GEOTECH 24-030a

11/9/2024

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## ONSITE WASTEWATER ASSESSMENT / SYSTEM DESIGN - 92 Lowes Road, Bruny Island

Below find the assessment to determine of the type and size of wastewater treatment system, and the allocation of a Land Application Area (LAA) for a proposed residence at 92 Lowes Road, Bruny Island. This assessment should be read in conjunction with Site & Soil Evaluation Report (GEOTECH 24-030a) - enclosed.

A site investigation was completed in 2012, and again in 2024. This assessment included the augering of three test holes to assess the site for onsite wastewater disposal suitability (4WD mounted SAMPLA25 mechanical auger with 100mm solid flight augers).

This area designated for the proposed wastewater LAA (Plate 1) slopes shallowly at 2-3 degrees to the west.

Typical of the profiles encountered in the Test Holes was;

0.00 - 0.25m sandy CLAY: medium plasticity, greyish brown, 25-30% fine to medium grained, greyish brown,

moist, rootlets - TOPSOIL

0.25 - 0.80m sandy CLAY: medium to high plasticity, olive brown, 30% fine to coarse grained, brown, trace

fine to medium angular dolerite gravel

0.80m+ Auger refusal on dolerite bedrock - 0.80m depth

Groundwater was not encountered in any of the test holes.

The site is classified as a Class 6 (clay / bedrock) with an Indicative Permeability of 0.12-0.5 m/day.

A Design Irrigation Rate (DIR) of 2mm/day is appropriate for secondary treated effluent from an Aerated Wastewater Treatment System (AWTS).

It is proposed to install an Aerated Wastewater Treatment System (AWTS) and to dispose of the effluent via subsurface irrigation under lawn (to be established).

Plate 1 - Proposed LAA. Looking upslope to the northeast.



# COMPLIANCE WITH THE INTERIM PLANNING SCHEME

Compliance Table	Code E23			
Acceptable Solutions	Performance Criteria	Compliance achieved by		
E23.10 Development Standards for Land Application Areas				
Horizontal separation distance from a building to a LAA must comply with one of the following:  (a) be no less than 6m;  (b) be no less than;  (i) 2m from an upslope or level building;  (ii) if primary treated effluent 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 down slope building.	P1 Horizontal separation distance from a building to a LAA must satisfy all of the following: (a) effluent must be no less than secondary treated effluent standard and applied through a subsurface land application system; (b) be no less than 2m.	Complies with A1  LAA >2m from upslope building.		

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Horizontal separation distance from downslope surface water to a LAA must comply with any of the following:  (a) be no less than 100m;  (b) if the site is within a high rainfall area or the site soil category is 4, 5 or 6, be no less than the following;  (i) if primary treated effluent standard or surface application, 50m plus 7m for every degree of average gradient from downslope surface water;  (ii) if secondary treated effluent standard and subsurface application, 50m plus 2m for every degree of average gradient from down slope surface water.  (c) if the site is not within a high rainfall area or the site soil category is not 4, 5 or 6, be no less than the following;  (i) if primary treated effluent 15m plus 7m for every degree of average gradient from downslope surface water;  (ii) if secondary treated effluent & subsurface application, 15m plus 2m for every degree of average gradient from down slope surface water.	Horizontal separation distance from downslope surface water for a LAA must satisfy all of the following:  (a) effluent must be no less than secondary treated effluent standard & applied through a subsurface land application system;  (b) be no less than 15m;  (c) the surface water is not of high resource or environmental value;  (d) the average gradient is no more than 16 degrees;  (e) the site is not in a flood prone area with an ARI of no less than 20 years;  (f) either of the following applies:  (i) the site soil category is 1, 2 or 3;  (ii) a raised bed is used.	Complies with A2  LAA >100m from downslope surface water.
Horizontal separation distance from a property boundary to a LAA must comply with either of the following:  (a) be no less than 40m from a property boundary; (b) be no less than:  (i) 1.5m from an upslope or level property boundary; &  (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.	P3 Horizontal separation distance from a property boundary to a LAA must satisfy all of the following:  (a) effluent must be no less than secondary treated effluent standard & applied through a subsurface land application system;  (b) be no less than 1.5m  (c) the average gradient is no more than 16 degrees;  (d) either of the following applies:  (i) the vertical separation between the LAA & groundwater or any limiting layer is no less than 1.5m;  (ii) a raised bed is used to achieve a minimum vertical separation of 1.5m between the LAA & groundwater or any limiting layer.	Complies with A3  LAA >40m from any property boundary.
A4 Horizontal separation distance from a downslope bore, well or similar water supply to a LAA must be no less than 50m.	P4 Horizontal separation distance from a downslope bore, well or similar water supply to a LAA must satisfy all of the following: (a) effluent must be no less than secondary treated effluent standard & applied through a subsurface land application system; (b) be no less than 15m; (c) the water is not high resource value water.	Complies with A4  No known potable bores in the area.
A5 Vertical separation distance between groundwater & a LAA must be no less than 1.5m.	Vertical separation distance between groundwater & a LAA must satisfy all of the following:  (a) effluent must be no less than secondary treated effluent standard & applied through a subsurface land application system;  (b) vertical separation distance must be no less than 0.5m, (whether 'in ground' or by use of a raised bed).	Complies with A5  Groundwater not encountered.

