

Appendix D | Flood Impact Assessment

12 October 2020



Final

Sue Savage Reserve Flood Impact Assessment

Reference No. 30012769

Prepared for Parramatta City Council

12 October 2020

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SMEC Company Details

Contact:	Gus Naghib		
Address:	Level 9, 20 Berry Street, North Sydney, 2060, NSW		
Tel:	+61 2 9925 5587	Fax:	+61 2 6234 1966
Email:	Gus.Naghib@smec.com	Website:	www.smec.com

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The findings of this report are the result of methodologies used in accordance with normal practices and standards. We consider that they represent a reasonable interpretation of the general conditions of the Site at the time they were assessed and at the time of writing this report, but under no circumstances, can it be considered that these findings represent the actual state of the Site in all areas.

In preparing this report, current guidelines for hydrologic/hydraulic assessment were followed. This work has been conducted in good faith in accordance with SMECs understanding of the client’s brief and general accepted practice for environmental consulting.

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1 Introduction

1.1 Background

SMEC was commissioned by Parramatta City Council (PCC) to carry out a flood impact assessment (FIA) for the proposed development at Sue Savage Reserve, Toongabbie, NSW.

The Sue Savage Reserve, approximately 26.1 ha in size, is located alongside Chanel St in Toongabbie, NSW. The locality plan is shown in Figure 1. Sue Savage Reserve currently consists of large open grasslands with features including a single, regularly sized outdoor basketball court and a children's playground.

The proposed development at the reserve includes a proposed skatepark on the western side of the existing basketball court, a proposed amenities buildings and public toilets on the eastern side of the basketball court, and proposed carpark on southern side of the basketball court and existing concrete footpath. These proposed changes are presented in Figure 2.

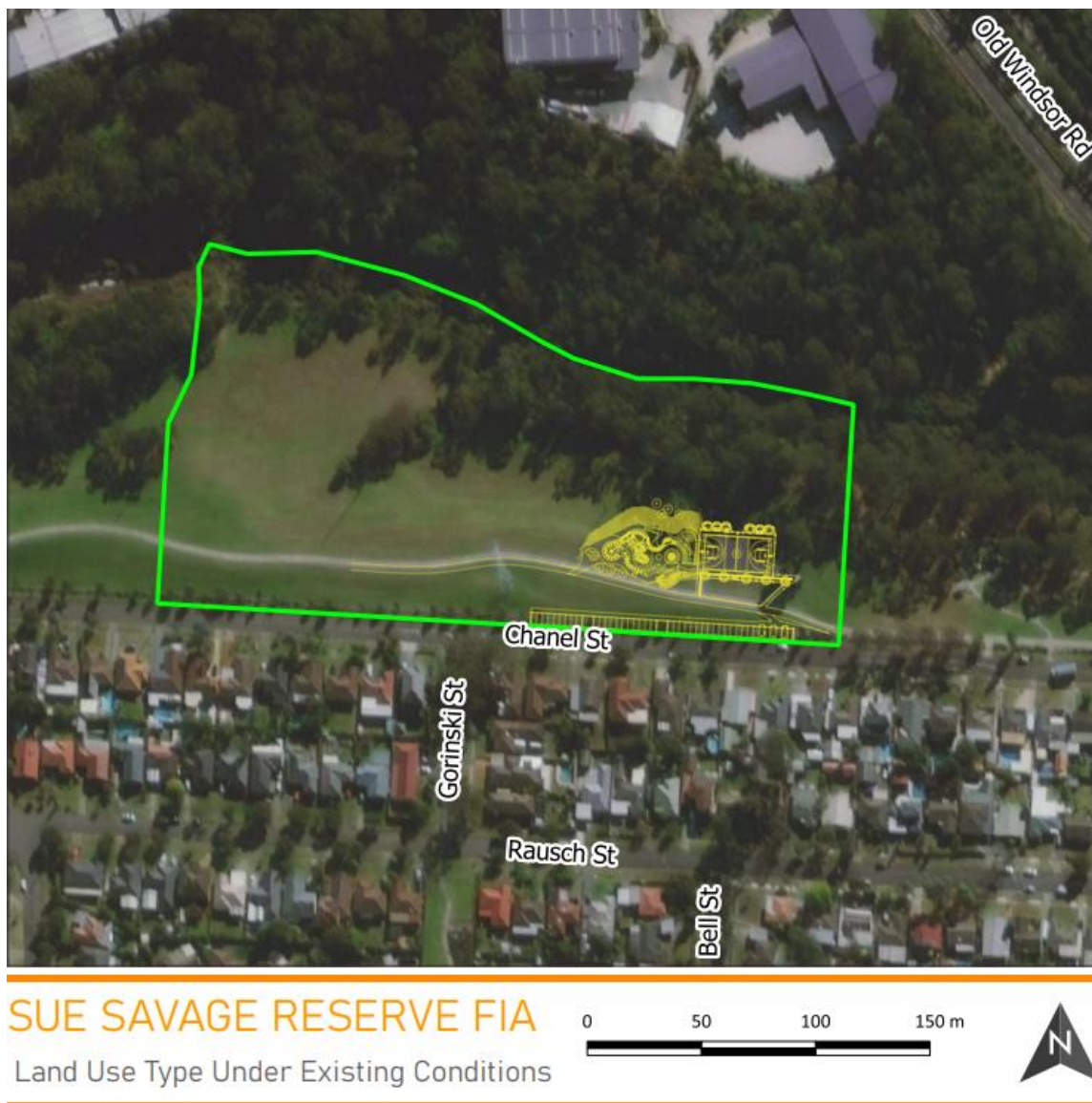


Figure 1. Site locality



Figure 2. Proposed development at the site (Source: RFQ provided by PCC)

1.2 Scope of Works

The flood impact assessment has been conducted in accordance with the original contract (dated on 27/03/2020) and approved variation proposal dated on 17/04/2020 to develop a new TUFLOW model for two storm events. As per council's Development Control Plan (DCP), the 1% Annual Exceedance Probability (AEP) and 5% AEP storm events were found suitable for this assessment. The scope of works for this study includes:

- Undertake a site visit.
- Review existing data and information.
- Truncate Council's XP-RAFTS model for the site catchment and further modify it to include ARR2019 rainfall and runoff.
- Create a new TUFLOW flood model to assess flooding under existing conditions.
- Undertake flood modelling under proposed conditions and provide two flood mitigation options.
- Produce a flood assessment report.

This flood assessment aims to understand the flood behaviour at the site and assess if the proposed development would have any adverse impacts on flooding.

2 Available Data

Several sources have been used to obtain data for the project. The following data and sources were used for this assessment include:

- 1m and 5m LiDAR Digital Elevation Models (DEM), obtained from ELVIS (<https://elevation.fsdf.org.au/>).
- Proposed development plan presented by Parramatta City Council (27/03/2020).
- Site photos captured by SMEC on a site visit dated 27/03/2020.
- Available GIS layers provided by Parramatta City Council (22/04/2020).
- An existing master XP-Rafts model obtained from Parramatta City Council (22/04/2020).
- Literature Survey of Parramatta River Catchment within Parramatta LGA, Final report by Molino Stewart Pty Ltd (2014).
- Rainfall data obtained from the Bureau of Meteorology (BoM) website.
- Australian Rainfall and Runoff (ARR) 2019 Data Hub Runoff Data.
- Survey data of site provided by Parramatta City Council (03/06/2020).
- Aerial images provided by Metro Map imagery service.

It is noted that water levels and flow data in the GIS layers provided by PCC are linked to Council's Mike 11 model.

All geographically referenced data for this project has been projected on Map Grid of Australia 1994 Zone 56 and Australian Height Datum (AHD).

3 Methodology

This flood assessment was conducted using TUFLOW and XP-RAFTS. An XP-RAFTS model was developed according to ARR 2019 to estimate the incoming runoff from upstream catchments into the subject site. A combined rainfall on grid and surface inflow method was adopted in developing the TUFLOW model. The surface inflows were applied as XP-RAFTS generated hydrographs, which were applied to the upstream catchments. A rainfall on grid was applied to the sub-catchment covering subject site. The rainfall on grid method helps understand stormwater runoff behaviour better under proposed conditions by only changing land use and introducing a proposed design surface compared to existing condition scenario.

The TUFLOW model was developed to simulate the catchment under existing and proposed scenario conditions.

3.1 Hydrology

A catchment delineation was conducted for the site and it is shown in Figure 3. The size of the catchment was identified as approximately 48 km². The existing XP-RAFTS model, provided by Council, was trimmed from the downstream location based on the delineated catchment.



SUE SAVAGE RESERVE FIA
Catchment Delineation

0 0.8 1.6 2.4 km



Figure 3. Delineated catchment

Rainfall and runoff data and parameters were downloaded from ARR Data Hub and the BoM website. The data and parameters obtained include a global initial and continuing losses and ten temporal patterns for each rainfall data under a certain AEP event and a duration. The rainfall data can be found in the Intensity Frequency Duration (IFD) table which is shown in Table 1. The data was uploaded into Storm Injector software to create design storms. Hence, Storm Injector produced ten storms corresponding to ten temporal patterns for each duration under 1% and 5%AEP storm events and further ran using the XP-RAFTS engine. According to ARR 2019 guidelines, the hydrograph corresponding to the temporal pattern that produces a peak flow close to the mean peak flow calculated from the ten temporal patterns for a certain duration is adopted as the critical storm and should be used for further hydraulic analysis.

Table 1. IFD data (ARR2019) used in the trimmed XP-RAFTS

Duration	Annual Exceedance Probability (AEP) – Rainfall Intensity (mm)					
	63.2 % AEP	50% AEP	10% AEP	5 % AEP	2 % AEP	1 % AEP
15 mins	14.2	15.9	21.4	25.2	28.8	33.7
30 mins	19.2	21.5	28.6	33.5	38.3	44.7
45 mins	22.3	24.8	32.7	38.1	43.6	50.8
1 hour	24.6	27.2	35.6	41.5	47.4	55.3
2 hours	30.9	34.0	44.1	51.2	58.5	68.7
3 hours	35.5	39.1	50.7	59	67.6	79.7
4.5 hours	41.1	45.3	59.2	69.4	79.9	94.8
6 hours	45.8	50.7	66.9	78.8	91.2	109.0
9 Hours	53.7	59.9	80.5	95.8	112.0	134.0
12 hours	60.2	67.6	92.3	111.0	130.0	156.0

As shown in Figure 4, the hydrological analysis indicated that the 9hr duration with temporal pattern 4776 is critical for the 1%AEP storm event. Also, the identified critical duration is consistent with Council's results, which are provided in GIS layers and obtained based on ARR 1987 data and methodology. Hence, the 9hr inflow hydrographs, rainfall and temporal pattern were adopted as the critical storm event to use in the TUFLOW model.

Hydrological results for the 5%AEP are shown in Figure 5, which indicates that the 1hr duration has the highest average peak flow of 173 m³/s for temporal pattern 4577. The 9hr storm duration predicted a slightly lower peak flow rate (170.8 m³/s).

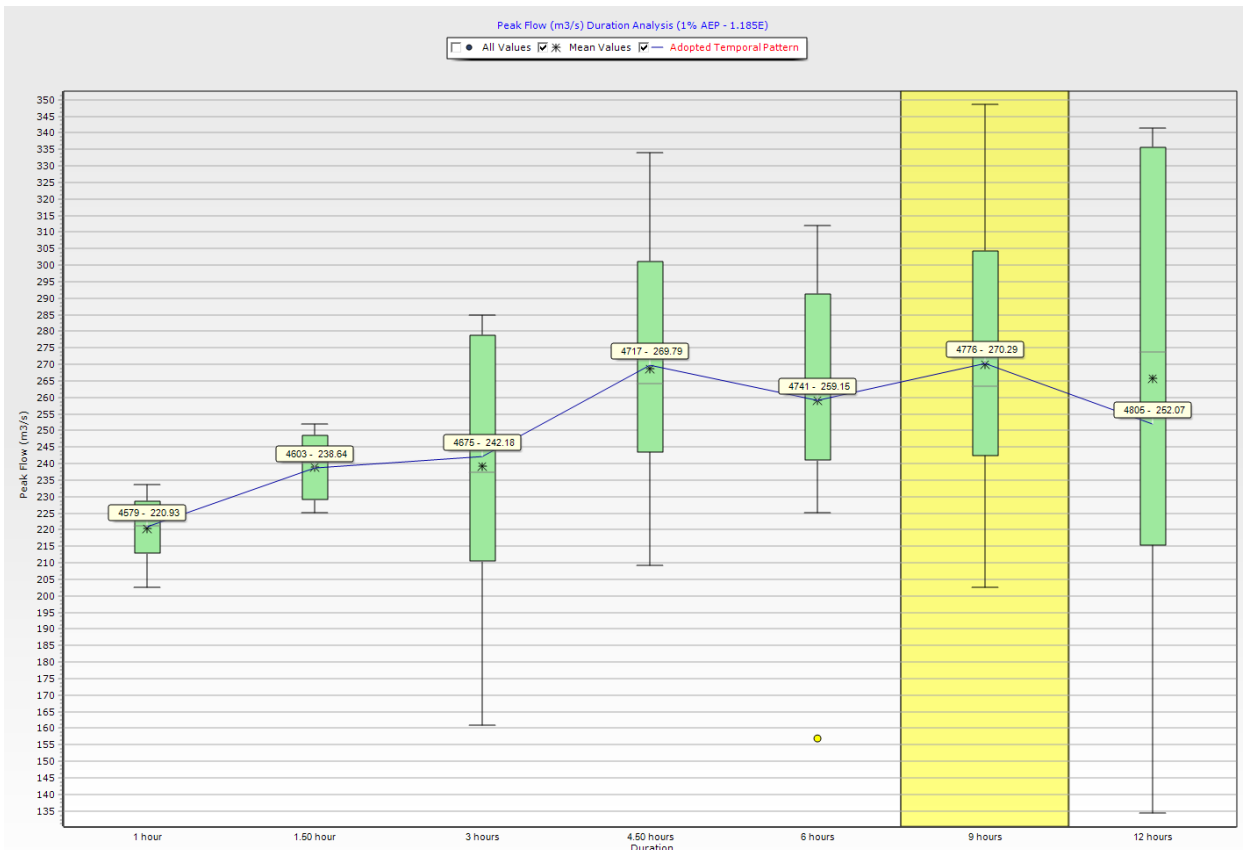


Figure 4. Critical duration and temporal pattern for the 1% AEP event

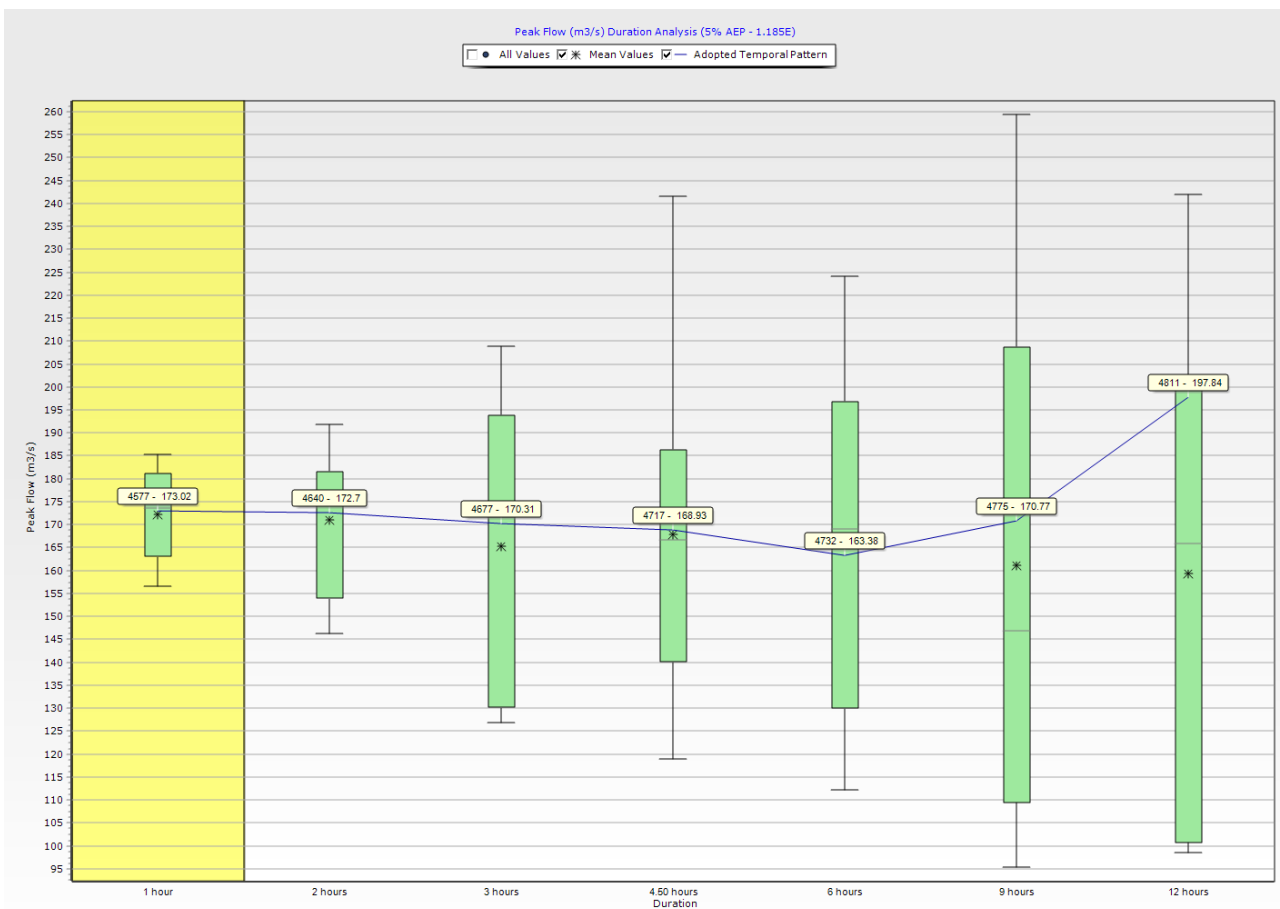


Figure 5. 5%AEP storm event results showing adopted temporal patterns for each duration

A comparison was undertaken for the adopted 1hr and 9hr duration hydrographs, as shown in Figure 6. The 9hr hydrograph results in multiple hydrograph peaks and a greater runoff volume conveyed through the catchment compared the 1hr storm event. Hence, it appears that 9hr storm would have more severe flood impacts on the proposed development compared to 1hr storm, although the peak flow corresponding to the 9hr storm (170.8 m³/s) is slightly less than that for the 1hr storm (173 m³/s). On that basis, due to characteristic of site catchment it was decided to consider 9hr as the critical duration for 5%AEP storm and further use inflow hydrographs corresponding to the temporal pattern of 4775 in our hydraulic model. It is noted that 3 m³/s as the peak flow difference would have a minimal impact on flood levels.

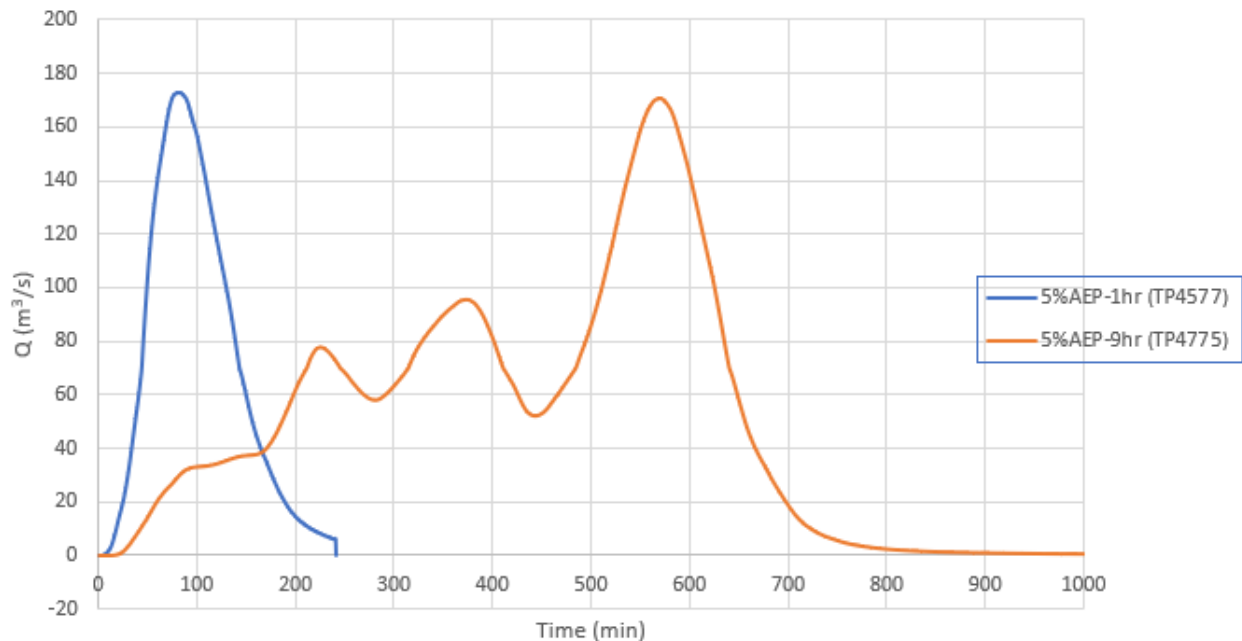


Figure 6. 1hr and 9hr hydrograph comparison under 5%AEP storm event

3.2 Hydraulics

A 2D TUFLOW hydraulic model was developed to assess flood impacts between existing and proposed conditions for the 1% and 5%AEP storm events. The TUFLOW model for existing conditions was developed first and further modified by changing land use and introducing a design surface to develop the model for proposed conditions.

3.2.1 Existing conditions

The hydraulic model boundary was determined based on the delineated sub catchment (approximately 1.1km² in size) for the site. Hence, rainfall on grid was applied within the hydraulic boundary. Further, inflow hydrographs from upstream catchments for the critical duration under 1%AEP and 5%AEP were applied within the hydraulic boundary. Also, a normal boundary condition was specified at the outlet of the hydraulic boundary. The hydraulic boundary and boundary conditions used in the hydraulic model are shown in Figure 7. It is noted that it was assumed that the flow (with approximately peak flow of 8.6 m³/s under 1%AEP event) corresponding to the catchment on the southern side of the site is conveyed totally through an existing 1800mm pipe, which discharges into Toongabbie Creek. Hence, the inflow hydrograph for the southern catchment (64.02L node in the XP-RAFTS model) was applied at the downstream invert of the pipe (within the creek) as shown in Figure 7.

