127484	21/02/2007	3.69	3.74	7.41
127484	16/05/2007	3.84	3.89	7.26
127484	28/08/2007	3.70	3.75	7.40
127484	26/11/2007	3.89	3.94	7.21
127484	25/02/2008	4.06	4.11	7.04
127484	25/08/2008	4.04	4.09	7.06
127484	24/11/2008	4.15	4.20	6.95
127484	23/02/2009	4.32	4.37	6.78
127484	28/05/2009	4.37	4.42	6.73
127484	24/08/2009	4.26	4.31	6.84
127484	3/12/2009	4.25	4.30	6.85
127484	9/02/2010	4.46	4.51	6.64

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
127484	24/05/2010	4.48	4.53	6.62
127484	25/08/2010	4.17	4.22	6.93
127484	22/11/2010	3.87	3.92	7.23
127484	28/02/2011	3.53	3.58	7.57
127484	25/05/2011	3.53	3.58	7.57
127484	24/08/2011	3.33	3.38	7.77
127484	22/11/2011	3.22	3.27	7.88
127484	29/02/2012	3.54	3.59	7.56
127484	24/05/2012	3.50	3.55	7.60
127484	28/08/2012	3.11	3.16	7.99
127484	29/11/2012	3.12	3.17	7.98
127484	26/02/2013	3.69	3.74	7.41
127484	28/05/2013	3.77	3.82	7.33
127484	26/08/2013	3.48	3.53	7.62
127484	25/11/2013	3.32	3.37	7.78
127484	26/02/2014	3.68	3.73	7.42
127484	28/05/2014	3.78	3.83	7.32
127484	2/07/2014	3.75	3.77	7.38
127484	27/08/2014	3.61	3.63	7.52
127484	26/11/2014	3.62	3.64	7.51
127484	23/02/2015	3.78	3.80	7.35
127484	26/05/2015	3.77	3.79	7.36
127484	25/08/2015	3.86	3.88	7.27
127484	27/11/2015	3.97	3.99	7.16
127484	23/02/2016	4.18	4.20	6.95
124426	26/09/1996	3.76	2.75	27.60
127482	28/05/1996	3.72	3.77	14.87
127482	2/12/1996	3.56	3.61	15.03
127482	24/12/1996	3.92	3.97	14.67
127482	22/01/1997	4.20	4.25	14.39
127482	21/02/1997	4.42	4.47	14.17
127482	20/03/1997	4.66	4.71	13.93
127482	24/04/1997	4.60	4.65	13.99
127482	16/05/1997	4.30	4.35	14.29
127482	27/06/1997	3.75	3.80	14.84
127482	29/07/1997	3.58	3.63	15.01
127482	26/09/1997	3.21	3.26	15.38
127482	13/11/1997	3.42	3.47	15.17
127482	10/12/1997	3.80	3.85	14.79
127482	13/01/1998	4.14	4.19	14.45
127482	26/02/1998	4.42	4.47	14.17
127482	24/03/1998	4.80	4.85	13.79
127482	28/04/1998	4.40	4.45	14.19
127482	28/05/1998	4.05	4.10	14.54
127482	25/06/1998	3.75	3.80	14.84
127482	29/07/1998	3.40	3.45	15.19
127482	20/08/1998	3.35	3.40	15.24
127482	22/09/1998	3.45	3.50	15.14
127482	26/10/1998	3.61	3.66	14.98
127482	19/11/1998	4.00	4.05	14.59
127482	16/12/1998	4.80	4.85	13.79
127482	24/02/1999	5.40	5.45	13.19

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
127482	26/03/1999	5.70	5.75	12.89
127482	30/04/1999	5.20	5.25	13.39
127482	27/05/1999	4.88	4.93	13.71
127482	28/06/1999	4.69	4.74	13.90
127482	17/08/1999	4.37	4.42	14.22
127482	30/11/1999	4.20	4.25	14.39
127482	28/02/2000	5.17	5.22	13.42
127482	30/05/2000	4.50	4.55	14.09
127482	23/08/2000	3.70	3.75	14.89
127482	13/11/2000	3.31	3.36	15.28
127482	23/02/2001	4.90	4.95	13.69
127482	15/05/2001	4.72	4.77	13.87
127482	7/08/2001	3.76	3.81	14.83
127482	28/11/2001	3.29	3.34	15.30
127482	28/02/2002	4.17	4.22	14.42
127482	17/05/2002	4.71	4.76	13.88
127482	19/08/2002	3.78	3.83	14.81
127482	27/11/2002	5.23	5.28	13.36
127482	27/02/2003	5.99	6.04	12.60
127482	28/05/2003	5.80	5.85	12.79
127482	27/08/2003	5.69	5.74	12.90
127482	25/11/2003	4.87	4.92	13.72
127482	24/02/2004	6.03	6.08	12.56
127482	26/05/2004	5.03	5.08	13.56
127482	31/08/2004	3.89	3.94	14.70
127482	26/11/2004	3.65	3.70	14.94
127482	15/02/2005	4.78	4.83	13.81
127482	19/05/2005	4.60	4.65	13.99
127482	24/08/2005	3.80	3.85	14.79
127482	22/11/2005	3.66	3.71	14.93
127482	22/02/2006	4.59	4.64	14.00
127482	25/05/2006	4.59	4.64	14.00
127482	23/08/2006	3.90	3.95	14.69
127482	14/11/2006	4.95	5.00	13.64
127482	21/02/2007	6.10	6.15	12.49
127482	16/05/2007	6.62	6.67	11.97
127482	28/08/2007	6.72	6.77	11.87
127482	26/11/2007	6.95	7.00	11.64
127482	25/02/2008	7.11	7.16	11.48
127482	29/05/2008	7.10	7.15	11.49
127482	25/08/2008	7.05	7.10	11.54
127482	24/11/2008	7.15	7.20	11.44
127482	23/02/2009	7.27	7.32	11.32
127482	28/05/2009	7.18	7.23	11.41
127482	24/08/2009	6.74	6.79	11.85
127482	1/12/2009	7.19	7.21	11.43
127482	9/02/2010	7.22	7.24	11.40
127482	26/05/2010	6.85	6.87	11.77
127482	25/08/2010	6.20	6.22	12.42
127482	22/11/2010	5.89	5.91	12.73
127482	28/02/2011	5.24	5.26	13.38
127482	26/05/2011	4.76	4.78	13.86

