

This form is valid until 30 June 2012

Wastewater treatment in unsewered area

Made under Section 68 of the Local Government Act 1993.

OFFICE USE ONLY

Date application received	n Application number Fee		Receipt No.
		\$455 (1-10 people)	
		\$550 (More than 10 people)	
Please note that pay	ment MUST accompany	v this form: 1 − 10 people \$455, Ove	er 10 people \$550
1. Applicant Deta	iils:		
Tu FMr CMrc C	TMe C Miss C Othor		

Title: Mr Mrs Ms Ms Mis	ss 🖸 Other		
Family Name:		Given Name/s:	
Company/Organisation (if applicab	le):		
Postal Address:			
Suburb:			Postcode:
Contact Person (if applicable):			
Email Address:			Mobile:
Home Phone:	Business Phone:		Fax:

2.	In signing this application I declare that I am aware of and acknowledge Council's practice and policy of advertising, exhibiting and making available copies of applications (including plans and other documents) for the purpose of obtaining public comment and I authorise Council to implement such
	policy in respect of this application.

3. <u>Installation Address</u>

Signature(s)

Lot No:	Property No:
Street:	Suburb:
Associated Development Application No:	

296 Pacific Hwy, Hornsby NSW 2077 OR P O Box 37, Hornsby NSW 1630 / DX 9655 Phone: 9847 6853 Fax: 9847 6929 email: hsc@hornsby.nsw.gov.au www.hornsby.nsw.gov.au



This form is valid until 30 June 2012

4. Type of Waster	water Treatment Syste	em (Please tick appr	ropriate box)		
	Septic Tank Pump- Aerated Wastewate Wet / Dry Composti Greywater Treatme Research System /	er Treatment System ing Toilet and Greyw nt System	ater System	Refer to Checkl Refer to Checkl Refer to Checkl Refer to Checkl Refer to Checkl Refer to Checkl Refer to Checkl	ist Two ist Three ist Four ist Five ist Six
Please Note:					
All wastewater generated by the proposed development must be treated and disposed of in an approved onsite sewage management system designed and installed in accordance with both AS 1547 – Onsite Domestic Wastewater Management (2000) and Environment & Health Protection Guidelines – Onsite Sewage Management for Single Households (1998). 5. Additional Information (Please tick appropriate boxes)					
Type of Premises	Fittings to be	Number of	No. of	Tank	Collection
	connected (indicate	Persons to reside	Bedrooms in	Capacity	Wells
Dwelling	how many of each) W.C.	on a regular basis	Dwelling	(litres)	(litres)
Multi Residential	Bath				
Commercial	Laundry				
Industrial	Kitchen Sink				
Other					
Marina	☐ Holding Tank	Number of vessels at facility	Number of Berths Per Vessel	of	

296 Pacific Hwy, Hornsby NSW 2077 OR P O Box 37, Hornsby NSW 1630 / DX 9655 Phone: 9847 6853 Fax: 9847 6929 email: hsc@hornsby.nsw.gov.au www.hornsby.nsw.gov.au



This form is valid until 30 June 2012

6. <u>Details of Installer</u>

Title: Mr Mrs Mrs Ms Miss Other

(for Aerated Wastewater Treatment System, Greywater Treatment System and Composting Systems)

Family Name:		Given Name/s:	
Company/Organisation (if applicab	ole):		
Postal Address:			
Suburb:		Postcode:	
Email Address:		Mobile:	
Home Phone:	Business Phone:	Fax:	
Signature of installer:			
7. Details of Plumber (for all Title: Mr Mrs Mrs Ms Mis	-	Civan Namala	
Family Name:		Given Name/s:	
Company/Organisation (if applicab	ole):		
Licence Number:			
Postal Address:			
Suburb:		Postcode:	
Email Address:		Mobile:	
Home Phone:	Business Phone:	Fax:	

8. Consent of all owners

Note: In the case of Crown land within the meaning of the *Crown Lands Act 1989*, the owner's consent must be signed by an officer of the Department of Natural Resources, authorised for these purposes by the Governor-in-Council, from time to time.

As the owner(s) of the above property, I/we consent to this application and I/we hereby consent to Council's officers entering the above property for the purpose of carrying out inspections for this application.

Please complete signature block on next page to give consent.