To create digital terrain component of the hydraulic model under existing conditions, 1m LIDAR digital elevation model was obtained from ELVIS and a triangulated surface was created from the provided survey contours for the site. To ensure that the existing levee at the southern side of the existing basketball court was modelled accurately, a break line was defined at 26.40m according to the provided survey. A cell size of 1 m was used for the hydraulic model to balance computational run-time and accuracy of results.

Table 2 shows different values for Manning's n, initial loss, and continuous loss – which were adopted in the hydraulic model.

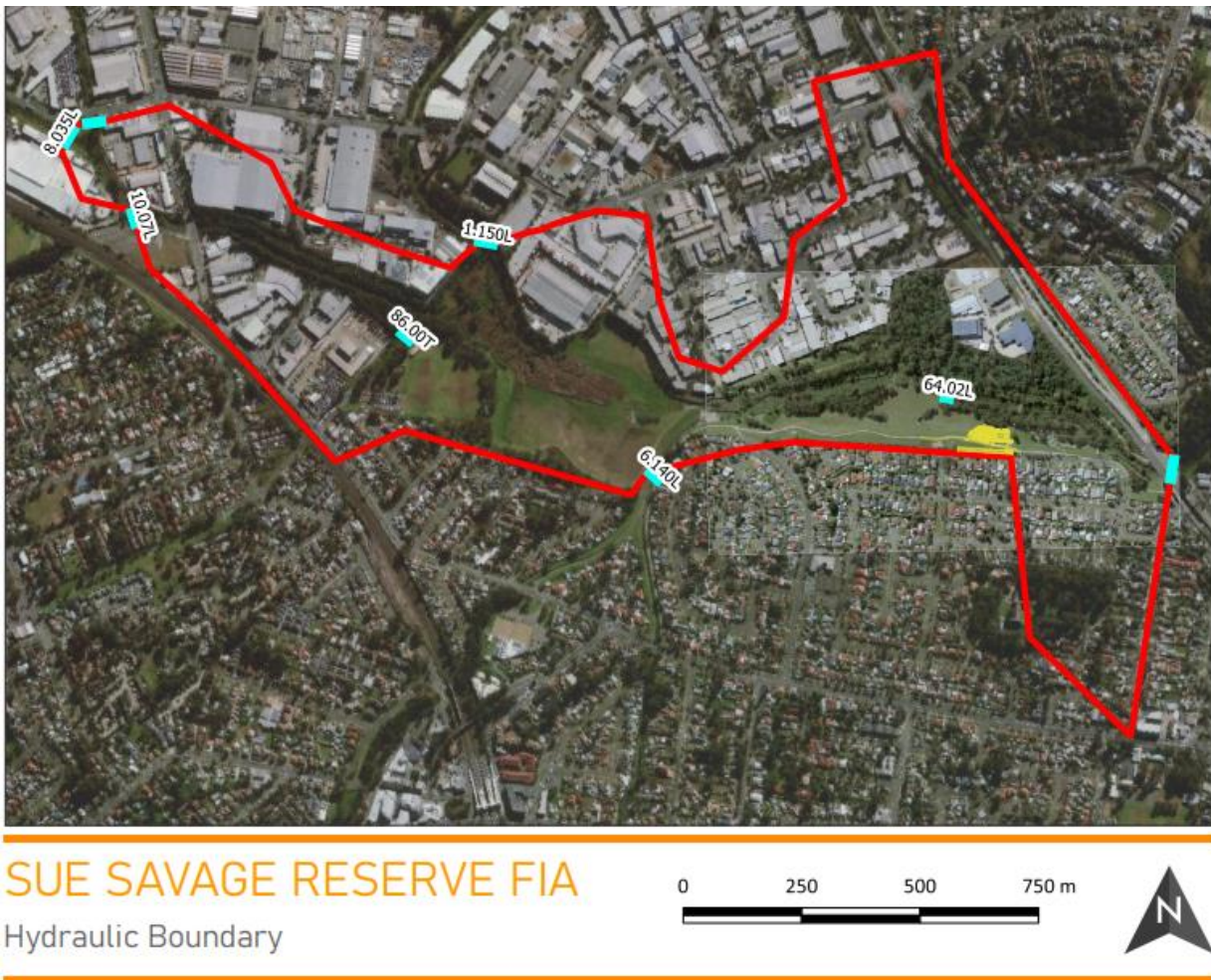


Figure 7. Hydraulic model boundary

Table 2. Hydraulic model parameters

Land use	Material ID	Manning's n	Initial loss(mm)	Continuous loss(mm)
Open space	1	0.04	3.7*	2.5
Dense vegetation	2	0.08	3.7*	2.5
Residential areas	3	0.1	1.0	0
Vegetated creek	4	0.06	3.7*	2.5
Roads and paved areas	5	0.02	1.0	0
Existing buildings	6	3.0	1.0	0

*The initial loss used for the 1%AEP storm event is 3.7mm and this value was changed to 3.85mm for 5%AEP storm event due to change to median pre-burst value.

3.2.2 Proposed conditions

The digital terrain model (DTM) for existing conditions was further modified to develop a proposed model DTM. The changes to the DTM include the addition of a 1:4 batter, as specified in the provided landscape plan, around the skate park. This was done by adding Z shape files in TUFLOW.

The materials file (representing land use) was modified for the proposed conditions to consider land use changes. These changes are shown in Figure 8 and Figure 9. The existing buildings were modelled with a high Manning’s ‘n’ value while the proposed buildings (including amenities building and a public toilet) are blocked from the hydraulic model to ensure that they won’t be flooded.

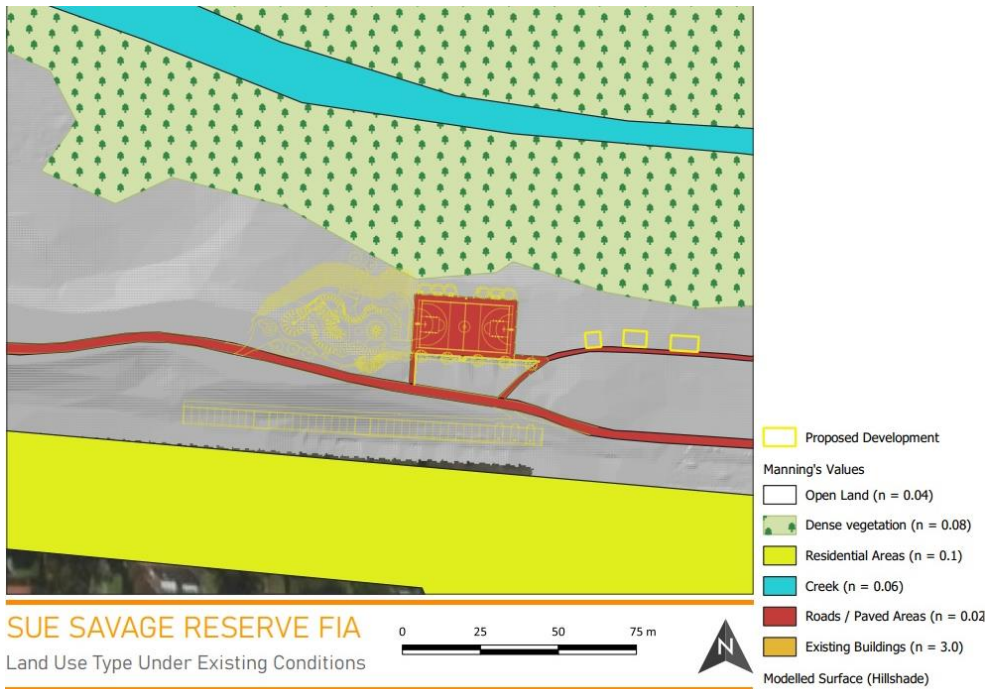


Figure 8. Land use under existing conditions

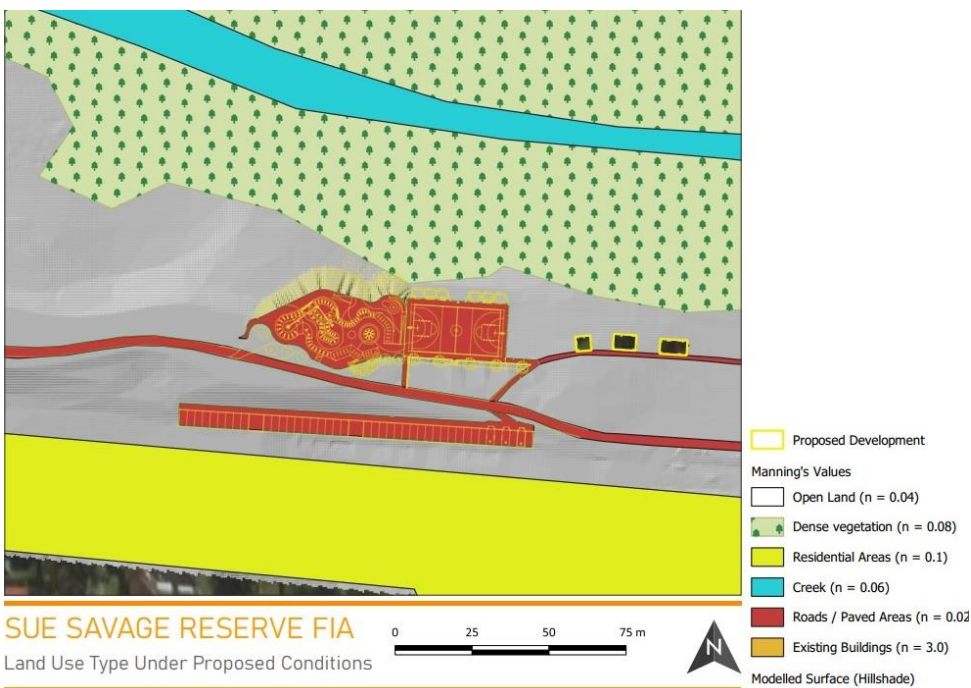


Figure 9. Land use under proposed conditions

3.3 Assumptions and limitations

The following assumptions were made during the hydraulic modelling:

- Water depths below 50mm (due to rainfall on grid approach within the hydraulic boundary) were filtered out from results and therefore not shown in the produced flood maps.
- All drainage pipes within the site were assumed to be 100% blocked.
- There was no available survey data for the culvert crossing at Station Road (approximately 1.8 km upstream of the subject site). Therefore, a modification was made to the digital elevation model to allow conveyance of flows towards downstream.
- SMEC relied on water levels data in the provided GIS layers to check consistency of the developed model.

4 Results

Water depth results for 1%AEP storm event under existing conditions within the hydraulic boundary is shown in Figure 10. It is noted that the hydraulic boundary, on southern side of the site, matches to the road crest of Chanel Street. As shown in Figure 10, the site is affected by mainstream flooding.



Figure 10. Water depth map for 1%AEP storm event under existing conditions

The flood depth map for 1%AEP storm event near the site under existing conditions is shown in Figure 11. As it can be seen in Figure 11, the proposed development is not affected by mainstream flooding from Toongabbie Creek. The TUFLOW results indicate that the 1% AEP water level within Toongabbie Creek is in a range of 24.8-24.9m which closely matches Council's data. Further, within the site, ponding up to 200 mm is predicted at the southern side of the existing levee adjacent to the basketball court, and ponding up to 1.4 m at the proposed parking area. The predicted significant ponding at the proposed parking area is due to the fact that there is falling grade from southern upstream catchment towards the site and this makes Chanel Street to within a depression area with drainage pipe system considered to be fully blocked.

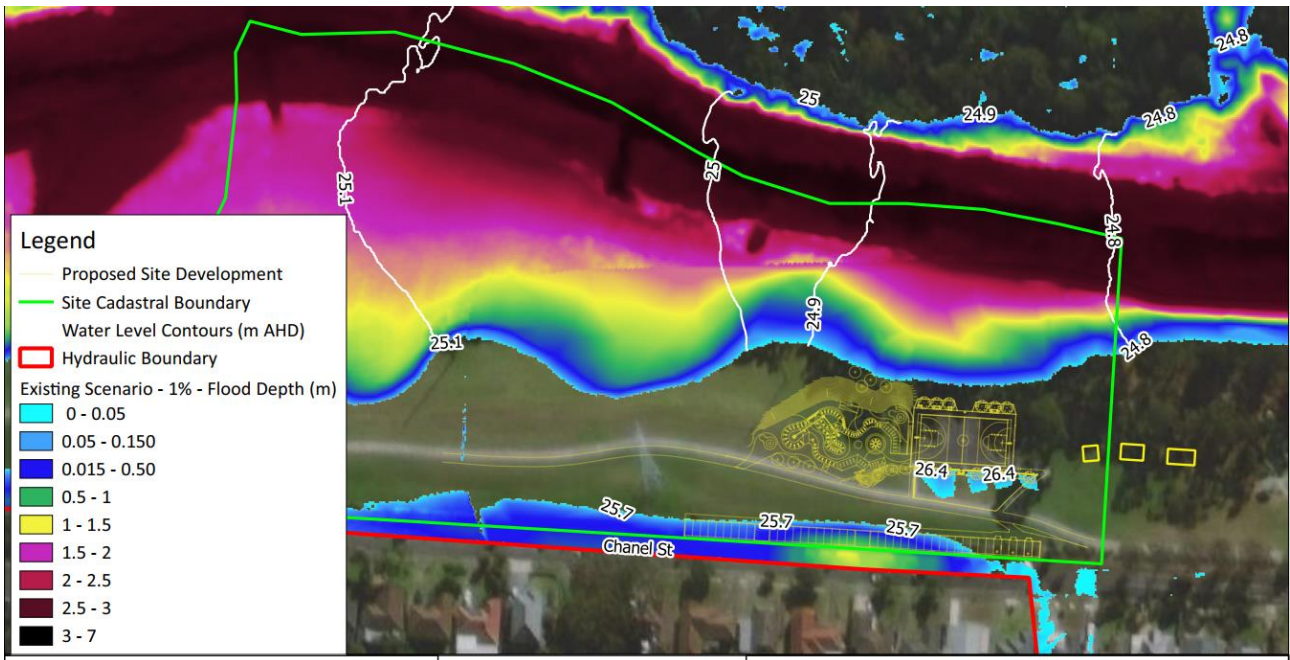


Figure 11. Water depth map for 1%AEP storm event under existing conditions near the site

The flood map for 1%AEP storm event under proposed conditions is shown in Figure 12. As shown in Figure 12, water level results for the 1%AEP storm event under proposed conditions are similar to those under the existing conditions. As it is evident in Figure 12, the proposed development is not affected by mainstream flooding and there is no ponding near the proposed amenities and public toilet. However, there is significant ponding at the location of the proposed car park.

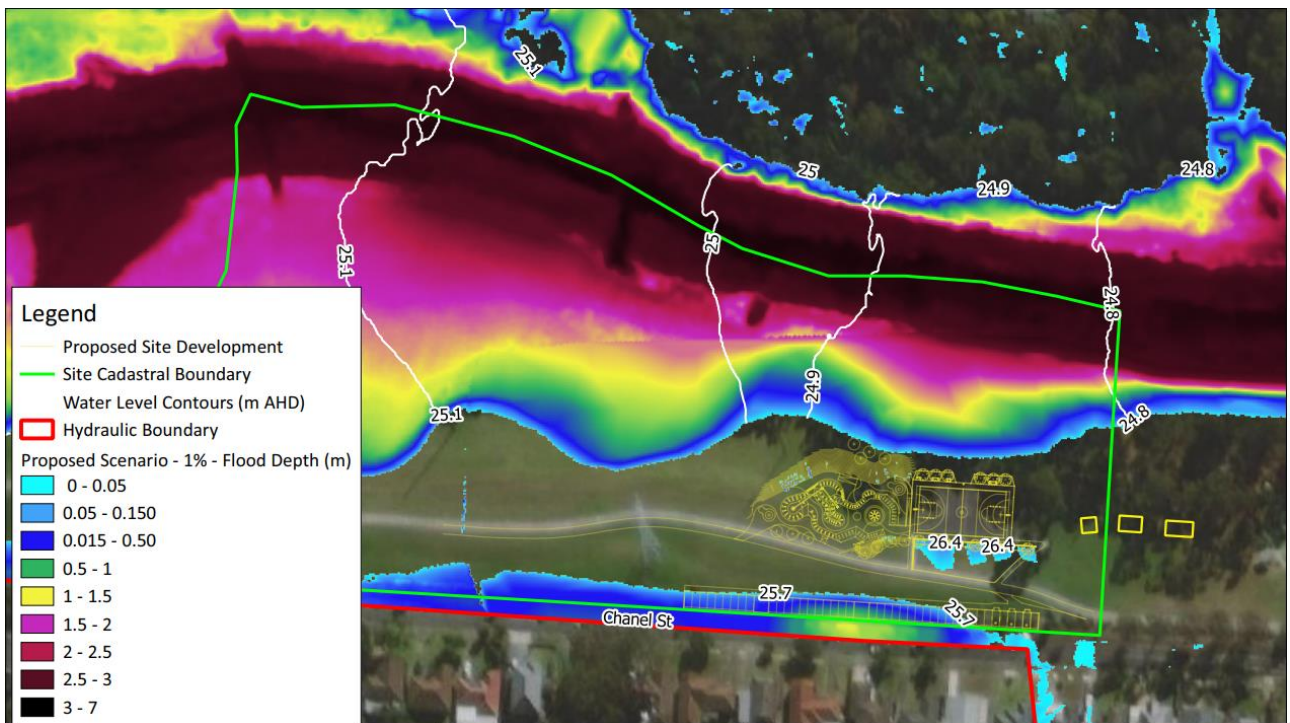


Figure 12. Water depth map for 1%AEP storm event under proposed conditions near the site

Flood hazard (DV) near the site for 1%AEP storm event under proposed conditions is shown in Figure 13. As it is evident from Figure 13, flood hazard near the proposed development is low (less than 0.4 m²/s). It is noted that flood hazard near the proposed development did not change from the existing to proposed conditions.

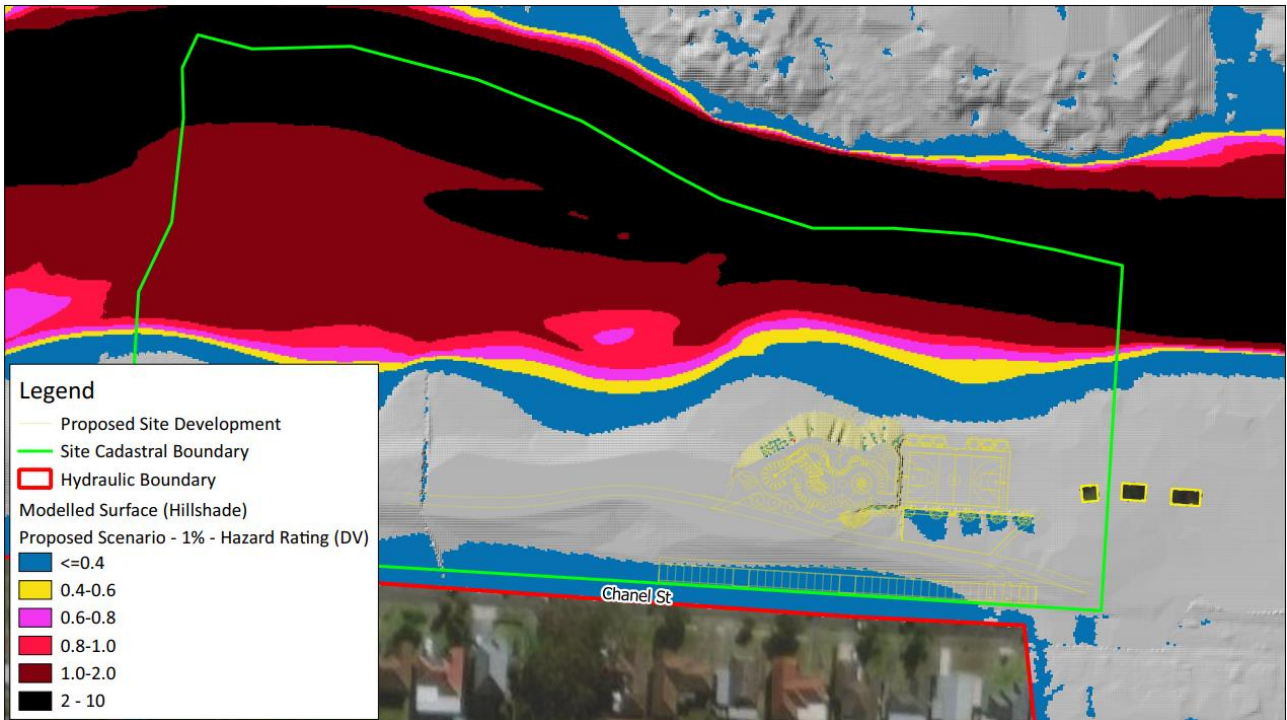


Figure 13. Flood hazard map for 1%AEP storm event under proposed conditions near the site

The afflux map for 1%AEP storm event is provided in Figure 14. As shown in Figure 14, results show that increase in water levels between proposed and existing conditions will be within 10mm which considered negligible.



Figure 14. Afflux (increase in flood levels) for 1%AEP storm event

The flood depth map for the 5%AEP storm event near the site under existing conditions is shown in Figure 15. The 5% AEP water level within Toongabbie Creek near the site is in a range of 23.7-23.8m while the Council’s data indicates that water level within the creek for such event is about 24.33m. Discrepancy may be due to differences between 1D and 2D

modelling, the latest lidar and survey data (which possibly was not available at the time when Mike 11 model was developed), and ARR2019 approach as opposed to ARR1987 approach. However, the proposed development would not be affected even if 24.33m was accepted as 5%AEP water level near the site.

Other results including flood hazard and afflux are similar to those obtained for 1%AEP storm event. Flood maps for 5%AEP storm event is also provided in Appendix C.

