

NOTICE OF PROPOSED DEVELOPMENT

Notice is hereby given that an application has been made for planning approval for the following development:

SITE: 6 Sea Eagle Road, Primrose Sands

PROPOSED DEVELOPMENT: DWELLING

The relevant plans and documents can be inspected at the Council Offices at 47 Cole Street, Sorell during normal office hours, or the plans may be viewed on Council's website at <u>www.sorell.tas.gov.au</u> until **Monday 6th January 2025**.

Any person may make representation in relation to the proposal by letter or electronic mail (<u>sorell.council@sorell.tas.gov.au</u>) addressed to the General Manager. Representations must be received no later than **Monday 6th January 2025**.

APPLICANT: Wilson Homes

 APPLICATION NO:
 DA 2024 / 257 - 1

 DATE:
 12 December 2024

Part B: Please note that Part B of this form is publicly exhibited.

Full description of Proposal:	Use:							
	Development:							
	Large or complex proposals should be described in a letter or planning report.							
Design and construction cost of proposal:		\$						

Is all, or some the work already constructed:

No: 🛛 Yes: 🗆

Location of	Street address:
proposed	Suburb: Postcode:
works:	Certificate of Title(s) Volume: Folio:

Current Use of Site	

Is the Property on the Tasmanian Heritage Register?	No: 🗆 Yes: 🗆	lf yes, please provide written advice from Heritage Tasmania					
Is the proposal to be carried out in more than one stage?	No: 🗆 Yes: 🗆	If yes, please clearly describe in plans					
Have any potentially contaminating uses been undertaken on the site?	No: 🗆 Yes: 🗆	If yes, please complete the Additional Information for Non-Residential Use					
Is any vegetation proposed to be removed?	No: 🗌 Yes: 🗌	If yes, please ensure plans clearly show area to be impacted					
Does the proposal involve land administered or owned by either the Crown or Council?	No: 🗆 Yes: 🗆	If yes, please complete the Council or Crown land section on page 3					
If a new or upgraded vehicular crossing is required from Council to the front boundary please complete the Vehicular Crossing (and Associated Works) application form							

https://www.sorell.tas.gov.au/services/egineering/

Sorell Council

Development Application: Development Application - 6 Sea Eagle Road, Primrose Sands - P1.pdf Plans Reference:P1 Date Received:18/10/2024

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Declarations and acknowledgements

- I/we confirm that the application does not contradict any easement, covenant or restriction specified in the Certificate of Title, Schedule of Easements or Part 5 Agreement for the land.
- I/we consent to Council employees or consultants entering the site and have arranged permission and/or access for Council's representatives to enter the land at any time during normal business hours.
- I/we authorise the provision of a copy of any documents relating to this application to any person for the purposes of assessment or public consultation and have permission of the copyright owner for such copies.
- I/we declare that, in accordance with s52(1) of the Land Use Planning and Approvals Act 1993, that I have notified the owner(s) of the intention to make this application.
- I/we declare that the information in this application is true and correct.

Details of how the Council manages personal information and how you can request access or corrections to it is outlined in Council's Privacy Policy available on the Council website.

- I/we acknowledge that the documentation submitted in support of my application will become a public record held by Council and may be reproduced by Council in both electronic and hard copy format in order to facilitate the assessment process, for display purposes during public exhibition, and to fulfil its statutory obligations. I further acknowledge that following determination of my application, Council will store documentation relating to my application in electronic format only.
- Where the General Manager's consent is also required under s.14 of the *Urban Drainage Act 2013*, by making this application I/we also apply for that consent.

Applicant Signature:

Signature: Mark Page Date:

Crown or General Manager Land Owner Consent

If the land that is the subject of this application is owned or administered by either the Crown or Sorell Council, the consent of the relevant Minister or the Council General Manager whichever is applicable, must be included here. This consent should be completed and signed by either the General Manager, the Minister, or a delegate (as specified in s52 (1D-1G) of the *Land Use Planning and Approvals Act 1993*).

Please note:

- If General Manager consent if required, please first complete the General Manager consent application form available on our website <u>www.sorell.tas.gov.au</u>
- If the application involves Crown land you will also need a letter of consent.
- Any consent is for the purposes of making this application only and is not consent to undertaken work or take any other action with respect to the proposed use or development.

Ι		being responsible for the
administration of land at declare that I have given permiss	Sorell Council Development Application: Development Application - 6 Sea Eagle Road, Primrose Sands - P1.pdf Plans Reference:P1 Date Received:18(40/2024	
Signature of General Manager, Minister or Delegate:	Signature:	Date:

ON-SITE WASTEWATER ASSESSMENT

6 Sea Eagle Road

Primrose Sands

October 2024

Wilson Homes Reference: 714043/016/01



GEO-ENVIRONMENTAL SOLUTIONS

Sorell Council

Development Application: 5.2024.257.1 -Response to Request for Information - 6 Sea Eagle Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received: 10/12/2024

Disclaimer: The author does not warrant the information contained in this document is free from errors or omissions. The author shall not in any way be liable for any loss, damage or injury suffered by the User consequent upon, or incidental to, the existence of errors in the information.



Investigation Details

Client:	Wilson Homes
Site Address:	6 Sea Eagle Road, Primrose Sands
Date of Inspection:	04/06/2024
Proposed Works:	New house
Investigation Method:	Geoprobe 540UD - Direct Push
Inspected by:	A. Plummer

Site Details

Certificate of Title (CT):	9447/28
Title Area:	Approx. 906.5 m ²
Applicable Planning Overlays:	Airport obstacle limitation area
Slope & Aspect:	Approx. 10% SE facing slope
Vegetation:	Grass & Weeds, Disturbed

Background Information

Geology Map:	MRT
Geological Unit:	Quaternary Sediments
Climate:	Annual rainfall 500mm
Water Connection:	Tank
Sewer Connection:	Unserviced-On-site required
Testing and Classification:	AS1547:2012



Investigation

A number of bore holes were completed to identify the distribution and variation of the soil materials at the site, bore hole locations are indicated on the site plan. See soil profile conditions presented below. Tests were conducted to assess the capacity of the materials for onsite wastewater disposal according to AS1547:2012.

Soil Profile Summary

BH 2 Depth (m)	Horizon	Description
0.00-0.30	A1	Dark Grey Brown SAND (SP) : slightly moist medium dense consistency, gradual boundary to
0.30-1.70	A2	Grey SAND (SP) : slightly moist medium dense consistency, gradual boundary to
1.70-2.40	B1	Orange Grey/Pale Brown Clayey SAND (SP) : slightly moist dense consistency, refusal.

Site Notes

The site features moderately deep soils formed from Quaternary sediments. These soils are highly permeable with low CEC and nutrient retention capacity for onsite wastewater disposal.

Wastewater Classification & Recommendations

According to AS1547-2012 for on-site wastewater management the soil on the property is classified as **Sandy LOAM (Category 2)**. Onsite disposal of wastewater is constrained by the limited land area available. Therefore, all wastewater on site must undergo secondary treatment via a package treatment system (e.g., AWTS such as Econocycle, Envirocycle, Ozzikleen). A Design Loading Rate (DLR) of 40L/m²/day has been assigned for secondary treated effluent.

The proposed three-bedroom dwelling has a calculated daily loading of 600L/day. This is based on a tank water supply and a maximum occupancy of 5 persons (120L/person/day). Using a DLR of $40L/m^2/day$, an absorption area of $15m^2$ is required. This can be accommodated by one 7.5m x 2m x 0.5m absorption bed as per the attached design.

A surface diversion drain is recommended upslope of the absorption area to divert excess stormwater flows. A 100% reserve area will should be aside for future wastewater requirements and the area kept free from development. For further details see attached plan and Trench summary reports.



The following setback distances are required to comply with Building Act 2016:

Upslope and level buildings:	3m
Downslope buildings:	3.75m
Upslope and level boundaries:	1.5m
Downslope boundary:	5m
Downslope surface water:	100m

Compliance with Building Act 2016 Guidelines for On-site Wastewater Management Systems is outlined in the attached table and associated risk assessment.

I also recommend that during construction that I and/or the design engineer be notified of any major variation to the soil conditions or wastewater loading as outlined in this report.

Dr John Paul Cumming B.Agr.Sc (hons) PhD CPSS GAICD Director



Disclaimer

This Report has been prepared in accordance with the scope of services between Geo-Environmental Solutions Pty. Ltd. (GES) and the Client. To the best of GES's knowledge, the information presented herein represents the client's requirements at the time of printing of the Report. However, the passage of time, manifestation of latent conditions or impacts of future events may result in findings differing from that discussed in this Report. In preparing this Report, GES has relied upon data, surveys, analyses, designs, plans and other information provided by the Client and other individuals and organisations referenced herein. Except as otherwise stated in this Report, GES has not verified the accuracy or completeness of such data, surveys, analyses, designs, plans and other information.

The scope of this study does not allow for the review of every possible geotechnical parameter or the soil conditions over the whole area of the site. Soil and rock samples collected from the investigation area are assumed to be representative of the areas from where they were collected and not indicative of the entire site. The conclusions discussed within this report are based on observations and/or testing at these investigation points.

This report does not purport to provide legal advice. Readers of the report should engage professional legal practitioners for this purpose as required.

No responsibility is accepted for use of any part of this report in any other context or for any other purpose by third a party.



GES

Land suitability and system sizing for on-site wastewater management Trench 3.0 (Australian Institute of Environmental Health)

Assessment Report Site assessment for on-site waste water disposal

Assessment for Wilson Homes						Assess. Date 8-Oct Ref. No.				8-Oct-24		
Assessed site(s) 6 Sea Eagle Road, Primrose Sands						Site(s) inspected 4-Jur				-Jun-24		
Local authority Sorell							Assessed by John Paul Cumm				umming	
This report summarises wastewate Capability and Environmental sens limitations which probably require sp into TRENCH.	er volun itivity is pecial c	nes, clim isues an ionsidera	natic inpu e reportent nation for s	uts for t ed separ system o	the site, s rately, whe design(s).	oil charact ere 'Alert' (Blank spa	eristics columns ces on t	and susto flag fact his page	em sizing ors with indicate o	g and de high (A) data hav	esign iss or very e not bee	ues. Site high (AA) en enterec
Wastewater Characteristics Wastewater volume (L/day) used fo Septic tank wastewa Sulla Total nitrogen (kg/year) genera Total phosphorus (kg/year) genera	r this a ater vol age vol ated by ated by	ume (L ume (L ume (L wastev wastev	ment = /day) = /day) = vater = vater =	600 200 400 1.8 1.2		(using t	ne 'No.	ofbedro	oms in a	a dwelli	ng' metł	nod)
Climatic assumptions for site		(Evapo	transpir	ation ca	alculated	using the	crop fa	actor me	thod)			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean rainfall (mm)"""	41	36	36	45	36	29	46	47	40	48	44	56
Adopted rainfall (R, mm)	41	36	36	45	36	29	46	47	40	48	44	56
Retained rain (Rr, mm)	35	31	31	38	31	25	39	40	34	41	37	48
Max. daily temp. (deg. C)												
_ Evapotrans (ET, mm)	130	110	91	63	42	29	32	42	63		105	126
Evapotr. less rain (mm)	95	/9	60	25	<u>11</u> Annual	<u>ə</u> evapotran	-8 spiratior	less reta	29 ined rain	<u>43</u> (mm) =	<u>68</u> 4	<u>78</u> 89
Soil characterisitics										()		
	andvl						Cat		2	Thiol	(m) =	25
	anuy	.0710					Cal	egory –	2		(iii) –	2.0
Adopted permeability (m/day) = 3			Adop	ted LIA	AR (L/SQ I	m/day) =	40	M	n deptn	(m) to v	water =	5
Proposed disposal and treatme	nt met	hods										
Proportion of wastewater to be retained on site: The preferred method of on-site primary treatment: The preferred method of on-site secondary treatment: The preferred type of in-ground secondary treatment: The preferred type of above-ground secondary treatment: Site modifications or specific designs:					All wast In a pac In-groun Evapotr None Not nee	ewater w kage trea nd anspiratio	ill be di itment (on bed(sposed plant s)	of on the	e site		
Suggested dimensions for on-si	te sec	ondary	treatm	ent sys	stem							
Total dispo comprisin	sal are g a Pri	Total ea (sq n mary Ar	length Width Depth n) requi ea (sq i	(m) = (m) = (m) = red = m) of:	8 2 0.5 30 15							
anu a Seconda	ary (ba	скир) А	iea (sq	iii) 01:	15			Suff	icient a	rea is a	vailable	on site
Comments	ted effl	uent of	401 /m²	/day ar	absorpti	on area o	f15m ²	is require	ad			

Using the DLR for secondary treated effluent of 40L/m²/day, an absorption area of 15m² is required.