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
127482	24/08/2011	4.31	4.33	14.31
127482	22/11/2011	3.97	3.99	14.65
127482	29/02/2012	4.35	4.37	14.27
127482	24/05/2012	4.18	4.20	14.44
127482	28/08/2012	3.60	3.62	15.02
127482	29/11/2012	3.73	3.75	14.89
127482	27/02/2013	5.67	5.69	12.95
127482	29/05/2013	6.69	6.71	11.93
127482	26/08/2013	5.53	5.55	13.09
127482	25/11/2013	4.58	4.60	14.04
127482	26/02/2014	5.80	5.82	12.82
127482	28/05/2014	6.29	6.31	12.33
127482	27/08/2014	5.88	5.90	12.74
127482	26/11/2014	6.11	6.13	12.51
127482	23/02/2015	6.89	6.91	11.73
127482	26/05/2015	6.89	6.91	11.73
127482	25/08/2015	6.99	7.01	11.63
127482	27/11/2015	6.62	6.64	12.00
127482	23/02/2016	7.28	7.30	11.34
127111	7/10/1996	5.47	5.54	27.40
127110	7/10/1996	8.31	8.35	24.59
81420	25/07/1973	6.19	6.16	27.48
81420	16/11/1973	6.71	6.68	26.96
81420	16/01/1974	6.88	6.85	26.79
81420	26/02/1974	7.29	7.26	26.38
81420	22/03/1974	7.11	7.08	26.56
81420	23/04/1974	6.86	6.83	26.81
81420	31/05/1974	6.15	6.12	27.52
81420	26/06/1974	5.35	5.32	28.32
81420	17/07/1974	5.50	5.47	28.17
81420	2/09/1974	5.36	5.33	28.31
81420	3/10/1974	5.27	5.24	28.40
81420	6/11/1974	5.28	5.25	28.39
81420	16/01/1975	5.61	5.58	28.06
81420	12/02/1975	6.08	6.05	27.59
81420	7/03/1975	6.18	6.15	27.49
81420	9/04/1975	6.29	6.26	27.38
81420	27/05/1975	6.49	6.46	27.18
81420	24/06/1975	6.62	6.59	27.05
81420	28/07/1975	6.50	6.47	27.17
81420	29/08/1975	6.57	6.54	27.10
81420	24/09/1975	6.22	6.19	27.45
81420	22/10/1975	6.33	6.30	27.34
125269	10/04/1995	4.69	4.69	22.52
125269	19/05/1995	4.76	4.76	22.45
125269	15/11/1995	4.48	4.48	22.73
125269	28/05/1996	4.45	4.45	22.76
125269	25/09/1996	4.18	4.18	23.03
125269	3/12/1996	4.07	4.07	23.14
125269	24/12/1996	4.14	4.14	23.07
125269	22/01/1997	4.30	4.30	22.91
125269	21/02/1997	4.30	4.30	22.91

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
125269	24/04/1997	4.60	4.60	22.61
125269	15/05/1997	4.77	4.77	22.44
125269	27/06/1997	4.90	4.90	22.31
125269	29/07/1997	5.00	5.00	22.21
125269	22/09/1997	4.97	4.97	22.24
125269	13/11/1997	4.87	4.87	22.34
125269	10/12/1997	5.00	5.00	22.21
125269	26/02/1998	4.95	4.95	22.26
125269	24/03/1998	5.25	5.25	21.96
125269	28/04/1998	5.35	5.35	21.86
125269	28/05/1998	5.40	5.40	21.81
125269	25/06/1998	5.40	5.40	21.81
125269	29/07/1998	5.25	5.25	21.96
125269	20/08/1998	5.50	5.50	21.71
125269	22/09/1998	5.40	5.40	21.81
125269	26/10/1998	5.29	5.29	21.92
125269	19/11/1998	5.40	5.40	21.81
125269	16/12/1998	5.30	5.30	21.91
125269	28/01/1999	5.40	5.40	21.81
125269	24/02/1999	5.40	5.40	21.81
125269	26/03/1999	5.40	5.40	21.81
125269	30/04/1999	5.50	5.50	21.71
125269	27/05/1999	5.45	5.45	21.76
125269	28/06/1999	5.67	5.67	21.54
125269	17/08/1999	5.51	5.51	21.70
125269	30/11/1999	5.34	5.34	21.87
125269	28/02/2000	5.40	5.40	21.81
125269	30/05/2000	5.40	5.40	21.81
125269	23/08/2000	5.46	5.46	21.75
125269	13/11/2000	5.33	5.33	21.88
125269	23/02/2001	5.10	5.10	22.11
125269	15/05/2001	5.38	5.38	21.83
125269	7/08/2001	5.36	5.36	21.85
125269	28/11/2001	5.31	5.31	21.90
125269	28/02/2002	5.29	5.29	21.92
125269	17/05/2002	5.39	5.39	21.82
125269	19/08/2002	5.59	5.59	21.62
125269	27/11/2002	5.57	5.57	21.64
125269	27/02/2003	5.63	5.63	21.58
125269	28/05/2003	5.97	5.97	21.24
125269	27/08/2003	6.04	6.04	21.17
125269	25/11/2003	5.82	5.82	21.39
125269	24/02/2004	5.83	5.83	21.38
125269	26/05/2004	6.04	6.04	21.17
125269	31/08/2004	5.99	5.99	21.22
125269	26/11/2004	5.78	5.78	21.43
125269	15/02/2005	5.71	5.71	21.50
125269	19/05/2005	5.73	5.73	21.48
125269	24/08/2005	5.96	5.96	21.25
125269	22/11/2005	5.71	5.71	21.50
125269	22/02/2006	5.87	5.87	21.34
125269	25/05/2006	5.84	5.84	21.37