Owner 1

Title: Mr Mrs Ms Ms	Miss C Other			
Family Name:		Given Name/s:		
Company/Organisation (if applic	cable):	•		
Postal Address:				
Suburb:			Postcode:	
Email Address:			Mobile:	
Home Phone:	Business Phone:		Fax:	
Signature of Owner 1			Date:	
Owner 2				
Title: Mr Mrs Ms Ms	Miss C Other			
Family Name:		Given Name/s:		
Company/Organisation (if applic	eable):			
Postal Address:				
Suburb:			Postcode:	
Email Address:			Mobile:	
Home Phone:	none: Business Phone:		Fax:	
Signature of Owner 2		Date:		
Payment may be made by che complete the details below. Credit Card Payments	que, money order or	credit card. If you	wish to pay by credit card, please	
Full Name on Card:				
Cardholders Address:				
Card Type: Mastercard	C Visa			
Credit Card Number:				
Expiry Date:		Amount: \$		
Signature:				

Hornsby Shire Council

296 Pacific Hwy, Hornsby NSW 2077 OR P O Box 37, Hornsby NSW 1630 / DX 9655 Phone: 9847 6853 Fax: 9847 6929 email: hsc@hornsby.nsw.gov.au www.hornsby.nsw.gov.au



Checklist 1 - Have I Supplied the Required Information for Trenches?

Septic Tank - Absorption Trench Disposal System

When lodging your application, the following information must be supplied **in triplicate** in order for Council to assess your application.

- 1. Manufacturer's plans and specifications indicating tank dimensions, capacity and brand; plus the licensed plumber's name, address, phone number and licence number.
- 2. An accurately drawn, detailed site plan drawn to **scale** and showing:
 - a. The position of the house, including aspect.
 - b. Floor plans for the dwelling showing all bedrooms, study, rumpus room, etc.
 - c. The sanitary fittings of the house (including toilet(s), bathroom(s), kitchen and laundry wastewater disposal points), internal and external drainage lines leading from the dwelling to the wastewater tank(s).
 - d. The position of the wastewater tank(s), ensuring at least 1.5m distance between tank/s and dwelling, property boundaries, driveways and any impervious surfaces.
 - e. Location of property boundaries, watercourses, easements, bushland, recreation areas, etc.(Point 5, Page 6)
 - f. A contour plan of the disposal area indicating trench position and dimensions. Note that the trench must be constructed parallel to the natural contours of the land. Trench location must also comply with the following setbacks:
 - 12 metres if up-slope and 6 metres if down-slope of property boundary
 - 6 metres if up-slope and 3 metres if down-slope of swimming pools, driveways and buildings
 - 100 metres from permanent surface waters (e.g. rivers, streams, lakes, etc)
 - 250 metres to domestic groundwater wells
 - 40 metres to other waters (e.g. farm dams, intermittent waterways and drainage channels, etc)
 - 20 metres to natural bushland
- 3. Provide details on topography, soil type, soil composition and vegetation within the intended disposal area (this includes presence of rocky outcrops, slope, potential drainage problems, etc).
- 4. Position of all roof, surface and subsoil drainage pipelines to their points of discharge.



This form is valid until 30 June 2012

Calculation to Determine Absorption Trench Length

Calculations for the required length of absorption trenches are to be made in accordance with the Australian Standard *AS1547(2000) - Disposal Systems for Effluent from Domestic Premises.* The following table contains a **guide** for trench length for wastewater disposal by sub-soil absorption.

LENGTH OF ABSORPTION TRENCH (METRES) FOR WASTEWATER DISPOSAL BY SUB-SOIL ABSORPTION

NUMBER OF	SOIL TYPE			
BEDROOMS	SAND	CLAY		
2	15m	25m	32m	83m
3	26m	37.5m	47m	125m
4	30.5m	50m	63m	166m
5	38m	62.5m	79m	208m

Please Note:

- 1. Failure to supply the above information may result in processing delays.
- 2. Council requires that all wastewater applications are prepared in accordance with recommendations in Environment & Health Protection Guidelines Onsite Sewage Management for Single Households, and Australian Standard 1547(2000) Disposal Systems for Effluent from Domestic Premises.
- 3. The length referred to is in accordance with standard dimensions outlined in AS 1547(2000) Disposal systems for effluent from domestic premise, and is only intended as a guide.
- 4. Due to low permeability, trenches are not suited to clay soils.
- 5. The position of the trenches relative to the wastewater tanks may result in the installation of a pump and secondary tank.
- 6. Should you require information on tank sizes, contact the Environmental Sustainability and Health Team on 9847 6829.

Page 6 of 15



Checklist 2 - Have I Supplied the Required Information for Pump-out?