GES

Land suitability and system sizing for on-site wastewater management Trench 3.0 (Australian Institute of Environmental Health)

Site Capability Report Site assessment for on-site waste water disposal

Assessment for	Wilson Homes	Assess. Date	8-Oct-24
		Ref. No.	
Assessed site(s)	6 Sea Eagle Road, Primrose Sands	Site(s) inspected	4-Jun-24
Local authority	Sorell	Assessed by	John Paul Cumming

This report summarises data relating to the physical capability of the assessed site(s) to accept wastewater. Environmental sensitivity and system design issues are reported separately. The 'Alert' column flags factors with high (A) or very high (AA) site limitations which probably require special consideration in site acceptability or for system design(s). Blank spaces indicate data have not been entered into TRENCH.

				Confid	Limit	ation	
Alert	Factor	Units	Value	level	Trench	Amended	Remarks
AA	Expected design area	sq m	50	V. high	Very high		
	Density of disposal systems	/sq km	10	Mod.	Very low		
	Slope angle	degrees	6	High	Low		
	Slope form	Straight si	mple	High	Low		
	Surface drainage	(Good	High	Very low		
	Flood potential Site fl	oods <1:10	00 yrs	High	Very low		
	Heavy rain events	Infred	quent	High	Moderate		
Α	Aspect (Southern hemi.)	Faces SE c	or SW	V. high	High		
	Frequency of strong winds	Com	nmon	High	Low		
	Wastewater volume	L/day	600	High	Moderate		
	SAR of septic tank effluent		1.7	High	Low		
	SAR of sullage		2.6	High	Moderate		
	Soil thickness	m	2.5	V. high	Very low		
	Depth to bedrock	m	2.5	V. high	Very low		
	Surface rock outcrop	%	0	V. high	Very low		
	Cobbles in soil	%	0	V. high	Very low		
	Soil pH		5.5	High	Low		
	Soil bulk density gm	/cub. cm	1.4	High	Very low		
	Soil dispersion Eme	rson No.	8	V. high	Very low		
	Adopted permeability	m/day	3	Mod.	Very high	Moderate	Other factors lessen impact
	Long Term Accept. Rate L/c	lay/sq m	40	High	Very high	Moderate	Other factors lessen impact

Comments

The site has the capability to accept secondary treated effluent. The site is somewhat limited by the small area available for onsite wastewater disposal and the highly permeable soils on site, the latter of which can be managed using a conservative loading rate and secondary treatment.



GES

Land suitability and system sizing for on-site wastewater management

Trench 3.0 (Australian Institute of Environmental Health)

Environmental Sensitivity Report

Site assessment for on-site waste water disposal

Assessed site(s)	6 Sea Eagle Road, Primrose Sands
Local authority	Sorell

Assessment for Wilson Homes

Assess. Date 8-Oct-24 Ref. No. Site(s) inspected 4-Jun-24 Assessed by John Paul Cumming

This report summarises data relating to the environmental sensitivity of the assessed site(s) in relation to applied wastewater. Physical capability and system design issues are reported separately. The 'Alert' column flags factors with high (A) or very high (AA) limitations which probably require special consideration in site acceptability or for system design(s). Blank spaces indicate data have not been entered into TRENCH.

				Confid	Limitation	
Alert	Factor	Units	Value	level	Trench Amended	Remarks
AA	Cation exchange capacity mmo	l/100g	25	High	Veryhigh	
Α	Phos. adsorp. capacity kg	/cub m	0.2	High	High	
	Annual rainfall excess	mm	-489	High	Verylow	
	Min. depth to water table	m	5	High	Verylow	
	Annual nutrient load	kg	3.1	High	Verylow	
	G'water environ. value Ag	ric non-s	ensit	V. high	Low	
	Min. separation dist. required	m	2	High	Verylow	
	Risk to adjacent bores	Ve	rylow	V. high	Verylow	
Α	Surf. water env. value	Recreat	ional	V. high	High	
	Dist. to nearest surface water	m	130	V. high	Moderate	
Α	Dist. to nearest other feature	m	20	V. high	High	
	Risk of slope instability		Low	V. high	Low	
	Distance to landslip	m	75	V. high	Moderate	

Comments

The soils on site have a sandy texture and low CEC, therefore the soil system has a low capacity to cope with the applied nutrient load. To manage this, it is recommended to plant deep rooted grasses and perennial species to aid in nutrient uptake.

Demonstration of wastewater system compliance to Building Act 2016 Guidelines for On-site Wastewater

Acceptable Solutions	Performance Criteria	Compliance
 A1 Horizontal separation distance from a building to a land application area must comply with one of the following: a) be no less than 6m; or b) be no less than: (i) 3m from an upslope building or level building; (ii) If primary treated effluent to be no less than 4m plus 1m for every degree of average gradient from a downslope building; (iii) If secondary treated effluent and subsurface application, no less than 2m plus 0.25m for every degree of average gradient from a downslope building. 	 P1 a) The land application area is located so that (i) the risk of wastewater reducing the bearing capacity of a building's foundations is acceptably low.; and (ii) is setback a sufficient distance from a downslope excavation around or under a building to prevent inadequately treated wastewater seeping out of that excavation 	Complies with A1 (b) (i) Land application area will be located with a minimum separation distance of 3m from an upslope or level building. Complies with A1 (b) (iii) Land application area will be located with a minimum separation distance of 3.75m of downslope building.
 A2 Horizontal separation distance from downslope surface water to a land application area must comply with (a) or (b) (a) be no less than 100m; or (b) be no less than the following: (i) if primary treated effluent 15m plus 7m for every degree of average gradient to downslope surface water; or (ii) if secondary treated effluent and subsurface application, 15m plus 2m for every degree of average gradient to down slope surface water. 	 P2 Horizontal separation distance from downslope surface water to a land application area must comply with all of the following: a) Setbacks must be consistent with AS/NZS 1547 Appendix R; b) A risk assessment in accordance with Appendix A of AS/NZS 1547 has been completed that demonstrates that the risk is acceptable. 	Complies with A2 (a) Land application area will be located with a minimum separation distance of 100m of downslope surface water.

A3	P3			
Horizontal separation distance from a property boundary to a land application area must comply with either of the following:	Horizontal separation distance from a property boundary to a land application area must comply with all of the following:	Complies with P3 Land application area will be located with a minimum separation distance of 1.5m from an upplone or level property boundary and 5m of		
(a) be no less than 40m from a property boundary; or	(a) Setback must be consistent with AS/NZS 1547 Appendix R; and	downslope property boundary – see attached risk assessment.		
(b) be no less than:(i) 1.5m from an upslope or level property boundary; and	(b) A risk assessment in accordance with Appendix A of AS/NZS 1547 has been completed that demonstrates that the risk is acceptable.			
 (ii) If primary treated effluent 2m for every degree of average gradient from a downslope property boundary; or 				
(iii) If secondary treated effluent and subsurface application, 1.5m plus 1m for every degree of average gradient from a downslope property boundary.				
A4	P4			
Horizontal separation distance from a downslope bore, well or similar water supply to a land application area must be no less than 50m and not be within the zone of influence of the bore whether up or	Horizontal separation distance from a downslope bore, well or similar water supply to a land application area must comply with all of the following:	No bore or well identified within 50m		
down gradient.	(a) Setback must be consistent with AS/NZS 1547 Appendix R; and			
	(b) A risk assessment completed in accordance with Appendix A of AS/NZS 1547 demonstrates that the risk is acceptable			

 A5 Vertical separation distance between groundwater and a land application area must be no less than: (a) 1.5m if primary treated effluent; or (b) 0.6m if secondary treated effluent 	 P5 Vertical separation distance between groundwater and a land application area must comply with the following: (a) Setback must be consistent with AS/NZS 1547 Appendix R; and (b) A risk assessment completed in accordance with Appendix A of AS/NZS 1547 that demonstrates that the risk is acceptable 	No groundwater encountered.
 A6 Vertical separation distance between a limiting layer and a land application area must be no less than: (a) 1.5m if primary treated effluent; or (b) 0.5m if secondary treated effluent 	P6 Vertical setback must be consistent with AS/NZS1547 Appendix R.	Complies with A6 (b)
A7 nil	P7 A wastewater treatment unit must be located a sufficient distance from buildings or neighbouring properties so that emissions (odour, noise or aerosols) from the unit do not create an environmental nuisance to the residents of those properties	Complies

ASSESSMENT OF HORIZONTAL AND VERTICAL SETBACK DISTANCES

(adapted from Table R1 in AS1547	 to be used in conjunction with Sit 	e Constraint Table)
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Site feature	Setback distance range (m)	Site constraint items of specific concern (from Site Constraint Table)	Assessment	Adopted setback distance (m)
	Horizontal setback distance (m)			
Property boundary	1.5 – 50	A, D, J	1.5 upslope or level 2m downslope	1.5 upslope or level 5m downslope
Buildings/houses	2.0 -> 6	A, D, J	3	3 upslope or level 3.75 downslope
Surface water	15 – 100	A, B, D, E, F, G, J	29	29
Bore, well	15 – 50	A, C, H, J	N/A	N/A
Recreational areas (Children's play areas, swimming pools and so on)	3 – 15	A, E, J	N/A	N/A
In-ground water tank	4 – 15	A, E, J	N/A	N/A
Retaining wall and Embankments, escarpments, cuttings	3.0 m or 45° angle from toe of wall (whichever is greatest)	D, G, H	N/A	N/A
	Vertical setback distance (m)			
Groundwater	0.6 -> 1.5	A, C, F, H, I, J	0.6	N/A
Hardpan or bedrock	$0.5 - \ge 1.5$	A, C, J	0.5	0.5

SITE CONSTRAINT RATING

(adapted from Table R2 in AS1547 - used as a guide in determining appropriate setback distances)

ltem	Site/system feature	Constraint scale (see Note 1) LOWER HIGHER Examples of constraint factors (see Note 2)		Sensitive features	Comment	Constraint Rating
A	Microbial quality of effluent	Effluent quality consistently producing \leq 10 cfu/100 mL <i>E.</i> <i>coli</i> (secondary treated effluent with disinfection)	Effluent quality consistently 6 <i>E. coli</i> (for example, primary treated effluent)	Groundwater and surface pollution hazard, public health hazard	Secondary treated effluent	Low
В	Surface water	Category 1 to 3 soils, no surface water down gradient within > 100 m, low rainfall area	Category 4 to 6 soils, permanent surface water <50 m down gradient, high rainfall area, high resource/environmental value	Surface water pollution hazard for low permeable soils, low lying or poorly draining areas	Downslope surface water >100m	Low
С	Groundwater	Category 5 and 6 soils, low resource/environmental value	Category 1 and 2 soils, gravel aquifers, high resource/environmental value	Groundwater pollution hazard	Category 2 soil No groundwater Elevation 30m ASL	Moderate
D	Slope	0-6% (surface effluent application) 0-10% (subsurface effluent application)	 > 10% (surface effluent application), > 30% subsurface effluent application 	Off-site export of effluent, erosion	Subsurface effluent	Low
Е	Position of land application area in landscape.	Downgradient of surface water, property boundary, recreational area	Upgradient of surface water, property boundary, recreational area	Surface water pollution hazard, off-site export of effluent	Secondary treatment of effluent	Low
F	Drainage	Category 1 and 2 soils, gently sloping area	Category 6 soils, sites with visible seepage, moisture tolerant vegetation, low lying area	Groundwater pollution hazard	Category 2 soil	Low
G	Flood potential	Above 1 in 20 year flood contour	Below 1 in 20 year flood contour	Off-site export of effluent, system failure, mechanical faults	Above 1:20 year flood contour	Low

SITE CONSTRAINT RATING (cont)

Item	Site/system feature	Constraint scale (see Note 1) LOWER HIGHER Examples of constraint factors (see Note 2)		Sensitive features	Comment	Constraint Rating
н	Geology and soils	Category 3 and 4 soils, low porous regolith, deep, uniform soils	Category 1 and 6 soils, fractured rock, gravel aquifers, highly porous regolith	Groundwater pollution hazard for porous regolith and permeable soils	Category 2 soil	Moderate
I	Landform	Hill crests, convex side slopes, and plains	Drainage plains and incise channels	Groundwater pollution hazard, resurfacing hazard	Side slope	Low
J	Application method	Drip irrigation or subsurface application of effluent	Surface/above ground application of effluent	Off-site export of effluent, surface water pollution	Subsurface application	Low



AS1547:2012 – Loading Certificate – AWTS Design

This loading certificate sets out the design criteria and the limitations associated with use of the system.