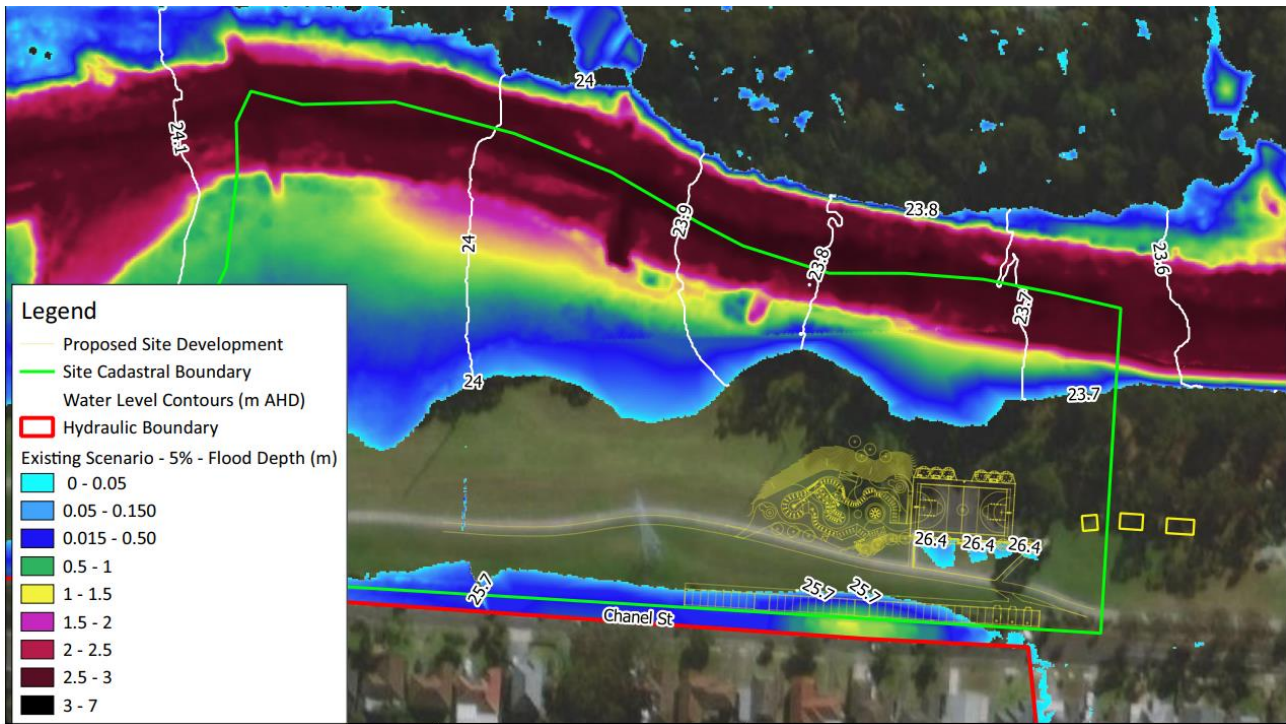


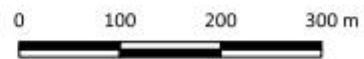
Figure 15. Water depth map for 5%AEP storm event under existing conditions near the site

As the 1% AEP flood extent from the developed hydraulic model was validated against Council's flooding information, it is appropriate to assume that the PMF flood map provided by Molino Stewart's study (2014) can be applied to the subject site. Based on the approximately digitised flood map (shown in Figure 16) and obtained 1m DEM data, the PMF flood level is significantly higher (approximately about 28m) compared to the design levels for the proposed development. Therefore, the site will be entirely inundated during the PMF event.



SUE SAVAGE RESERVE FIA

Flood Extents (Molino Stewart Pty. Ltd. 2014)



- Proposed Site Development
- Site Cadastral Boundary
- 1% Flood Extents (Molino Stewart 2014)
- PMF Flood Extents (Molino Stewart 2014)

Figure 16. Flood extent map (approximate) provided by Molino Stewart (2014).

5 Conclusion

A hydrological XP-RAFTS model was developed by SMEC. The critical storm determined in the hydrological model was assessed using a hydraulic flood model, TUFLOW, and validated against flood data provided by PCC. The current assessment was not performed to determine new flood planning levels, rather to assess if the proposed development at the Sue Savage Reservoir would impact existing flood levels adversely.

Results from the hydraulic modelling indicate that the proposed development is not affected by the mainstream flooding in the 1% and 5%AEP storm events. The proposed skate park (with finish design level of 26.9m) is predicted to have approximately 2m freeboard from mainstream flood levels under the 1%AEP storm event. No flooding is predicted in the vicinity of the proposed amenities and public toilet- under the assumption that existing topography levels will be maintained.

Ponding up to a maximum of 1.4 m (in both the 1% AEP and 5%AEP storm events) is predicted at the proposed car park area. As this is a proposed car park, no drainage design has been completed. Due to the carpark being located within a depression which cannot naturally drain, a drainage system will need to be designed to adequately discharge flows to Toongabbie Creek and retain ponding depth to 200mm as PCC required. Earthworks around the carpark could also be considered to allow for a natural overland flow route to minimise ponding in this location.

Ponding up to 200 mm is predicted on the southern side of the existing levee adjacent to the basketball court. This ponding may leak towards the creek if the levee has not been constructed to be watertight.

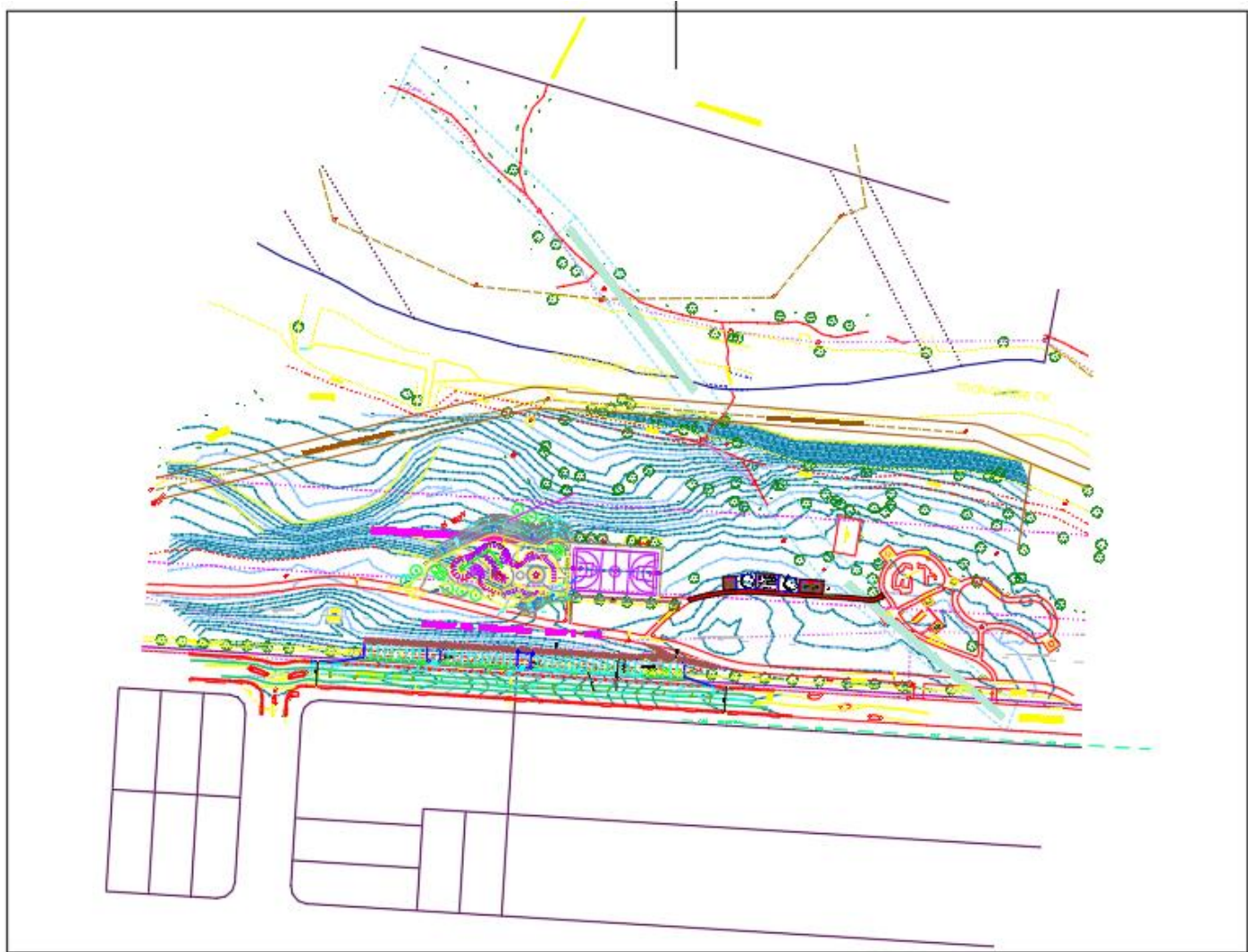
6 References

- Ball J, Babister M, Nathan R, Weeks W, Weinmann E, Retallick M, Testoni I (Editors), 2019, *Australian Rainfall and Runoff: A Guide to Flood Estimation*, Commonwealth of Australia.
- Bureau of Meteorology website, www.bom.gov.au, 2020.
- Molino Stewart Pty Ltd , 2014, Literature survey of Parramatta River Catchment within Parramatta LGA.

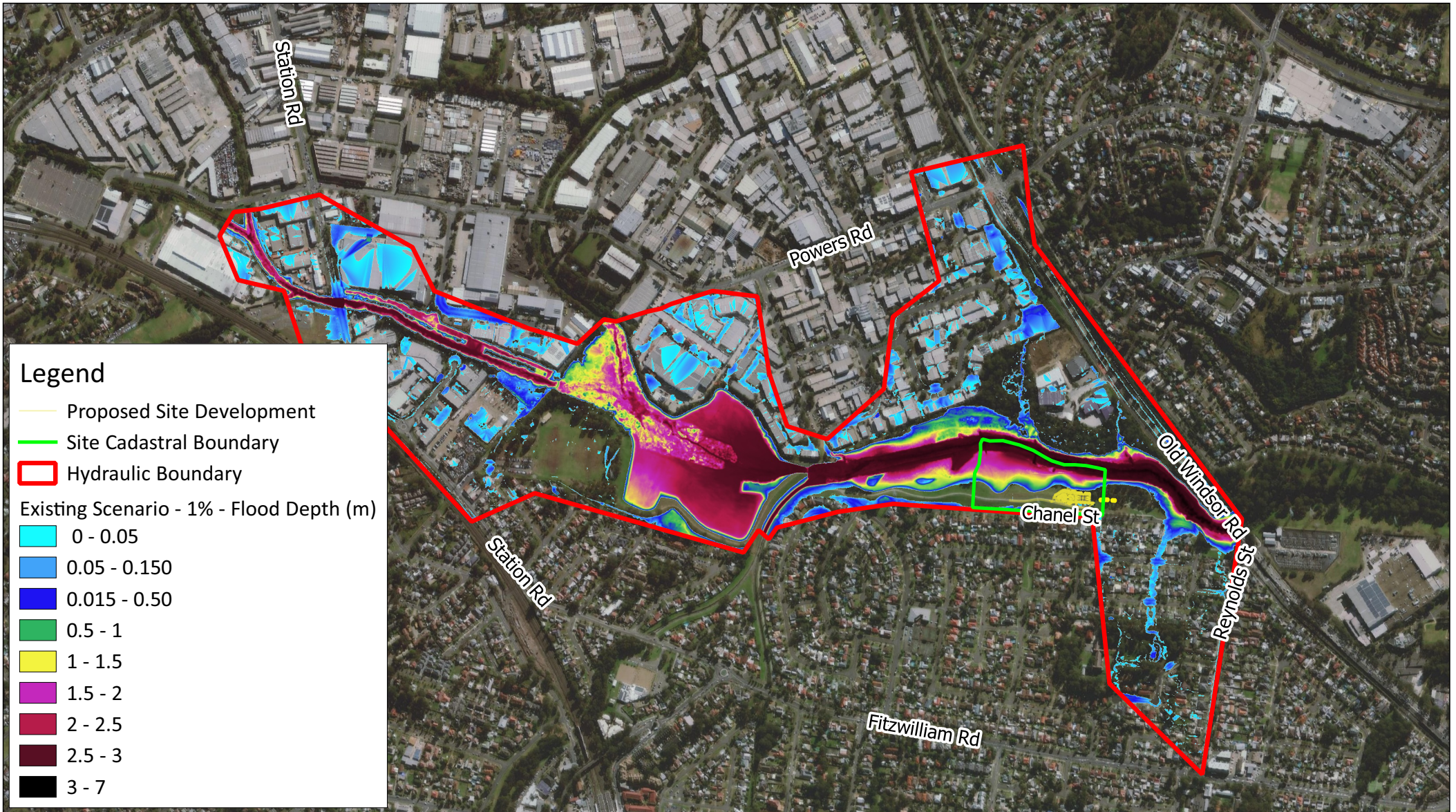
Appendix A – Site Visit Photos



Appendix B – Provided Survey



Appendix C – Flood Maps



Legend

- Proposed Site Development
- Site Cadastral Boundary
- Hydraulic Boundary

Existing Scenario - 1% - Flood Depth (m)

- 0 - 0.05
- 0.05 - 0.150
- 0.015 - 0.50
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- 3 - 7

FIGURE TITLE	Existing Case - 1% - Water Depth		
PROJECT NO.	30012769	DATE	22-06-2020
PROJECT TITLE	Sue Savage Reserve Flood Impact Assessment		
CREATED BY	O GLIXMAN	SOURCES	ESRI Satellite

0 250 500 m

PAGE SIZE A4

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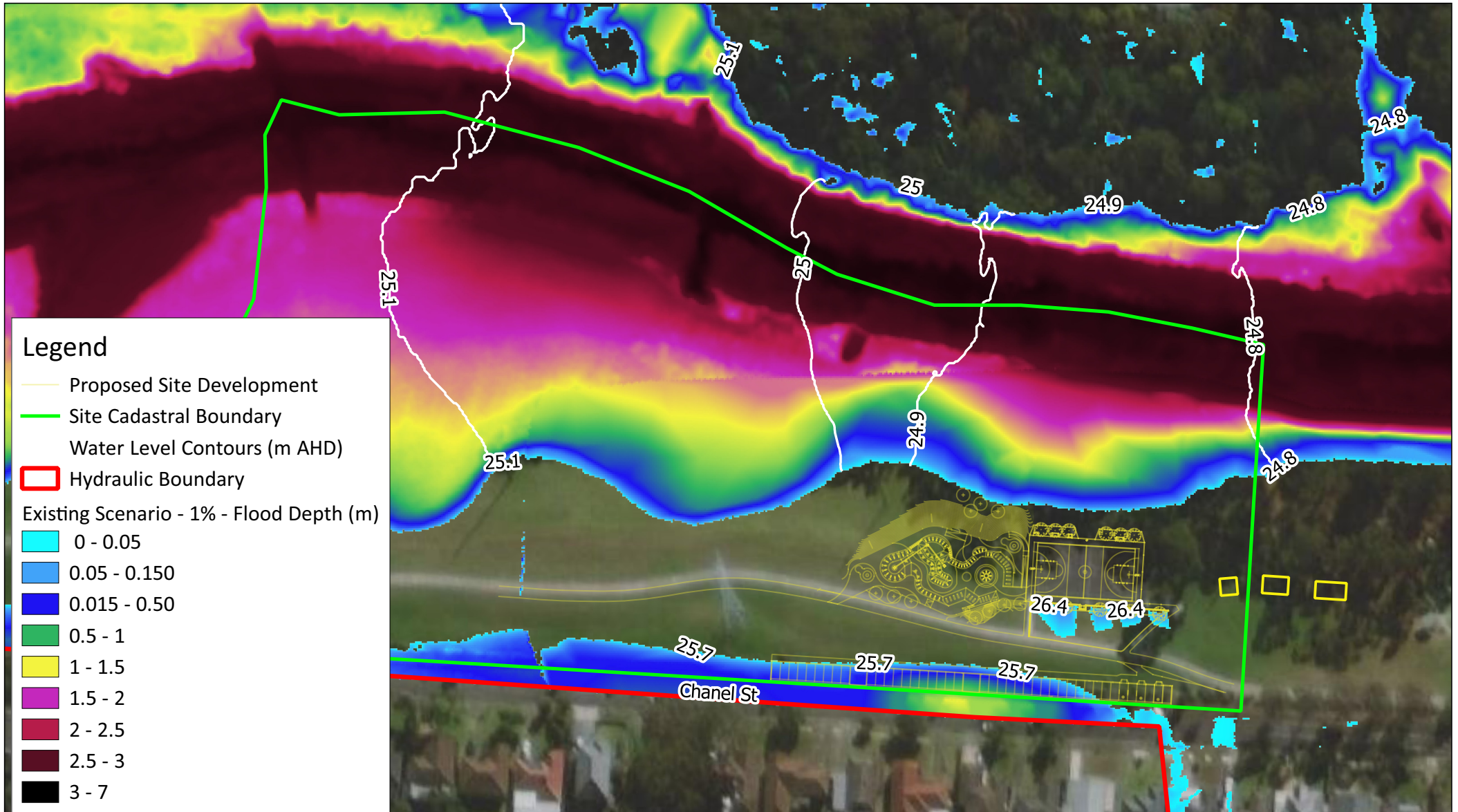


FIGURE TITLE Existing Case - 1% - Water Depth

PROJECT NO. 30012769 **DATE** 22-06-2020

PROJECT TITLE Sue Savage Reserve Flood Impact Assessment

CREATED BY O GLIXMAN **SOURCES** ESRI Satellite

0 25 50 75 m



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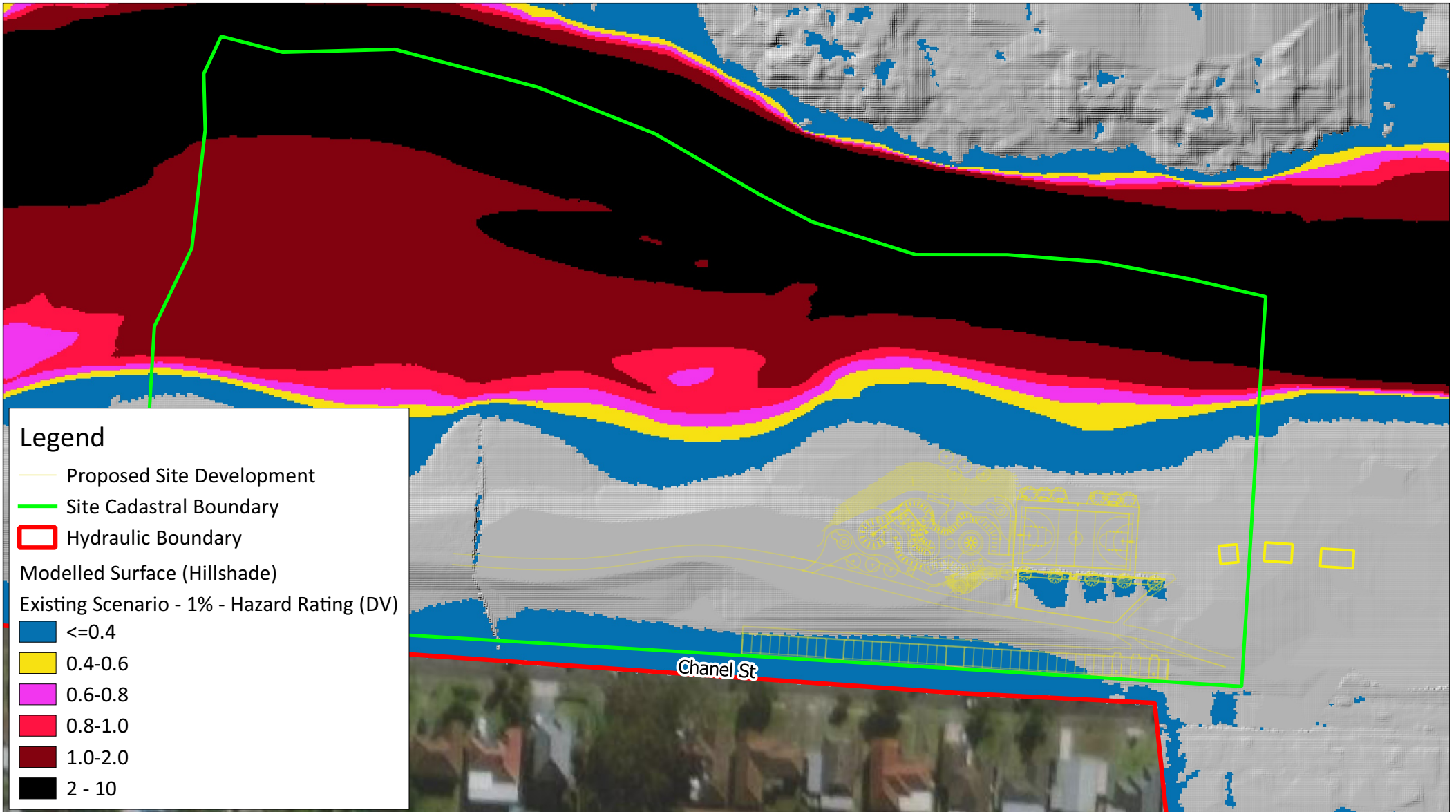
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Legend

- Proposed Site Development
- Site Cadastral Boundary
- Hydraulic Boundary

Modelled Surface (Hillshade)

Existing Scenario - 1% - Hazard Rating (DV)

- <=0.4
- 0.4-0.6
- 0.6-0.8
- 0.8-1.0
- 1.0-2.0
- 2 - 10

FIGURE TITLE	Existing Case - 1% - Hazard Rating		
PROJECT NO.	30012769	DATE	22-06-2020
PROJECT TITLE	Sue Savage Reserve Flood Impact Assessment		
CREATED BY	O GLIXMAN	SOURCES	ESRI Satellite