A6	P6	Complies with P6
Vertical separation distance between a limiting	Vertical separation distance between a	
layer & a LAA must be no less than 1.5m.	limiting layer & a LAA must satisfy all of the	Secondary treated effluent.
	following: (a) effluent must be no less than secondary	emuent.
	treated effluent standard & applied through a	Limiting layer >0.5m.
	subsurface land application system;	3 ,
	(b) vertical separation distance must be no	
	less than 0.5m, (whether 'in ground' or by	
	use of a raised bed).	
	07	Complies with A7
A7	P7	Compiles with Ar
The arrangement of a LAA must comply with both	No performance criteria.	
of the following: (a) not include areas beneath buildings, driveways		
or other hard stand areas;		
(b) have a minimum horizontal dimension of 3m.		
(-)		

#### WASTEWATER SYSTEM DESIGN:

The site is not suitable for an 'inground' trench based onsite wastewater system due to the low permeability of the clay subsoils and shallow bedrock.

It is proposed to install an Aerated Wastewater Treatment System (AWTS) and to dispose of the effluent into a LAA consisting of subsurface irrigation lines.

Several models of AWTS units care available that can be run off solar power.

The size of the total LAAs is conditional on the wastewater load entering the system and the permeability of the site.

The site is classified as a Class 6 (clay / bedrock) with an Indicative Permeability of 0.12-0.5 m/day. A Design Irrigation Rate (DIR) of 2mm/day is appropriate for secondary treated effluent from an Aerated Wastewater Treatment System (AWTS).

2-bedroom residence 4 persons occupancy
Tank water 120 litres/person/day

Wastewater Load 4 x 120 litres/person/day 480 litres/day

Design Irrigation Rate (DIR) 2mm/day Secondary treated effluent

Irrigation Area  $480 / 2 = 240 \text{m}^2$ 

Total size of calculated Land Application Area (LAA) is 240m<sup>2</sup>.

#### LAND APPLICATION AREA

The new Land Application Area should be constructed as per the following specifications:

- Establishment and maintenance of 240m<sup>2</sup> of irrigation area.
- The area is to consist of sub-surface irrigation under designated lawns.
- Landscaping of the irrigation area is to be maintained in good order at all times. Such maintenance includes the mowing
  of the lawns.
- The LAA shall be stripped of vegetation, cleared of surface rocks and lightly ripped.
- The driplines will be placed on the surface of the site, and covered with 150mm of sandy LOAM / TOPSOIL.
- The drip lines must be rated for use with wastewater (pressure compensated), and organized to cover the entire 240m<sup>2</sup> zone @ 0.8m spacings.
- A Vacuum Breaker Valve will be installed at the high point of the LAA, and placed in a valve box to enable inspection.
- A Flush Valve will be provided for the LAA, with piping returning the flush water to the treatment plant. The Flush Valve will be installed in a valve box to allow inspection and servicing.
- An inline strainer (150-200 mesh) is to be installed to prevent solids from entering the irrigation system.
- A cutoff drain will be installed on the eastern and northern sides of the LAA (250mm deep and 300mm wide), to prevent
  overground water flows entering the site.
- The areas should not be driven on, as compaction of the subsurface driplines could render the system unserviceable.