Site Address: 6 Sea Eagle Road, Primrose Sands

System Capacity: 5 persons @ 120L/person/day

Summary of Design Criteria

DLR: $40L/m^2/day$.

Absorption area: 15m²

Reserve area location /use: Assigned

Water saving features fitted: Standard fixtures

Allowable variation from design flows: 1 event @ 200% daily loading per quarter

Typical loading change consequences: Expected to be minimal due to use of AWTS and large land area

Overloading consequences: Continued overloading may cause hydraulic failure of the absorption area and require upgrading/extension of the area. Risk considered acceptable due to monitoring through quarterly maintenance reports.

Underloading consequences: Lower than expected flows will have minimal consequences on system operation unless the house has long periods of non occupation. Under such circumstances additional maintenance of the system may be required. Long term under loading of the system may also result in vegetation die off in the absorption area and additional watering may be required. Risk considered acceptable due to monitoring through quarterly maintenance reports.

Lack of maintenance / monitoring consequences: Issues of underloading/overloading and condition of the irrigation area require monitoring and maintenance, if not completed system failure may result in unacceptable health and environmental risks. Monitoring and regulation by the permit authority required to ensure compliance.

Other considerations: Owners/occupiers must be made aware of the operational requirements and limitations of the system by the installer/maintenance contractor.

CERTIFICATE OF THE RESPONSIBLE DESIGNER

Section 94 Section 106 Section 129 Section 155

To:	Wilson Homes	Owner name	2 E
	250 Murray Street	Address	Form JJ
	Hobart 7000	Suburb/postcod	e
Designer detail	s:		
Name:	John-Paul Cumming	Category:	Bld. Srvcs. Dsgnr Hydraulic
Business name:	Geo-Environmental Solutions	Phone No:	03 6223 1839
Business address:	29 Kirksway Place]	
	Battery Point 7004	Fax No:	N/A
Licence No:	CC774A Email address: office@geos	olutions.net.au	
Details of the p	roposed work:		
Owner/Applicant	Wilson Homes	Designer's proje reference No.	^{ect} J10475
Address:	6 Sea Eagle Road	Lot No	² 9447/28
	Primrose Sands 7173]	
Type of work:	Building work	Plumbing work	X (X all applicable)
Description of wor	rk:		
On-site wastewater	management system - design	(n ac re w st or m ba	ew building / alteration / Idition / repair / removal / -erection vater / sewerage / ormwater / site wastewater anagement system / ackflow prevention / other)

Description of the Design Work (Scope, limitations or exclusions): (X all applicable certificates)

Certificate Type:	Certificate		Responsible Practitioner		
	□ Building design		Architect or Building Designer		
	☐ Structural design		Engineer or Civil Designer		
	☐ Fire Safety design		Fire Engineer		
	Civil design		Civil Engineer or Civil Designer		
	Hydraulic design		Building Services Designer		
	☐ Fire service design		Building Services Designer		
	Electrical design		Building Services Designer		
	Mechanical design		Building Service Designer Plumber-Certifier; Architect, Building Designer or Engineer		
	Plumbing design				
	☐ Other (specify)				
Deemed-to-Satisfy:		Performance S	Solution: (X the appropriate box)		
Other details:					
AWTS with modified ab	sorption bed.				
Design documents provided:					

The following documents are provided with this Certificate -

Document description: Date: Oct-24 Drawing numbers: Prepared by: Geo-Environmental Solutions Schedules: Prepared by: Date: Prepared by: Geo-Environmental Solutions Specifications: Date: Oct-24 Computations: Prepared by: Date: Performance solution proposals: Prepared by: Date: Prepared by: Geo-Environmental Solutions Test reports: Date: Oct-24

Standards, codes or guidelines relied on in design
process:
AS1547:2012 On-site domestic wastewater management.
AS3500 (Parts 0-5)-2013 Plumbing and drainage set.

Any other relevant documentation:

Onsite Wastewater Assessment - 6 Sea Eagle Road Primrose Sands- 714043 - Oct-24 Onsite Wastewater Assessment - 6 Sea Eagle Road Primrose Sands- 714043 - Oct-24

Attribution as designer:

I John-Paul Cumming, am responsible for the design of that part of the work as described in this certificate;

The documentation relating to the design includes sufficient information for the assessment of the work in accordance with the *Building Act 2016* and sufficient detail for the builder or plumber to carry out the work in accordance with the documents and the Act;

This certificate confirms compliance and is evidence of suitability of this design with the requirements of the National Construction Code.

	Name: (print)	Signed	Date
Designer:	John-Paul Cumming	J	08/10/2024
Licence No:	CC774A		

Assessment of Certifiable Works: (TasWater)

Note: single residential dwellings and outbuildings on a lot with an existing sewer connection are not considered to increase demand and are not certifiable. If you cannot check ALL of these boxes, LEAVE THIS SECTION BLANK. TasWater must then be contacted to determine if the proposed works are Certifiable Works. I confirm that the proposed works are not Certifiable Works, in accordance with the Guidelines for TasWater CCW Assessments, by virtue that all of the following are satisfied: x The works will not increase the demand for water supplied by TasWater The works will not increase or decrease the amount of sewage or toxins that is to be removed by, х or discharged into, TasWater's sewerage infrastructure х The works will not require a new connection, or a modification to an existing connection, to be made to TasWater's infrastructure x The works will not damage or interfere with TasWater's works x The works will not adversely affect TasWater's operations x The work are not within 2m of TasWater's infrastructure and are outside any TasWater easement x I have checked the LISTMap to confirm the location of TasWater infrastructure If the property is connected to TasWater's water system, a water meter is in place, or has been Х applied for to TasWater.

Certification:

Note: the Guidelines for TasWater Certification of Certifiable Works Assessments are available at: <u>www.taswater.com.au</u>

	Name: (print)	Signed	Date
Designer:	John-Paul Cumming	¥-	08/10/2024
ED PROFES			



	SPECIFICATION:		REVISION	[DRAWN	CLIENT:		HOUSE DESIGN:
	DISCOVERY	1	QUOTE SITING PLAN	CS3	02/05/2024	STEVEN & JULIE PAINE		SHEFFIELD 16
MIT2011	COPYRIGHT:	2	DRAFT SALES PLAN - CT2	MLG	10/09/2024	ADDRESS:		FACADE DESIGN:
IIIIIII	© 2024	3	PRELIM PLANS - INITIAL ISSUE	MT	03/10/2024	6 SEA EAGLE ROAD, PR	IMROSE SANDS TAS 7173	RHYDE
ПЛПЕЭ						LOT / SECTION / CT:	COUNCIL:	SHEET TITLE:
	-					28 / - / 9447	SORELL COUNCIL	SITE PLAN

	SUBJECT T	NCC 2022	AC24lPlansl714043 Paine - AC24 - PRELIM - 2024.10.02.pln
	(1 MAY WATERPROOFIN	2023) IG & PLUMBING	14043 - Paine
	PLAN ACCEPTA		4000/71
	SIGNATURE:	DATE:	Files/71
	SIGNATURE:	DATE:	: P:\8. Drafting\Job
THAT YOU WILL NOT	PLEASE NOTE THAT VARIATIO	NS WILL NOT BE ACCEPTED ANCE HAS BEEN SIGNED	File Location:
	HOUSE CODE: H-WDCSHF10SB FACADE CODE: F-WDCSHF10RHYDA	DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS ONLY. CHECK AND VERIFY DIMENSIONS AND LEVELS PRIOR TO THE COMMENCEMENT OF ANY WORK.ALL DISCREPANCIES TO BE REPORTED TO THE DRAFTING OFFICE.	ersion: 24.038
SHEET No.: 2 / 13	scales: 1:200, 1:100	714043	Template V





Do not scale from these drawings.	AWTS Modified Absorption Bed		On-site Wastewater Cross-Section
Dimensions to take precedence			
over scale.			



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SOLUTIONS

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Sheet 1 of 2

Design notes:

1. Absorption bed dimensions of up to 15m long by 0.6m deep by 2m wide.

2. Base of bed to be excavated level into natural soils and smearing and compaction avoided.

3. Bed to be filled with 20-40mm aggregate and drilled 40mm distribution pipes packed into upper 100mm.

4. 40mm distribution pipes drilled with sufficient 5mm holes in the top of the pipe (approx spacing 300mm) to distribute the effluent and half circle 90-100mm UPVC pipe, un-perforated, laid over each 40mm perforated lateral to direct water jet downwards.

5. One 5 mm hole at centre of invert of each pipe to allow for drainage between pump cycles.

6. Geotextile or filter cloth to be placed over the distribution pipes to prevent clogging of the pipes and aggregate - the sides of the bed should also be lined.

7. Final finished surface with sandy loam to be a minimum of 150 mm above aggregate with turf cover or mulched with appropriate vegetation (eq native grasses and small shrubs at 1 plant per 1 m2)

8. The turf or vegetation is an essential component of the system and must be maintained with regular mowing and or trimming as appropriate

9. The distribution pipe grid must be absolutely level to allow even distribution of effluent around the absorption area - it is recommended that the level be verified by running water into the system before backfilling and commissioning the trench

10.All works on site to comply with AS3500 and Tasmanian Plumbing code.

The pump must be capable of delivering the total flow rate required for all laterals whilst providing a 1.5m residual head (ie squirt height) at the highest orifice (with no more than 15% variation in squirt height across the whole bed).

For beds with individual laterals, no more than 15m long, it is acceptable to adopt a flow rate of 4-5L/min/lineal metre. Total dynamic head (including friction loss) will need to be determined on a site-specific basis.

Individual flush points must be installed for each lateral. This may be a screw cap fitting on a 90 degree elbow level with the bed surface or a pressure controlled flush valve inside an irrigation control box.



Do not scale from these drawings. Dimensions to take precedence over scale.

TYPICAL GRASSED SWALE DRAIN CROSS-SECTION

SWALE DRAIN TO BE MIN 0.5M WIDE BY MIN 0.25M DEEP

GRASS COVER TO BE MAINTAINED TO SLOW WATER FLOW AND MINIMSE EROSION



	l		
Do not scale from these drawings. Dimensions to take precedence over scale.	Geo-Environmental Solutions	Date: June 2017	Grassed swale drain typical cross-section



S O L U T I O N S

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Sheet 1 of 1 Drawn by PL



Vents must terminate in accordance with AS/NZS 3500.2

ground vent in not recommended

Inspection openings must be located at the inlet to an on-site wastewater management system treatment unit and the point of connection to the land application system and must terminate as close as practicable to the underside of an approved inspection opening cover installed at the finished surface level

level

Do not scale from these drawings. Dimensions to take precedence over scale.		Tas Figure C2D6 Alternative Venting Arrangements
over scale.		



GEO-ENVIRONMENTAL

S O L U T I O N S 29 Kirksway Place, Battery Point T| 62231839 E| office@geosolutions.net.au

Tas Figure C2D6 Alternative Venting Arrangements

Alternative venting to be used by extending a vent to terminate as if an upstream vent, with the vent connection between the last sanitary fixture or sanitary appliance and the on-site wastewater management system. Use of a

Access openings providing access for desludging or maintenance of on-site wastewater management system treatment unites must terminate at or above finished surface STORMWATER ASSESSMENT

6 Sea Eagle Road

Primrose Sands

October 2024

Wilson Homes Reference: 714043/016/01



GEO-ENVIRONMENTAL

SOLUTIONS



Development Application: 5.2024.257.1 -Response to Request for Information - 6 Sea Eagle Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received: 10/12/2024

Disclaimer: The author does not warrant the information contained in this document is free from errors or omissions. The author shall not in any way be liable for any loss, damage or injury suffered by the User consequent upon, or incidental to, the existence of errors in the information.



Investigation Details

Client:	Wilson Homes
Site Address:	6 Sea Eagle Road, Primrose Sands
Date of Inspection:	04/06/2024
Proposed Works:	New house
Investigation Method:	Geoprobe 540UD - Direct Push
Inspected by:	A. Plummer

Site Details

Certificate of Title (CT):	9447/28
Title Area:	Approx. 906.5 m ²
Applicable Planning Overlays:	Airport obstacle limitation area
Slope & Aspect:	Approx. 10% SE facing slope
Vegetation:	Grass & Weeds, Disturbed

Background Information

Geology Map:	MRT
Geological Unit:	Quaternary Sediments
Climate:	Annual rainfall 500mm
Water Connection:	Tank
Sewer Connection:	Unserviced-On-site required



Investigation

A number of bore holes were completed to identify the distribution and variation of the soil materials at the site, bore hole locations are indicated on the site plan. See soil profile conditions presented below. Tests were conducted across the site to obtain bearing capacities of the material at the time of this investigation.