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
125269	23/08/2006	5.92	5.92	21.29
125269	14/11/2006	5.97	5.97	21.24
125269	21/02/2007	6.27	6.27	20.94
125269	16/05/2007	6.35	6.35	20.86
125269	28/08/2007	6.45	6.45	20.76
125269	26/11/2007	6.60	6.60	20.61
125269	25/02/2008	6.68	6.68	20.53
125269	29/05/2008	6.86	6.86	20.35
125269	25/08/2008	6.95	6.95	20.26
125269	24/11/2008	6.91	6.91	20.30
125269	23/02/2009	7.01	7.01	20.20
125269	28/05/2009	7.19	7.19	20.02
125269	25/08/2009	7.12	7.12	20.09
125269	1/12/2009	6.92	6.92	20.29
125269	9/02/2010	7.00	7.05	20.16
125269	25/05/2010	7.23	7.28	19.93
125269	25/08/2010	6.78	6.83	20.38
125269	22/11/2010	6.54	6.59	20.62
125269	28/02/2011	6.13	6.18	21.03
125269	26/05/2011	6.10	6.15	21.06
125269	24/08/2011	5.97	6.02	21.19
125269	22/11/2011	5.40	5.40	21.81
125269	29/02/2012	5.57	5.57	21.64
125269	24/05/2012	5.70	5.70	21.51
125269	28/08/2012	5.26	5.26	21.95
125269	29/11/2012	4.69	4.69	22.52
125269	26/02/2013	5.61	5.61	21.60
125269	28/05/2013	5.84	5.84	21.37
125269	26/08/2013	5.53	5.53	21.68
125269	25/11/2013	5.30	5.30	21.91
125269	26/02/2014	5.65	5.65	21.56
125269	28/05/2014	5.89	5.89	21.32
125269	27/08/2014	5.80	5.80	21.41
125269	26/11/2014	5.76	5.76	21.45
125269	23/02/2015	6.02	6.02	21.19
125269	26/05/2015	6.27	6.27	20.94
125269	25/08/2015	6.15	6.15	21.06
125269	27/11/2015	6.07	6.07	21.14
125269	23/02/2016	6.33	6.33	20.88
127481	28/05/1996	2.05	2.10	23.14
127481	2/12/1996	1.97	2.02	23.22
127481	24/12/1996	2.15	2.20	23.04
127481	22/01/1997	2.35	2.40	22.84
127481	21/02/1997	2.50	2.55	22.69
127481	2/04/1997	2.45	2.50	22.74
127481	24/04/1997	2.70	2.75	22.49
127481	16/05/1997	2.60	2.65	22.59
127481	27/06/1997	2.35	2.40	22.84
127481	29/07/1997	2.33	2.38	22.86
127481	26/09/1997	2.05	2.10	23.14
127481	13/11/1997	2.17	2.22	23.02
127481	10/12/1997	2.35	2.40	22.84

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
127481	13/01/1998	2.70	2.75	22.49
127481	26/02/1998	2.50	2.55	22.69
127481	24/03/1998	2.70	2.75	22.49
127481	28/04/1998	2.70	2.75	22.49
127481	28/05/1998	2.55	2.60	22.64
127481	25/06/1998	2.33	2.38	22.86
127481	29/07/1998	2.30	2.35	22.89
127481	20/08/1998	2.15	2.20	23.04
127481	22/09/1998	2.20	2.25	22.99
127481	28/10/1998	2.12	2.17	23.07
127481	19/11/1998	2.10	2.15	23.09
127481	16/12/1998	2.20	2.25	22.99
127481	28/01/1999	2.35	2.40	22.84
127481	24/02/1999	2.45	2.50	22.74
127481	26/03/1999	2.60	2.65	22.59
127481	30/04/1999	2.60	2.65	22.59
127481	27/05/1999	2.53	2.58	22.66
127481	28/06/1999	2.35	2.40	22.84
127481	17/08/1999	2.30	2.35	22.89
127481	30/11/1999	2.32	2.37	22.87
127481	28/02/2000	2.60	2.65	22.59
127481	30/05/2000	2.50	2.55	22.69
127481	23/08/2000	2.20	2.25	22.99
127481	13/11/2000	1.96	2.01	23.23
127481	23/02/2001	2.33	2.38	22.86
127481	5/06/2001	2.38	2.43	22.81
127481	7/08/2001	2.15	2.20	23.04
127481	28/11/2001	2.09	2.14	23.10
127481	28/02/2002	2.37	2.42	22.82
127481	17/05/2002	2.67	2.72	22.52
127481	19/08/2002	2.54	2.59	22.65
127481	27/11/2002	2.65	2.70	22.54
127481	27/02/2003	2.93	2.98	22.26
127481	28/05/2003	2.94	2.99	22.25
127481	27/08/2003	2.53	2.58	22.66
127481	25/11/2003	2.34	2.39	22.85
127481	24/02/2004	2.66	2.71	22.53
127481	26/05/2004	2.88	2.93	22.31
127481	31/08/2004	2.29	2.34	22.90
127481	26/11/2004	2.02	2.07	23.17
127481	15/02/2005	2.20	2.25	22.99
127481	19/05/2005	2.66	2.71	22.53
127481	24/08/2005	2.27	2.32	22.92
127481	23/11/2005	2.10	2.15	23.09
127481	22/02/2006	2.42	2.47	22.77
127481	25/05/2006	2.34	2.39	22.85
127481	23/08/2006	2.25	2.30	22.94
127481	14/11/2006	2.39	2.44	22.80
127481	21/02/2007	2.95	3.00	22.24
127481	16/05/2007	3.45	3.50	21.74
127481	28/08/2007	2.57	2.62	22.62
127481	26/11/2007	2.75	2.80	22.44

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
127481	25/02/2008	2.97	3.02	22.22
127481	29/05/2008	3.08	3.13	22.11
127481	25/08/2008	2.67	2.72	22.52
127481	24/11/2008	2.97	3.02	22.22
127481	23/02/2009	3.20	3.25	21.99
127481	28/05/2009	3.05	3.10	22.14
127481	24/08/2009	3.02	3.07	22.17
127481	30/11/2009	2.74	2.79	22.45
127481	9/02/2010	3.13	3.18	22.06
127481	26/05/2010	2.84	2.89	22.35
127481	25/08/2010	2.28	2.33	22.91
127481	22/11/2010	1.98	2.03	23.21
127481	28/02/2011	1.84	1.89	23.35
127481	26/05/2011	1.91	1.96	23.28
127481	24/08/2011	1.97	2.02	23.22
127481	22/11/2011	1.77	1.82	23.42
127481	29/02/2012	2.18	2.23	23.01
127481	25/05/2012	2.29	2.34	22.90
127481	28/08/2012	1.77	1.82	23.42
127481	29/11/2012	1.92	1.97	23.27
127481	27/02/2013	2.65	2.70	22.54
127481	28/05/2013	2.93	2.98	22.26
127481	26/08/2013	2.18	2.23	23.01
127481	25/11/2013	1.95	2.00	23.24
127481	26/02/2014	2.52	2.57	22.67
127481	28/05/2014	2.59	2.64	22.60
127481	27/08/2014	2.40	2.45	22.79
127481	26/11/2014	2.54	2.59	22.65
127481	23/02/2015	2.83	2.88	22.36
127481	26/05/2015	3.02	3.07	22.17
127481	25/08/2015	2.71	2.76	22.48
127481	27/11/2015	2.64	2.69	22.55
127481	23/02/2016	3.01	3.06	22.18
81435	16/12/1976	4.91	42.01	28.56
81435	16/03/1977	5.62	5.25	27.85
81435	5/07/1977	4.60	4.23	28.87
81435	12/10/1977	4.91	4.54	28.56
81435	25/01/1978	5.38	5.01	28.09
81435	18/09/1978	3.95	3.58	29.52
81435	9/01/1980	7.35	6.98	26.12
81435	27/01/1981	8.62	8.25	24.85
81435	22/11/1982	8.55	8.18	24.92
81435	3/04/1983	9.09	8.72	24.38
81435	10/08/1983	9.22	8.85	24.25
81435	2/04/1984	8.96	8.59	24.51
81435	15/03/1985	9.12	8.75	24.35
81435	24/09/1985	8.88	8.51	24.59
109632	27/09/1973	7.06	41.51	27.44
109632	28/11/1973	6.90	6.85	27.60
109632	16/01/1974	6.79	6.74	27.71
109632	26/02/1974	6.64	6.59	27.86
109632	22/03/1974	6.59	6.54	27.91