0 25 50 75 m

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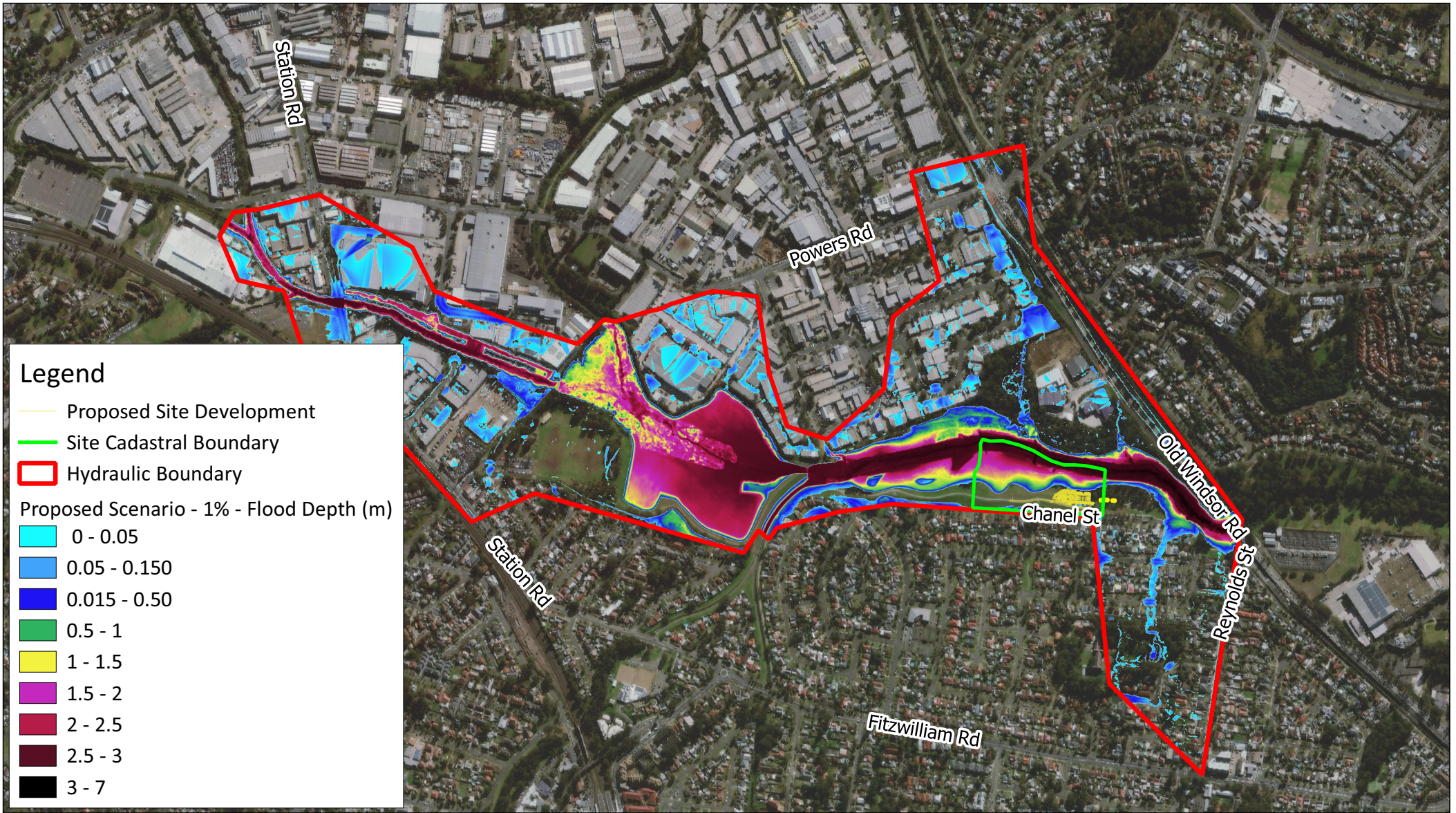
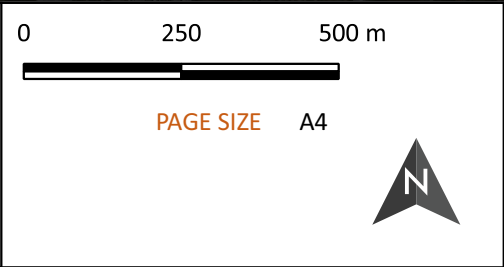


FIGURE TITLE	Proposed Case - 1% - Water Depth		
PROJECT NO.	30012769	DATE	22-06-2020
PROJECT TITLE	Sue Savage Reserve Flood Impact Assessment		
CREATED BY	O GLIXMAN	SOURCES	ESRI Satellite



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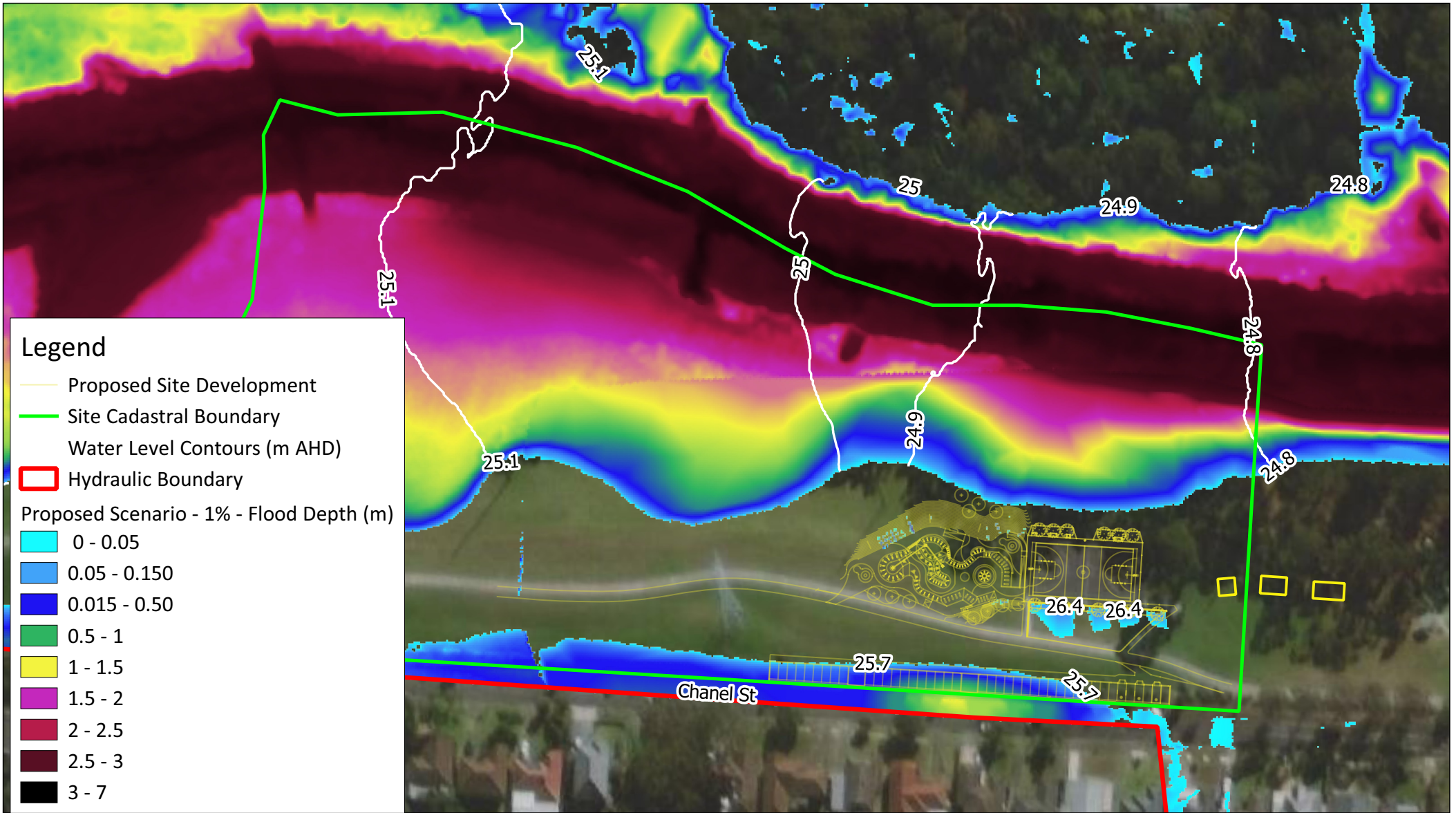


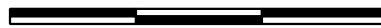
FIGURE TITLE Proposed Case - 1% - Water Depth

PROJECT NO. 30012769 **DATE** 22-06-2020

PROJECT TITLE Sue Savage Reserve Flood Impact Assessment

CREATED BY O GLIXMAN **SOURCES** ESRI Satellite

0 25 50 75 m



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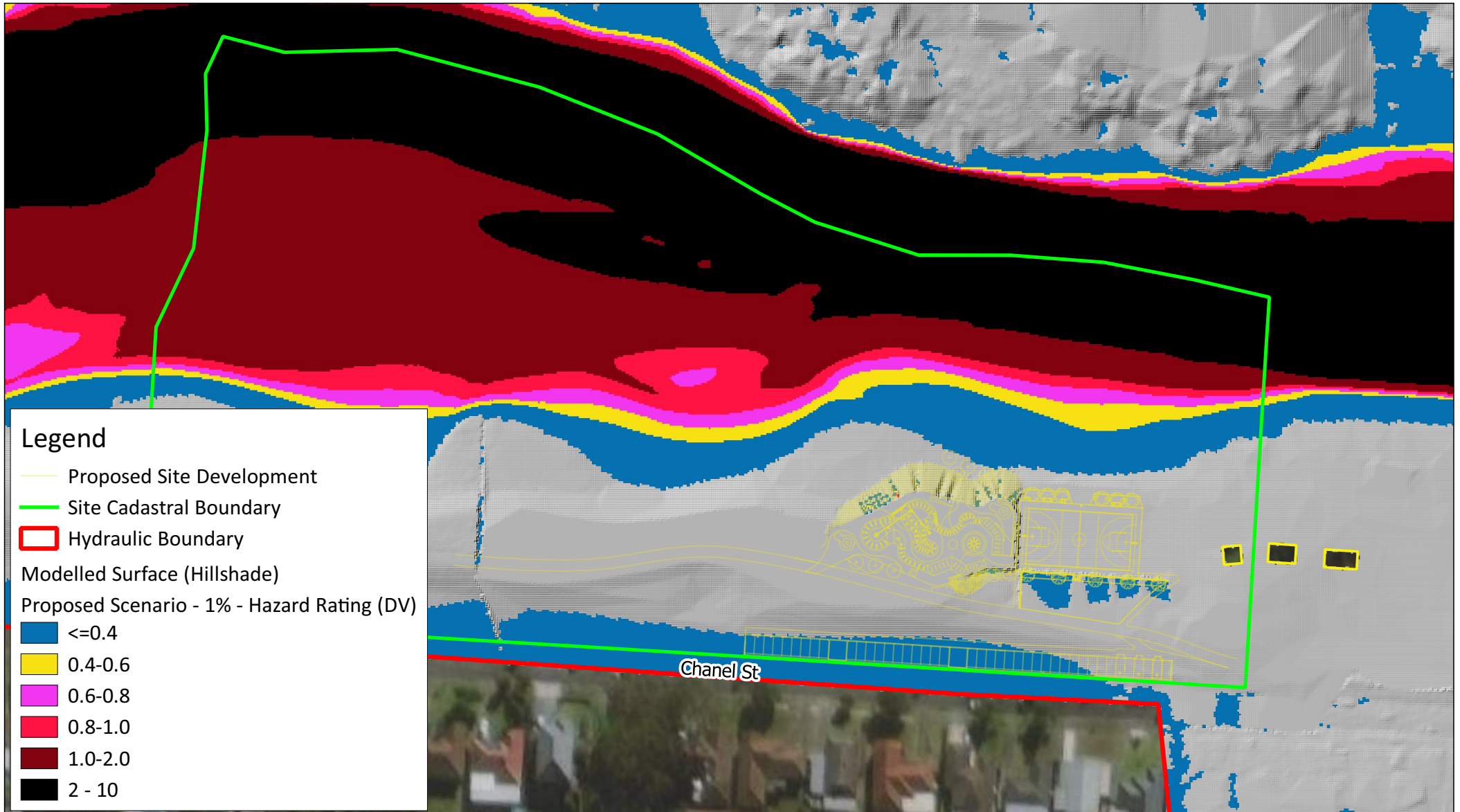
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Legend

- Proposed Site Development
- Site Cadastral Boundary
- Hydraulic Boundary
- Modelled Surface (Hillshade)
- Proposed Scenario - 1% - Hazard Rating (DV)
- ≤0.4
- 0.4-0.6
- 0.6-0.8
- 0.8-1.0
- 1.0-2.0
- 2 - 10

FIGURE TITLE	Proposed Case - 1% - Hazard Rating		
PROJECT NO.	30012769	DATE	22-06-2020
PROJECT TITLE	Sue Savage Reserve Flood Impact Assessment		
CREATED BY	O GLIXMAN	SOURCES	ESRI Satellite

0 25 50 75 m

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Legend

- Proposed Site
- 1% - Depth Afflux (m)
- 0.01
- 0.003
- 0
- 0.003
- 0.01
- 0.020



FIGURE TITLE	1% - Depth Afflux		
PROJECT NO.	30012769	DATE	22-06-2020
PROJECT TITLE	Sue Savage Reserve Flood Impact Assessment		
CREATED BY	O GLIXMAN	SOURCES	ESRI Satellite

0 10 20 30 40 m



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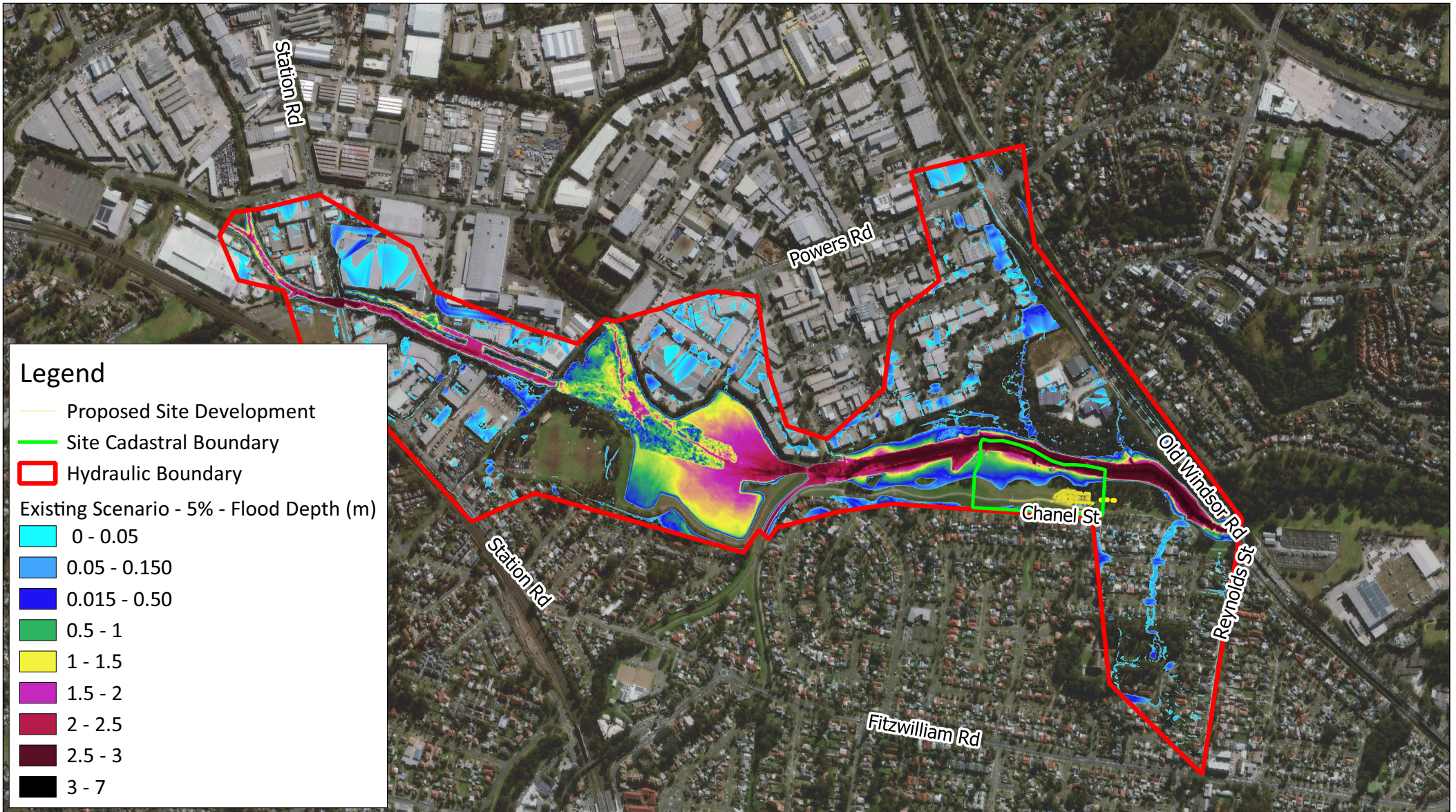
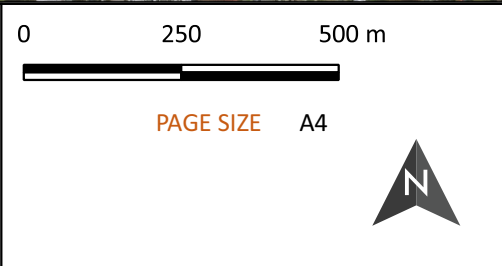


FIGURE TITLE	Existing Case - 5% - Water Depth		
PROJECT NO.	30012769	DATE	22-06-2020
PROJECT TITLE	Sue Savage Reserve Flood Impact Assessment		
CREATED BY	O GLIXMAN	SOURCES	ESRI Satellite

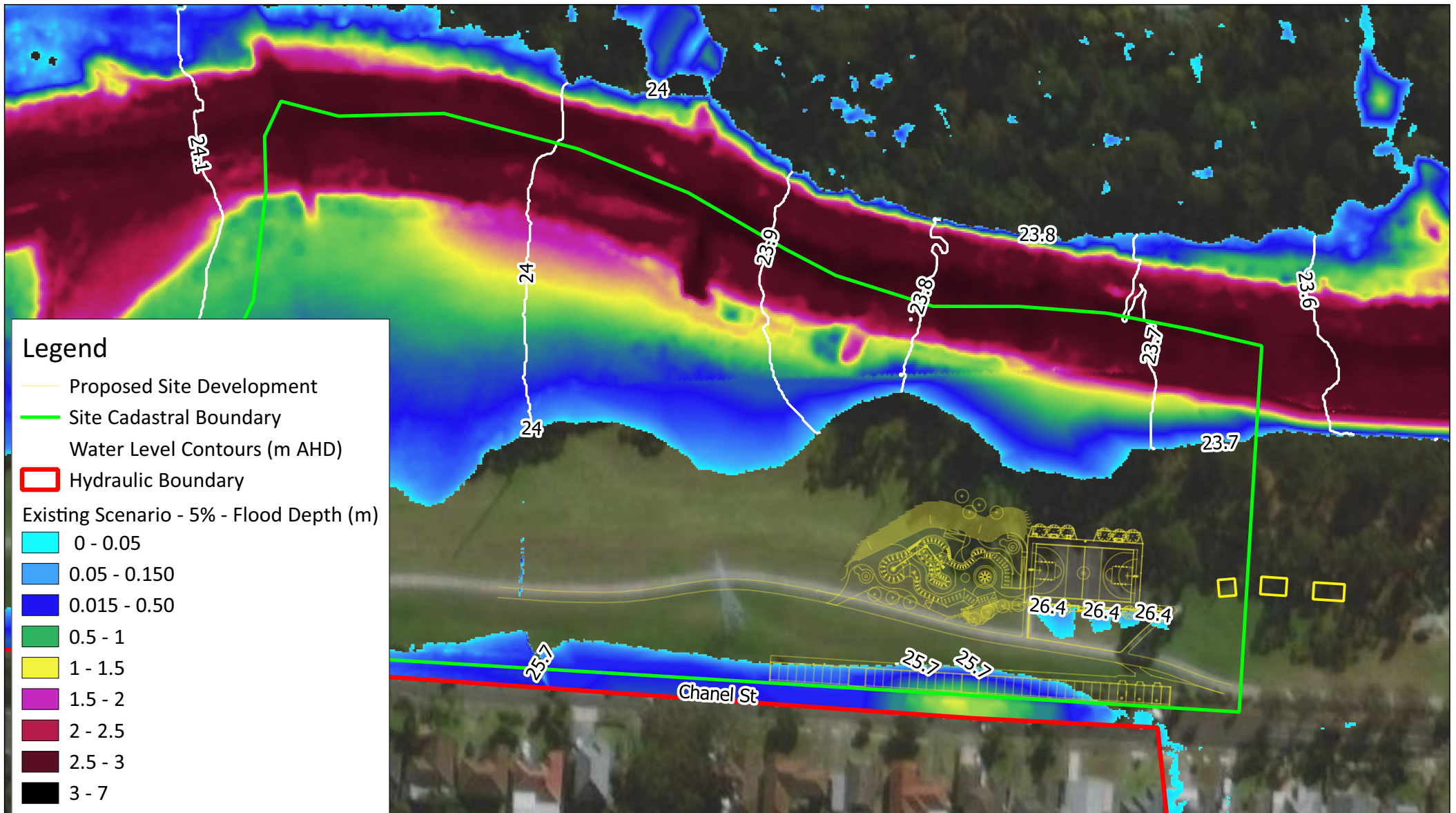


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Legend

- Proposed Site Development
- Site Cadastral Boundary
- Water Level Contours (m AHD)
- Hydraulic Boundary

Existing Scenario - 5% - Flood Depth (m)

- 0 - 0.05
- 0.05 - 0.150
- 0.015 - 0.50
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- 3 - 7

FIGURE TITLE	Existing Case - 5% - Water Depth		
PROJECT NO.	30012769	DATE	22-06-2020
PROJECT TITLE	Sue Savage Reserve Flood Impact Assessment		
CREATED BY	O GLIXMAN	SOURCES	ESRI Satellite