Soil Profile Summary

BH 1 Depth (m)	BH 2 Depth (m)	USCS	Description
0.00-0.20		SW	FILL: Gravelly SAND : dark grey, brown, slightly moist, medium dense
0.20-0.40	0.00-0.30	SP	SAND : dark grey, brown, slightly moist, medium dense
0.40-1.90	0.30-1.70	SP	SAND: grey, slightly moist, medium dense
1.90-2.50	1.70-2.40	SC	Clayey SAND : orange, grey, pale brown, slightly very hard, refusal.

Soil Conditions

The soils on site have developed from Quaternary sediments and consist of deep sand deposits. These soils have a high estimated permeability of >3m/day.

GES have identified the following at the site:

- The site has a ~10% grade and presents a low risk to slope stability and landslip
- There are proposals for cuts or change of grade which may impact on any proposed onsite stormwater absorption
- The site soils have been identified as comprising of deep sands with no risk of soil dispersion or reactivity
- No evidence of a water table was observed at the time of the investigation
- There is a low risk of the natural soils being impacted by contamination



Soil Dispersion

The soils are non-dispersive.

Summary

The soils and site are suitable for in ground absorption of stormwater from the proposed structure. A hydraulic assessment and design for the absorption system has been completed by Flussig Engineers and can be found attached to this report with a form 35.

It is also recommended that regular inspection and maintenance is conducted to ensure the stormwater system is operating without obstruction. A schematic of recommended checks is also attached.

Please contact me if you have any further questions.

Dr John Paul Cumming B.Agr.Sc (hons) PhD CPSS GAICD Director



GES Stormwater Maintenance Plan Checklist

Indicative frequency	Inspection and criteria	Maintenance activities (where required)
Annual	Check whether any tree branches overhang the roof or are likely to grow to overhang the roof	If safe and where permitted, consider pruning back any overhanging branches
	Check that access covers to storage tanks are closed	Secure any open access covers to prevent risk of entry
	Check that screens on inlets, overflows and other openings do not have holes and are securely fastened	Repair any defective screens to keep out mosquitoes
	Inspect tank water for presence of rats, birds, frogs, lizards or other vermin or insects	Remove any infestations, identify point of entry and close vermin and insect-proof mesh
	Inspect tank water for presence of mosquito larvae (inspect more frequently in sub-tropical and tropical northern Australia, based on local requirements)	Identify point of entry and close with insect-proof mesh with holes no greater than 1.6 mm in diameter
	Inspect gutters for leaf accumulation and ponding	Clean leaves from gutters- remove more regularly if required. If water is ponding, repair gutter to ensure water flows to downpipe
	Check signage at external roof water taps and that any removable handle taps are being properly used	Replace or repair the missing or damaged signage and fittings
	Check plumbing and pump connections are watertight/without leakage	Repair any leaks as necessary
	Check suction strainers, in- line strainers and pump location for debris	Clean suction strainers, in-line strainers or debris from pump location
	Check pump installation is adequate for reliable ongoing operation	Modify and repair as required
	Check first flush diverter, if present	Clean first flush diverter, repair and replace if necessary
	Check health of absorption trench area and surrounding grass or plants	Investigate any adverse impacts observed that might be due to irrigation



	Check condition of roof and coatings	Investigate and resolve any apparent changes to roof condition, such as loss of material coatings
Triennial	Drain, clean out and check the condition of the tank walls and roof to ensure no holes have arisen due to tank deterioration	Repair any tank defects
	Check sediment levels in the tank	Organise a suitable contractor to remove accumulated sediment if levels are approaching those that may block tank outlets
	Undertake a systematic review of operational control of risks to the system	Identify the reason for any problems during inspections and take actions to prevent failures occurring in future
After 20 years and then every 5 years	Monitor the effectiveness of the stormwater absorption area to assess for any clogging due to algal growth, or blocking due to tree roots/grass growth/trench failure.	Clean or replace clogged equipment
Ongoing	Inspect and follow up on any complaints or concerns raised that could indicate problems with the system	Repair or replace any problems that are notified

HYDRAULIC DESIGN REPORT

FE-24001-69 PERFORMANCE SOLUTION REPORT

Document Information

Title	Client	Document Number	Project Manager
6 Sea Eagles Roads Primrose Sands Performance Solution Report	Geo Environmental Solutions PTY LTD	FE-24001-69	Devni Wanigaarachchi BEng (Hons) Graduate Civil Hydraulic
Performance Solution Report			Engineer

Document Initial Revision

REVISION 00	Staff Name	Signature	Date
Prepared by	Devni Wanigaarachchi Graduate Civil Hydraulic Engineer	Dr	11/10/2024
Reviewed by	Manuri Alwis <i>Civil Engineer</i>		17/10/2024
Authorised by	Max W. Möller Principal Hydraulic Engineer	Alexo Millere	18/10/2024

Document Revision History

Rev No.	Description	Reviewed by	Authorised by	Date

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Flüssig Engineers – Level 4, 116 Bathurst Street, Hobart 7000, TASMANIA – Ph 03 6288 7704

INTRODUCTION

This report details the stormwater management strategies for the proposed development located at **6 Sea Eagles Roads Primrose Sands**. The objective of the report is to demonstrate how stormwater runoff would be captured and conveyed from the subject site safely to the receiving drainage network while considering stormwater quantity management and the incorporation of stormwater tank and soakage trench elements.

EXISTING CONDITIONS AND ASSUMPTIONS

The full site covers an area of approximately 914m², with a proposed roof area of 220m² and a proposed concrete driveway area of 110m².

Stormwater from the site would be routed through the proposed conventional underground drainage system comprising of Grated Sumps and PVC Pipes, coupled with soakage trench elements for on-site detention. The stormwater management report is prepared in accordance with the design criteria listed below:

- The stormwater drainage system is designed using Bureau of Meteorology (BOM) published rainfall Intensity Frequency Duration (IFD) data as a minor / major system to accommodate the 5% AEP / 20 min storm events.
- The flow rate of stormwater leaving the site shall be designed so that it does not exceed the predeveloped flow rate for both the minor and major rain events.
- The total site discharges are modelled as described in *Storm Drainage Design in Small Urban Catchments,* a handbook for Australian practice by *Australian Rainfall and Runoff (ARR2019),* Book 9 – Runoff in Urban Areas.

DETENTION COMPUTATIONS

Detention calculations are provided in Appendix B

SUMMARY AND CONCLUSIONS

- The proposed 24,000 L stormwater tank is sized over a 20-minute stormwater duration for the proposed impervious roof area and the tank overflow will outflow into proposed soakage trench of 14 m² base (7.0 m x 2.0 m) 0.8m deep.
- A DN150 slotted PVC pipe with geotextile covering on top of aggregate is to be installed within the soakage trench.
- The performance solution drawing is schematic only and must be read in conjunction with construction plans provided by others.

APPENDIX A STORMWATER CONCEPT DRAWING



CONSTRUCTION PLANS BY OTHERS

STATU<mark>S: ONSTRUCTION</mark> w: www.flussig.com.au a: 116 Bathurst St, Level 4 Hobart, 7000, TASMANIA

NEW SERVICES

STORMWATER PIPE

STORMWATER FLOW DIRECTION



GRATED STORMWATER PIT. 450X450 CLASS A ACO GALVANISED HEELGUARD OR SIMILAR ENGINEER APPROVED

Ô

24,000L STORAGE/ DETENTION STORMWATER TANK

INSPECTION OPENING

STORMWATER SERVICES NOTES:

1. ALL SITE SAFETY & MANAGEMENT PROCEDURES SHALL BE IN ACCORDANCE WITH THE DEPARTMENT OF STATE GROWTH SPECIFICATIONS: SECTION 168 OCCUPATIONAL HEALTH AND SAFETY

- & SECTION 176 ENVIRONMENTAL MANAGEMENT. 2. ALL PIPES UNDER TRAFFIC ABLE AREAS ARE TO BE BACK FILLED
- FULL DEPTH WITH 20 F.C.R. AND FULLY COMPACTED. 3. ALL STORM WATER PIPES TO BE PVC-U-SWJ CLASS "SN8" TO AS
- 1254 UNO.
- 4. ALL DRAIN AND TRENCH CONSTRUCTION SHALL COMPLY WITH THE LGAT STANDARD DRG TSD G01.
- 5. ANY EXCAVATED TRENCHES IN EXCESS OF 1.5M IN DEPTH ARE TO BE ADEQUATELY SHORED TO PREVENT COLLAPSE DURING WORKS.

PERFORMANCE SOLUTION COMPLIANCE NOTES: AS 3500.3 - CL 7.10

 7.10.1 - OVERFLOW IS SAFE AND DOES NOT COMPROMISE FREEBOARD TO HABITABLE SPACES.

GENERAL

- AS/NZS 3500.3: PART 3 STORMWATER DRAINAGE AUSTRALIAN RAINFALL AND RUN-OFF VOLUME 8: URBAN STORMWATER MANAGEMENT
- AUSTRALIAN RUNOFF QUALITY A GUIDE TO WATER SENSITIVE URBAN DESIGN
- STORM DRAINAGE DESIGN IN SMALL URBAN CATCHMENTS: A HANDBOOK FOR AUSTRALIAN PRACTICE
- WATER SENSITIVE URBAN DESIGN (WSUD) ENGINEERING PROCEDURE: STORMWATER
- WATER SERVICES ASSOCIATION OF AUSTRALIA CODE (WSAA).

SITE AREA=914 m²



PROPOSED ROOF AREA 220 m²



PROPOSED CONCRETE DRIVEWAY AREA 110 m²

	PROJECT NO: FE-24001- 69	C-100		REVISION:	
PROJECT: PROPOSED NEW DWELLING	SCALE AT A3: AS SHOWN	DATE: 14.10.2024	DRAWN: DW	CHECKED: MM	
	TITLE: PERFORMANCE	SOLUTIO	ON DESIGN		
CLIENT: GEO ENVIRONMENTAL SOLUTIONS PTY LTD	6 SEA EAGLES ROAD PRIMROSE SANDS				

APPENDIX B DETENTION COMPUTATIONS



STORMWATER DETENTION V5.05

Flussig Engineers

Location: Site: PSD: Storage:	Primrose Sands 220m ² with tc = AEP of 5%, Abov AEP of 5%, Abov	20 and tcs = /e ground PS /e ground vo	15 mins. D = 0.86L/s lume = 2.74m ³								
Design Criteria					(Custom A	EP IFD dat	a used)				
			Location =	Primrose Sand	S						
			Method =	E	(A)RI 2001	.,A(E)P 201	9				
	PSD annual ex Storage annual ex	ceedance proceedance proceedan	obabiliy (APE) = obabiliy (APE) =	5	% %						
		Sto	orage method =	A	(A)bove,(P)ipe,(U)nd	erground,((C)ustom			
Site Geometry											
	Pre-de Post dev	velopment co velopment cc	Site area (As) = pefficient (Cp) = pefficient (Cw) =	220 0.30 1.00	m² =		0.022 H	a			
	Upstre	Total c am catchme	atchment (tc) = nt to site (tcs) =	20 15	minutes minutes						
Coefficient Calo	ulations										
	Pre-developmer	nt			1	Post	developme	nt			
	Zone Concrete Roof Gravel Garden Total	Area (m ²) 0 0 220 220 220	C 0.90 1.00 0.50 0.30 m ²	Area * C 0 0 0 66 66			Zone Concrete Roof Gravel Garden Total	Area (m ²) 0 220 0 0 220 220	m²	C 0.90 1.00 0.50 0.30	Area * C 0 220 0 0 220
Permissible Site	Discharge (PSD)	(AFP of 5%)	0.500				CW - ZAI		-	1.000	
Pe	Pre-develop eak post developm Permissible	PS oment (Qp = (ent (Qa = 2*C Sto e site dischar	5D Intensity (I) = Cp*I*As/0.36) = Cw*I*As/0.36) = Cw*I*As/0.36) = prage method = ge (Qu = PSD) =	45.2 0.83 5.52 A 0.863	mm/hr L/s L/s (A)bove,(P L/s	For ca =(0.12 ?)ipe,(U)nde	atchment to 22 x I) erground,((: = 20 mins C)ustom			Eq. 2.24
			L F~ 3 8								
	ra	bove ground	0 = Taking x as = a = PSD = PSD =	PSD ² - 2*Qa/tc PSD and solvin 1.0 -b±V(b ² -4ac)/(2 0.863	*(0.667*tc g 2a) L/s	*Qp/Qa + (b =	0.75*tc+0.2 -11.5	25*tcs)*PS	D + 2*C c =	Qa*Qp 9.1	
	В	elow ground	l pipe - Eq 3.3 Qp = = PSD =	PSD*[1.6*tcs/{ 0.83 0.857	tc*(1-2*PS L/s	D/(3*Qa))}	-0.6*tcs ^{2.67}	//{tc*(1-2*	PSDp/(3*Qa))} ^{2.67}]	
	B t =	elow ground :tcs/(tc*(1-2*	l rectangular ta *PSD/(3*Qa))) = Qp = = PSD =	nk - Eq 3.4 0.834 PSD*[0.005-0.4 0.83 0.832	155*t+5.22 L/s	8*t²-1.045	*t³-7.199*t	.4+4.519*t ¹	⁵]		

flüssig

Design Storage Capacity (AEP of 5%)