Septic Tank Pump-out Service System

When lodging your application, the following information must be supplied **in triplicate** in order for Council to assess your application.

- 1. Manufacturer's plans and specifications indicating septic tank and collection well(s) dimensions and capacities, plus the licensed plumber's name, address, phone number and licence number.
- 2. An accurately drawn, detailed site plan drawn to scale and showing:
 - a. The position of the house.
 - b. Floor plans for the dwelling showing all bedrooms, study, rumpus room, etc.
 - c. The sanitary fittings of the house (including toilet(s), bathroom(s), kitchen and laundry wastewater disposal points) with internal and external drainage to wastewater tanks marked.
 - d. The position of the tanks, the draw-off pipe and the suction outlet at street level. Note that tanks must be located a minimum of 1.5m from the dwelling, driveway or any impervious surfaces.
 - e. The position of the tanker standing area located a minimum of 3 metres from the centre line of the road.
 - f. A contour plan from dwelling to draw-off pipe.

Please Note:

- 1. Failure to supply the above information may result in processing delays.
- 2. Delays in approval may occur if Council's Waste Management Team needs to assess the availability of adequate access and manoeuvrability of sullage tankers.
- 3. If the holding well is installed in a position lower than the pipe outlet, a pump must be installed. This pump must be capable of delivering a flow rate of 364 L / min at the outlet.
- 4. If the holding well is installed in a position higher than the pipe outlet, a gate valve must be installed at the draw off pipe.
- 5. Councils Waste Management Team can be contacted on 9847 4856 for information on the approximate yearly cost of pump-out.



- This form is valid until 30 June 2012
- 6. In situations where the placement of the pump-out pipe is through another property, an easement must be created. This may require assistance from solicitors, and must adhere to Council's "Terms of Easement" conditions.
- 7. To determine the optimum capacity for both septic tanks and holding wells, contact the Environmental Sustainability & Health Team on 9847-6829.
- 8. Council requires that all wastewater applications are prepared in accordance with recommendations in Environment & Health Protection Guidelines Onsite Sewage Management for Single Households, and Australian Standard 1547(2000) Disposal Systems for Effluent from Domestic Premises.



This form is valid until 30 June 2012

Checklist 3 - Have I Supplied the Required Information for an AWTS?

Domestic Sewage Treatment Plant (Aerated Waste Water Treatment System)

When lodging your application, the following information must be supplied in triplicate in order for Council to assess your application.

- Manufacturer's plans and specifications indicating tank dimensions and capacity, plus the licensed plumber's 1. name, address, phone number and licence number.
- 2. An accurately drawn, detailed site plan drawn to scale and showing:
 - the position of the house, including aspect
 - floor plans for the dwelling showing all bedrooms, study, rumpus room, etc
 - the sanitary fittings of the house (including toilet(s), bathroom(s), kitchen and laundry wastewater disposal points) with internal and external drainage to wastewater tank(s) marked
 - the position of the treatment tank(s), ensuring at least 1.5m distance between tank/s and dwelling, property boundaries, driveways and any impervious services
 - position of roof, surface and subsoil drainage pipelines to their point(s) of discharge

A contour plan of the irrigation area (note that this area shall include a duplicate irrigation area and be distinct and separate from playing areas, swimming pool yards, fruit and vegetable gardens). The following setbacks must be adhered to for spray irrigation:

- 6 metres if area up-slope and 3 metres if area down-slope of driveways and property boundary
- 15 metres to dwellings or any other building
- 3 metres to paths and walkways
- 6 metres from swimming pools
- 100 metres to permanent surface waters (e.g. rivers, streams, lakes, etc) 0
- 250 metres to domestic groundwater well
- 40 metres to other waters (e.g. farm dams, intermittent waterway, drainage channels, etc)
- 20 metres from natural bushland

For surface drip and trickle, or sub-surface irrigation systems, the following setbacks must be adhered to:

6 metres if area up-slope and 3 metres if area down-slope of swimming pools, property boundaries, driveways and buildings

Page 9 of 15



This form is valid until 30 June 2012

- 3. Details on topography, soil composition and vegetation within the intended disposal area (this includes presence of rocky outcrops, slope, areas of poor drainage, etc).
- 4. Position of any environmentally sensitive areas (including native bushland, watercourses, intermittent waterways, Environmental Protection Zone B, etc).