0 25 50 75 m

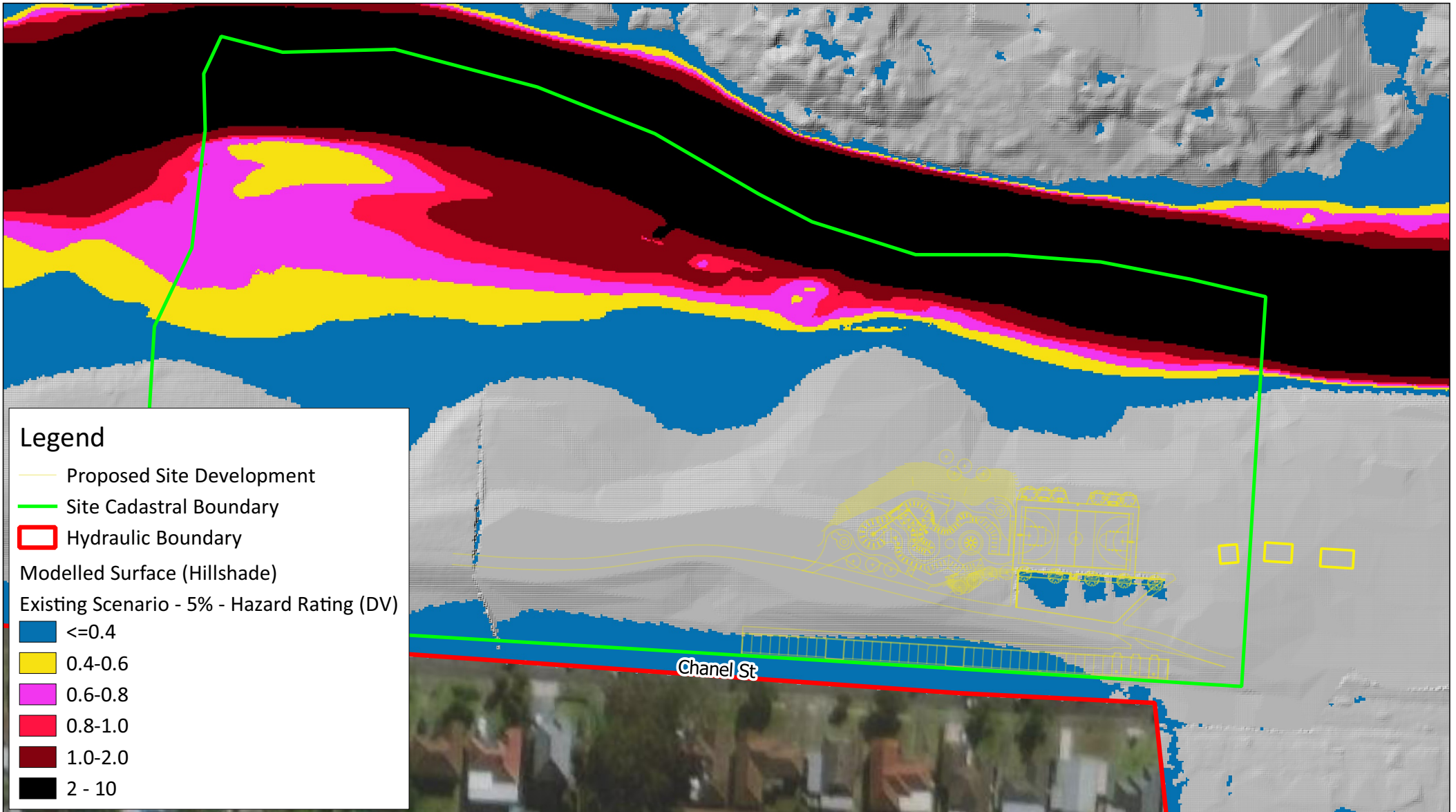
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Legend

- Proposed Site Development
- Site Cadastral Boundary
- Hydraulic Boundary
- Modelled Surface (Hillshade)
- Existing Scenario - 5% - Hazard Rating (DV)
- ≤0.4
- 0.4-0.6
- 0.6-0.8
- 0.8-1.0
- 1.0-2.0
- 2 - 10

FIGURE TITLE	Existing Case - 5% - Hazard Rating		
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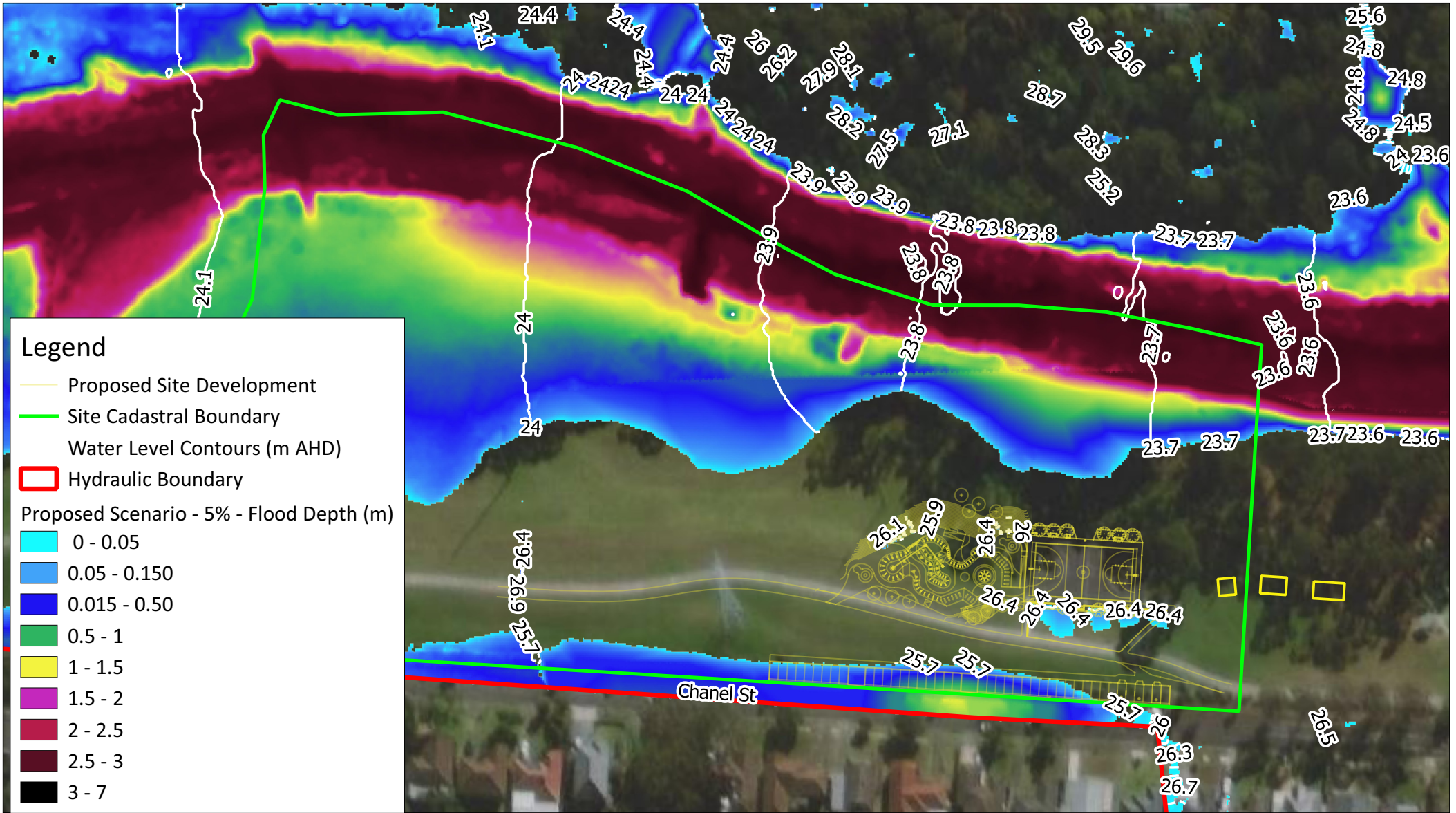


FIGURE TITLE	Proposed Case - 5% - Water Depth		
PROJECT NO.	30012769	DATE	22-06-2020
PROJECT TITLE	Sue Savage Reserve Flood Impact Assessment		
CREATED BY	O GLIXMAN	SOURCES	ESRI Satellite

0 25 50 75 m

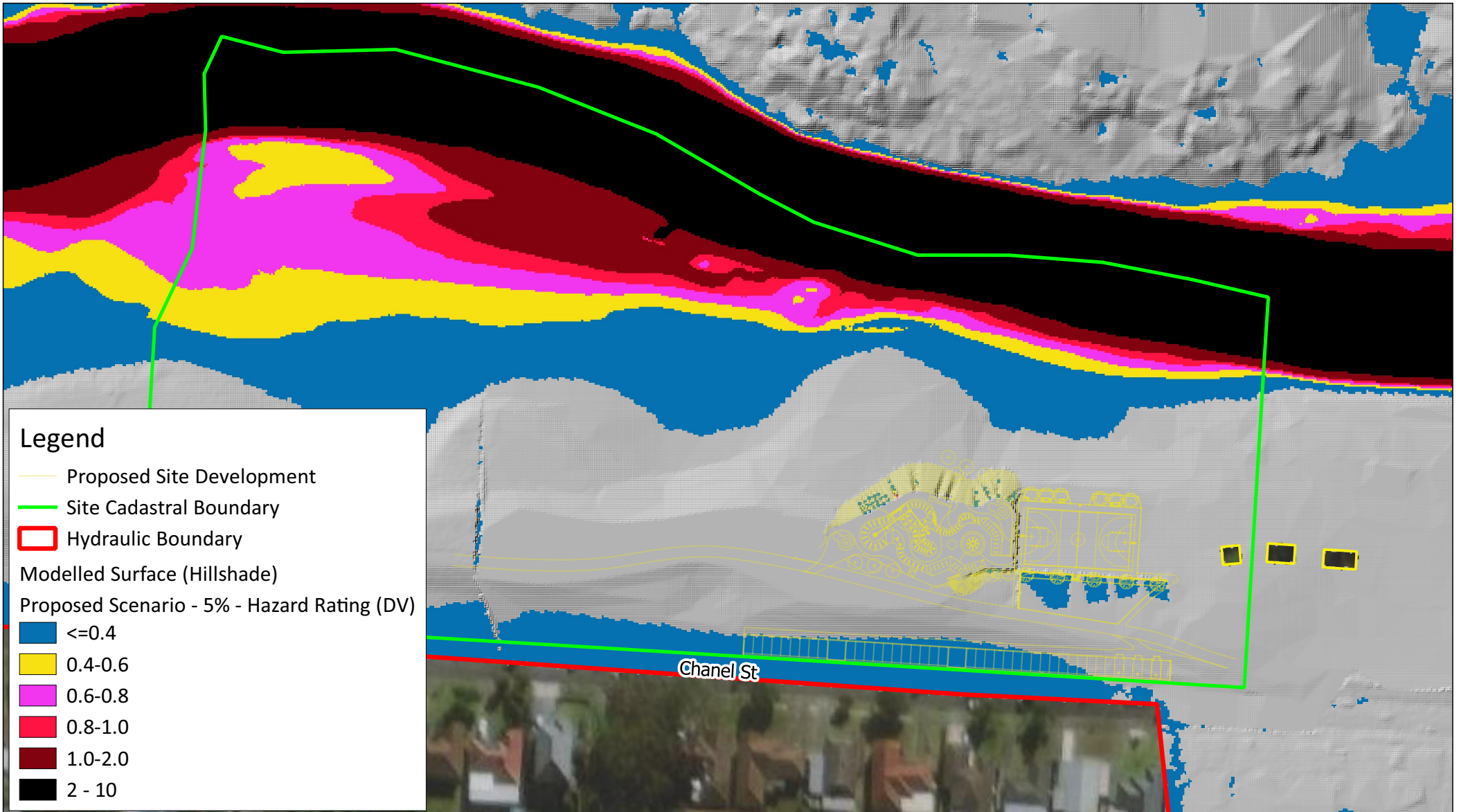
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Legend

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FIGURE TITLE	Proposed Case - 5% - Hazard Rating		
PROJECT NO.	30012769	DATE	22-06-2020
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Legend

- Proposed Site
- 5% - Depth Afflux (m)
- -0.01
- -0.003
- 0
- 0.003
- 0.01
- 0.020



FIGURE TITLE	5% - Depth Afflux		
PROJECT NO.	30012769	DATE	22-06-2020
PROJECT TITLE	Sue Savage Reserve Flood Impact Assessment		
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0 10 20 30 40 m

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**local people
global experience**

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Appendix E | Likelihood of Occurrence Table

Likelihood	Criteria
Recorded	The species was observed in the study area during the current survey.
High	It is highly likely that a species inhabits the study area and is dependent on identified suitable habitat (ie. for breeding or important life cycle periods such as winter flowering resources), has been recorded recently in the locality (10km) and is known or likely to maintain resident populations in the study area. Also includes species known or likely to visit the study area during regular seasonal movements or migration.
Moderate	Potential habitat is present in the study area. Species unlikely to maintain sedentary populations, however, may seasonally use resources within the study area opportunistically or during migration. The species is unlikely to be dependent (ie. for breeding or important life cycle periods such as winter flowering resources) on habitat within the study area, or habitat is in a modified or degraded state. Includes cryptic flowering flora species that were not seasonally targeted by surveys and that have not been recorded.
Low	It is unlikely that the species inhabits the study area and has not been recorded recently in the locality (10km). It may be an occasional visitor, but habitat similar to the study area is widely distributed in the local area, meaning that the species is not dependent (ie. for breeding or important life cycle periods such as winter flowering resources) on available habitat. Specific habitat is not present in the study area, or the species are a non-cryptic perennial flora species that were specifically targeted by surveys and not recorded.
None	Suitable habitat is absent from the study area.

Family	Scientific Name	Common Name	NSW status	Comm. status	Records	Comment	Likelihood of Occurrence
Fauna							
Apodidae	<i>Apus pacificus</i>	Fork-tailed Swift	P	C,J,K	1	The Fork-tailed Swift is almost exclusively aerial, flying from less than 1 m to at least 300 m above ground and probably much higher. They often occur in areas of updraughts, especially around cliffs. In Australia, they mostly occur over inland plains but sometimes above foothills or in coastal areas. They often occur over cliffs and beaches and also over islands and sometimes well out to sea. They also occur over settled areas, including towns, urban areas and cities. They forage aerially, up to hundreds of metres above ground, but also less than 1 m above open areas or over water.	Low
Apodidae	<i>Hirundapus caudacutus</i>	White-throated Needletail	P	V,C,J,K	3	In Australia, the White-throated Needletail is almost exclusively aerial, from heights of less than 1 m up to more than 1000 m above the ground. Because they are aerial, it has been stated that conventional habitat descriptions are inapplicable, but there are, nevertheless, certain preferences exhibited by the species. Although they occur over most types of habitat, they are probably recorded most often above wooded areas, including open forest and rainforest, and may also fly between trees or in clearings, below the canopy, but they are less commonly recorded flying above woodland. They also commonly occur over heathland, but less often over treeless areas, such as grassland.	Low

						or swamps. When flying above farmland, they are more often recorded above partly cleared pasture, plantations or remnant vegetation at the edge of paddocks. In coastal areas, they are sometimes seen flying over sandy beaches or mudflats, and often around coastal cliffs and other areas with prominent updraughts, such as ridges and sand-dunes. They are sometimes recorded above islands well out to sea.	
Ardeidae	<i>Botaurus poiciloptilus</i>	Australasian Bittern	E1,P	E	1	Favours permanent freshwater wetlands with tall, dense vegetation, particularly bullrushes (<i>Typha</i> spp.) and spikerushes (<i>Eleocharis</i> spp.). Hides during the day amongst dense reeds or rushes and feed mainly at night on frogs, fish, yabbies, spiders, insects and snails.	Low
Psittacidae	<i>Glossopsitta pusilla</i>	Little Lorikeet	V,P		1	Forages primarily in the canopy of open Eucalyptus forest and woodland, yet also finds food in Angophora, Melaleuca and other tree species. Riparian habitats are particularly used, due to higher soil fertility and hence greater productivity. Isolated flowering trees in open country, e.g. paddocks, roadside remnants and urban trees also help sustain viable populations of the species. Feeds mostly on nectar and pollen, occasionally on native fruits such as mistletoe, and only rarely in orchards.	Low
Psittacidae	<i>Lathamus discolor</i>	Swift Parrot	E1,P	CE	1	Migrates to the Australian south-east mainland between February and October. On the mainland they occur in areas where eucalypts are flowering profusely or where there are abundant lerp (from sap-sucking bugs) infestations. Favoured feed trees include winter flowering species such as Swamp Mahogany <i>Eucalyptus</i>	Low

						<p><i>robusta</i>, Spotted Gum <i>Corymbia maculata</i>, Red Bloodwood <i>C. gummifera</i>, Forest Red Gum <i>E. tereticornis</i>, Mugga Ironbark <i>E. sideroxylon</i>, and White Box <i>E. albens</i>.</p> <p>Commonly used lerp infested trees include Inland Grey Box <i>E. microcarpa</i>, Grey Box <i>E. moluccana</i>, Blackbutt <i>E. pilularis</i>, and Yellow Box <i>E. melliodora</i>.</p> <p>Return to some foraging sites on a cyclic basis depending on food availability.</p>	
Psittacidae	^^ <i>Neophema pulchella</i>	Turquoise Parrot	V,P,3		1	<p>Lives on the edges of eucalypt woodland adjoining clearings, timbered ridges and creeks in farmland.</p> <p>Usually seen in pairs or small, possibly family, groups and have also been reported in flocks of up to thirty individuals.</p> <p>Prefers to feed in the shade of a tree and spends most of the day on the ground searching for the seeds or grasses and herbaceous plants, or browsing on vegetable matter.</p>	Low
Strigidae	^^ <i>Ninox connivens</i>	Barking Owl	V,P,3		1	<p>Inhabits woodland and open forest, including fragmented remnants and partly cleared farmland. It is flexible in its habitat use, and hunting can extend in to closed forest and more open areas. Sometimes able to successfully breed along timbered watercourses in heavily cleared habitats (e.g. western NSW) due to the higher density of prey found on these fertile riparian soils.</p> <p>Roost in shaded portions of tree canopies, including tall midstorey trees with dense foliage such as Acacia and Casuarina species.</p> <p>During nesting season, the male perches in a nearby tree overlooking the hollow entrance. Requires very large permanent territories in</p>	Low

						most habitats due to sparse prey densities. Monogamous pairs hunt over as much as 6000 hectares, with 2000 hectares being more typical in NSW habitats.	
Strigidae	<i>^^Ninox strenua</i>	Powerful Owl	V,P,3		62	The Powerful Owl inhabits a range of vegetation types, from woodland and open sclerophyll forest to tall open wet forest and rainforest. The Powerful Owl requires large tracts of forest or woodland habitat but can occur in fragmented landscapes as well. The species breeds and hunts in open or closed sclerophyll forest or woodlands and occasionally hunts in open habitats. It roosts by day in dense vegetation comprising species such as Turpentine <i>Syncarpia glomulifera</i> , Black She-oak <i>Allocasuarina littoralis</i> , Blackwood <i>Acacia melanoxylon</i> , Rough-barked Apple <i>Angophora floribunda</i> , Cherry Ballart <i>Exocarpus cupressiformis</i> and a number of eucalypt species.	Moderate
Tytonidae	<i>^^Tyto novaehollandiae</i>	Masked Owl	V,P,3		1	Lives in dry eucalypt forests and woodlands from sea level to 1100 m. A forest owl, but often hunts along the edges of forests, including roadsides.	Low
Neosittidae	<i>Daphoenositta chrysoptera</i>	Varied Sittella	V,P		1	Inhabits eucalypt forests and woodlands, especially those containing rough-barked species and mature smooth-barked gums with dead branches, mallee and <i>Acacia</i> woodland.	Low
Dasyuridae	<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	V,P	E	1	Recorded across a range of habitat types, including rainforest, open forest, woodland, coastal heath and inland riparian forest, from the sub-alpine zone to the coastline. Individual animals use hollow-bearing trees, fallen logs, small caves, rock outcrops and rocky-cliff faces as den sites.	Low

Phascolarctidae	<i>Phascolarctos cinereus</i>	Koala	E1,P	E	3	Inhabit eucalypt woodlands and forests. Feed on the foliage of more than 70 eucalypt species and 30 non-eucalypt species, but in any one area will select preferred browse species.	Low
Pteropodidae	<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	V,P	V	560	Occur in subtropical and temperate rainforests, tall sclerophyll forests and woodlands, heaths and swamps as well as urban gardens and cultivated fruit crops. Roosting camps are generally located within 20 km of a regular food source and are commonly found in gullies, close to water, in vegetation with a dense canopy.	Moderate
Emballonuridae	<i>Saccolaimus flaviventris</i>	Yellow-bellied Sheath-tail-bat	V,P		6	Roosts singly or in groups of up to six, in tree hollows and buildings; in treeless areas they are known to utilise mammal burrows. When foraging for insects, flies high and fast over the forest canopy, but lower in more open country. Forages in most habitats across its very wide range, with and without trees; appears to defend an aerial territory.	Moderate
Molossidae	<i>Micronomus norfolkensis</i>	Eastern Coastal Free-tailed Bat	V,P		7	Occur in dry sclerophyll forest, woodland, swamp forests and mangrove forests east of the Great Dividing Range. Roost mainly in tree hollows but will also roost under bark or in man-made structures.	Moderate
Vespertilionidae	<i>Falsistrellus tasmaniensis</i>	Eastern False Pipistrelle	V,P		5	Prefers moist habitats, with trees taller than 20 m. Generally roosts in eucalypt hollows, but has also been found under loose bark on trees or in buildings.	Low
Vespertilionidae	<i>Myotis macropus</i>	Southern Myotis	V,P		7	Generally roost in groups of 10 - 15 close to water in caves, mine shafts, hollow-bearing trees, storm water channels, buildings, under bridges and in dense foliage.	Moderate

Vespertilionidae	<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	V,P		2	Utilises a variety of habitats from woodland through to moist and dry eucalypt forest and rainforest, though it is most commonly found in tall wet forest. Although this species usually roosts in tree hollows, it has also been found in buildings. Open woodland habitat and dry open forest suits the direct flight of this species as it searches for beetles and other large, slow-flying insects; this species has been known to eat other bat species.	Low
Miniopteridae	<i>Miniopterus australis</i>	Little Bent-winged Bat	V,P		1	Moist eucalypt forest, rainforest, vine thicket, wet and dry sclerophyll forest, Melaleuca swamps, dense coastal forests and banksia scrub. Generally found in well-timbered areas. Little Bentwing-bats roost in caves, tunnels, tree hollows, abandoned mines, stormwater drains, culverts, bridges and sometimes buildings during the day, and at night forage for small insects beneath the canopy of densely vegetated habitats. They often share roosting sites with the Common Bentwing-bat and, in winter, the two species may form mixed clusters. In NSW the largest maternity colony is in close association with a large maternity colony of Eastern Bentwing-bats (<i>Miniopterus schreibersii</i>) and appears to depend on the large colony to provide the high temperatures needed to rear its young. Only five nursery sites /maternity colonies are known in Australia.	Low
Miniopteridae	<i>Miniopterus oriana oceanensis</i>	Large Bent-winged Bat	V,P		14	Caves are the primary roosting habitat, but also use derelict mines, storm-water tunnels, buildings and other man-made structures. Form discrete populations centred on a	Low

						<p>maternity cave that is used annually in spring and summer for the birth and rearing of young. Maternity caves have very specific temperature and humidity regimes. At other times of the year, populations disperse within about 300 km range of maternity caves.</p> <p>Cold caves are used for hibernation in southern Australia.</p> <p>Breeding or roosting colonies can number from 100 to 150,000 individuals.</p> <p>Hunt in forested areas, catching moths and other flying insects above the tree tops.</p>	
Camaenidae	<i>Meridolum corneovirens</i>	Cumberland Plain Land Snail	E1		2	<p>Primarily inhabits Cumberland Plain Woodland (a critically endangered ecological community). This community is a grassy, open woodland with occasional dense patches of shrubs. It is also known from Shale Gravel Transition Forests, Castlereagh Swamp Woodlands and the margins of River-flat Eucalypt Forest, which are also listed communities.</p>	Low
Camaenidae	<i>Pommerhelix duralensis</i>	Dural Land Snail	E1	E	21	<p>The species has a strong affinity for communities in the interface region between shale-derived and sandstone-derived soils, with forested habitats that have good native cover and woody debris.</p> <p>It favours sheltering under rocks or inside curled-up bark. It does not burrow nor climb.</p> <p>The species has also been observed resting in exposed areas, such as on exposed rock or leaf litter, however it will also shelter beneath leaves, rocks and light woody debris.</p>	Moderate
Flora							
Ericaceae	<i>Epacris purpurascens</i> var. <i>purpurascens</i>		V		17	<p>Found in a range of habitat types, most of which have a strong shale soil influence.</p>	Low