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
109632	23/04/1974	6.28	6.23	28.22
109632	30/05/1974	5.81	5.76	28.69
109633	27/09/1973	9.24	43.69	25.26
109633	28/11/1973	9.18	9.13	25.32
109633	16/01/1974	9.30	9.25	25.20
109633	26/02/1974	9.48	9.43	25.02
109633	22/03/1974	9.46	9.41	25.04
109633	23/04/1974	9.30	9.25	25.20
109633	30/05/1974	9.05	9.00	25.45
127487	28/05/1996	3.65	3.70	20.48
127487	3/12/1996	3.49	3.54	20.64
127487	24/12/1996	3.51	3.56	20.62
127487	22/01/1997	3.58	3.63	20.55
127487	21/02/1997	3.50	3.55	20.63
127487	20/03/1997	3.60	3.65	20.53
127487	24/04/1997	3.65	3.70	20.48
127487	15/05/1997	3.75	3.80	20.38
127487	27/06/1997	3.70	3.75	20.43
127487	29/07/1997	3.84	3.89	20.29
127487	23/09/1997	4.00	4.05	20.13
127487	13/11/1997	4.02	4.07	20.11
127487	10/12/1997	4.00	4.05	20.13
127487	13/01/1998	4.02	4.07	20.11
127487	26/02/1998	3.90	3.95	20.23
127487	24/03/1998	4.10	4.15	20.03
127487	28/04/1998	4.10	4.15	20.03
127487	28/05/1998	4.20	4.25	19.93
127487	25/06/1998	4.22	4.27	19.91
127487	29/07/1998	4.10	4.15	20.03
127487	20/08/1998	4.40	4.45	19.73
127487	22/09/1998	4.30	4.35	19.83
127487	26/10/1998	4.26	4.31	19.87
127487	19/11/1998	4.40	4.45	19.73
127487	16/12/1998	4.30	4.35	19.83
127487	28/01/1999	4.20	4.25	19.93
127487	24/02/1999	4.25	4.30	19.88
127487	26/03/1999	4.20	4.25	19.93
127487	30/04/1999	4.30	4.35	19.83
127487	27/05/1999	4.30	4.35	19.83
127487	28/06/1999	4.45	4.50	19.68
127487	17/08/1999	4.43	4.48	19.70
127487	30/11/1999	4.43	4.48	19.70
127487	28/02/2000	4.43	4.48	19.70
127487	30/05/2000	4.45	4.50	19.68
127487	23/08/2000	4.42	4.47	19.71
127487	13/11/2000	4.44	4.49	19.69
127487	23/02/2001	4.10	4.15	20.03
127487	15/05/2001	4.43	4.48	19.70
127487	7/08/2001	4.47	4.52	19.66
127487	28/11/2001	4.52	4.57	19.61
127487	28/02/2002	4.40	4.45	19.73
127487	17/05/2002	4.57	4.62	19.56

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
127487	19/08/2002	4.65	4.70	19.48
127487	27/11/2002	4.76	4.81	19.37
127487	27/02/2003	4.73	4.78	19.40
127487	28/05/2003	4.90	4.95	19.23
127487	27/08/2003	5.19	5.24	18.94
127487	25/11/2003	4.98	5.03	19.15
127487	24/02/2004	5.05	5.10	19.08
127487	26/05/2004	5.08	5.13	19.05
127487	31/08/2004	5.17	5.22	18.96
127487	26/11/2004	5.12	5.17	19.01
127487	15/02/2005	4.84	4.89	19.29
127487	19/05/2005	4.95	5.00	19.18
127487	14/11/2006	4.68	4.73	19.45
127487	23/02/2009	6.18	6.23	17.95
127487	28/05/2009	6.36	6.41	17.77
127487	24/08/2009	6.26	6.31	17.87
127487	3/12/2009	6.48	6.53	17.65
127487	9/02/2010	6.43	6.48	17.70
127487	24/05/2010	6.48	6.53	17.65
127487	25/08/2010	6.38	6.43	17.75
127487	22/11/2010	6.28	6.33	17.85
127487	28/02/2011	5.76	5.81	18.37
127487	25/05/2011	5.70	5.75	18.43
127487	24/08/2011	5.68	5.73	18.45
127487	22/11/2011	5.35	5.40	18.78
127487	29/02/2012	5.25	5.30	18.88
127487	24/05/2012	5.33	5.38	18.80
127487	28/08/2012	5.08	5.13	19.05
127487	29/11/2012	4.97	5.02	19.16
127487	26/02/2013	5.11	5.16	19.02
127487	28/05/2013	5.42	5.47	18.71
127487	26/08/2013	5.35	5.40	18.78
127487	25/11/2013	5.17	5.22	18.96
127487	26/02/2014	5.14	5.19	18.99
127487	28/05/2014	5.28	5.33	18.85
127487	27/08/2014	5.49	5.54	18.64
127487	26/11/2014	5.44	5.49	18.69
127487	23/02/2015	5.46	5.51	18.67
127487	26/05/2015	5.74	5.79	18.39
127487	25/08/2015	5.79	5.84	18.34
127487	27/11/2015	5.72	5.77	18.41
127487	23/02/2016	5.74	5.79	18.39
125274	29/01/1995	0.20	0.20	22.52
125274	10/04/1995	0.21	0.21	22.51
125274	19/05/1995	0.30	0.30	22.42
125274	22/11/1995	0.58	0.58	22.14
125274	28/05/1996	0.18	0.18	22.54
125274	3/12/1996	0.06	0.06	22.66
125274	24/12/1996	0.05	0.05	22.67
125274	21/02/1997	0.35	0.35	22.37
125274	24/04/1997	0.27	0.27	22.45
125274	15/05/1997	0.45	0.45	22.27