Project No.: 24001-66 Designed: DW

Flussig Engineers

Eq 4.26

Above ground (Vs) = [0.5*Qa*td-[(0.875*PSD*td)(1-0.917*PSD/Qa)+(0.427*td*PSD ² /Qa)]]*60/10 ³ m ³	Eq 4.23
Below ground pipe (Vs) = [(0.5*Qa-0.637*PSD+0.089*PSD ² /Qa)*td]*60/10 ³ m ³	Eq 4.8
Below ground rect. tank (Vs) = [(0.5*Qa-0.572*PSD+0.048*PSD ² /Qa)*td]*60/10 ³ m ³	Eq 4.13

td	I	Qa	Above Vs	Pipe Vs	B/G Vs
(mins)	(mm/hr)	(L/s)	(m³)	(m³)	(m³)
5	86.6	10.6	1.37		
16	51.3	6.3	2.33		
22	42.7	5.2	2.52		
27	37.8	4.6	2.62		
33	33.4	4.1	2.69		
38	30.6	3.7	2.72		
44	28.0	3.4	2.74		
49	26.2	3.2	2.74		
55	24.4	3.0	2.73		
60	23.1	2.8	2.72		

Table 1 - Storage as function of time for AEP of 5%

	td	I	Qa	Vs
Туре	(mins)	(mm/hr)	(L/s)	(m³)
Above	48.3	26.4	3.2	2.74
Pipe				
D/ground				

Table 2 - Storage requirements for AEP of 5%

Frequency of operation of Above Ground storage

Qop2 =	0.75 Cl 2.4.5.1	
Qp2 =Qop2*Qp1 (where Qp1=PSD) =	0.65 L/s at which time above ground storage occurs	
I = 360*Qp2/(2*Cw*As*10 ³) =	5.3 mm/h	Eq 4.24

Period of Storage

Time to Fill:	
Above ground (tf) = td*(1-0.92*PSD/Qa)	Eq 4.27
Below ground pipe (tf) = td*(1-2*PSD/(3*Qa))	Eq 3.2
Below ground rect. tank (tf) = td*(1-2*PSD/(3*Qa))	Eq 3.2
Time to empty:	
Above ground (te) = (Vs+0.33*PSD ² *td/Qa*60/10 ³)*(1.14/PSD)*(10 ³ /60)	Eq 4.28
Below ground pipe (te) = 1.464/PSD*(Vs+0.333*PSD ² *td/Qa*60/10 ³)*(10 ³ /60)	Eq 4.32
Below ground rect. tank (te) = 2.653/PSD*(Vs+0.333*PSD ² *td/Qa*60/10 ³)*(10 ³ /60)	Eq 4.36

Storage period (Ps = tf + te)

	td	Qa	Vs	tf	te	Ps
Туре	(mins)	(L/s)	(L/s)	(mins)	(mins)	(mins)
Above	48.3	3.2	2.7	36.4	65.2	101.6
Pipe						
B/ground						

Table 3 - Period of Storage requirements for AEP of 5%

Orifice

Permissible site discharge (Qu=PSD) =0.86 L/s (Above ground storage)Orifice coefficient (CD) =0.61 For sharp circular orificeGravitational acceration (g) =9.81 m/s²Maximum storage depth above orifice (H) =333.75 mmOrifice flow (Q) = CD*Ao*V(2*g*H)Therefore:Orifice area (Ao) =553 mm²Orifice diameter (D = V(4*Ao/ π)) =26.5 mm

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STORMWATER DETENTION V5.05

Flussig Engineers

Location: Site: PSD: Storage:	Primrose Sands 110m ² with tc = AEP of 5%, Unde AEP of 5%, Unde	20 and tcs = erground rect erground rect	15 mins. tangular tank P tangular tank v	SD = 0.41L/s olume = 1.46m ³						
Design Criteria				(Custom AE	P IFD data used)				
			Location =	Primrose Sands						
			Method =	E (A)RI 2001,A	A(E)P 2019				
	PSD annual ex Storage annual ex	cceedance pro	obabiliy (APE) = obabiliy (APE) =	5 5	%					
		Sto	prage method =	- U (A)bove,(P)i	pe,(U)ndergrour	nd,(C)ustom			
Site Geometry										
Site Geometry	Pre-de Post dev	velopment co velopment co Total c	Site area (As) = pefficient (Cp) = pefficient (Cw) = atchment (tc) =	110 0.30 0.90	m² = minutes	0.01	1 Ha			
	Upstre	eam catchme	nt to site (tcs) =	: 15 r	ninutes					
Coefficient Calc	ulations									
	Pre-developmer	nt				Post develop	oment			
	Zone Concrete Roof Gravel Garden Total	Area (m²) 0 0 110 110	C 0.90 1.00 0.50 0.30 m ²	Area * C 0 0 33 33		Zon Concret Roc Grave Garde Tot a	e Area (m ² e 110 of 0 el 0 n 0 al 110	2) (1 (((m ²	c).90 1.00).50).30	Area * C 99 0 0 0 99
	Cp = ΣAr	-ea*C/Total =	0.300			Cw =	ΣArea*C/Tot	al =	0.900	
Permissible Site	e Discharge (PSD)	(AEP of 5%)					,			
Pe	Pre-develop ak post developme	PS oment (Qp = 0 ent (Qa = 2*0	D Intensity (I) = Cp*I*As/0.36) = Cw*I*As/0.36) =	45.2 r 0.41 l 2.48 l	mm/hr _/s _/s	For catchmer =(0.055 x I)	nt tc = 20 min	5.		Eq. 2.24
	Permissible	Sto e site dischar	prage method = ge (Qu = PSD) =	U (0.414 I	A)bove,(P)i _/s	pe,(U)ndergrour	nd,(C)ustom			
	А	bove ground	l - Eq 3.8 0 =	PSD ² - 2*Qa/tc*	(0.667*tc*(Qp/Qa + 0.75*tc	+0.25*tcs)*P	SD + 2*Qa	*Qp	
			a = PSD = PSD =	+ PSD and solving + 1.0 + -b±V(b ² -4ac)/(2a + 0.430 I	k a) _/s	o = -5.	2	c =	2.1	
	В	elow ground	pipe - Eq 3.3 Qp = = PSD =	PSD*[1.6*tcs/{t 0.41 0.427 I	c*(1-2*PSD _/s	/(3*Qa))}-0.6*tc	s ^{2.67} /{tc*(1-2	*PSDp/(3*	'Qa))} ^{2.67}]	
	B t =	elow ground etcs/(tc*(1-2*	rectangular ta PSD/(3*Qa))) = Qp = = PSD =	nk - Eq 3.4 0.844 PSD*[0.005-0.4 0.41	55*t+5.228 [;] _/s	*t ² -1.045*t ³ -7.19	99*t ⁴ +4.519*	t⁵]		

flüssig

Project No.: 24001-66 Designed: DW

STORMWATER DETENTION V5.05

Design Storage Capacity (AEP of 5%)

Above ground (Vs) = [0.5*Qa*td-[(0.875*PSD*td)(1-0.917*PSD/Qa)+(0.427*td*PSD²/Qa)]]*60/10 ³ m ³	Eq 4.23
Below ground pipe (Vs) = [(0.5*Qa-0.637*PSD+0.089*PSD ² /Qa)*td]*60/10 ³ m ³	Eq 4.8
Below ground rect. tank (Vs) = [(0.5*Qa-0.572*PSD+0.048*PSD ² /Qa)*td]*60/10 ³ m ³	Eq 4.13

td	1	Qa	Above Vs	Pipe Vs	B/G Vs
(mins)	(mm/hr)	(L/s)	(m³)	(m³)	(m³)
5	86.6	4.8			0.64
22	42.7	2.4			1.24
30	35.5	1.9			1.34
39	30.2	1.7			1.40
47	26.9	1.5			1.43
55	24.4	1.3			1.45
64	22.2	1.2			1.46
72	20.7	1.1			1.46
81	19.3	1.1			1.46
89	18.2	1.0			1.45

Table 1 - Storage as function of time for AEP of 5%

Туре	td (mins)	l (mm/hr)	Qa (L/s)	Vs (m³)
Above				
Pipe				
B/ground	71.2	20.8	1.1	1.46

Table 2 - Storage requirements for AEP of 5%

Frequency of operation of Above Ground storage

Qop2 =	0.75 Cl 2.4.5.1	
Qp2 =Qop2*Qp1 (where Qp1=PSD) =	0.32 L/s at which time above ground storage occur	rs
I = 360*Qp2/(2*Cw*As*10 ³) =	5.9 mm/h	Eq 4.24

Period of Storage

Time to Fill:	
Above ground (tf) = $td^{*}(1-0.92^{*}PSD/Qa)$	Eq 4.27
Below ground pipe (tf) = td*(1-2*PSD/(3*Qa))	Eq 3.2
Below ground rect. tank (tf) = td*(1-2*PSD/(3*Qa))	Eq 3.2
Time to empty:	
Above ground (te) = (Vs+0.33*PSD ² *td/Qa*60/10 ³)*(1.14/PSD)*(10 ³ /60)	Eq 4.28
Below ground pipe (te) = 1.464/PSD*(Vs+0.333*PSD ² *td/Qa*60/10 ³)*(10 ³ /60)	Eq 4.32
3elow ground rect. tank (te) = 2.653/PSD*(Vs+0.333*PSD ² *td/Qa*60/10 ³)*(10 ³ /60)	Eq 4.36

Storage period (Ps = tf + te)

	td	Qa	Vs	tf	te	Ps		
Туре	(mins)	(L/s)	(L/s)	(mins)	(mins)	(mins)		
Above								
Pipe								
B/ground	71.2	1.1	1.5	54.0	178.9	232.9		
Table 3 - Period of Storage requirements for AEP of 5%								

Orifice

Permissible site discharge (Qu=PSD) =	0.41 L/s (Underground storage)	
Orifice coefficient (CD) =	0.61 For sharp circular orifice	
Gravitational acceration (g) =	9.81 m/s²	
Maximum storage depth above orifice (H) =	800 mm	
Orifice flow (Q) =	CD*Ao*√(2*g*H)	
Therefore: Orifice area (Ao) = Orifice diameter (D = ν(4*Αο/π)) =	172 mm² 14.8 mm	

Flussig Engineers

Eq 4.26

Soakage Trench

Hydrology						
A1 = impervious area collected	220	sqm	-			
C1 = coefficient	1		-			
A2=Impervious area	110	sqm	-			
	0.9		-			
AEP = Annual Exceedance Probability	5	%				
Ground Conditions						
Hydraulic conductivity K (absorption rate)	2 0022	mm/min				
Adjusted rate (15% clogging factor)	2.0055	mm/min				
Tranch Decign	1.7708					
	7					
Width P	7	m	-			
Depth h	0.8	m	-			
Base area BA	1/	sam	-			
Void space	35%	Sqiii	-			
Trench Storage	3 92	cum	-			
	3920.00		-			
	3520.00	-				
	<u> </u>	<u> </u>	Final			
Detention tank data		1	Check	[
Tank storage	3.00	cum	Criteria	Require	Desig	Chec k
	5.00	cum	criteria	ŭ		K
			Total			
			Detention			
			Required	4,200	6920	ОК
			Trench			
			capacity			
			for 5% AFP			
			20 minute			
Tank Underflow	0.86	L/s	storm	996	3920	ОК
Total available detention storage (tank +						
trench)	6.92	cum				
	6920	L				