Myrtaceae	<i>Syzygium paniculatum</i>	Magenta Lilly Pilly	E1	V	4	On the south coast the Magenta Lilly Pilly occurs on grey soils over sandstone, restricted mainly to remnant stands of littoral (coastal) rainforest. On the central coast Magenta Lilly Pilly occurs on gravels, sands, silts and clays in riverside gallery rainforests and remnant littoral rainforest communities.	Low
Orchidaceae	<i>Pterostylis saxicola</i>	Sydney Plains Greenhood	E1,P,2	E	2	Most commonly found growing in small pockets of shallow soil in depressions on sandstone rock shelves above cliff lines. The vegetation communities above the shelves where <i>Pterostylis saxicola</i> occurs are sclerophyll forest or woodland on shale/sandstone transition soils or shale soils.	Low
Proteaceae	<i>Macadamia integrifolia</i>	Macadamia Nut		V	2	Not known to occur naturally in the wild in NSW	Low
Rhamnaceae	<i>Pomaderris prunifolia</i>	P. prunifolia in the Parramatta, Auburn, Strathfield and Bankstown Local Government Areas	E2		2	At Rydalmere it occurs along a road reserve near a creek, among grass species on sandstone. At Rookwood Cemetery it occurs in a small gully of degraded Cooks River / Castlereagh Ironbark Forest on shale soils.	Low

Appendix F | EPBC Act Protected Matters Report



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 07-Dec-2022

[Summary](#)

[Details](#)

[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Summary

Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	1
National Heritage Places:	2
Wetlands of International Importance (Ramsar)	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	12
Listed Threatened Species:	93
Listed Migratory Species:	51

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <https://www.dcceew.gov.au/parks-heritage/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Lands:	741
Commonwealth Heritage Places:	3
Listed Marine Species:	61
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have

State and Territory Reserves:	3
Regional Forest Agreements:	None
Nationally Important Wetlands:	None
EPBC Act Referrals:	127
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	1
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

World Heritage Properties [\[Resource Information \]](#)

Name	State	Legal Status	Buffer Status
Australian Convict Sites (Old Government House and Domain)	NSW	Declared property	In buffer area only

National Heritage Places [\[Resource Information \]](#)

Name	State	Legal Status	Buffer Status
Historic Old Government House and the Government Domain	NSW	Listed place	In buffer area only
Parramatta Female Factory and Institutions Precinct	NSW	Listed place	In buffer area only

Listed Threatened Ecological Communities [\[Resource Information \]](#)

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
Blue Gum High Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur within area	In buffer area only
Castlereagh Scribbly Gum and Agnes Banks Woodlands of the Sydney Basin Bioregion	Endangered	Community may occurIn feature area within area	
Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological community	Endangered	Community likely to occur within area	In feature area
Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland	Endangered	Community may occurIn feature area within area	
Coastal Upland Swamps in the Sydney Basin Bioregion	Endangered	Community may occurIn buffer area only within area	
Cooks River/Castlereagh Ironbark Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur within area	In feature area
Cumberland Plain Shale Woodlands and Shale-Gravel Transition Forest	Critically Endangered	Community likely to occur within area	In feature area
River-flat eucalypt forest on coastal floodplains of southern New South	Critically Endangered	Community likely to occur within area	In feature area

Community Name	Threatened Category	Presence Text	Buffer Status
Wales and eastern Victoria			
Shale Sandstone Transition Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur within area	In feature area
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area	In buffer area only
Turpentine-Ironbark Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur within area	In buffer area only
Western Sydney Dry Rainforest and Moist Woodland on Shale	Critically Endangered	Community likely to occur within area	In feature area

Listed Threatened Species

[[Resource Information](#)]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.
Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Anthochaera phrygia			
Regent Honeyeater [82338]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Botaurus poiciloptilus			
Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area	In feature area
Calidris ferruginea			
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calidris tenuirostris			
Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
Callocephalon fimbriatum			
Gang-gang Cockatoo [768]	Endangered	Species or species habitat known to occur within area	In feature area
Calyptorhynchus lathami lathami			
South-eastern Glossy Black-Cockatoo [67036]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii			
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area	In buffer area only
Dasyornis brachypterus Eastern Bristlebird [533]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea antipodensis gibsoni Gibson's Albatross [82270]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area	In buffer area only
Erythrotriorchis radiatus Red Goshawk [942]	Vulnerable	Species or species habitat may occur within area	In feature area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Grantiella picta Painted Honeyeater [470]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
Limosa lapponica baueri Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Pycnoptilus floccosus Pilotbird [525]	Vulnerable	Species or species habitat known to occur within area	In feature area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area	In feature area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche bulleri platei Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche eremita Chatham Albatross [64457]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
FISH			
Epinephelus daemeli Black Rockcod, Black Cod, Saddled Rockcod [68449]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Macquaria australasica Macquarie Perch [66632]	Endangered	Species or species habitat may occur within area	In feature area
Prototroctes maraena Australian Grayling [26179]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thunnus maccoyii Southern Bluefin Tuna [69402]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only
FROG			
Heleioporus australiacus Giant Burrowing Frog [1973]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Litoria aurea Green and Golden Bell Frog [1870]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Mixophyes balbus Stuttering Frog, Southern Barred Frog (in Victoria) [1942]	Vulnerable	Species or species habitat may occur within area	In buffer area only
MAMMAL			
Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat known to occur within area	In feature area
Dasyurus maculatus maculatus (SE mainland population) Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat known to occur within area	In feature area
Isoodon obesulus obesulus Southern Brown Bandicoot (eastern), Southern Brown Bandicoot (south- eastern) [68050]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Notamacropus parma Parma Wallaby [89289]	Vulnerable	Species or species habitat may occur within area	In feature area
Petauroides volans Greater Glider (southern and central) [254]	Endangered	Species or species habitat known to occur within area	In feature area
Petaurus australis australis Yellow-bellied Glider (south-eastern) [87600]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Petrogale penicillata Brush-tailed Rock-wallaby [225]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Endangered	Species or species habitat known to occur within area	In feature area
Pseudomys novaehollandiae New Holland Mouse, Pookila [96]	Vulnerable	Species or species habitat may occur within area	In feature area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Roosting known to occur within area	In feature area

PLANT

Scientific Name	Threatened Category	Presence Text	Buffer Status
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575]	Vulnerable	Species or species habitat known to occur within area	In feature area
Acacia gordonii [5031]	Endangered	Species or species habitat may occur within area	In buffer area only
Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800]	Vulnerable	Species or species habitat known to occur within area	In feature area
Allocasuarina glareicola [21932]	Endangered	Species or species habitat likely to occur within area	In feature area
Asterolasia elegans [56780]	Endangered	Species or species habitat may occur within area	In feature area
Caladenia tessellata Thick-lipped Spider-orchid, Daddy Long-legs [2119]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Cryptostylis hunteriana Leafless Tongue-orchid [19533]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Cynanchum elegans White-flowered Wax Plant [12533]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Darwinia biflora [14619]	Vulnerable	Species or species habitat known to occur within area	In feature area
Eucalyptus camfieldii Camfield's Stringybark [15460]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Eucalyptus sp. Cattai (Gregson s.n., 28 Aug 1954) [89499]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Genoplesium baueri Yellow Gnat-orchid, Bauer's Midge Orchid, Brittle Midge Orchid [7528]	Endangered	Species or species habitat known to occur within area	In feature area
Haloragodendron lucasii Hal [6480]	Endangered	Species or species habitat may occur within area	In buffer area only
Lasiopetalum joyceae [20311]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Leptospermum deanei Deane's Tea-tree [21777]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Melaleuca biconvexa Biconvex Paperbark [5583]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Melaleuca deanei Deane's Melaleuca [5818]	Vulnerable	Species or species habitat known to occur within area	In feature area
Persicaria elatior Knotweed, Tall Knotweed [5831]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Persoonia hirsuta Hairy Geebung, Hairy Persoonia [19006]	Endangered	Species or species habitat known to occur within area	In feature area
Persoonia mollis subsp. maxima [56075]	Endangered	Species or species habitat may occur within area	In buffer area only
Persoonia nutans Nodding Geebung [18119]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Pimelea curviflora var. curviflora [4182]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pimelea spicata Spiked Rice-flower [20834]	Endangered	Species or species habitat known to occur within area	In feature area
Pomaderris brunnea Rufous Pomaderris, Brown Pomaderris [16845]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Pterostylis gibbosa Illawarra Greenhood, Rufa Greenhood, Pouched Greenhood [4562]	Endangered	Species or species habitat may occur within area	In feature area
Pterostylis saxicola Sydney Plains Greenhood [64537]	Endangered	Species or species habitat likely to occur within area	In feature area
Pultenaea parviflora [19380]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Rhizanthella slateri Eastern Underground Orchid [11768]	Endangered	Species or species habitat may occur within area	In feature area
Rhodamnia rubescens Scrub Turpentine, Brown Malletwood [15763]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Rhodomyrtus psidioides Native Guava [19162]	Critically Endangered	Species or species habitat may occur within area	In feature area
Syzygium paniculatum Magenta Lilly Pilly, Magenta Cherry, Daguba, Scrub Cherry, Creek Lilly Pilly, Brush Cherry [20307]	Vulnerable	Species or species habitat known to occur within area	In feature area
Thesium australe Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Zieria involucrata [3087]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

REPTILE

Scientific Name	Threatened Category	Presence Text	Buffer Status
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Delma impar Striped Legless Lizard, Striped Snake-lizard [1649]	Vulnerable	Species or species habitat may occur within area	In feature area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Hoplocephalus bungaroides Broad-headed Snake [1182]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
SHARK			
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only
SNAIL			
Pommerhelix duralensis Dural Land Snail [85268]	Endangered	Species or species habitat known to occur within area	In feature area
Listed Migratory Species			[Resource Information]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Ardenna grisea Sooty Shearwater [82651]		Species or species habitat likely to occur within area	In buffer area only
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat known to occur within area	In buffer area only
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat may occur within area	In buffer area only
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche eremita Chatham Albatross [64457]	Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Migratory Marine Species			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat may occur within area	In buffer area only
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat may occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Migratory Terrestrial Species

Scientific Name	Threatened Category	Presence Text	Buffer Status
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat likely to occur within area	In feature area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area	In feature area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area	In feature area
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat known to occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Arenaria interpres Ruddy Turnstone [872]		Species or species habitat known to occur within area	In buffer area only
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area	In buffer area only
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
Charadrius bicinctus Double-banded Plover [895]		Species or species habitat known to occur within area	In buffer area only
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area	In buffer area only
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area	In feature area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In buffer area only
Limosa limosa Black-tailed Godwit [845]		Species or species habitat known to occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Numenius phaeopus Whimbrel [849]		Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area	In buffer area only
Philomachus pugnax Ruff (Reeve) [850]		Species or species habitat known to occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat known to occur within area	In buffer area only
Tringa brevipes Grey-tailed Tattler [851]		Species or species habitat known to occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area	In feature area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Species or species habitat known to occur within area	In buffer area only

Other Matters Protected by the EPBC Act

Commonwealth Lands [\[Resource Information \]](#)