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
125274	27/06/1997	0.45	0.45	22.27
125274	29/07/1997	0.59	0.59	22.13
125274	22/09/1997	0.46	0.46	22.26
125274	13/11/1997	0.40	0.40	22.32
125274	10/12/1997	0.12	0.12	22.60
125274	26/02/1998	0.40	0.40	22.32
125274	24/03/1998	0.55	0.55	22.17
125274	28/04/1998	0.70	0.70	22.02
125274	28/05/1998	0.70	0.70	22.02
125274	25/06/1998	0.70	0.70	22.02
125274	29/07/1998	0.65	0.65	22.07
125274	20/08/1998	0.70	0.70	22.02
125274	22/09/1998	0.62	0.62	22.10
125274	26/10/1998	0.69	0.69	22.03
125274	19/11/1998	0.60	0.60	22.12
125274	16/12/1998	0.60	0.60	22.12
125274	28/01/1999	0.55	0.55	22.17
125274	24/02/1999	0.55	0.55	22.17
125274	26/03/1999	0.60	0.60	22.12
125274	30/04/1999	0.64	0.64	22.08
125274	27/05/1999	0.63	0.63	22.09
125274	28/06/1999	0.99	0.99	21.73
125274	17/08/1999	0.93	0.93	21.79
125274	30/11/1999	0.81	0.81	21.91
125274	28/02/2000	0.66	0.66	22.06
125274	30/05/2000	0.70	0.70	22.02
125274	23/08/2000	0.76	0.76	21.96
125274	13/11/2000	0.80	0.80	21.92
125274	23/02/2001	0.40	0.40	22.32
125274	15/05/2001	0.90	0.90	21.82
125274	7/08/2001	0.90	0.90	21.82
125274	28/11/2001	0.73	0.73	21.99
125274	28/02/2002	0.76	0.76	21.96
125274	17/05/2002	0.94	0.94	21.78
125274	19/08/2002	1.01	1.01	21.71
125274	27/11/2002	1.09	1.09	21.63
125274	20/03/2003	1.31	1.31	21.41
125274	28/05/2003	1.60	1.60	21.12
125274	27/08/2003	1.50	1.50	21.22
125274	25/11/2003	1.26	1.26	21.46
125274	24/02/2004	1.31	1.31	21.41
125274	26/05/2004	1.61	1.61	21.11
125274	31/08/2004	1.42	1.42	21.30
125274	26/11/2004	1.29	1.29	21.43
125274	15/02/2005	1.19	1.19	21.53
125274	19/05/2005	1.29	1.29	21.43
125274	24/08/2005	1.42	1.42	21.30
125274	22/11/2005	1.29	1.29	21.43
125274	22/02/2006	1.35	1.35	21.37
125274	25/05/2006	1.43	1.43	21.29
125274	23/08/2006	1.60	1.60	21.12
125274	14/11/2006	1.50	1.50	21.22

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
125274	21/02/2007	1.64	1.64	21.08
125274	16/05/2007	2.01	2.01	20.71
125274	28/08/2007	2.10	2.10	20.62
125274	26/11/2007	2.10	2.10	20.62
125274	25/02/2008	2.05	2.05	20.67
125274	29/05/2008	2.50	2.50	20.22
125274	25/08/2008	2.50	2.50	20.22
125274	24/11/2008	2.42	2.42	20.30
125274	23/02/2009	2.56	2.56	20.16
125274	28/05/2009	2.81	2.81	19.91
125274	24/08/2009	2.56	2.56	20.16
125274	3/12/2009	2.76	2.76	19.96
125274	10/02/2010	2.77	2.77	19.95
125274	26/05/2010	2.90	2.90	19.82
125274	25/08/2010	2.71	2.71	20.01
125274	22/11/2010	2.39	2.39	20.33
125274	28/02/2011	1.60	1.60	21.12
125274	25/05/2011	1.58	1.58	21.14
125274	24/08/2011	1.49	1.49	21.23
125274	22/11/2011	1.05	1.05	21.67
125274	29/02/2012	1.09	1.09	21.63
125274	24/05/2012	1.31	1.31	21.41
125274	28/08/2012	0.96	0.96	21.76
125274	29/11/2012	0.73	0.73	21.99
125274	26/02/2013	1.07	1.07	21.65
125274	28/05/2013	1.46	1.46	21.26
125274	26/08/2013	1.33	1.33	21.39
125274	25/11/2013	1.04	1.04	21.68
125274	26/02/2014	1.14	1.14	21.58
125274	28/05/2014	1.43	1.43	21.29
125274	27/08/2014	1.54	1.54	21.18
125274	26/11/2014	1.45	1.45	21.27
125274	23/02/2015	1.54	1.54	21.18
125274	26/05/2015	1.92	1.92	20.80
125274	25/08/2015	1.83	1.83	20.89
125274	27/11/2015	1.76	1.76	20.96
125274	23/02/2016	1.89	1.89	20.83
81795	3/10/1996	3.83	-	-
125273	26/01/1995	4.15	4.15	21.96
125273	10/04/1995	4.15	4.15	21.96
125273	19/05/1995	4.28	4.28	21.83
125273	21/11/1995	4.19	4.19	21.92
125273	28/05/1996	4.13	4.13	21.98
125273	30/09/1996	3.86	3.86	22.25
125273	3/12/1996	4.05	4.05	22.06
125273	24/12/1996	4.05	4.05	22.06
125273	22/01/1997	4.06	4.06	22.05
125273	21/02/1997	4.00	4.00	22.11
125273	24/04/1997	4.10	4.10	22.01
125273	15/05/1997	4.60	4.60	21.51
125273	27/06/1997	4.40	4.40	21.71
125273	29/07/1997	4.53	4.53	21.58

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
125273	22/09/1997	4.54	4.54	21.57
125273	13/11/1997	4.52	4.52	21.59
125273	10/12/1997	4.55	4.55	21.56
125273	13/01/1998	4.50	4.50	21.61
125273	26/02/1998	4.40	4.40	21.71
125273	24/03/1998	4.50	4.50	21.61
125273	28/04/1998	4.55	4.55	21.56
125273	28/05/1998	4.60	4.60	21.51
125273	25/06/1998	4.60	4.60	21.51
125273	29/07/1998	4.55	4.55	21.56
125273	20/08/1998	4.85	4.85	21.26
125273	22/09/1998	4.80	4.80	21.31
125273	26/10/1998	4.78	4.78	21.33
125273	19/11/1998	4.90	4.90	21.21
125273	16/12/1998	4.80	4.80	21.31
125273	28/01/1999	4.70	4.70	21.41
125273	24/02/1999	4.70	4.70	21.41
125273	26/03/1999	4.70	4.70	21.41
125273	30/04/1999	4.80	4.80	21.31
125273	27/05/1999	4.80	4.80	21.31
125273	28/06/1999	5.08	5.08	21.03
125273	17/08/1999	5.04	5.04	21.07
125273	30/11/1999	4.93	4.93	21.18
125273	28/02/2000	5.00	5.00	21.11
125273	30/05/2000	5.00	5.00	21.11
125273	23/08/2000	5.00	5.00	21.11
125273	13/11/2000	5.07	5.07	21.04
125273	23/02/2001	4.70	4.70	21.41
125273	15/05/2001	4.91	4.91	21.20
125273	7/08/2001	4.98	4.98	21.13
125273	28/11/2001	5.11	5.11	21.00
125273	28/02/2002	5.07	5.07	21.04
125273	17/05/2002	5.07	5.07	21.04
125273	19/08/2002	5.31	5.31	20.80
125273	27/11/2002	5.40	5.40	20.71
125273	27/02/2003	5.32	5.32	20.79
125273	20/03/2003	5.35	5.35	20.76
125273	28/05/2003	5.65	5.65	20.46
125273	27/08/2003	5.76	5.76	20.35
125273	25/11/2003	5.74	5.74	20.37
125273	24/02/2004	5.63	5.63	20.48
125273	26/05/2004	5.69	5.69	20.42
125273	31/08/2004	5.70	5.70	20.41
125273	26/11/2004	5.76	5.76	20.35
125273	15/02/2005	5.61	5.61	20.50
125273	19/05/2005	5.56	5.56	20.55
125273	24/08/2005	5.83	5.83	20.28
125273	22/11/2005	5.74	5.74	20.37
125273	22/02/2006	5.70	5.70	20.41
125273	25/05/2006	5.69	5.69	20.42
125273	23/08/2006	5.79	5.79	20.32
125273	14/11/2006	5.83	5.83	20.28