Checking storms

	Duration (min)	Intensity (mm/hr)	Vol in System(L)	Vol in Trench (L)	Vol out Trench (L)	Storage total System (L)	Storage Trench(L)	Hours to empty Trench
5Mins	5	86.6	2302	714	124	2178	590	0
6Mins	6	82.34	2627	815	149	2478	666	1
10Mins	10	65.3	3472	1077	248	3224	830	1
20Mins	20	45.2	4806	1492	496	4310	996	1
30Mins	30	35.5	5662	2662	744	4919	1919	2
1Hr	60	23.1	7369	4369	1488	5881	2881	3
2Hrs	120	15.3	9761	6761	2975	6786	3786	5
3Hrs	180	12.2	11675	8675	4463	7213	4213	6
6Hrs	360	8.52	16307	13307	8925	7382	4382	9
12Hrs	720	5.99	22930	19930	17850	5080	2080	13
24Hrs	1440	4.05	31007	28007	35700	-4693	-7693	19
48Hrs	2880	2.51	38433	35433	71400	-32967	-35967	24
72Hrs	4320	1.8	41342	38342	107100	-65758	-68758	26

IFD Design Rainfall Intensity

Location

 Label:
 6 Sea Eagle Road Primrose Sands

 Latitude:
 -42.886 [Nearest grid cell: 42.8875 (S)]

 Longitude:
 147.653 [Nearest grid cell: 147.6625 (E)]



IFD Design Rainfall Intensity (mm/h)

Rainfall intensity for Durations, Exceedance per Year (EY), and Annual Exceedance Probabilities (AEP). FAQ for New ARR probability terminology

Table	Chart
lanc	Chart

Unit: mm/h 🗸

Issued: 14 October 2024

		Annual Exceedance Probability (AEP)								
Duration	63.2%	50%#	20%*	10%	5%	2%	1%			
1 <u>min</u>	64.8	72.8	99.9	120	141	171	196			
2 <u>min</u>	54.9	61.2	81.9	96.7	112	130	143			
3 min	48.8	54.5	73.4	86.9	101	118	132			
4 <u>min</u>	44.2	49.5	67.1	79.9	93.0	110	124			
5 min	40.5	45.5	62.0	74.1	86.6	104	118			
10 <u>min</u>	29.6	33.3	45.9	55.4	65.3	80.0	92.4			
15 <u>min</u>	24.0	27.0	37.3	45.0	53.1	65.2	75.4			
20 <u>min</u>	20.5	23.1	31.8	38.3	45.2	55.3	63.8			
25 <u>min</u>	18.1	20.3	27.9	33.6	39.6	48.3	55.5			
30 <u>min</u>	16.3	18.4	25.1	30.2	35.5	43.0	49.3			
45 <u>min</u>	13.0	14.6	19.8	23.6	27.6	33.1	37.5			
1 hour	11.1	12.4	16.8	19.9	23.1	27.4	30.8			
1.5 hour	8.88	9.93	13.3	15.7	18.1	21.2	23.6			
2 hour	7.61	8.52	11.4	13.4	15.3	17.8	19.7			
3 hour	6.14	6.89	9.20	10.7	12.2	14.1	15.5			
4.5 hour	4.97	5.59	7.48	8.70	9.86	11.4	12.5			
6 hour	4.27	4.82	6.47	7.53	8.52	9.84	10.8			
9 hour	3.42	3.88	5.25	6.13	6.94	8.08	8.92			
12 hour	2.90	3.30	4.50	5.27	5.99	7.01	7.78			
18 hour	2.26	2.58	3.57	4.20	4.80	5.68	6.35			
24 hour	1.87	2.14	2.98	3.53	4.05	4.83	5.43			
30 hour	1.60	1.83	2.56	3.05	3.51	4.21	4.75			
36 hour	1.39	1.60	2.25	2.68	3.10	3.73	4.22			
48 hour	1.12	1.28	1.81	2.16	2.51	3.03	3.44			
72 hour	0.797	0.916	1.29	1.55	1.80	2.17	2.47			
96 hour	0.622	0.714	1.00	1.20	1.39	1.67	1.90			
120 hour	0.513	0.587	0.817	0.972	1.12	1.35	1.54			
144 hour	0.439	0.501	0.693	0.818	0.938	1.13	1.28			
168 hour	0.386	0.441	0.604	0.708	0.805	0.967	1.10			

CERTIFICATE OF THE RESPONSIBLE DESIGNER

Section 94 Section 106 Section 129 Section 155

To:	Wilson Homes		Owner name	35
			Address	Form
			Suburb/postcode	e
Designer detail				
Doorginor dotai				
Name:	Max W. Moller		Category:	Civil
Business name:	Flussig Engineers		Phone No:	0431 080 279
Business address:	L4 116 Bathurst St			
	HOBART 7	000	Fax No:	N/A
Licence No:	650370893 Email address: max	@flussig.	.com.au	
Details of the p	roposed work:			
L I	-			
Owner/Applicant	Wilson Homes		Designer's proje reference No.	ect FE-24001-69
Address:	6 Sea Eagle Road		Lot No	:
	Primrose Sands 7173			
Type of work:	Building work	F	Plumbing work	X (X all applicable)
Description of wo	rk:			
On-Site stormwater	⁻ system - design		(n ac re w sto	ew building / alteration / ldition / repair / removal / -erection ater / sewerage / ormwater / -site wastewater
			ba	ackflow prevention / other)

Description of the Design Work (Scope, limitations or exclusions): (X all applicable certificates)

Certificate Type:	Certificate		Responsible Practitioner		
	Building design		Architect or Building Designer		
	☐ Structural design		Engineer or Civil Designer		
	☐ Fire Safety design		Fire Engineer		
	I Civil design		Civil Engineer or Civil Designer		
	Hydraulic design		Building Services Designer		
	☐ Fire service design		Building Services Designer		
	Electrical design		Building Services Designer		
	Mechanical design		Building Service Designer		
	□ Plumbing design		Plumber-Certifier; Architect, Building Designer or Engineer		
	□ Other (specify)				
Deemed-to-Satisfy:	1	Performance S	olution: 🗵 (X the appropriate box)		

Other details:

Onsite stormwater retention

Design documents provided:

The following documents are provided with this Certificate -

Document description:		
Drawing numbers: FE-24001-69_REV00-C100	Prepared by: Flussig Engineers	Date: 15.10.24
Schedules:	Prepared by:	Date:
Specifications: Performance Solution Report	Prepared by: Flussig Engineers	Date: 15.10.24
Computations: Performance solution Report	Prepared by: Flussig Engineers	Date: 15.10.24
Performance solution proposals: Onsite stormwater retention	Prepared by: Flussig Engineers	Date: 15.10.24
Test reports:	Prepared by:	Date:

Standards, codes or guidelines relied on in design	
process:	
AS1547-2012 On-site domestic wastewater management.	
AS3500 (Parts 0-5)-2013 Plumbing and drainage set.	

Any other relevant documentation:

GES stormwater assessment 'Site assessment - 6 Sea Eagle Road Primrose Sands'

Attribution as designer:

I Max W. Moller, am responsible for the design of that part of the work as described in this certificate;

The documentation relating to the design includes sufficient information for the assessment of the work in accordance with the *Building Act 2016* and sufficient detail for the builder or plumber to carry out the work in accordance with the documents and the Act;

This certificate confirms compliance and is evidence of suitability of this design with the requirements of the National Construction Code.

Max W. Moller

Alex Milling

18.10.24

Licence No: 650370893

110.

Director of Building Control - date approved: 2 August 2017

Building Act 2016 - Approved Form No 35

Assessment of Certifiable Works: (TasWater)

Note: single residential dwellings and outbuildings on a lot with an existing sewer connection are not considered to increase demand and are not certifiable.

If you cannot check ALL of these boxes, LEAVE THIS SECTION BLANK.

TasWater must then be contacted to determine if the proposed works are Certifiable Works.

I confirm that the proposed works are not Certifiable Works, in accordance with the Guidelines for TasWater CCW Assessments, by virtue that all of the following are satisfied:

Х	The works will not increase the demand for water supplied by TasWate
Х	The works will not increase or decrease the amount of sewage or toxins that is to be removed by, or discharged into, TasWater's sewerage infrastructure
X	The works will not require a new connection, or a modification to an existing connection, to be made to TasWater's infrastructure
Х	The works will not damage or interfere with TasWater's works
Х	The works will not adversely affect TasWater's operations
Х	The work are not within 2m of TasWater's infrastructure and are outside any TasWater easement
Х	I have checked the LISTMap to confirm the location of TasWater infrastructure
X	If the property is connected to TasWater's water system, a water meter is in place, or has been applied for to TasWater.

Certification:

Designer:

I Max W. Moller....... being responsible for the proposed work, am satisfied that the wor ks described above are not Certifiable Works, as defined within the *Water and Sewerage Industry Act 2008,* that I have answered the above questions with all due diligence and have read and understood the Guidelines for TasWater CCW Assessments.

Note: the Guidelines for TasWater Certification of Certifiable Works Assessments are available at: www.taswater.com.au

Name: (print)		Signed	Date	
Max W. Moller		Agaso Milling	18.10.24	

Development Application: 5.2024.2571 6 Sea Eagle Road, Primrose Sands New single storey dwelling development.

This report aims to demonstrate compliance with relevant planning standards for a proposed residential dwelling at 6 Sea Eagle Road, Primrose Sands, specifically addressing 10.4.3 P2 of the Tasmanian Planning Scheme.

10.4.3 Setback

Objective: That the siting of dwellings is compatible with the streetscape and does not cause an unreasonable loss of amenity for adjoining properties.
--

- (a) The topography of the site consists of moderate slopes with an easterly facing aspect in a coastal setting.
- (b) The lot is easterly facing, 914m2 and irregular in shape.
- (c) The proposed dwelling is consistent with the setbacks of the surrounding buildings. It is evident due to the size and shape of lots in the area, setback requirements for *Low Density Residential* are reliant upon compliance with the performance criteria.
- (d) The character of the area is prominent with two storey dwellings looking to optimise the coastal and ocean views. The proposed new dwelling has been designed to fit harmoniously within the area without causing adverse impacts to the existing and future buildings.
- (e) There are no existing buildings on the proposed lot and private open space compliance is achieved and demonstrated within Rev.06 Wilson Homes architectural drawings.
- (f) The proposed dwelling will project some overshadowing to the existing building at Lot29, please refer to attached shadow diagrams for full details and projection.
- (g) The character of the development on existing properties within the area is a mix of residential, rural and beach shack buildings built into the hill side looking to optimize the ocean and coastal views.

Development Application: 5.2024.2571 6 Sea Eagle Road, Primrose Sands New single storey dwelling development.