Please Note:

- 1. Failure to supply the above information may result in processing delays.
- 2. Council requires that all wastewater applications are prepared in accordance with recommendations in Environment & Health Protection Guidelines Onsite Sewage Management for Single Households, and Australian Standard 1547(2000) Disposal Systems for Effluent from Domestic Premises.
- 3. Council will assess the application for the above system, and may require a **site capability and system design report** to be undertaken if:
 - o the intended irrigation area is located within the prescribed buffer distances
 - o fill is located in the intended irrigation area
 - o the site is located in an environmentally sensitive area (i.e. Environmental Protection Zone B)
 - o the only available area for irrigation is also to be used as a recreational area
 - o any major site limitations are present that will impact on the absorption of wastewater or uptake of nutrients
 - the system is not the most suitable for the site

The following table outlines approximate areas required for disposal fields. These figures are to be used as guides only.

NUMBER OF		SOIL TYPE			
BEDROOMS	SAND	SAND LOAM (CLAY	
2	120m	210m	280m	770m	
3	180m	315m	420m	1150m	
4	240m	420m	560m	1530m	
5	300m	525m	700m	1910m	

Installation of AWTS

- 1. Irrigation lines must be buried at a depth of 100 mm below finished ground level (in accordance with AS 1547:2000).
- 2. The irrigation area cannot be used for growing fruit, vegetables or other consumable products. The irrigation area cannot be used as a recreation area and must not support animal, vehicle or pedestrian traffic.

Hornsby Shire Council

www.hornsby.nsw.gov.au

296 Pacific Hwy, Hornsby NSW 2077 OR P O Box 37, Hornsby NSW 1630 / DX 9655 Phone: 9847 6853 Fax: 9847 6929 email: hsc@hornsby.nsw.gov.au



This form is valid until 30 June 2012

- 3. Sprinklers must have a maximum throw of two metres, and the plume must be no greater than 400mm from the finished ground surface.
- 4. Sprinklers are to be installed approximately one every 20m2 (subject to site specific conditions) and operational at all times.
- 5. Irrigation must occur only in designated effluent disposal areas.



Checklist 4 – Have I supplied the required information for Composting

Composting Toilet

Toilets?

When lodging your application, the following information must be supplied **in triplicate** in order for Council to assess your application.

- 1. Manufacturer's plans and specifications indicating tank/s dimensions and capacity, plus the licensed plumber's name, address, phone number and licence number.
- 2. An accurately drawn, detailed site plan drawn to scale and showing:
 - a. The position of the house, including aspect.
 - b. Floor plans for the dwelling showing all bedrooms, study, rumpus room, etc.
 - c. The sanitary fittings of the house (including toilet(s), bathroom(s), kitchen and laundry wastewater disposal points) with internal and external drainage to wastewater tank(s) marked.
 - d. The position of the composting unit.
 - e. The position of the greywater tank(s), ensuring at least 1.5m distance between tank and dwelling, property boundaries, driveways and any impervious surfaces.
 - f. Property boundaries and a brief description of adjoining and adjacent land uses (e.g. dwellings, native bushland, recreation areas, watercourses including drainage easements, creeks, dams, etc).
 - g. The position of the intended grey water disposal area.
 - h. Position of roof, surface and subsoil drainage pipelines to their point(s) of discharge.
 - i. Position of any environmentally sensitive areas (including native bushland, watercourses, intermittent waterways, Environmental Protection Zone B, etc).
 - j. Available area for burial of composted material produced in composting unit.

Please Note:

- 1. Failure to supply the above information may result in processing delays.
- Council requires that all wastewater applications are prepared in accordance with recommendations in Environment & Health Protection Guidelines - Onsite Sewage Management for Single Households, and Australian Standard 1547:2000 - Disposal Systems for Effluent from Domestic Premises.

Hornsby Shire Council

296 Pacific Hwy, Hornsby NSW 2077 OR P O Box 37, Hornsby NSW 1630 / DX 9655 Phone: 9847 6853 Fax: 9847 6929 email: hsc@hornsby.nsw.gov.au www.hornsby.nsw.gov.au



Checklist 5 - Have I Supplied the Required Information for the installation of a Greywater Treatment System?

Greywater Treatment System

When lodging your application, the following information must be supplied **in triplicate** in order for Council to assess your application.