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
125273	21/02/2007	5.95	5.95	20.16
125273	16/05/2007	6.00	6.00	20.11
125273	28/08/2007	6.21	6.21	19.90
125273	26/11/2007	6.36	6.36	19.75
125273	25/02/2008	6.32	6.32	19.79
125273	29/05/2008	6.52	6.52	19.59
125273	25/08/2008	6.69	6.69	19.42
125273	24/11/2008	6.54	6.54	19.57
125273	23/02/2009	6.62	6.62	19.49
125273	28/05/2009	6.77	6.77	19.34
125273	24/08/2009	6.69	6.69	19.42
125273	3/12/2009	7.02	7.02	19.09
125273	25/08/2010	6.92	6.92	19.19
125273	22/11/2010	7.02	7.02	19.09
125273	28/02/2011	6.58	6.58	19.53
125273	25/05/2011	6.41	6.41	19.70
125273	24/08/2011	6.38	6.38	19.73
125273	22/11/2011	6.08	6.08	20.03
125273	29/02/2012	5.87	5.87	20.24
125273	24/05/2012	5.85	5.85	20.26
125273	28/08/2012	5.77	5.77	20.34
125273	29/11/2012	5.55	5.55	20.56
125273	26/02/2013	5.57	5.57	20.54
125273	28/05/2013	5.76	5.76	20.35
125273	26/08/2013	5.83	5.83	20.28
125273	25/11/2013	5.70	5.70	20.41
125273	26/02/2014	5.62	5.62	20.49
125273	28/05/2014	5.65	5.65	20.46
125273	27/08/2014	5.95	5.95	20.16
125273	26/11/2014	5.93	5.93	20.18
125273	23/02/2015	5.88	5.88	20.23
125273	26/05/2015	6.11	6.11	20.00
125273	25/08/2015	6.23	6.23	19.88
125273	27/11/2015	6.20	6.20	19.91
125273	23/02/2016	6.20	6.20	19.91
125272	26/01/1995	7.00	7.00	19.11
125272	10/04/1995	6.40	6.40	19.71
125272	19/05/1995	6.58	6.58	19.53
125272	21/11/1995	6.27	6.27	19.84
125272	28/05/1996	6.20	6.20	19.91
125272	30/09/1996	6.01	6.01	20.10
125272	3/12/1996	6.00	6.00	20.11
125272	24/12/1996	6.05	6.05	20.06
125272	22/01/1997	6.11	6.11	20.00
125272	21/02/1997	6.10	6.10	20.01
125272	24/04/1997	6.20	6.20	19.91
125272	15/05/1997	6.37	6.37	19.74
125272	27/06/1997	6.40	6.40	19.71
125272	29/07/1997	6.50	6.50	19.61
125272	22/09/1997	6.49	6.49	19.62
125272	13/11/1997	6.53	6.53	19.58
125272	10/12/1997	6.55	6.55	19.56

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
125272	13/01/1998	6.58	6.58	19.53
125272	26/02/1998	6.65	6.65	19.46
125272	24/03/1998	6.70	6.70	19.41
125272	28/04/1998	6.75	6.75	19.36
125272	28/05/1998	6.80	6.80	19.31
125272	25/06/1998	6.75	6.75	19.36
125272	29/07/1998	6.75	6.75	19.36
125272	20/08/1998	6.80	6.80	19.31
125272	22/09/1998	6.80	6.80	19.31
125272	26/10/1998	6.76	6.76	19.35
125272	19/11/1998	6.70	6.70	19.41
125272	16/12/1998	6.75	6.75	19.36
125272	28/01/1999	6.70	6.70	19.41
125272	24/02/1999	6.70	6.70	19.41
125272	26/03/1999	6.70	6.70	19.41
125272	30/04/1999	6.75	6.75	19.36
125272	27/05/1999	6.80	6.80	19.31
125272	28/06/1999	6.88	6.88	19.23
125272	17/08/1999	6.84	6.84	19.27
125272	30/11/1999	6.74	6.74	19.37
125272	28/02/2000	6.76	6.76	19.35
125272	30/05/2000	6.80	6.80	19.31
125272	23/08/2000	6.80	6.80	19.31
125272	13/11/2000	6.74	6.74	19.37
125272	23/02/2001	6.50	6.50	19.61
125272	15/05/2001	6.80	6.80	19.31
125272	7/08/2001	6.83	6.83	19.28
125272	28/11/2001	6.75	6.75	19.36
125272	28/02/2002	6.74	6.74	19.37
125272	17/05/2002	6.81	6.81	19.30
125272	19/08/2002	6.89	6.89	19.22
125272	27/11/2002	7.01	7.01	19.10
125272	27/02/2003	7.08	7.08	19.03
125272	20/03/2003	7.09	7.09	19.02
125272	28/05/2003	7.19	7.19	18.92
125272	27/08/2003	7.15	7.15	18.96
125272	25/11/2003	7.12	7.12	18.99
125272	24/02/2004	7.05	7.05	19.06
125272	26/05/2004	7.16	7.16	18.95
125272	31/08/2004	7.16	7.16	18.95
125272	26/11/2004	7.02	7.02	19.09
125272	15/02/2005	6.95	6.95	19.16
125272	19/05/2005	6.91	6.91	19.20
125272	24/08/2005	7.23	7.23	18.88
125272	22/11/2005	7.14	7.14	18.97
125272	22/02/2006	7.18	7.18	18.93
125272	25/05/2006	7.18	7.18	18.93
125272	23/08/2006	7.19	7.19	18.92
125272	14/11/2006	7.29	7.29	18.82
125272	21/02/2007	7.57	7.57	18.54
125272	16/05/2007	7.34	7.34	18.77
125272	28/08/2007	7.58	7.58	18.53