SOUTH ELEVATION SCALE: 1:100

	AS & NCC COMPLI	ANCE	3D PERSP	ECTIVE				
	ALL CONSTRUCTION TO BE IN APPLICABLE AUSTRALIAN ST	ACCORDANCE WITH NCC 2022 AND ANDARDS AT TIME OF APPROVAL.						
TASMANIAN PLANNING SCHEME	 SLAB IN ACCORDANCE WITH FOR ALL SLAB DETAILS. 	AS 2870. REFER TO ENGINEERS DETAILS			BU	ILDING INFORMATION	7	
SHEET INDEX	- BRICK CONTROL JOINTS PR - ALL STEEL FRAMING TO BE	OVIDED IN ACCORDANCE WITH NCC 2022. DESIGNED TO AS 4100-2020 OR AS/NZS			GROU		_	
1 COVER SHEET	4600-2018. - INSULATION TO BE INSTALL	ED IN ACCORDANCE WITH NCC 2022 AND			ROOF	F PITCH (U.N.O.) 23.0°	-	
2 STIE PLAN 3 SOIL & WATER MANAGEMENT PLAN	- TERMITE PROTECTION IN A	N STANDARDS. CCORDANCE WITH AS 3660 AND NCC 2022.			GAS S	SUPPLY SINGLE PHASE NONE	_	
4 GROUND FLOOR PLAN 5 ELEVATIONS / SECTION	GLAZING IN ACCORDANCE SMOKE ALARMS IN ACCORE	VITH AS 1288 AND NCC 2022. ANCE WITH AS 3786 AND NCC 2022.			ROOF	F MATERIAL SHEET METAL	_	
6 ELEVATIONS	 INTERNAL WATERPROOFING HOUSING PROVISIONS PAR 	G IN ACCORDANCE WITH NCC 2022 T 10.2.	,			L MATERIAL BRICK VENEER		
7 WINDOW & DOOR SCHEDULES 8 ROOF DRAINAGE PLAN	 EXTERNAL WATERPROOFIN 4654. 	G IN ACCORDANCE WITH AS 3740 AND AS			SLAB	B CLASSIFICATION TBC	_	
9 FLOOR COVERINGS 10 KITCHEN DETAILS	 WET AREA FLOORS TO FALL 1:50 GRADE (IF APPLICABLE 	. TO FLOOR WASTES AT MIN. 1:80 AND MAX.).			INS	SULATION		
11 BATHROOM DETAILS	CONDENSATION MANAGEM BUILDING SEALING IN ACCC	ENT IN ACCORDANCE WITH NCC 2019. RDANCE WITH NCC 2022.			CEILI	ING R4.1 BATTS (EXCL. GARAGE, ALFRESCO)	-	
12 ENSUITE DETAILS 13 LAUNDRY DETAILS	 SERVICES IN ACCORDANCE EARTHWORKS IN ACCORDA 	WITH NCC 2022. NCE WITH AS 3798-2007.	k		EXT.	WALLS R2.0 BATTS (EXCL. GARAGE) WALL WRAP TO ENTIRE HOUSE		
14 SHADOW PLANS 15 SHADOW PLANS	- EXTERNAL WALL WRAP (SA APPLICABLE).	RKING) IN ACCORDANCE WITH NCC 2022 (IF			INT. V	WALLS R2.0 BATTS ADJACENT TO GARAGE AND AS PER PLAN	-	
	- EXHAUST FANS DUCTED TO	OUTSIDE AIR (IF APPLICABLE).			FLOO	JR AIRCELL FOR B&J		
	SITE SPECIFIC CO	NTROLS						
ALFRESCO GRANDE 25.05		DETAILS	-					
GARAGE 39.02	BIODIVERSITY	NO		OWNER				
PORCH 10.38	BUILDING ENVELOPE BUSHFIRE	NO NO	THESE PLANS MA	AY FEATURE WORKS THAT ARE EXCLUDED FROM THE SCOPE OF WORKS WITH THE BUILDER, BUT THEY HAVE BEEN INCLUDI	DED IN			
193.51 m ²	CLIMATE ZONE (NCC)		THESE DRAWING	IS TO ASSIST IN THE OVERALL PLANNING AND ASSESSMENT OF THE BUILDING PROJECT. EXAMPLES OF SOME REGULARLY KS INCLUDE DRIVEWAYS, RETAINING WALLS, SOLAR PANEL SPACING AND SITE DRAINAGE. PLEASE REFER TO YOUR SCOPE	EOF			
ON SITE WASTEWATER	ESTATE/DEVELOPER GUIDELI	NES NO	WORKS AND COL FLOORING, TILING	.OUR SELECTIONS DOCUMENTATION FOR DETAILS OF INCLUDED WORKS. SOME DETAILS ARE INDICATIVE ONLY FOR EXAMP G, BRICKWORK AND CLADDING (EXPANSION JOINTS, ORIENTATION AND LAYOUT) AND ARE SUBJECT TO CHANGE.	PLE			
TREATMENT REQUIRED. REFER	FLOOD OVERLAY HERITAGE	NO NO						
TO REPORT PREPARED BY		NO	LOCATION					
GES (08.10.2024)	NATURAL ASSET CODE	NO						
ON SITE STORMWATER	NOISE ATTENUATION SALINE SOIL	NO NO						
MANAGEMENT.	SHIELDING FACTOR	PS - PARTIAL SHIELDING						
REFER TO REPORT PREPARED BY	SPECIFIC AREA PLAN OVERLA	Y YES			Count	eved ot		
GES/FLUSSIG (18.10.2024)	AIRPORT OBSTACLE LIMITA	TION AREA / SOUTHERN BEACHES			ants:	an approver point		
	TOPOGRAPHIC CLASSIFICATIO	DN T1			Hocumend ra	ating onnecoval.		
	WIND REGION	A - NORMAL		NOW	ing report antion	ns ing App.		
	WITHIN 1km CALM SALT WATE WITHIN 50km BREAKING SURF	R 150m 19.00km		a the ton the top a	BAL minumic Pla	amin		
	ZONING	LOW DENSITY RESIDENTIAL		r more ocument an	nd cormation.			
	BUILDING CONTR	OLS & COMPLIANCE		of one enant do power Dig	3 m			
	CONTROL	REQUIRED PROPOSED		receipt and cover points you	TA ROAD	SOPELL		
	SETBACKS	MIN 0.000mm 0.000mm		or to the sement connect Dial be		COUNCEL	Sorell Council	
	GARAGE TO BOUNDARY	MIN. 9,000mm 18,000mm		ared phones, ease vice survey, and				
	SIDE A SIDE B	MIN. 5,000mm 4,000mm MIN. 5,000mm 2,220mm	- 00	en preparitie zons and contour		Develo	pment Application: 5.2024	.257.1 -
	REAR	MIN. 5,000mm 10,300mm		has be lot spe location,		Respor	nse to Request for Informa	ation - 6 Sea
	SITE AREA	914m²		This Plan is the cossole mesus	~~	Plans F	Reference: P2	2.pui
		MAX. 50% 21.17%		of Title milding micel Ste		Date re	3ceived: 10/12/2024	
	NO APPLICABLE CONTROLS			tificate plans peoteon				
	EARTHWORKS		_	Certivision tation,				
	FILL DEPTH	MAX. 2,000mm 684mm MAX. 1,000mm 0mm		sur infor.			SUBJECT T	TO NCC 2022
	ACCESS & AMENITY		-				(1 MA	Y 2023)
PRELIMINARY PLAN SET	PARKING SPACES PRIVATE OPEN SPACE	MIN. 2 SPACES 2 SPACES MIN. 24m ² 24m ²					WATERPROOF	
		Δ11 2	024 12 04 STI				PLAN ACCEPTA	NCE BY OWNER
			024 11 01 TDI				SIGNATURE:	DATE:
		2 14 15 2	024.11.01 TDI					
3 PREI IMINARY PLAN SET - INITIAL ISSUE			024 10 03 MT/HMI	+			SIGNATURE:	DATE:
		SHFFT						
	© 2024 WILSON HOMES I	PTY LTD (ABN 96 126 636 897). THIS DRAWING IN ANY WAY REPRODUCE, COPY, MOI	G IS AN ORIGINAL ART DIFY, USE OR TAKE A	TISTIC WORK WITHIN THE MEANING OF THE COPYRIGHT ACT 1968 (CTH). WILSON HOMES PTY LTD IS THE OWNER OF COPYR DVANTAGE OF THE DRAWING TO BUILD A HOUSE BASED ON THIS PLAN (WHETHER IN WHOLE OR IN PART) WITHOUT THE PRI	RIGHT IN THIS DRAWIN RIOR WRITTEN CONSEI	NG. YOU HEREBY AGREE AND UNDERTAKE THAT YOU WILL NOT ENT OF WILSON HOMES PTY LTD.	PLEASE NOTE THAT VARIATI AFTER THIS PLAN ACCEP	IONS WILL NOT BE ACCEPTED PTANCE HAS BEEN SIGNED
SPECIFICATIO	N: I	RE\/ISION		DRAWN CLIENT:	HOU	JSE DESIGN:	HOUSE CODE:	DO NOT SCALE DRAWINGS. USF
	ERY	2 DRAFT SALES PLAN - CT2		MLG 10/09/2024 STEVEN & JULIE PAINE	SH	IEFFIELD 16	H-WDCSHF10SB	FIGURED DIMENSIONS ONLY. CHECK AND VERIFY DIMENSIONS AND
		3 PRELIM PLANS - INITIAL ISSUE		MT 03/10/2024 ADDRESS:	FACA	ADE DESIGN:	FACADE CODE:	LEVELS PRIOR TO THE COMMENCEMENT OF ANY WORK. ALL DISCREPANCIES TO BE REPORTED
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	F	6 PRELIM PLANS - COUNCIL RFI	2	TL 04/12/224 28 / - / 9447 SORELL COUNCIL	CO	DVER SHEET	1/15 1:100	714043

	SPECIFICATION:		SPECIFICATION:	REVISION		DRAWN	CLIENT:		HOUSE DESIGN:
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	HOMES © 2024		© 2024	4 PRELIM PLAN - RFI SHADOW DIAGRAM	НМІ	16/10/2024	6 SEA EAGLE ROAD, PR	IMROSE SANDS TAS 7173	RHYDE
				5 PRELIM PLANS - COLOUR & VARIATIONS	TDI	01/11/2024	LOT / SECTION / CT:	COUNCIL:	SHEET TITLE:
				6 PRELIM PLANS - COUNCIL RFI	STL	04/12/2024	28 / - / 9447	SORELL COUNCIL	COVER SHEET

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	SPECIFICATION:	REVISION	0	DRAWN CLIENT:		HOUSE DESIGN:
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		6 PRELIM PLANS - COUNCIL RFI	STL	04/12/2024 28 / - / 9447	SORELL COUNCIL	SITE PLAN



Development Response to Eagle Road, Plans Refere Date received	I Council t Application: 5.202 Request for Inform Primrose Sands - F nce: P2 d: 10/12/2024	4.257.1 - ation - 6 Sea 22.pdf						
	SUBJECT TO (1 MAY WATERPROOFIN	D NCC 2022 2023) G & PLUMBING						
	PLAN ACCEPTAN							
	SIGNATURE:	DATE:						
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YOU WILL NOT PLEASE NOTE THAT VARIATIONS WILL NOT BE ACCEPTED AFTER THIS PLAN ACCEPTANCE HAS BEEN SIGNED								
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	SPECIFICATION	REV/ISION	DRAWN CLIENT		HOUSE DESIGN:
		2 DRAFT SALES PLAN - CT2	MLG 10/09/2024 STEVEN & JULIE PAIN	10/09/2024 STEVEN & JULIE PAINE	
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HUIIIE2		5 PRELIM PLANS - COLOUR & VARIATIONS	TDI 01/11/2024 LOT / SECTION / CT:	COUNCIL:	SHEET TITLE:
		6 PRELIM PLANS - COUNCIL RFI	STL 04/12/2024 28 / - / 9447	SORELL COUNCIL	GROUND FLOOR PLAN

ANY PART OF THE FASCIA, GUTTERING OR DOWNPIPE THAT IS WITHIN 450mm OF ANY BOUNDARY IS TO BE NON-COMBUSTIBLE IN ACCORDANCE WITH NCC 2022

ALL EXTERIOR SLABS TO BE GRADED BY CONCRETER TO ACHIEVE APPROX. 1:100 FALL TO OUTSIDE EDGE WITH MAXIMUM CROSSFALL OF 30mm OVER ENTIRE SLAB.