## SITE AND SOIL EVALUATION REPORT

## Soil Category:

	Modified Emerson Test Required	No
1,2,3,4,5,6	If Yes, Emerson Class No	
Measured or Estimated Soil Permeability (m/d):	.12-0.5 m/day	
Design Irrigation Rate (DIR)	2 mm/day	
Geology:	Dolerite	
Slope:	2-3 degrees	
<u>Drainage lines / water courses</u> :	Nil	
Vegetation:	semi-cleared	
Site History: (land use)	Bush block	
Aspect:	west	
Pre-dominant wind direction:	Northwest to south	west
Site Stability: Will on-site wastewater disposal affect site sta	ability? No	
Is geological advice required?	No	
Drainage/Groundwater:	Not Encountered	
Depth to seasonal groundwater (m):	Not Encountered	
Are surface or sub-surface drains required upslope of the land	application area? Yes	
Date of Site Evaluation:	2012 / 2024	
Weather Conditions:	Fine / rain	

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6/3/2024

### Loading Certificate for Onsite Wastewater System - 92 Lowes Road, Bruny Island

1 System Capacity:

(medium/long term)

2-bedroom residence - 4 persons, 480 litres/day

2 Design Criteria Summary:

Secondary Treated Effluent

Aerated Wastewater Treatment System (AWTS)

Soil Category

Class 6 CLAY / BEDROCK

Land Application System

240m<sup>2</sup> of subsurface irrigation

- 3 Reserve Area:
  - Reserve LAA available if required.
- 4 Variation from design flows etc:
  - The system should successfully assimilate additional peak loadings which may result from occasional social gatherings provided that this does not exceed use by more than 8 persons in a 24-hour period or more than 2 temporary resident visitors (ie. up to 6 persons total) for a period not exceeding 4 days. Visitors should be advised of the requirement to minimise time spent in showers, not running taps whilst cleaning teeth, and other common sense water conservation measures.
- 5 Consequences of overloading the system:
  - Long term use by more than 4 residents or equivalent may result in overloading of the system, surfacing of effluent, public and environmental health nuisances, pollution of surface water etc.
- 6 Consequences of under-loading the system:
  - The system will work effectively with as few as 1-person in the residence, however long periods of zero occupancy may result in poor functioning of the system when normal use recommences. If the building is left unoccupied for more than one month, it is advised to inform the maintenance contractor.
- 7 Consequences of lack of operation, maintenance and monitoring attention:
  - The AWTS and irrigation area will need to be serviced by a registered contractor.

JH0)

Peter Hofto

Rock Solid Geotechnics Pty Ltd

#### CONDITIONS OF INVESTIGATION

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This report contains observations & interpretations based often on limited subsurface evaluation. Where interpretative information or evaluation has been reported, this information has been identified accordingly & is presented based on professional judgement. RSG does not accept responsibility for variations between interpreted conditions & those that may be subsequently revealed by whatever means. Due to the possibility of variation in subsurface conditions & materials, the characteristics of materials can vary between sample & observation sites. RSG takes no responsibility for changed or unexpected variations in ground conditions that may affect any aspect of the project. The classifications in this report are based on samples taken from specific sites. The information is not transferable to different sites, no matter how close (ie. if the development site is moved from the original assessment site an additional assessment will be required).

It is recommended to notify the author should it be revealed that the sub-surface conditions differ from those presented in this report, so additional assessment & advice may be provided.

AS1547-2012:

Onsite Domestic Wastewater Management

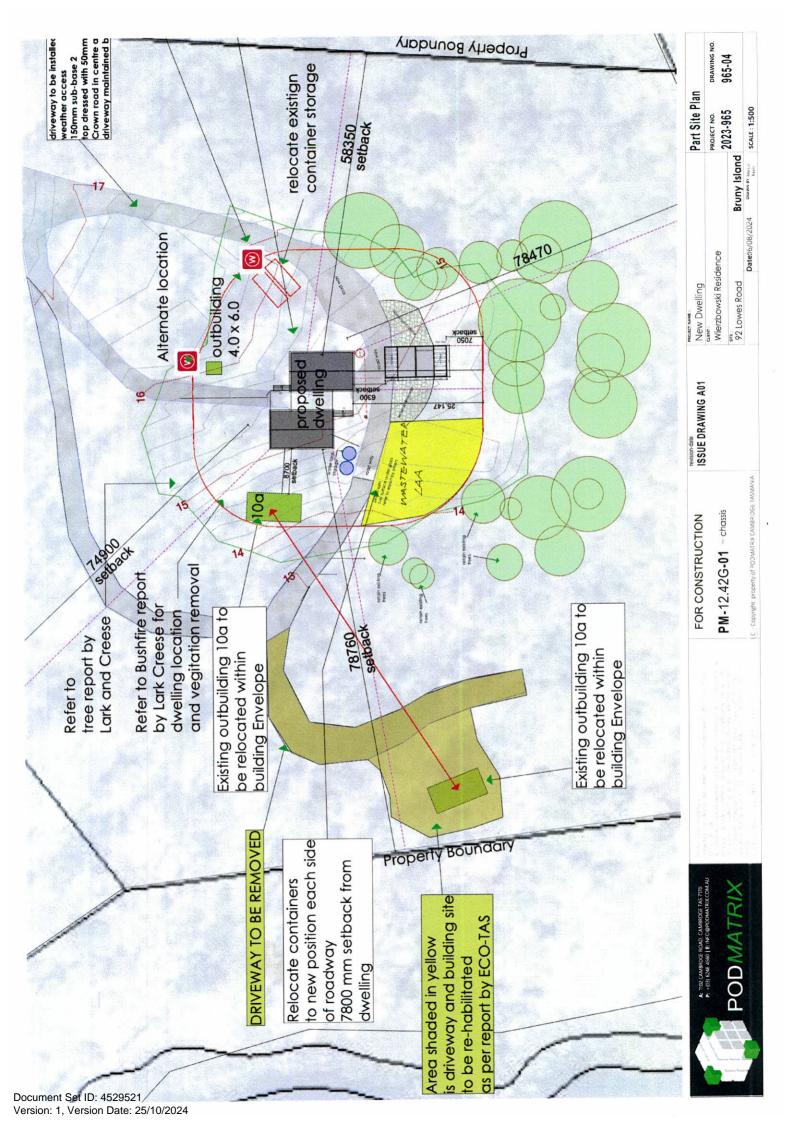
Any assessment that has included an onsite wastewater system design will require a further site visit / inspection once the system has been installed. It is the responsibility of the client / plumber to inform the author as to when the wastewater system is being installed, and to arrange the final inspection. After the inspection to verify that the system has been installed as per RSG's design a statement will be provided. An additional fee applies for the site visit & issuing the certificate.