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
125272	26/11/2007	7.49	7.49	18.62
125272	25/02/2008	7.59	7.59	18.52
125272	29/05/2008	7.83	7.83	18.28
125272	25/08/2008	7.80	7.80	18.31
125272	24/11/2008	7.85	7.85	18.26
125272	23/02/2009	7.91	7.91	18.20
125272	28/05/2009	7.86	7.86	18.25
125272	24/08/2009	7.83	7.83	18.28
125272	3/12/2009	7.86	7.86	18.25
125272	25/08/2010	7.57	7.57	18.54
125272	22/11/2010	7.52	7.52	18.59
125272	28/02/2011	7.31	7.31	18.80
125272	25/05/2011	7.01	7.01	19.10
125272	24/08/2011	6.90	6.90	19.21
125272	22/11/2011	6.64	6.64	19.47
125272	29/02/2012	7.39	7.39	18.72
125272	24/05/2012	6.94	6.94	19.17
125272	28/08/2012	6.43	6.43	19.68
125272	29/11/2012	6.50	6.50	19.61
125272	26/02/2013	7.47	7.47	18.64
125272	28/05/2013	6.90	6.90	19.21
125272	26/08/2013	6.62	6.62	19.49
125272	25/11/2013	6.77	6.77	19.34
125272	26/02/2014	7.16	7.16	18.95
125272	28/05/2014	6.87	6.87	19.24
125272	27/08/2014	6.83	6.83	19.28
125272	26/11/2014	6.98	6.98	19.13
125272	23/02/2015	7.13	7.13	18.98
125272	26/05/2015	7.09	7.09	19.02
125272	25/08/2015	7.05	7.05	19.06
125272	27/11/2015	7.16	7.16	18.95
125272	23/02/2016	7.35	7.35	18.76
125270	10/04/1995	5.19	5.19	22.07
125270	19/05/1995	5.21	5.21	22.05
125270	22/11/1995	5.30	5.30	21.96
125270	28/05/1996	5.17	5.17	22.09
125270	27/09/1996	5.14	5.14	22.12
125270	30/09/1996	5.08	5.08	22.18
125270	3/12/1996	5.10	5.10	22.16
125270	24/12/1996	5.21	5.21	22.05
125270	22/01/1997	5.25	5.25	22.01
125270	21/02/1997	5.20	5.20	22.06
125270	24/04/1997	5.40	5.40	21.86
125270	15/05/1997	5.56	5.56	21.70
125270	27/06/1997	5.55	5.55	21.71
125270	29/07/1997	5.70	5.70	21.56
125270	22/09/1997	5.84	5.84	21.42
125270	13/11/1997	5.37	5.37	21.89
125270	10/12/1997	5.35	5.35	21.91
125270	13/01/1998	5.29	5.29	21.97
125270	26/02/1998	5.30	5.30	21.96
125270	24/03/1998	5.30	5.30	21.96

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
125270	28/04/1998	5.70	5.70	21.56
125270	28/05/1998	5.80	5.80	21.46
125270	25/06/1998	5.75	5.75	21.51
125270	29/07/1998	5.72	5.72	21.54
125270	20/08/1998	5.90	5.90	21.36
125270	22/09/1998	6.00	6.00	21.26
125270	26/10/1998	5.95	5.95	21.31
125270	19/11/1998	5.90	5.90	21.36
125270	16/12/1998	5.86	5.86	21.40
125270	28/01/1999	5.85	5.85	21.41
125270	24/02/1999	5.80	5.80	21.46
125270	26/03/1999	5.75	5.75	21.51
125270	30/04/1999	5.80	5.80	21.46
125270	27/05/1999	5.80	5.80	21.46
125270	28/06/1999	5.99	5.99	21.27
125270	17/08/1999	5.96	5.96	21.30
125270	30/11/1999	5.64	5.64	21.62
125270	28/02/2000	5.64	5.64	21.62
125270	30/05/2000	5.60	5.60	21.66
125270	23/08/2000	5.70	5.70	21.56
125270	13/11/2000	5.75	5.75	21.51
125270	23/02/2001	5.30	5.30	21.96
125270	15/05/2001	5.51	5.51	21.75
125270	7/08/2001	5.58	5.58	21.68
125270	28/11/2001	5.65	5.65	21.61
125270	28/02/2002	5.55	5.55	21.71
125270	17/05/2002	5.45	5.45	21.81
125270	19/08/2002	5.76	5.76	21.50
125270	27/11/2002	5.69	5.69	21.57
125270	27/02/2003	5.67	5.67	21.59
125270	20/03/2003	5.47	5.47	21.79
125270	28/05/2003	5.96	5.96	21.30
125270	27/08/2003	6.02	6.02	21.24
125270	25/11/2003	6.07	6.07	21.19
125270	24/02/2004	5.99	5.99	21.27
125270	26/05/2004	6.06	6.06	21.20
125270	31/08/2004	6.05	6.05	21.21
125270	26/11/2004	6.14	6.14	21.12
125270	15/02/2005	5.97	5.97	21.29
125270	19/05/2005	5.91	5.91	21.35
125270	24/08/2005	6.35	6.35	20.91
125270	22/11/2005	6.28	6.28	20.98
125270	22/02/2006	6.25	6.25	21.01
125270	25/05/2006	6.28	6.28	20.98
125270	23/08/2006	6.52	6.52	20.74
125270	14/11/2006	6.40	6.40	20.86
125270	21/02/2007	6.53	6.53	20.73
125270	16/05/2007	6.60	6.60	20.66
125270	28/08/2007	6.80	6.80	20.46
125270	26/11/2007	6.93	6.93	20.33
125270	25/02/2008	6.70	6.70	20.56
125270	29/05/2008	7.11	7.11	20.15