DATE: DATE: PLEASE NOTE THAT VARIATIONS WILL NOT BE ACCEPTED AFTER THIS PLAN ACCEPTANCE HAS BEEN SIGNED HOUSE CODE DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS ONLY, CHEC H-WDCSHF10SB AND VERIFY DIMENSIONS AND I EVELS PRIOR TO THE FACADE CODE OMMENCEMENT OF ANY WORK DISCREPANCIES TO BE REPORTED TO THE DRAFTING OFFICE. F-WDCSHF10RHYDA SHEET No .: SCALES 714043 4 / 15 1:100



AC24 - Rev. 06 - 2024.12.04.plr



NORTH ELEVATION SCALE: 1:100



SOUTH ELEVATION SCALE: 1:100

			WINDOV	V TYPE L	EG
GLASS TYPE	LEGEND	٦		\	
CLEAR	OBSCURE		AWNING	DOUBLE HUNG	FIX

Development Application: 5.2024.257.1 -Response to Request for Information - 6 Sea Eagle Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received: 10/12/2024

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HUIIIE3		5 PRELIM PLANS - COLOUR & VARIATIONS	TDI 01/11/2024 LOT / SECTION / CT: COUNCIL:	SHEET TITLE:
		6 PRELIM PLANS - COUNCIL RFI	STL 04/12/2024 28 / - / 9447 SORELL COUNCIL	ELEVATIONS

REFER TO SHEET 1 (COVER SHEET) FOR ALL BUILDING INFORMATION REGARDING: - SUSTAINABILITY REQUIREMENTS

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SHEET No.: SCALES:

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E	XTERIOR WIN	DOW	& DOOR SCHEDULE	1, 2 ASSUME LOOKI	NG FROM OUTSIDE										
	STOREY	ID	CODE ¹	TYPE	ROOM	HEIGHT	WIDTH	PERIMETER	AREA (m²)	FRAME TYPE	BAL RATING	SILL TYPE	ORIENT.	GLAZING AREA (m ²) GLAZING TYPE	ADDITIONAL INFORMA
w	INDOW		I										1	· · ·	
	GROUND FLOOR	W01	AFA1818	AWNING	BED 2	1,800	1,810	7,220	3.26	ALUMINIUM	N/A	NONE	W	2.51 CLEAR, DOUBLE GLAZED	MP 603-603, STANDARD FI
	GROUND FLOOR	W02	AFA1818	AWNING	BED 3	1,800	1,810	7,220	3.26	ALUMINIUM	N/A	NONE	W	2.51 CLEAR, DOUBLE GLAZED	MP 603-603, STANDARD FI
	GROUND FLOOR	W03	A1006	AWNING	BATH	1,030	610	3,280	0.63	ALUMINIUM	N/A	ANGLED	S	0.44 OBSCURE, DOUBLE GLAZED	STANDARD FIBRE GLASS
	GROUND FLOOR	W04	A1006	AWNING	WC	1,030	610	3,280	0.63	ALUMINIUM	N/A	ANGLED	S	0.44 OBSCURE, DOUBLE GLAZED	STANDARD FIBRE GLASS
	GROUND FLOOR	W05	SF/FF2090x1570	SLIDING	DINING	2,090	1,570	7,320	3.28	ALUMINIUM	N/A	SNAP HEADER	E	2.81 CLEAR, DOUBLE GLAZED	BP 600, MP 785/0, STANDA
	GROUND FLOOR	W06	SFS/FFF1827	SLIDING	BED 1	1,800	2,650	8,900	4.77	ALUMINIUM	N/A	ANGLED	E	4.10 CLEAR, DOUBLE GLAZED	BP 600, MP 663-1325/0, ST/
	GROUND FLOOR	W07	A1006	AWNING	ENS	1,030	610	3,280	0.63	ALUMINIUM	N/A	ANGLED	E	0.44 OBSCURE, DOUBLE GLAZED	
									16.46					13.25	
D	DOR					•					•		•		i
	GROUND FLOOR	D01	820	SWINGING	ENTRY	2,097	876	5,946	1.84	ALUMINIUM	N/A	NONE	W	1.23 N\A	
	GROUND FLOOR	D02	SSF2158x2688	STACKER	LIVING	2,158	2,688	9,692	5.80	ALUMINIUM	N/A	SNAP HEADER	E	5.10 CLEAR, DOUBLE GLAZED, TOUGHENED	STANDARD FLYSCREEN M
	GROUND FLOOR	D03	820	SWINGING	GARAGE	2,097	876	5,946	1.84	ALUMINIUM	N/A	NONE	N	1.23 N/A	HUME SOLICORE FLUSH F
									9.48					7.56	
									25.94					20.81	

Sorell Council

Development Application: 5.2024.257.1 -Response to Request for Information - 6 Sea Eagle Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received: 10/12/2024

	oow a	& DOOR SCHEDUL	E					
STOREY	QTY	CODE	TYPE	HEIGHT	WIDTH	GLAZING TYPE	ADDITIONAL INFORMATION	
DOOR								
GROUND FLOOR	1	1000 SS	SQUARE SET OPENING	2,155	1,000	N/A		
GROUND FLOOR	1	2 x 770	ROBEMAKER SLIDING	2,040	1,560	N/A		
GROUND FLOOR	1	2155 x 740 SS (820)	FACE SLIDING	2,155	820	N/A		
GROUND FLOOR	1	3 x 720	SWINGING	2,040	2,194	N/A		
GROUND FLOOR	1	3 x 770	ROBEMAKER SLIDING	2,040	2,310	N/A		
GROUND FLOOR	2	720	SWINGING	2,040	720	N/A		
GROUND FLOOR	2	720	SWINGING	2,040	720	N/A	LIFT-OFF HINGES	
GROUND FLOOR	1	800 SS	SQUARE SET OPENING	2,155	800	N/A		
GROUND FLOOR	6	820	SWINGING	2,040	820	N/A		
GROUND FLOOR	1	900 SS	SQUARE SET OPENING	2,155	900	N/A		PICTURE, TV RECESS AND SS WINDOW OPENIN
GROUND FLOOR	1	990 SS	SQUARE SET OPENING	2,155	990	N/A		QTY TYPE HEIGHT WIDTH AREA

REFER TO SHEET 1 (COVER SHEET) FOR ALL BUILDING INFORMATION REGARDING: - SUSTAINABILITY REQUIREMENTS - SITE CLASSIFICATION - GENERAL BUILDING INFORMATION

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		SPECIFICATION:		REVISION	[DRAWN	CLIENT:		HOUSE DESIGN:	
		DISCOVERY		DRAFT SALES PLAN - CT2	MLG 10/09/2024		STEVEN & JULIE PAINE		SHEFFIELD 16	
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	IIOMEC	© 2024	4	PRELIM PLAN - RFI SHADOW DIAGRAM	НМІ	16/10/2024	6 SEA EAGLE ROAD, PR	SEA EAGLE ROAD, PRIMROSE SANDS TAS 7173		
HUIIIE3			5	PRELIM PLANS - COLOUR & VARIATIONS	TDI	01/11/2024	LOT / SECTION / CT:	COUNCIL:	SHEET TITLE:	
			6	PRELIM PLANS - COUNCIL RFI	STL	04/12/2024	28 / - / 9447	SORELL COUNCIL	WINDOW & DOOR SCHEDULES	

MANUFACTURER: CLARK

TION²

BRE GLASS BRE GLASS

RD FIBRE GLASS ANDARD FIBRE GLASS

IESH ANEL

Manufacturer - Clark Windows			
Window Type	Glazing	U-Value	SHGC
Awning	Single	6.5	
	Double	4.1	
Fixed	Single	5.9	
	Double	3.2	
Sliding	Single	6.4	
	Double	4.2	
Fixed Pane	Single	5.9	
	Double	3.2	
Fixed Glass Panel Hinged Door	Single	6.0	
=	Double	4.3	
Sliding Door	Single	6.1	
	Double	3.6	
Stacking Door	Single	6.3	
	Double	3.8	
135 deg. Awning Bay Window	Single	6.5	
	Double	4.1	
135 deg. Sliding Bay Window	Single	6.5	
	Double	4.2	
90 deg. Awning Bay Window	Single	6.5	
	Double	4.1	
90 deg. Sliding Bay Window	Single	6.5	
	Double	4.2	
Bifold Doors	Single	6.1	
	Double	4.4	

NOTE: Windows supplied MUST HAVE Uw better and or equal to stated figures and SHGC within +/- 5% of stated figures. Restricted windows to have their openability restricted as per N.C.C 11.3.6.

	SUBJECT TO NCC 2022 (1 MAY 2023) WATERPROOFING & PLUMBING PLAN ACCEPTANCE BY OWNE					
	SIGNATURE:	DATE:				
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IAT YOU WILL NOT	PLEASE NOTE THAT VA AFTER THIS PLAN A	ARIATIONS WILL NOT BE ACCEPTED CCEPTANCE HAS BEEN SIGNED				
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		AND VERIFY DIMENSIONS AND LEVELS PRIOR TO THE				
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714043



WHERE DOWNPIPES ARE FURTHER THAN 1.2m AWAY FROM VALLEY REFER TO
N.C.C. 7.3.5(2) POSITION AND QUALITY OF DOWNPIPES
ARE NOT TO BE ALTERED WITHOUT CONSULTATION WITH DESIGNER.

AREA'S SHOWN ARE SURFACE AREAS/ CATCHMENT AREAS, NOT PLAN AREAS

Roofi	ng Data	
	219.75	Flat Roof Area (excluding gutter and slope factor) (m ²)
	238.73	Roof Surface Area (includes slope factor, excludes gutter) (m ²)
Down	pipe roof	calculations (as per AS/NZA3500.3:2021)
Ah	230.38	Area of roof catchment (including 115mm Slotted Quad Gutter) (m ²)
Ac	278.76	Ah x Catchment Area Multiplier for slope (Table 3.4.3.2 from AS/NZS 3500.3:2021) (1.21 for 23 [°] pitch) (m ²)
Ae	6300	Cross sectional area of 57 x 115 Slotted Quad Gutter (mm ²)
DRI	113	Design Rainfall Intensity (determined from Table E1 from AS/NZS 3500.3:2021)
Acdp	64	Catchment area per Downpipe (determined from Figure 3.5(A) from AS/NZS 3500.3:2021) (m ²)
Required Downpipes	4.4	Ac / Acdp
Downpipes Provided	8	



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	SPECIFICATION:		REVISION	[DRAWN CLIENT:		HOUSE DESIGN:
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	© 2024	4	PRELIM PLAN - RFI SHADOW DIAGRAM	НМІ	16/10/2024 6 SEA EAGLE ROAD, PR	RIMROSE SANDS TAS 7173	RHYDE
		5	PRELIM PLANS - COLOUR & VARIATIONS	TDI	01/11/2024 LOT / SECTION / CT:	COUNCIL:	SHEET TITLE:
		6	PRELIM PLANS - COUNCIL RFI	STL	04/12/2024 28 / - / 9447	SORELL COUNCIL	ROOF DRAINAGE PLAN

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SUBJECT (1 M/	TO NCC 2022 AY 2023)
PLAN ACCEPT	FING & PLUMBING
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RE	EFER TO SHEET 1 (COVER SHEET) FOR
AL	L BUILDING INFORMATION REGARDIN
-	SUSTAINABILITY REQUIREMENTS
-	SITE CLASSIFICATION
-	GENERAL BUILDING INFORMATION

FLOOR TILES SHOWN ON PLAN DO NOT INDICATE THE SIZE OR JOINT LOCATIONS OF THE ACTUAL FLOOR TILES. TIMBER FLOORING SHOWN ON PLAN DOES NOT INDICATE THE BOARD SIZE OR DIRECTION OF THE ACTUAL FLOORING.

COVERINGS LEGEND

NO COVERING RAW CONCRETE (COVERING BY OWNER) CARPET TIMBER/LAMINATE (BY OWNER) TILE (STANDARD WET AREAS) TILE (UPGRADED AREAS)





Development Application: 5.2024.257.1 -Response to Request for Information - 6 Sea Eagle Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received: 10/12/2024

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	HUIIIES		5 PRELIM PLANS - COLOUR & VARIATIONS	TDI	01/11/2024	LOT / SECTION / CT:	COUNCIL:	SHEET TITLE:
			6 PRELIM PLANS - COUNCIL RFI	STL	04/12/2024	28 / - / 9447	SORELL COUNCIL	FLOOR COVERINGS

		SUBJECT T (1 MA\ WATERPROOFI	O NCC 2022 Y 2023) NG & PLUMBING
		PLAN ACCEPTA	NCE BY OWNER
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P2)/12/2024

REFER TO SHEET 1 (COVER SHEET ALL BUILDING INFORMATION REGA - SUSTAINABILITY REQUIREMENT - SITE CLASSIFICATION - GENERAL BUILDING INFORMATI) for Rding: S					
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REFER TO THE FOLLOWING DETAILS: VANITY DETAILS G-VANI-001 WINDOW OVER BATH HOB D-WIND-ALU001

STANDARD BATH HOB D-WETA-BATH003 WET AREA TILING LAYOUTS D-WETA-TILE002 SQUARE SET WINDOWS G-WIND-SSET02 FULL HEIGHT TILING D-LINI-WETA



ELEVATION A SCALE: 1:50



ELEVATION B SCALE: 1:50



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	HUIIIE9		5	PRELIM PLANS - COLOUR & VARIATIONS	TDI	01/11/2024	LOT / SECTION / CT:	COUNCIL:	SHEET TITLE:
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REFER TO SHEET 1 (COVER SHEET) FOR ALL BUILDING INFORMATION REGARDING: SUSTAINABILITY REQUIREMENTS SITE CLASSIFICATION GENERAL BUILDING INFORMATION

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ived: 10/12/2024				
		WS	WALL SPOUT	
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Response to Reques Eagle Road, Primros Plans Reference: P2 Date received: 10/12



ENSUITE PLAN





	SPECIFICATION:	REVISION	D	RAWN	CLIENT:		HOUSE DESIGN:
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