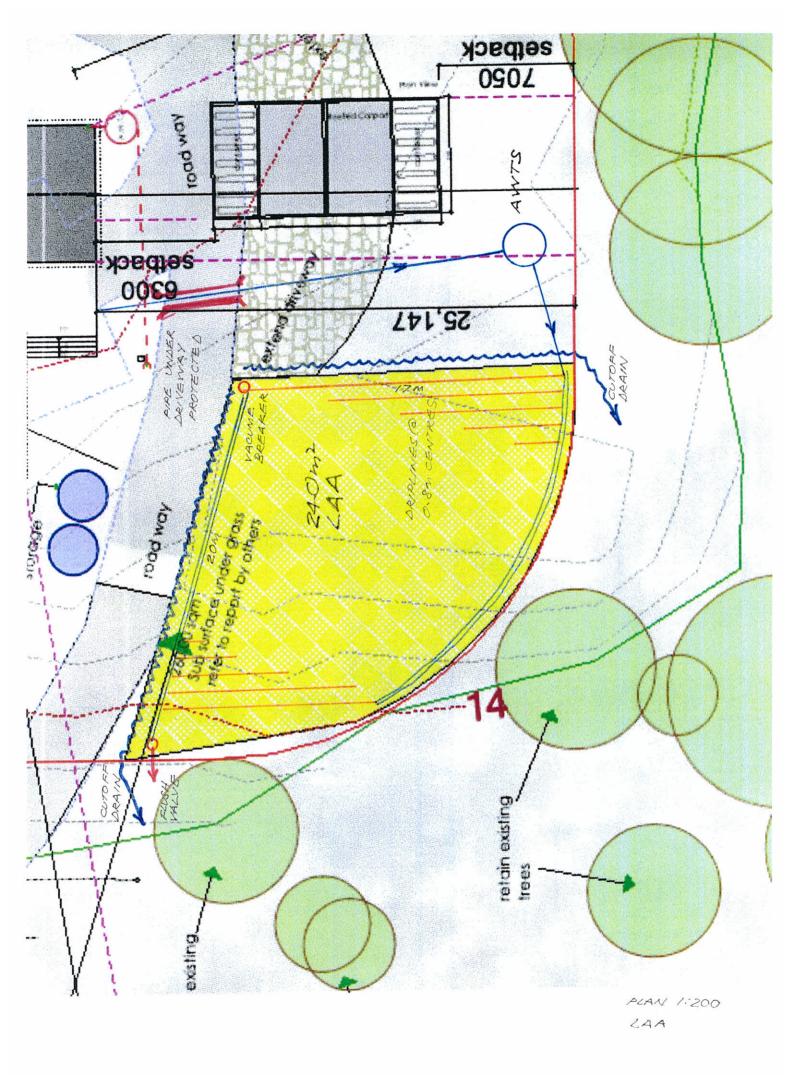
RSG is not responsible for the correct installation of wastewater systems. Any wastewater installation is the sole responsibility of the owner/agent and certified plumber. Any variation to the wastewater design must be approved by RSG, and an amended Special Plumbing Permit obtained from the relevant council. The registered plumber must obtain a copy and carefully follow the details in the council issued Special Plumbing Permit. A "Certificate of Completion" will be based on surface visual inspection only, to verify the location of the system. All underground plumbing works are the responsibility of the certified plumber.

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PETER HOFTO

ROCK SOLID GEOTECHNICS PTY LTD





# **CERTIFICATE OF THE RESPONSIBLE DESIGNER**

Section 94 Section 106 Section 129 Section 155

	Phillip Wiezbov	vski -			Owner name	9	25
	phillipwierzbow	vski@gmail.com			Address		Form $35$
					Suburb/poste	code	
Designer detail	ls:						
Name:	Peter Hofto				Categor		lding Services Designer draulic - Restricted
Business name:	Rock Solid Geo	otechnics P/L			Phone N	No: 041	17960769
Business address:	163 Orielton Ro	pad					
	Orielton			7172	Fax N	lo:	
Licence No:	CC6159I	Email addr	ress: r	oeter@rock	solidgeotechnics	s.com.a	u
Details of the p	roposed wo	rk:					
Owner/Applicant	Phillip Wiezbov	vski			Designer's p		GEOTECH 24-030
Address:	92 Lowes Road	d, Bruny Island			Lot	No:	
Type of work:		Building work			— Plumbing wo	ork X	(X all applicable)
Description of wor	rk:	· ·	ш		· ·		(x all applicable)
							/ sewerage /
Description of the	Design Work	Scope, limitatio	ons or	exclusio	ns): (X all applica	manage backflo	ater / wastewater ement system / w prevention / other)
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Design documents provide		
he following documents are provid	ed with this Certificate –	
ocument description: Drawing numbers:	Prepared by: ROCK SOLID GEOTECHNICS	Date: 11/9/2024
awing numbers. Prepared by, ROCK SOLID GEOTECHNICS		Date. Therear
Schedules:	Prepared by:	Date:
Specifications:	Prepared by: ROCK SOLID GEOTECHNICS	Date: 11/9/2024
Computations:	Prepared by: ROCK SOLID GEOTECHNICS	Date: 11/9/2024
Performance solution proposals:	Prepared by:	Date:
		Data
Test reports:	Prepared by:	Date:
process:		
AS 1547:2021 On-site domestic waste	ewater management	
Director's Guidelines for Onsite Waste	ewater Management	
Director of Galacteria	•	
	4-4:	
Any other relevant docume	entation:	
Attribution as designer:		

## Attribution as designer:

Peter Hofto – ROCK SOLID GEOTECHNICS P/L ...... 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:	Peter Hofto	9401	11/9/2024
Licence No:	CC6159I		