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
125270	25/08/2008	7.23	7.23	20.03
125270	24/11/2008	7.20	7.20	20.06
125270	23/02/2009	7.39	7.39	19.87
125270	28/05/2009	7.35	7.35	19.91
125270	25/08/2009	7.31	7.31	19.95
125270	1/12/2009	7.47	7.47	19.79
125270	9/02/2010	7.60	7.60	19.66
125270	24/05/2010	7.63	7.63	19.63
125270	25/08/2010	7.38	7.38	19.88
125270	22/11/2010	7.43	7.43	19.83
125270	28/02/2011	7.11	7.11	20.15
125270	25/05/2011	6.78	6.78	20.48
125270	24/08/2011	6.75	6.75	20.51
125270	22/11/2011	6.50	6.50	20.76
125270	29/02/2012	6.59	6.59	20.67
125270	24/05/2012	6.59	6.59	20.67
125270	28/08/2012	6.17	6.17	21.09
125270	29/11/2012	6.25	6.25	21.01
125270	26/02/2013	6.44	6.44	20.82
125270	28/05/2013	6.38	6.38	20.88
125270	26/08/2013	6.25	6.25	21.01
125270	25/11/2013	6.24	6.24	21.02
125270	26/02/2014	6.47	6.47	20.79
125270	28/05/2014	6.27	6.27	20.99
125270	27/08/2014	6.38	6.38	20.88
125270	26/11/2014	6.48	6.48	20.78
125270	23/02/2015	6.55	6.55	20.71
125270	26/05/2015	6.60	6.60	20.66
125270	25/08/2015	6.59	6.59	20.67
125270	27/11/2015	6.66	6.66	20.60
125270	23/02/2016	6.84	6.84	20.42
125271	10/04/1995	3.87	3.87	23.39
125271	19/05/1995	3.95	3.95	23.31
125271	21/11/1995	3.94	3.94	23.32
125271	28/05/1996	3.88	3.88	23.38
125271	27/09/1996	3.97	3.97	23.29
125271	3/12/1996	3.82	3.82	23.44
125271	24/12/1996	3.82	3.82	23.44
125271	22/01/1997	3.81	3.81	23.45
125271	21/02/1997	3.80	3.80	23.46
125271	24/04/1997	3.88	3.88	23.38
125271	15/05/1997	4.01	4.01	23.25
125271	27/06/1997	4.10	4.10	23.16
125271	29/07/1997	4.28	4.28	22.99
125271	22/09/1997	4.35	4.35	22.91
125271	13/11/1997	4.26	4.26	23.00
125271	10/12/1997	4.30	4.30	22.96
125271	13/01/1998	4.20	4.20	23.06
125271	26/02/1998	4.10	4.10	23.16
125271	24/03/1998	4.30	4.30	22.96
125271	28/04/1998	4.30	4.30	22.96
125271	28/05/1998	4.35	4.35	22.91

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
125271	25/06/1998	4.37	4.37	22.89
125271	29/07/1998	4.32	4.32	22.94
125271	20/08/1998	4.60	4.60	22.66
125271	22/09/1998	4.50	4.50	22.76
125271	26/10/1998	4.51	4.51	22.75
125271	19/11/1998	4.60	4.60	22.66
125271	16/12/1998	4.50	4.50	22.76
125271	28/01/1999	4.50	4.50	22.76
125271	24/02/1999	4.50	4.50	22.76
125271	26/03/1999	4.50	4.50	22.76
125271	30/04/1999	4.55	4.55	22.71
125271	27/05/1999	4.55	4.55	22.71
125271	28/06/1999	4.79	4.79	22.47
125271	17/08/1999	4.80	4.80	22.46
125271	30/11/1999	4.70	4.70	22.56
125271	28/02/2000	4.70	4.70	22.56
125271	30/05/2000	4.70	4.70	22.56
125271	23/08/2000	4.70	4.70	22.56
125271	13/11/2000	4.88	4.88	22.38
125271	23/02/2001	4.44	4.44	22.82
125271	15/05/2001	4.65	4.65	22.61
125271	7/08/2001	4.74	4.74	22.52
125271	28/11/2001	4.91	4.91	22.35
125271	28/02/2002	4.83	4.83	22.43
125271	17/05/2002	4.82	4.82	22.44
125271	19/08/2002	5.08	5.08	22.18
125271	27/11/2002	5.15	5.15	22.11
125271	27/02/2003	5.05	5.05	22.21
125271	20/03/2003	5.05	5.05	22.21
125271	28/05/2003	5.40	5.40	21.86
125271	27/08/2003	5.52	5.52	21.74
125271	25/11/2003	5.53	5.53	21.73
125271	24/02/2004	5.42	5.42	21.84
125271	26/05/2004	5.44	5.44	21.82
125271	31/08/2004	5.51	5.51	21.75
125271	26/11/2004	5.53	5.53	21.73
125271	15/02/2005	5.38	5.38	21.88
125271	19/05/2005	5.32	5.32	21.94
125271	24/08/2005	5.58	5.58	21.68
125271	22/11/2005	5.51	5.51	21.75
125271	22/02/2006	5.45	5.45	21.81
125271	25/05/2006	5.41	5.41	21.85
125271	23/08/2006	5.36	5.36	21.90
125271	14/11/2006	5.58	5.58	21.68
125271	21/02/2007	5.67	5.67	21.59
125271	16/05/2007	5.69	5.69	21.57
125271	28/08/2007	5.94	5.94	21.32
125271	26/11/2007	6.12	6.12	21.14
125271	25/02/2008	6.07	6.07	21.19
125271	29/05/2008	6.24	6.24	21.02
125271	25/08/2008	6.43	6.43	20.83
125271	24/11/2008	6.32	6.32	20.94

Station	Date	Bore Water Level from MP (m)	Water level (mBGL)	Reduced water level (mAHD)
125271	23/02/2009	6.38	6.38	20.88
125271	28/05/2009	6.52	6.52	20.74
125271	25/08/2009	6.51	6.51	20.75
125271	1/12/2009	6.82	6.82	20.44
125271	9/02/2010	6.79	6.79	20.47
125271	24/05/2010	6.74	6.74	20.52
125271	25/08/2010	6.72	6.72	20.54
125271	22/11/2010	6.87	6.87	20.39
125271	28/02/2011	6.31	6.31	20.95
125271	25/05/2011	6.26	6.26	21.00
125271	24/08/2011	6.19	6.19	21.07
125271	22/11/2011	5.86	5.86	21.40
125271	29/02/2012	5.60	5.60	21.66
125271	24/05/2012	5.52	5.52	21.74
125271	28/08/2012	5.45	5.45	21.81
125271	29/11/2012	5.24	5.24	22.02
125271	26/02/2013	5.12	5.12	22.14
125271	28/05/2013	5.33	5.33	21.93
125271	26/08/2013	5.43	5.43	21.83
125271	25/11/2013	5.34	5.34	21.92
125271	26/02/2014	5.23	5.23	22.03
125271	28/05/2014	5.23	5.23	22.03
125271	27/08/2014	5.56	5.56	21.70
125271	26/11/2014	5.57	5.57	21.69
125271	23/02/2015	5.49	5.49	21.77
125271	26/05/2015	5.66	5.66	21.60
125271	25/08/2015	5.81	5.81	21.45
125271	27/11/2015	5.83	5.83	21.43
125271	23/02/2016	5.79	5.79	21.47