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Commonwealth Land Name	State	Buffer Status
Australian Wool Testing Authority Limited		
Commonwealth Land - Australian Wool Testing Authority Limited [14537]	NSW	In buffer area only
Commonwealth Bank of Australia		
Commonwealth Land - Commonwealth Bank of Australia [13959]	NSW	In buffer area only
Commonwealth Trading Bank of Australia		
Commonwealth Land - Commonwealth Trading Bank of Australia [14503]	NSW	In buffer area only
Communications, Information Technology and the Arts - Australian Postal Corporation		
Commonwealth Land - Australian Postal Commission [14495]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [16363]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Australian Postal Commission [13002]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14594]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [12995]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14504]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [14274]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [16051]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [15604]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [12997]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [14602]	NSW	In buffer area only
Communications, Information Technology and the Arts - Telstra Corporation Limited		
Commonwealth Land - Australian & Overseas Telecommunications Corporation [15900]	NSW	In buffer area only
Commonwealth Land - Australian & Overseas Telecommunications Corporation [13000]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13951]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14278]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14276]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13014]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13018]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14494]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14496]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [15700]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14599]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14598]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14597]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Australian Telecommunications Commission [12999]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14252]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14529]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14600]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Corporation [14596]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Corporation [12998]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Corporation [14601]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14275]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [13962]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14617]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14267]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [16252]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [15669]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [12996]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14512]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14511]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14530]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [16429]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [16529]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14592]	NSW	In buffer area only
Defence		
Commonwealth Land - Defence Service Homes Corporation [13010]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14621]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14624]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Service Homes Corporation [13005]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13003]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14590]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14579]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14231]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14573]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14572]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14510]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14527]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14509]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14505]	NSW	In buffer area only
Commonwealth Land - Director of Defence Service Homes [14620]	NSW	In buffer area only
Commonwealth Land - Director of Defence Service Homes [14569]	NSW	In buffer area only
Commonwealth Land - Director of Defence Service Homes [14571]	NSW	In buffer area only
Defence - 1/15 RNSWL - LANCER BARRACKS - PARRAMATTA [11122]	NSW	In buffer area only
Defence - ADFRU PARRAMATTA [10242]	NSW	In buffer area only
Defence - BLACKTOWN TRAINING DEPOT [10178]	NSW	In buffer area only
Defence - CHESTER HILL (NO 2 STORE DPT) [10011]	NSW	In buffer area only
Defence - CHESTER HILL (NO 2 STORE DPT) [10010]	NSW	In buffer area only
Defence - HMAS NIRIMBA [10031]	NSW	In buffer area only
Defence - MERRYLANDS [10204]	NSW	In buffer area only
Defence - NEWINGTON [10317]	NSW	In buffer area only
Defence - NEWINGTON [10316]	NSW	In buffer area only
Defence - NEWINGTON [10315]	NSW	In buffer area only
Defence - NEWINGTON [10314]	NSW	In buffer area only
Defence - NEWINGTON [10313]	NSW	In buffer area only
Defence - NEWINGTON [10312]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10311]	NSW	In buffer area only
Defence - NEWINGTON [10310]	NSW	In buffer area only
Defence - NEWINGTON [10460]	NSW	In buffer area only
Defence - NEWINGTON [10519]	NSW	In buffer area only
Defence - NEWINGTON [10461]	NSW	In buffer area only
Defence - NEWINGTON [10899]	NSW	In buffer area only
Defence - NEWINGTON [10893]	NSW	In buffer area only
Defence - NEWINGTON [10892]	NSW	In buffer area only
Defence - NEWINGTON [10464]	NSW	In buffer area only
Defence - NEWINGTON [10465]	NSW	In buffer area only
Defence - NEWINGTON [10509]	NSW	In buffer area only
Defence - NEWINGTON [10508]	NSW	In buffer area only
Defence - NEWINGTON [10453]	NSW	In buffer area only
Defence - NEWINGTON [10790]	NSW	In buffer area only
Defence - NEWINGTON [10895]	NSW	In buffer area only
Defence - NEWINGTON [10894]	NSW	In buffer area only
Defence - NEWINGTON [10518]	NSW	In buffer area only
Defence - NEWINGTON [10456]	NSW	In buffer area only
Defence - NEWINGTON [10510]	NSW	In buffer area only
Defence - NEWINGTON [10795]	NSW	In buffer area only
Defence - NEWINGTON [10454]	NSW	In buffer area only
Defence - NEWINGTON [10457]	NSW	In buffer area only
Defence - NEWINGTON [10794]	NSW	In buffer area only
Defence - NEWINGTON [10452]	NSW	In buffer area only
Defence - NEWINGTON [10455]	NSW	In buffer area only
Defence - NEWINGTON [10513]	NSW	In buffer area only
Defence - NEWINGTON [10511]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10512]	NSW	In buffer area only
Defence - NEWINGTON [10571]	NSW	In buffer area only
Defence - NEWINGTON [10479]	NSW	In buffer area only
Defence - NEWINGTON [10271]	NSW	In buffer area only
Defence - NEWINGTON [10276]	NSW	In buffer area only
Defence - NEWINGTON [10273]	NSW	In buffer area only
Defence - NEWINGTON [10270]	NSW	In buffer area only
Defence - NEWINGTON [10272]	NSW	In buffer area only
Defence - NEWINGTON [10264]	NSW	In buffer area only
Defence - NEWINGTON [10265]	NSW	In buffer area only
Defence - NEWINGTON [10515]	NSW	In buffer area only
Defence - NEWINGTON [10450]	NSW	In buffer area only
Defence - NEWINGTON [10268]	NSW	In buffer area only
Defence - NEWINGTON [10517]	NSW	In buffer area only
Defence - NEWINGTON [10297]	NSW	In buffer area only
Defence - NEWINGTON [10514]	NSW	In buffer area only
Defence - NEWINGTON [10291]	NSW	In buffer area only
Defence - NEWINGTON [10262]	NSW	In buffer area only
Defence - NEWINGTON [10263]	NSW	In buffer area only
Defence - NEWINGTON [10260]	NSW	In buffer area only
Defence - NEWINGTON [10261]	NSW	In buffer area only
Defence - NEWINGTON [10266]	NSW	In buffer area only
Defence - NEWINGTON [10267]	NSW	In buffer area only
Defence - NEWINGTON [10476]	NSW	In buffer area only
Defence - NEWINGTON [10477]	NSW	In buffer area only
Defence - NEWINGTON [10921]	NSW	In buffer area only
Defence - NEWINGTON [10472]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10473]	NSW	In buffer area only
Defence - NEWINGTON [10474]	NSW	In buffer area only
Defence - NEWINGTON [10475]	NSW	In buffer area only
Defence - NEWINGTON [10803]	NSW	In buffer area only
Defence - NEWINGTON [10788]	NSW	In buffer area only
Defence - NEWINGTON [10470]	NSW	In buffer area only
Defence - NEWINGTON [10471]	NSW	In buffer area only
Defence - NEWINGTON [10506]	NSW	In buffer area only
Defence - NEWINGTON [10505]	NSW	In buffer area only
Defence - NEWINGTON [10808]	NSW	In buffer area only
Defence - NEWINGTON [10500]	NSW	In buffer area only
Defence - NEWINGTON [10468]	NSW	In buffer area only
Defence - NEWINGTON [10807]	NSW	In buffer area only
Defence - NEWINGTON [10804]	NSW	In buffer area only
Defence - NEWINGTON [10504]	NSW	In buffer area only
Defence - NEWINGTON [10809]	NSW	In buffer area only
Defence - NEWINGTON [10806]	NSW	In buffer area only
Defence - NEWINGTON [10462]	NSW	In buffer area only
Defence - NEWINGTON [10805]	NSW	In buffer area only
Defence - NEWINGTON [10502]	NSW	In buffer area only
Defence - NEWINGTON [10501]	NSW	In buffer area only
Defence - NEWINGTON [10463]	NSW	In buffer area only
Defence - NEWINGTON [10503]	NSW	In buffer area only
Defence - NEWINGTON [10370]	NSW	In buffer area only
Defence - NEWINGTON [10371]	NSW	In buffer area only
Defence - NEWINGTON [10318]	NSW	In buffer area only
Defence - NEWINGTON [10905]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10374]	NSW	In buffer area only
Defence - NEWINGTON [10319]	NSW	In buffer area only
Defence - NEWINGTON [10481]	NSW	In buffer area only
Defence - NEWINGTON [10801]	NSW	In buffer area only
Defence - NEWINGTON [10769]	NSW	In buffer area only
Defence - NEWINGTON [10800]	NSW	In buffer area only
Defence - NEWINGTON [10949]	NSW	In buffer area only
Defence - NEWINGTON [10931]	NSW	In buffer area only
Defence - NEWINGTON [10941]	NSW	In buffer area only
Defence - NEWINGTON [10823]	NSW	In buffer area only
Defence - NEWINGTON [10427]	NSW	In buffer area only
Defence - NEWINGTON [10942]	NSW	In buffer area only
Defence - NEWINGTON [10821]	NSW	In buffer area only
Defence - NEWINGTON [10425]	NSW	In buffer area only
Defence - NEWINGTON [10822]	NSW	In buffer area only
Defence - NEWINGTON [10426]	NSW	In buffer area only
Defence - NEWINGTON [10948]	NSW	In buffer area only
Defence - NEWINGTON [10820]	NSW	In buffer area only
Defence - NEWINGTON [10825]	NSW	In buffer area only
Defence - NEWINGTON [10826]	NSW	In buffer area only
Defence - NEWINGTON [10824]	NSW	In buffer area only
Defence - NEWINGTON [10424]	NSW	In buffer area only
Defence - NEWINGTON [10423]	NSW	In buffer area only
Defence - NEWINGTON [10422]	NSW	In buffer area only
Defence - NEWINGTON [10421]	NSW	In buffer area only
Defence - NEWINGTON [10420]	NSW	In buffer area only
Defence - NEWINGTON [10786]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10787]	NSW	In buffer area only
Defence - NEWINGTON [10608]	NSW	In buffer area only
Defence - NEWINGTON [10607]	NSW	In buffer area only
Defence - NEWINGTON [10799]	NSW	In buffer area only
Defence - NEWINGTON [10609]	NSW	In buffer area only
Defence - NEWINGTON [10606]	NSW	In buffer area only
Defence - NEWINGTON [10372]	NSW	In buffer area only
Defence - NEWINGTON [10601]	NSW	In buffer area only
Defence - NEWINGTON [10600]	NSW	In buffer area only
Defence - NEWINGTON [10373]	NSW	In buffer area only
Defence - NEWINGTON [10605]	NSW	In buffer area only
Defence - NEWINGTON [10604]	NSW	In buffer area only
Defence - NEWINGTON [10603]	NSW	In buffer area only
Defence - NEWINGTON [10602]	NSW	In buffer area only
Defence - NEWINGTON [10410]	NSW	In buffer area only
Defence - NEWINGTON [10413]	NSW	In buffer area only
Defence - NEWINGTON [10412]	NSW	In buffer area only
Defence - NEWINGTON [10419]	NSW	In buffer area only
Defence - NEWINGTON [10418]	NSW	In buffer area only
Defence - NEWINGTON [10358]	NSW	In buffer area only
Defence - NEWINGTON [10348]	NSW	In buffer area only
Defence - NEWINGTON [10349]	NSW	In buffer area only
Defence - NEWINGTON [10429]	NSW	In buffer area only
Defence - NEWINGTON [10781]	NSW	In buffer area only
Defence - NEWINGTON [10458]	NSW	In buffer area only
Defence - NEWINGTON [10789]	NSW	In buffer area only
Defence - NEWINGTON [10346]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10812]	NSW	In buffer area only
Defence - NEWINGTON [10347]	NSW	In buffer area only
Defence - NEWINGTON [10813]	NSW	In buffer area only
Defence - NEWINGTON [10639]	NSW	In buffer area only
Defence - NEWINGTON [10814]	NSW	In buffer area only
Defence - NEWINGTON [10256]	NSW	In buffer area only
Defence - NEWINGTON [10815]	NSW	In buffer area only
Defence - NEWINGTON [10342]	NSW	In buffer area only
Defence - NEWINGTON [10269]	NSW	In buffer area only
Defence - NEWINGTON [10343]	NSW	In buffer area only
Defence - NEWINGTON [10344]	NSW	In buffer area only
Defence - NEWINGTON [10810]	NSW	In buffer area only
Defence - NEWINGTON [10345]	NSW	In buffer area only
Defence - NEWINGTON [10811]	NSW	In buffer area only
Defence - NEWINGTON [10340]	NSW	In buffer area only
Defence - NEWINGTON [10341]	NSW	In buffer area only
Defence - NEWINGTON [10816]	NSW	In buffer area only
Defence - NEWINGTON [10819]	NSW	In buffer area only
Defence - NEWINGTON [10630]	NSW	In buffer area only
Defence - NEWINGTON [10631]	NSW	In buffer area only
Defence - NEWINGTON [10636]	NSW	In buffer area only
Defence - NEWINGTON [10637]	NSW	In buffer area only
Defence - NEWINGTON [10964]	NSW	In buffer area only
Defence - NEWINGTON [10632]	NSW	In buffer area only
Defence - NEWINGTON [10633]	NSW	In buffer area only
Defence - NEWINGTON [10634]	NSW	In buffer area only
Defence - NEWINGTON [10635]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10638]	NSW	In buffer area only
Defence - NEWINGTON [10969]	NSW	In buffer area only
Defence - NEWINGTON [10968]	NSW	In buffer area only
Defence - NEWINGTON [10966]	NSW	In buffer area only
Defence - NEWINGTON [10967]	NSW	In buffer area only
Defence - NEWINGTON [10962]	NSW	In buffer area only
Defence - NEWINGTON [10428]	NSW	In buffer area only
Defence - NEWINGTON [10780]	NSW	In buffer area only
Defence - NEWINGTON [10831]	NSW	In buffer area only
Defence - NEWINGTON [10530]	NSW	In buffer area only
Defence - NEWINGTON [10939]	NSW	In buffer area only
Defence - NEWINGTON [10434]	NSW	In buffer area only
Defence - NEWINGTON [10760]	NSW	In buffer area only
Defence - NEWINGTON [10532]	NSW	In buffer area only
Defence - NEWINGTON [10926]	NSW	In buffer area only
Defence - NEWINGTON [10435]	NSW	In buffer area only
Defence - NEWINGTON [10430]	NSW	In buffer area only
Defence - NEWINGTON [10431]	NSW	In buffer area only
Defence - NEWINGTON [10432]	NSW	In buffer area only
Defence - NEWINGTON [10433]	NSW	In buffer area only
Defence - NEWINGTON [10784]	NSW	In buffer area only
Defence - NEWINGTON [10785]	NSW	In buffer area only
Defence - NEWINGTON [10782]	NSW	In buffer area only
Defence - NEWINGTON [10783]	NSW	In buffer area only
Defence - NEWINGTON [10860]	NSW	In buffer area only
Defence - NEWINGTON [10827]	NSW	In buffer area only
Defence - NEWINGTON [10866]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10863]	NSW	In buffer area only
Defence - NEWINGTON [10867]	NSW	In buffer area only
Defence - NEWINGTON [10531]	NSW	In buffer area only
Defence - NEWINGTON [10534]	NSW	In buffer area only
Defence - NEWINGTON [10869]	NSW	In buffer area only
Defence - NEWINGTON [10361]	NSW	In buffer area only
Defence - NEWINGTON [10362]	NSW	In buffer area only
Defence - NEWINGTON [10363]	NSW	In buffer area only
Defence - NEWINGTON [10364]	NSW	In buffer area only
Defence - NEWINGTON [10946]	NSW	In buffer area only
Defence - NEWINGTON [10369]	NSW	In buffer area only
Defence - NEWINGTON [10366]	NSW	In buffer area only
Defence - NEWINGTON [10365]	NSW	In buffer area only
Defence - NEWINGTON [10368]	NSW	In buffer area only
Defence - NEWINGTON [10367]	NSW	In buffer area only
Defence - NEWINGTON [10759]	NSW	In buffer area only
Defence - NEWINGTON [10758]	NSW	In buffer area only
Defence - NEWINGTON [10617]	NSW	In buffer area only
Defence - NEWINGTON [10613]	NSW	In buffer area only
Defence - NEWINGTON [10612]	NSW	In buffer area only
Defence - NEWINGTON [10360]	NSW	In buffer area only
Defence - NEWINGTON [10755]	NSW	In buffer area only
Defence - NEWINGTON [10618]	NSW	In buffer area only
Defence - NEWINGTON [10756]	NSW	In buffer area only
Defence - NEWINGTON [10614]	NSW	In buffer area only
Defence - NEWINGTON [10619]	NSW	In buffer area only
Defence - NEWINGTON [10616]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10615]	NSW	In buffer area only
Defence - NEWINGTON [10793]	NSW	In buffer area only
Defence - NEWINGTON [10415]	NSW	In buffer area only
Defence - NEWINGTON [10791]	NSW	In buffer area only
Defence - NEWINGTON [10417]	NSW	In buffer area only
Defence - NEWINGTON [10414]	NSW	In buffer area only
Defence - NEWINGTON [10411]	NSW	In buffer area only
Defence - NEWINGTON [10416]	NSW	In buffer area only
Defence - NEWINGTON [10393]	NSW	In buffer area only
Defence - NEWINGTON [10396]	NSW	In buffer area only
Defence - NEWINGTON [10397]	NSW	In buffer area only
Defence - NEWINGTON [10394]	NSW	In buffer area only
Defence - NEWINGTON [10922]	NSW	In buffer area only
Defence - NEWINGTON [10395]	NSW	In buffer area only
Defence - NEWINGTON [10924]	NSW	In buffer area only
Defence - NEWINGTON [10398]	NSW	In buffer area only
Defence - NEWINGTON [10255]	NSW	In buffer area only
Defence - NEWINGTON [11058]	NSW	In buffer area only
Defence - NEWINGTON [11059]	NSW	In buffer area only
Defence - NEWINGTON [10488]	NSW	In buffer area only
Defence - NEWINGTON [10920]	NSW	In buffer area only
Defence - NEWINGTON [10923]	NSW	In buffer area only
Defence - NEWINGTON [10444]	NSW	In buffer area only
Defence - NEWINGTON [10447]	NSW	In buffer area only
Defence - NEWINGTON [10446]	NSW	In buffer area only
Defence - NEWINGTON [10449]	NSW	In buffer area only
Defence - NEWINGTON [10888]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10445]	NSW	In buffer area only
Defence - NEWINGTON [10596]	NSW	In buffer area only
Defence - NEWINGTON [10448]	NSW	In buffer area only
Defence - NEWINGTON [10599]	NSW	In buffer area only
Defence - NEWINGTON [10883]	NSW	In buffer area only
Defence - NEWINGTON [10882]	NSW	In buffer area only
Defence - NEWINGTON [10597]	NSW	In buffer area only
Defence - NEWINGTON [10884]	NSW	In buffer area only
Defence - NEWINGTON [10598]	NSW	In buffer area only
Defence - NEWINGTON [10817]	NSW	In buffer area only
Defence - NEWINGTON [10917]	NSW	In buffer area only
Defence - NEWINGTON [10910]	NSW	In buffer area only
Defence - NEWINGTON [10914]	NSW	In buffer area only
Defence - NEWINGTON [10392]	NSW	In buffer area only
Defence - NEWINGTON [10915]	NSW	In buffer area only
Defence - NEWINGTON [10439]	NSW	In buffer area only
Defence - NEWINGTON [10438]	NSW	In buffer area only
Defence - NEWINGTON [10912]	NSW	In buffer area only
Defence - NEWINGTON [10913]	NSW	In buffer area only
Defence - NEWINGTON [10834]	NSW	In buffer area only
Defence - NEWINGTON [10909]	NSW	In buffer area only
Defence - NEWINGTON [10835]	NSW	In buffer area only
Defence - NEWINGTON [10902]	NSW	In buffer area only
Defence - NEWINGTON [10832]	NSW	In buffer area only
Defence - NEWINGTON [10833]	NSW	In buffer area only
Defence - NEWINGTON [10887]	NSW	In buffer area only
Defence - NEWINGTON [10516]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10469]	NSW	In buffer area only
Defence - NEWINGTON [10247]	NSW	In buffer area only
Defence - NEWINGTON [10507]	NSW	In buffer area only
Defence - NEWINGTON [10836]	NSW	In buffer area only
Defence - NEWINGTON [10903]	NSW	In buffer area only
Defence - NEWINGTON [10837]	NSW	In buffer area only
Defence - NEWINGTON [10904]	NSW	In buffer area only
Defence - NEWINGTON [10252]	NSW	In buffer area only
Defence - NEWINGTON [10958]	NSW	In buffer area only
Defence - NEWINGTON [10830]	NSW	In buffer area only
Defence - NEWINGTON [10938]	NSW	In buffer area only
Defence - NEWINGTON [10595]	NSW	In buffer area only
Defence - NEWINGTON [10594]	NSW	In buffer area only
Defence - NEWINGTON [10590]	NSW	In buffer area only
Defence - NEWINGTON [10554]	NSW	In buffer area only
Defence - NEWINGTON [10558]	NSW	In buffer area only
Defence - NEWINGTON [10555]	NSW	In buffer area only
Defence - NEWINGTON [10593]	NSW	In buffer area only
Defence - NEWINGTON [10259]	NSW	In buffer area only
Defence - NEWINGTON [10592]	NSW	In buffer area only
Defence - NEWINGTON [10258]	NSW	In buffer area only
Defence - NEWINGTON [10853]	NSW	In buffer area only
Defence - NEWINGTON [11054]	NSW	In buffer area only
Defence - NEWINGTON [10859]	NSW	In buffer area only
Defence - NEWINGTON [10937]	NSW	In buffer area only
Defence - NEWINGTON [10858]	NSW	In buffer area only
Defence - NEWINGTON [10857]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10850]	NSW	In buffer area only
Defence - NEWINGTON [10797]	NSW	In buffer area only
Defence - NEWINGTON [10957]	NSW	In buffer area only
Defence - NEWINGTON [10796]	NSW	In buffer area only
Defence - NEWINGTON [10798]	NSW	In buffer area only
Defence - NEWINGTON [10838]	NSW	In buffer area only
Defence - NEWINGTON [10839]	NSW	In buffer area only
Defence - NEWINGTON [10933]	NSW	In buffer area only
Defence - NEWINGTON [10934]	NSW	In buffer area only
Defence - NEWINGTON [10556]	NSW	In buffer area only
Defence - NEWINGTON [10971]	NSW	In buffer area only
Defence - NEWINGTON [10557]	NSW	In buffer area only
Defence - NEWINGTON [10528]	NSW	In buffer area only
Defence - NEWINGTON [10542]	NSW	In buffer area only
Defence - NEWINGTON [10544]	NSW	In buffer area only
Defence - NEWINGTON [10874]	NSW	In buffer area only
Defence - NEWINGTON [10543]	NSW	In buffer area only
Defence - NEWINGTON [10875]	NSW	In buffer area only
Defence - NEWINGTON [10559]	NSW	In buffer area only
Defence - NEWINGTON [10876]	NSW	In buffer area only
Defence - NEWINGTON [10872]	NSW	In buffer area only
Defence - NEWINGTON [10257]	NSW	In buffer area only
Defence - NEWINGTON [10251]	NSW	In buffer area only
Defence - NEWINGTON [10553]	NSW	In buffer area only
Defence - NEWINGTON [10253]	NSW	In buffer area only
Defence - NEWINGTON [10551]	NSW	In buffer area only
Defence - NEWINGTON [10552]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10550]	NSW	In buffer area only
Defence - NEWINGTON [10848]	NSW	In buffer area only
Defence - NEWINGTON [10849]	NSW	In buffer area only
Defence - NEWINGTON [10561]	NSW	In buffer area only
Defence - NEWINGTON [10840]	NSW	In buffer area only
Defence - NEWINGTON [10841]	NSW	In buffer area only
Defence - NEWINGTON [10846]	NSW	In buffer area only
Defence - NEWINGTON [10844]	NSW	In buffer area only
Defence - NEWINGTON [10845]	NSW	In buffer area only
Defence - NEWINGTON [10927]	NSW	In buffer area only
Defence - NEWINGTON [10478]	NSW	In buffer area only
Defence - NEWINGTON [10328]	NSW	In buffer area only
Defence - NEWINGTON [10274]	NSW	In buffer area only
Defence - NEWINGTON [10275]	NSW	In buffer area only
Defence - NEWINGTON [10546]	NSW	In buffer area only
Defence - NEWINGTON [10547]	NSW	In buffer area only
Defence - NEWINGTON [10545]	NSW	In buffer area only
Defence - NEWINGTON [10324]	NSW	In buffer area only
Defence - NEWINGTON [10329]	NSW	In buffer area only
Defence - NEWINGTON [10246]	NSW	In buffer area only
Defence - NEWINGTON [10563]	NSW	In buffer area only
Defence - NEWINGTON [10562]	NSW	In buffer area only
Defence - NEWINGTON [10249]	NSW	In buffer area only
Defence - NEWINGTON [10564]	NSW	In buffer area only
Defence - NEWINGTON [10321]	NSW	In buffer area only
Defence - NEWINGTON [10322]	NSW	In buffer area only
Defence - NEWINGTON [10323]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10325]	NSW	In buffer area only
Defence - NEWINGTON [10326]	NSW	In buffer area only
Defence - NEWINGTON [10327]	NSW	In buffer area only
Defence - NEWINGTON [10320]	NSW	In buffer area only
Defence - NEWINGTON [10248]	NSW	In buffer area only
Defence - NEWINGTON [10661]	NSW	In buffer area only
Defence - NEWINGTON [10669]	NSW	In buffer area only
Defence - NEWINGTON [10668]	NSW	In buffer area only
Defence - NEWINGTON [10485]	NSW	In buffer area only
Defence - NEWINGTON [10484]	NSW	In buffer area only
Defence - NEWINGTON [10487]	NSW	In buffer area only
Defence - NEWINGTON [10665]	NSW	In buffer area only
Defence - NEWINGTON [10664]	NSW	In buffer area only
Defence - NEWINGTON [10610]	NSW	In buffer area only
Defence - NEWINGTON [10667]	NSW	In buffer area only
Defence - NEWINGTON [10666]	NSW	In buffer area only
Defence - NEWINGTON [10306]	NSW	In buffer area only
Defence - NEWINGTON [10792]	NSW	In buffer area only
Defence - NEWINGTON [10301]	NSW	In buffer area only
Defence - NEWINGTON [11045]	NSW	In buffer area only
Defence - NEWINGTON [10304]	NSW	In buffer area only
Defence - NEWINGTON [10399]	NSW	In buffer area only
Defence - NEWINGTON [10307]	NSW	In buffer area only
Defence - NEWINGTON [10308]	NSW	In buffer area only
Defence - NEWINGTON [10305]	NSW	In buffer area only
Defence - NEWINGTON [10611]	NSW	In buffer area only
Defence - NEWINGTON [10309]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10768]	NSW	In buffer area only
Defence - NEWINGTON [10486]	NSW	In buffer area only
Defence - NEWINGTON [10480]	NSW	In buffer area only
Defence - NEWINGTON [10483]	NSW	In buffer area only
Defence - NEWINGTON [10482]	NSW	In buffer area only
Defence - NEWINGTON [10764]	NSW	In buffer area only
Defence - NEWINGTON [10765]	NSW	In buffer area only
Defence - NEWINGTON [10766]	NSW	In buffer area only
Defence - NEWINGTON [10767]	NSW	In buffer area only
Defence - NEWINGTON [10489]	NSW	In buffer area only
Defence - NEWINGTON [10660]	NSW	In buffer area only
Defence - NEWINGTON [10662]	NSW	In buffer area only
Defence - NEWINGTON [10663]	NSW	In buffer area only
Defence - NEWINGTON [10566]	NSW	In buffer area only
Defence - NEWINGTON [10565]	NSW	In buffer area only
Defence - NEWINGTON [10387]	NSW	In buffer area only
Defence - NEWINGTON [10386]	NSW	In buffer area only
Defence - NEWINGTON [10385]	NSW	In buffer area only
Defence - NEWINGTON [10384]	NSW	In buffer area only
Defence - NEWINGTON [10389]	NSW	In buffer area only
Defence - NEWINGTON [10383]	NSW	In buffer area only
Defence - NEWINGTON [10671]	NSW	In buffer area only
Defence - NEWINGTON [10670]	NSW	In buffer area only
Defence - NEWINGTON [10672]	NSW	In buffer area only
Defence - NEWINGTON [10951]	NSW	In buffer area only
Defence - NEWINGTON [10770]	NSW	In buffer area only
Defence - NEWINGTON [10771]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10772]	NSW	In buffer area only
Defence - NEWINGTON [10388]	NSW	In buffer area only
Defence - NEWINGTON [10459]	NSW	In buffer area only
Defence - NEWINGTON [10773]	NSW	In buffer area only
Defence - NEWINGTON [10653]	NSW	In buffer area only
Defence - NEWINGTON [10581]	NSW	In buffer area only
Defence - NEWINGTON [10587]	NSW	In buffer area only
Defence - NEWINGTON [10586]	NSW	In buffer area only
Defence - NEWINGTON [10585]	NSW	In buffer area only
Defence - NEWINGTON [10560]	NSW	In buffer area only
Defence - NEWINGTON [10583]	NSW	In buffer area only
Defence - NEWINGTON [10582]	NSW	In buffer area only
Defence - NEWINGTON [10589]	NSW	In buffer area only
Defence - NEWINGTON [10584]	NSW	In buffer area only
Defence - NEWINGTON [10588]	NSW	In buffer area only
Defence - NEWINGTON [10288]	NSW	In buffer area only
Defence - NEWINGTON [10330]	NSW	In buffer area only
Defence - NEWINGTON [10520]	NSW	In buffer area only
Defence - NEWINGTON [10527]	NSW	In buffer area only
Defence - NEWINGTON [10526]	NSW	In buffer area only
Defence - NEWINGTON [10287]	NSW	In buffer area only
Defence - NEWINGTON [10529]	NSW	In buffer area only
Defence - NEWINGTON [10523]	NSW	In buffer area only
Defence - NEWINGTON [10332]	NSW	In buffer area only
Defence - NEWINGTON [10522]	NSW	In buffer area only
Defence - NEWINGTON [10331]	NSW	In buffer area only
Defence - NEWINGTON [10524]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10525]	NSW	In buffer area only
Defence - NEWINGTON [10333]	NSW	In buffer area only
Defence - NEWINGTON [10335]	NSW	In buffer area only
Defence - NEWINGTON [10334]	NSW	In buffer area only
Defence - NEWINGTON [10337]	NSW	In buffer area only
Defence - NEWINGTON [10336]	NSW	In buffer area only
Defence - NEWINGTON [10339]	NSW	In buffer area only
Defence - NEWINGTON [10338]	NSW	In buffer area only
Defence - NEWINGTON [10802]	NSW	In buffer area only
Defence - NEWINGTON [10775]	NSW	In buffer area only
Defence - NEWINGTON [10774]	NSW	In buffer area only
Defence - NEWINGTON [10779]	NSW	In buffer area only
Defence - NEWINGTON [10778]	NSW	In buffer area only
Defence - NEWINGTON [10777]	NSW	In buffer area only
Defence - NEWINGTON [10776]	NSW	In buffer area only
Defence - NEWINGTON [10407]	NSW	In buffer area only
Defence - NEWINGTON [10404]	NSW	In buffer area only
Defence - NEWINGTON [10521]	NSW	In buffer area only
Defence - NEWINGTON [10548]	NSW	In buffer area only
Defence - NEWINGTON [10403]	NSW	In buffer area only
Defence - NEWINGTON [10400]	NSW	In buffer area only
Defence - NEWINGTON [10401]	NSW	In buffer area only
Defence - NEWINGTON [10549]	NSW	In buffer area only
Defence - NEWINGTON [10406]	NSW	In buffer area only
Defence - NEWINGTON [10402]	NSW	In buffer area only
Defence - NEWINGTON [10648]	NSW	In buffer area only
Defence - NEWINGTON [10289]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10644]	NSW	In buffer area only
Defence - NEWINGTON [10649]	NSW	In buffer area only
Defence - NEWINGTON [10642]	NSW	In buffer area only
Defence - NEWINGTON [10643]	NSW	In buffer area only
Defence - NEWINGTON [10654]	NSW	In buffer area only
Defence - NEWINGTON [10640]	NSW	In buffer area only
Defence - NEWINGTON [10641]	NSW	In buffer area only
Defence - NEWINGTON [10656]	NSW	In buffer area only
Defence - NEWINGTON [10646]	NSW	In buffer area only
Defence - NEWINGTON [10655]	NSW	In buffer area only
Defence - NEWINGTON [10647]	NSW	In buffer area only
Defence - NEWINGTON [10658]	NSW	In buffer area only
Defence - NEWINGTON [10657]	NSW	In buffer area only
Defence - NEWINGTON [10645]	NSW	In buffer area only
Defence - NEWINGTON [10659]	NSW	In buffer area only
Defence - NEWINGTON [10408]	NSW	In buffer area only
Defence - NEWINGTON [10409]	NSW	In buffer area only
Defence - NEWINGTON [10405]	NSW	In buffer area only
Defence - NEWINGTON [10761]	NSW	In buffer area only
Defence - NEWINGTON [10762]	NSW	In buffer area only
Defence - NEWINGTON [10763]	NSW	In buffer area only
Defence - NEWINGTON [10818]	NSW	In buffer area only
Defence - NEWINGTON [10945]	NSW	In buffer area only
Defence - NEWINGTON [10451]	NSW	In buffer area only
Defence - NEWINGTON [10881]	NSW	In buffer area only
Defence - NEWINGTON [10954]	NSW	In buffer area only
Defence - NEWINGTON [10467]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10466]	NSW	In buffer area only
Defence - NEWINGTON [10829]	NSW	In buffer area only
Defence - NEWINGTON [10828]	NSW	In buffer area only
Defence - NEWINGTON [10940]	NSW	In buffer area only
Defence - NEWINGTON [10622]	NSW	In buffer area only
Defence - NEWINGTON [10391]	NSW	In buffer area only
Defence - NEWINGTON [10359]	NSW	In buffer area only
Defence - NEWINGTON [10390]	NSW	In buffer area only
Defence - NEWINGTON [10628]	NSW	In buffer area only
Defence - NEWINGTON [10629]	NSW	In buffer area only
Defence - NEWINGTON [10352]	NSW	In buffer area only
Defence - NEWINGTON [10350]	NSW	In buffer area only
Defence - NEWINGTON [10351]	NSW	In buffer area only
Defence - NEWINGTON [10535]	NSW	In buffer area only
Defence - NEWINGTON [10970]	NSW	In buffer area only
Defence - NEWINGTON [10623]	NSW	In buffer area only
Defence - NEWINGTON [10972]	NSW	In buffer area only
Defence - NEWINGTON [10973]	NSW	In buffer area only
Defence - NEWINGTON [10624]	NSW	In buffer area only
Defence - NEWINGTON [10625]	NSW	In buffer area only
Defence - NEWINGTON [10626]	NSW	In buffer area only
Defence - NEWINGTON [10627]	NSW	In buffer area only
Defence - NEWINGTON [10620]	NSW	In buffer area only
Defence - NEWINGTON [10621]	NSW	In buffer area only
Defence - NEWINGTON [10493]	NSW	In buffer area only
Defence - NEWINGTON [10490]	NSW	In buffer area only
Defence - NEWINGTON [10492]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10437]	NSW	In buffer area only
Defence - NEWINGTON [10652]	NSW	In buffer area only
Defence - NEWINGTON [10651]	NSW	In buffer area only
Defence - NEWINGTON [10650]	NSW	In buffer area only
Defence - NEWINGTON [10494]	NSW	In buffer area only
Defence - NEWINGTON [10491]	NSW	In buffer area only
Defence - NEWINGTON [10533]	NSW	In buffer area only
Defence - TIMOR BARRACKS - DUNDAS [11097]	NSW	In buffer area only
Defence - TIMOR BARRACKS - DUNDAS [11096]	NSW	In buffer area only
Defence - VILLAWOOD - MOTOR REPAIR W/SHP (VILLAWOOD GEMS BASE) [10231]	NSW	In buffer area only
Defence - Defence Housing Authority		
Commonwealth Land - Defence Housing Authority [13964]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13963]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14273]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13961]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13960]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14277]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14272]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13956]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13957]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14260]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14261]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14262]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14263]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14265]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13011]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14268]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Housing Authority [14266]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14269]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14264]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13006]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15213]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14616]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15602]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16013]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15902]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14270]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14271]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16362]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14239]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14238]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16012]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14235]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14234]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14237]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14236]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13007]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14615]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14591]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [12994]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14243]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14248]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14247]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14240]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Housing Authority [14241]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14242]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14244]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14245]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14246]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14249]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16082]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14251]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14253]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14254]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14258]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14259]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14250]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14522]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14521]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14256]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14257]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14255]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13012]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15739]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13008]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13009]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14499]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14498]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14497]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14493]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14492]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Director of War Service Homes [14622]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14623]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13886]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13887]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13004]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14568]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [16563]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14427]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14593]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14578]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14581]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14580]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14582]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14232]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14233]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14575]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14574]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14577]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14576]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14570]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14589]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14595]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14584]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14583]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14586]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14585]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14588]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Director of War Service Homes [14587]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14532]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14519]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14518]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14513]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14531]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14517]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14516]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14515]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14514]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14534]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14533]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13862]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14523]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14520]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14525]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14524]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14526]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14528]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14507]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14508]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14506]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14501]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14500]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14502]	NSW	In buffer area only
Education, Science and Training - CSIRO		
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14612]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14610]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14611]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14614]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14613]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14608]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14609]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14607]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14605]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14606]	NSW	In buffer area only