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.  Loonfirm 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:  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, or discharged into, TasWater's sewerage infrastructure  The works will not require a new connection, or a modification to an existing connection, to be made to TasWater infrastructure  The works will not damage or interfere with TasWater's works  The works will not adversely affect TasWater's operations  The works are not within 2m of TasWater's infrastructure and are outside any TasWater easement  The works are not within 2m of TasWater's infrastructure and are outside any TasWater easement  The works are not within 2m of TasWater's water system, a water meter is in place, or has been applied for to TasWater.  Certification:  Limiting the property is connected to TasWater's water system, a water meter is in place, or has been applied for to TasWater.  Certification:  Limiting the property is connected to TasWater's water system, a water meter is in place, or has been applied for to TasWater.  Certification:  Limiting the property is connected to TasWater's water system, a water meter is in place, or has been applied for to TasWater.  Certification:  Limiting the property is connected to TasWater's water system, a water meter is in place, or has been applied for to TasWater and Sewerage Industry Act 2009, that I have answered the above applied for to TasWater CCW  Assessments.  Note: The Guidelines for TasWater Certification of Certifiable Works Assessments are a			Works: (TasWate		
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:  I have 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, or discharged into, TasWater's sewerage infrastructure  The works will not require a new connection, or a modification to an existing connection, to be made to TasWater's infrastructure  The works will not damage or interfere with TasWater's works  The works will not adversely affect TasWater's operations  The works are not within 2m of TasWater's infrastructure and are outside any TasWater easement.  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 applied for to TasWater.  Certification:  IPeter Hofto – ROCK SOLID GEOTECHNICS P/L  being responsible for the proposed work, am satisfied that the works 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.  Neme: (print)  Name: (print)  Name: (print)	Note: single r not considere	esidential dwelling d to increase dem	s and outbuildings or and and are not certif	n a lot with an existing sewe	er connection are
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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	TasWater mus	st then be contacte	ed to determine if the	proposed works are Certifia	ble Works.
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  The works will not require a new connection, or a modification to an existing connection, to be made to TasWater's infrastructure  The works will not damage or interfere with TasWater's works  The works will not adversely affect TasWater's operations  The works are not within 2m of TasWater's infrastructure and are outside any TasWater easement.  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 applied for to TasWater.  Certification:  IPeter Hofto – ROCK SOLID GEOTECHNICS P/L  being responsible for the proposed work, am satisfied that the works 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	confirm that	the proposed work	s are not Certifiable	Norks in accordance with t	
The works will not require a new connection, or a modification to an existing connection, to be made to TasWater's infrastructure  The works will not damage or interfere with TasWater's works  The works will not adversely affect TasWater's operations  The works are not within 2m of TasWater's infrastructure and are outside any TasWater easemen  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 applied for to TasWater.  Certification: Peter Hofto – ROCK SOLID GEOTECHNICS P/L  Design responsible for the proposed work, am satisfied that the works 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)  Peter Hofto  Peter Hofto	X The wor	ks will not increase	the demand for water s	upplied by TasWater	
The works will not damage or interfere with TasWater's works  The works will not adversely affect TasWater's operations  The works are not within 2m of TasWater's infrastructure and are outside any TasWater easement.  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 applied for to TasWater.  Certification: Peter Hofto – ROCK SOLID GEOTECHNICS P/L  Design responsible for the proposed work, am satisfied that the works 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	x The wor or discha	ks will not increase of arged into, TasWate	or decrease the amoun r's sewerage infrastruc	t of sewage or toxins that is to ture	be removed by,
The works will not adversely affect TasWater's operations  The works are not within 2m of TasWater's infrastructure and are outside any TasWater easement.  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 applied for to TasWater.  Certification:	x The work	ks will not require a TasWater's infrastro	new connection, or a mucture	odification to an existing conr	nection, to be
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Designer: Peter Hofto	being responsi Works, as defind questions with Assessments. Note: The Gu	ble for the proposed ned within the Wate all due diligence an idelines for TasWa	d work, am satisfied tha r and Sewerage Indust d have read and under	t the works described above any <i>Act 2008,</i> that I have answestood the Guidelines for TasV	are not Certifiable ered the above Vater CCW
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