- 1. Manufacturer's plans and specifications indicating tank/s dimensions and capacity, plus the licensed plumber's name, address, phone number and licence number.
- 2. An accurately drawn, detailed site plan drawn to scale and showing:
 - a. The position of the house, including aspect.
 - b. Floor plans for the dwelling showing all bedrooms, study, rumpus room, etc.
 - c. The sanitary fittings of the house (including toilet(s), bathroom(s), kitchen and laundry wastewater disposal points) with internal and external drainage to wastewater tank(s) and/or sewer marked.
 - d. The position of the greywater tank(s), ensuring at least 1.5m distance between tank and dwelling, property boundaries, driveways and any impervious surfaces.
 - e. The intended disposal method of treated greywater, including details, plans and specifications of the reuse of the greywater.
 - f. Property boundaries and a brief description of adjoining and adjacent land uses (e.g. dwellings, native bushland, recreation areas, watercourses including drainage easements, creeks, dams, etc).
 - g. Position of roof, surface and subsoil drainage pipelines to their point(s) of discharge.
 - h. Position of any environmentally sensitive areas (including native bushland, watercourses, intermittent waterways, Environmental Protection Zone B, etc).

Please Note:

- 1. Failure to supply the above information may result in processing delays.
- 2. Council requires that all wastewater applications are prepared in accordance with recommendations in Environment & Health Protection Guidelines Onsite Sewage Management for Single Households, and Australian Standard 1547:2000 Disposal Systems for Effluent from Domestic Premises.



- 3. Council will assess the application for the above system, and may require a site capability and system design report to be undertaken if:
 - a. The intended irrigation area is located within the prescribed buffer distances.
 - b. Fill is located in the intended irrigation area.
 - c. The site is located in an environmentally sensitive area (i.e. Environmental Protection Zone B).
 - d. The only available area for irrigation is also to be used as a recreational area.
 - e. If any major site limitations are present that will impact on the absorption of wastewater or uptake of nutrients.
 - f. The system is not the most suitable for the site.

Checklist 6 - Have I Supplied the Required Information for the installation of a Research / Alternative System?

Research or alternative systems for onsite sewage management need to be assessed on an individual basis. This type of system will usually require an accompanying site capability and system design report, prepared by a suitably qualified wastewater consultant. Ongoing maintenance, as a condition of approval, will involve regular monitoring of effluent quality AFTER treatment has occurred. It is advisable that applicants contact the Environmental Sustainability & Health Team on 9847 6829 before submitting an application to determine the level of detail required in the eventual submission.



Checklist 7 - Have I Supplied the Required Information for an Onshore Vessel Sullage Water Pump-out System?

Onshore Vessel Sullage Water Pump Out System

When lodging your application, the following information must be supplied **in triplicate** in order for Council to assess your application.

- 1. Manufacturer's plans and specifications indicating septic tank and collection well(s) dimensions and capacities, plus the licensed plumber's name, address, phone number and licence number.
- 2. An accurately drawn, detailed site plan drawn to scale and showing:
 - a. The position of the tanks, the draw-off pipe and the suction outlet at street level. Note that tanks must be located a minimum of 1.5m from any building, driveway or any impervious surfaces.
 - b. A contour plan from tanks to draw-off pipe.
- 3. Water use details utilised in the sizing of the system, including volume of fresh and salt water used in vessels within the past twelve months and forecasted water usage.
- 4. Details of fixtures and fittings associated with the transfer line, including material type, couplings and pump capacity.
- 5. Details of oil/water separators to be place in series with the pump out system, including capacity and maintenance schedule.

Please note:

- 1. Failure to supply the above information may result in processing delays.
- 2. Council requires that all wastewater applications are prepared in accordance with recommendations in Australian Standard 1547(2000) Disposal Systems for Effluent from Domestic Premises, Australian Standard 3542 Pleasure boats Toilet waste collection, holding and transfer systems, and Septic Tank and Collection Well Accreditation Guideline (NSW Health, 1998).
- 3. If holding well is installed in a position lower than the pipe outlet, a pump must be installed. This pump must be capable of delivering a flow rate of 364 L / min at the outlet.
- 4. If the holding well is installed in a position higher than the pipe outlet, a lockable gate valve must be installed at the draw off pipe.
- In situations where placement of the pump-out pipe is through another property, an easement must be created. This may require assistance from solicitors and must adhere to Council's "Terms of Easement" conditions.

Hornsby Shire Council

296 Pacific Hwy, Hornsby NSW 2077 OR P O Box 37, Hornsby NSW 1630 / DX 9655 Phone: 9847 6853 Fax: 9847 6929 email: hsc@hornsby.nsw.gov.au www.hornsby.nsw.gov.au