Treasury - Reserve Bank of Australia

Commonwealth Land - Reserve Bank of Australia [13001]	NSW	In buffer area only
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Unknown

Commonwealth Land - [13016]	NSW	In buffer area only
Commonwealth Land - [13017]	NSW	In buffer area only
Commonwealth Land - [16472]	NSW	In buffer area only
Commonwealth Land - [15453]	NSW	In buffer area only
Commonwealth Land - [15891]	NSW	In buffer area only
Commonwealth Land - [14538]	NSW	In buffer area only
Commonwealth Land - [16420]	NSW	In buffer area only
Commonwealth Land - [13013]	NSW	In buffer area only

Commonwealth Heritage Places

[[Resource Information](#)]

Name	State	Status	Buffer Status
Historic			
Lancer Barracks	NSW	Listed place	In buffer area only
Lancer Barracks Precinct	NSW	Listed place	In buffer area only

Name	State	Status	Buffer Status
Villawood Immigration Centre	NSW	Listed place	In buffer area only

Listed Marine Species	[Resource Information]		
Scientific Name	Threatened Category	Presence Text	Buffer Status

Scientific Name	Threatened Category	Presence Text	Buffer Status
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Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Ardenna grisea as Puffinus griseus Sooty Shearwater [82651]		Species or species habitat likely to occur within area	In buffer area only
Arenaria interpres Ruddy Turnstone [872]		Species or species habitat known to occur within area	In buffer area only
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area overfly marine area	In feature area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area overfly marine area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In buffer area only
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat known to occur within area	In buffer area only
Chalcites osculans as Chrysococcyx osculans Black-eared Cuckoo [83425]		Species or species habitat likely to occur within area overfly marine area	In feature area
Charadrius bicinctus Double-banded Plover [895]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area	In buffer area only
Charadrius ruficapillus Red-capped Plover [881]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea antipodensis gibsoni as Diomedea gibsoni Gibson's Albatross [82270]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area	In buffer area only
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area overfly marine area	In feature area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Breeding known to occur within area	In feature area
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In buffer area only
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In buffer area only
Limosa limosa Black-tailed Godwit [845]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area overfly marine area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat likely to occur within area overfly marine area	In feature area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area overfly marine area	In feature area
Neophema chrysostoma Blue-winged Parrot [726]		Species or species habitat may occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Numenius phaeopus Whimbrel [849]		Species or species habitat known to occur within area	In buffer area only
Pachyptila turtur Fairy Prion [1066]		Species or species habitat known to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat may occur within area	In buffer area only
Philomachus pugnax Ruff (Reeve) [850]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat known to occur within area	In buffer area only
Recurvirostra novaehollandiae Red-necked Avocet [871]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area overfly marine area	In feature area
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat known to occur within area overfly marine area	In feature area
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche bulleri platei as Thalassarche sp. nov. Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche eremita Chatham Albatross [64457]	Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Tringa brevipes as Heteroscelus brevipes Grey-tailed Tattler [851]		Species or species habitat known to occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area overfly marine area	In feature area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Reptile			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Berowra Valley	National Park	NSW	In buffer area only
Dural	Nature Reserve	NSW	In buffer area only
Prospect	Nature Reserve	NSW	In buffer area only

EPBC Act Referrals

EPBC Act Referrals				[Resource Information]
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Parramatta Light Rail Stage 2	2022/09300		Assessment	In buffer area only

Controlled action

418 Withers Road Subdivision of lot 1020 & 1022	2010/5578	Controlled Action	Post-Approval	In buffer area only
Commercial development, 132 Marsden Street, Parramatta, NSW	2019/8447	Controlled Action	Completed	In buffer area only
Conrad and Keirle Roads Residential Subdivision	2000/78	Controlled Action	Post-Approval	In buffer area only
Construct an integrated residential development, NSW	2013/6910	Controlled Action	Post-Approval	In buffer area only
Construction of a 15 storey office tower at the Parramatta Justice Precinct, Parramatta, NSW	2014/7161	Controlled Action	Completed	In buffer area only
Construction of three buildings in Parramatta Justice Precinct, Parramatta, NSW	2014/7330	Controlled Action	Completed	In buffer area only
Demolition of an existing building and construction of a new building 5-9 Hunter Street, Parramatta	2014/7334	Controlled Action	Further Information Request	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Glenwood Residential Subdivision	2000/77	Controlled Action	Post-Approval	In buffer area only
Increase in building height,29 Hunter Street, Old Government House precinct, Parramatta,NSW	2013/7063	Controlled Action	Completed	In buffer area only
Kellyville Precinct	2020/8828	Controlled Action	Post-Approval	In buffer area only
Light Horse Interchange Business Hub, Eastern Creek, NSW	2019/8395	Controlled Action	Post-Approval	In buffer area only
Lot 131 DP 2123, Rosebury Road, Kellyville, residential development	2003/1015	Controlled Action	Completed	In buffer area only
Lyn Parade Extension	2004/1392	Controlled Action	Post-Approval	In buffer area only
Modifications to V by Crown Development, Parramatta, NSW	2014/7331	Controlled Action	Post-Approval	In buffer area only
North West Rail Link	2012/6360	Controlled Action	Post-Approval	In buffer area only
Phase 2 of the Villawood Immigration Detention Facility Redevelopment Project	2011/5947	Controlled Action	Post-Approval	In buffer area only
Residential Development	2013/6974	Controlled Action	Post-Approval	In buffer area only
Residential development, 35 Denis Winston Drive, Doonside, NSW	2018/8203	Controlled Action	Further Information Request	In buffer area only
Residential Development, Lots 13 & 14, Balmoral Road, Kellyville, NSW	2013/6884	Controlled Action	Post-Approval	In buffer area only
Residential Development/Lot 102 DP 830738 Conrad Road	2001/518	Controlled Action	Completed	In buffer area only
Residential Development of Lot 7 DP 270109 Eldon Green, West Pennant Hills	2010/5610	Controlled Action	Post-Approval	In buffer area only
Residential Development of Lot G and H	2000/114	Controlled Action	Post-Approval	In buffer area only
residential subdivision 5 residential allotments DP 270109	2005/2340	Controlled Action	Completed	In buffer area only
Service centre, 6 Honeman Close, Huntingwood, NSW	2018/8290	Controlled Action	Post-Approval	In buffer area only
Shell Clyde Terminal Expansion, Rosehill, NSW	2013/6878	Controlled Action	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Southern Han commercial development, Hunter and Macquarie Sts, Parramatta, NSW	2014/7359	Controlled Action	Further Information Request	In buffer area only
V by Crown - Mixed Use Development Project, Parramatta, NSW	2013/6803	Controlled Action	Post-Approval	In buffer area only
Warragamba Dam Raising Project	2017/7940	Controlled Action	Assessment Approach	In buffer area only
Western Sydney International Dragway	2002/720	Controlled Action	Completed	In buffer area only
Not controlled action				
14 residential lots on Lot 18 DP 1034206 & Lot 131 DP 2123, Rosebery Road	2005/2230	Not Controlled Action	Completed	In buffer area only
18-hole, golf course development, west of Eastern Creek	2004/1757	Not Controlled Action	Completed	In buffer area only
356 Old Windsor Road, development of six industrial allotments and retention of native bushland	2004/1465	Not Controlled Action	Completed	In feature area
Adaptive reuse of George Street Gatehouse, Parramatta Regional Park, NSW	2013/7015	Not Controlled Action	Completed	In buffer area only
Adaptive reuse of the Queens Road Gatehouse, Parramatta Park, NSW	2015/7602	Not Controlled Action	Completed	In buffer area only
Australia Post Site Rehabilitation	2002/609	Not Controlled Action	Completed	In buffer area only
Clearance of 6.3ha of Cumberland Plain Woodland for industrial subdivision cnr of Old Walgrove and W	2004/1445	Not Controlled Action	Completed	In buffer area only
Clyde Barging Facility, Grand Avenue, Rosehill, NSW	2018/8140	Not Controlled Action	Completed	In buffer area only
Concrete Batching Plant and Associated Facilities	2005/2067	Not Controlled Action	Completed	In buffer area only
Conrad Road Residential Subdivision	2001/320	Not Controlled Action	Completed	In feature area
construct access road and install underground water main	2005/2299	Not Controlled Action	Completed	In buffer area only
Construction and Operation of the Parramatta Rail Link - between	2002/673	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
<u>Parramatta and</u>				
<u>Construction of a playing field and associated facilities</u>	2004/1798	Not Controlled Action	Completed	In buffer area only
<u>construction of a road linking Newbridge Road and Nuwarra Road</u>	2004/1843	Not Controlled Action	Completed	In buffer area only
<u>Demolition of redundant buildings at the Villawood Immigration Detention Centre</u>	2001/403	Not Controlled Action	Completed	In buffer area only
<u>Development of a Retirement Village</u>	2009/4746	Not Controlled Action	Completed	In buffer area only
<u>Duplication of the single rail line between Quakers Hill & Vineyard</u>	2009/4872	Not Controlled Action	Completed	In buffer area only
<u>Electricity Substation at Old Wallgrove Road</u>	2005/2220	Not Controlled Action	Completed	In buffer area only
<u>Erection of a dwelling and associated access and infrastructure, 19 Tidswell Str</u>	2003/1078	Not Controlled Action	Completed	In buffer area only
<u>Former CSIRO Clunies Ross Research Station</u>	2002/803	Not Controlled Action	Completed	In buffer area only
<u>Fyfe Road, Rouse Hill Residential Subdivision</u>	2002/831	Not Controlled Action	Completed	In buffer area only
<u>Gardens Precinct Stage 1 landscaping works, Parramatta, NSW</u>	2015/7443	Not Controlled Action	Completed	In buffer area only
<u>gas main installation from Eastern Creek to Erskine Park</u>	2005/2235	Not Controlled Action	Completed	In buffer area only
<u>Georges River Program 2</u>	2003/999	Not Controlled Action	Completed	In buffer area only
<u>Green Valley NSW residential development</u>	2003/1236	Not Controlled Action	Completed	In buffer area only
<u>Huntingwood Industrial Estate Development</u>	2002/834	Not Controlled Action	Completed	In buffer area only
<u>Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia</u>	2015/7522	Not Controlled Action	Completed	In feature area
<u>INDIGO Central Submarine Telecommunications Cable</u>	2017/8127	Not Controlled Action	Completed	In buffer area only
<u>Library Building and Underground Car Park Development - Corner of Alpha Street n</u>	2001/483	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Lot 43 Fyfe Road Residential Subdivision	2002/838	Not Controlled Action	Completed	In buffer area only
Lots 24 & 25 Kierle Road Residential Subdivision, Kellyville	2001/335	Not Controlled Action	Completed	In buffer area only
M2 Motorway Upgrade	2010/5329	Not Controlled Action	Completed	In buffer area only
Mixed Used Residential Development	2012/6358	Not Controlled Action	Completed	In buffer area only
Mountain View Classrooms Construction	2001/306	Not Controlled Action	Completed	In feature area
No. 387 Blacktown Road Housing Development/EPBC 2000-92	2000/92	Not Controlled Action	Completed	In buffer area only
Northwest Transitways Project	2002/796	Not Controlled Action	Completed	In feature area
Overhead cover for heritage vehicles, Lancer Barracks, Parramatta	2018/8199	Not Controlled Action	Completed	In buffer area only
Parramatta Light Rail (Stage 1) - Westmead to Carlingford, via Parramatta CBD	2017/7966	Not Controlled Action	Completed	In buffer area only
Parramatta North Urban Redevelopment Project, NSW	2014/7378	Not Controlled Action	Completed	In buffer area only
Precinct 9, Tallowood Hills Estate	2001/173	Not Controlled Action	Completed	In buffer area only
Proposed industrial Developments Bragham Drive, Eastern Creek	2012/6383	Not Controlled Action	Completed	In buffer area only
Proposed third rail track and associated infrastructure	2013/6760	Not Controlled Action	Completed	In buffer area only
Removal of Weeds & Native Vegetation Hannah Avenue	2006/2621	Not Controlled Action	Completed	In buffer area only
Residential development, 28 Balmoral Road, Kellyville	2014/7145	Not Controlled Action	Completed	In buffer area only
residential development, Lalor Road and Stanbury Place	2002/892	Not Controlled Action	Completed	In buffer area only
Residential Development - 55 Coonara Avenue, West Pennant Hills NSW 2125	2021/8995	Not Controlled Action	Completed	In buffer area only
Residential development at Doonside Crescent Woodcroft, Blacktown LGA	2004/1378	Not Controlled Action	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Residential Development Kellyville	2000/60	Not Controlled Action	Completed	In buffer area only
Residential development within 2.08ha, Fyfe Road	2005/1966	Not Controlled Action	Completed	In feature area
Residential Land Subdivision	2011/5963	Not Controlled Action	Completed	In buffer area only
Residential Land Subdivision-Fairway Drive Kellyville	2011/5910	Not Controlled Action	Completed	In buffer area only
Residential Subdivision	2001/304	Not Controlled Action	Completed	In feature area
Residential Subdivision	2001/316	Not Controlled Action	Completed	In buffer area only
Residential Subdivision	2001/375	Not Controlled Action	Completed	In buffer area only
Residential subdivision, cnr Doris Hirst Place and Highs Road	2005/2392	Not Controlled Action	Completed	In feature area
Residential Subdivision in Hampton Cr, Prospect, City of Blacktown	2008/3953	Not Controlled Action	Completed	In buffer area only
Residential subdivision Lot 1005 Conrad Road	2003/1054	Not Controlled Action	Completed	In feature area
Residential subdivision works, Spurway St, Ermington	2003/1130	Not Controlled Action	Completed	In buffer area only
Rezoning & Disposal of Quakers Hill property	2001/281	Not Controlled Action	Completed	In buffer area only
Riverside Parramatta mixed use development, NSW	2013/6929	Not Controlled Action	Completed	In buffer area only
Riverstone Integrated Water Services Proposal	2007/3216	Not Controlled Action	Completed	In buffer area only
Rouse Hill Infrastructure Project, Second Ponds Creek Area, Proposed Drainage Wo	2003/1258	Not Controlled Action	Completed	In buffer area only
Second Ponds Creek urban development	2004/1905	Not Controlled Action	Completed	In buffer area only
Second Ponds Creek Urban Development of Precinct 1b	2005/1991	Not Controlled Action	Completed	In feature area
Seniors Living Precinct Memorial Avenue, Kellyville	2010/5601	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Site remediation and waste disposal	2002/837	Not Controlled Action	Completed	In buffer area only
Stage 1 DA Estate Major Works, Westmead, NSW	2014/7395	Not Controlled Action	Completed	In buffer area only
Stormwater detention basin and road upgrade at Green Rd	2004/1695	Not Controlled Action	Completed	In buffer area only
subdivision and development on the Rhodes Peninsula for residential and commerci	2003/1249	Not Controlled Action	Completed	In buffer area only
Subdivision and sale of Commonwealth land in Pymble to Ku-ring-gai City Council	2004/1368	Not Controlled Action	Completed	In buffer area only
Subdivision for warehouse construction	2000/119	Not Controlled Action	Completed	In buffer area only
Subdivision of Residential Lands, Greystanes Estate, western Sydney	2001/499	Not Controlled Action	Completed	In buffer area only
Sydney Metro Network Stage 2	2010/5307	Not Controlled Action	Completed	In buffer area only
The North Kellyville Water Related Services Project	2007/3784	Not Controlled Action	Completed	In buffer area only
The Paddocks Precinct Upgrade, Parramatta Park, Parramatta, NSW	2014/7278	Not Controlled Action	Completed	In buffer area only
Tree Removal Under 10/50 Vegetation Clearance, 10B Dalkeith Rd, Cherrybrook, NSW	2014/7337	Not Controlled Action	Completed	In buffer area only
Upgrade of the Crescent Precinct in Parramatta Park Stage 1	2013/7011	Not Controlled Action	Completed	In buffer area only
Urban Development- Lots 7 & 8 Curtis Road	2011/6028	Not Controlled Action	Completed	In buffer area only
Waste Management Centre	2002/607	Not Controlled Action	Completed	In buffer area only
Wastewater Lead-Out Line Lot 6- DP 1004614 Kellyville	2001/360	Not Controlled Action	Completed	In buffer area only
Western Sydney Parklands Bungarrabee Precinct and Doonside residential developm	2007/3718	Not Controlled Action	Completed	In buffer area only
Western Sydney Stadium Project, NSW	2016/7739	Not Controlled Action	Completed	In buffer area only
Western Sydney University Hassall St Precinct, Parramatta, NSW	2019/8489	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Westfield Parramatta Commercial Extension - Stage 2	2013/6783	Not Controlled Action	Completed	In buffer area only
Westfield Parramatta Retail Extension - Stage 1	2013/6782	Not Controlled Action	Completed	In buffer area only
Wonderland Business Park Precinct, Stage 1, Lot D1	2004/1626	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
23 Residential lots on Lot 15 of Lot 18 DP 1034206 & Lot 131 DP 2123, Rosebery Road	2005/2229	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Commercial development, 2 Macquarie Street, Parramatta, NSW	2014/7405	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
INDIGO Marine Cable Route Survey (INDIGO)	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Replacement of flows with recycled water	2006/3050	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
Residential Subdivision of Lot 60 Baulkham Hills Shire	2001/431	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Rouse Hill sewer carrier and water mains	2003/1059	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Villawood Immigration Detention Centre Redevelopment	2006/2725	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Referral decision				
Mixed Use Residential Development	2011/6166	Referral Decision	Completed	In buffer area only
Modification to Mixed Use Development at 45-47 Macquarie Street, Parramatta, NSW	2012/6607	Referral Decision	Completed	In buffer area only
Residential subdivision Lot 8 in DP 220102	2010/5765	Referral Decision	Completed	In buffer area only
Westfield Parramatta Extension, NSW	2012/6657	Referral Decision	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Referral decision				

Bioregional Assessments

SubRegion	BioRegion	Website	Buffer Status
Sydney	Sydney Basin	BA website	In feature area

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data are available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded
- seals which have only been mapped for breeding sites near the Australian continent

The breeding sites may be important for the protection of the Commonwealth Marine environment.

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- [-Natural history museums of Australia](#)
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- [-Other groups and individuals](#)

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact us](#) page.

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Department of Climate Change, Energy, the Environment and Water

GPO Box 3090

Canberra ACT 2601 Australia

+61 2 6274 1111