







13.1

Stages of Data Collection Desktop study Site and soil check (SSC) Soil description and profile assessment Calculations Collection of additional data Identify site and soil opportunities and constraints Selection of appropriate system (WTU and LAA) Identification of appropriate risk management or mitigation measures

sourcesProvides an overview of opportunities and constraints

- Determines what information is relevant
- Identifies if information gaps exist and what additional information is required

Desktop Study

· Collects preliminary data from readily available

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Site and Soil Characteristics

- AS/NZS 1547:2012 (Appendices B-D) provides a guide to the range of Site and soil characteristics that should be considered in on-site wastewater investigations
- Other matters may also warrant consideration based on site-specific information:
 - planning or sensitivity overlays
 - utility / infrastructure plans
 - legal instruments (e.g. easements)
 - local OWM performance issues

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Sensitive Receptors



Land Information System Tasmania (LIST) https://maps.thelist.tas.gov.au/listmap/app/list/map

- Acid Sulfate Soils
- · Wetlands and Marine Reserves
- · Hydrology and hydrography
- Priority Aquaculture Areas
- Endangered Ecological Communities (EEC)
- · Threatened Species



- · Tabulate data
- Assessment or rating Level of 'constraint' or 'limitation' for OWM
- · Design on most limiting feature/s,
- Engineer out limiting features, or
- · Provide mitigation to address limitation

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 Appropriate buffer selection based on TAS OWMS Guideline (2016) and procedures in AS/NZS 1547:2012

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TAS OWMS Guideline (2016) Buffers

- Buildings 3m (upslope) / 6m (downslope)
- Surface Waters 100m
- Property Boundary 40m or 2m (upslope) / 2m per degree (downslope)
- Water Supply bore/well 50m and NOT within zone of influence
- Vertical Separation:
 - Groundwater 1.5m (primary) / 0.6m (secondary)
 - Limiting layer 1.5m (primary) / 0.5m (secondary)

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AS/NZS 1547:2012 Buffers

Site feature	Betheck distance range (m) (See Note 1)	Site constraint items of specific concern (from Table-R2) (see Note 1)
	Horizontal aethack distance (n)	
Property boundary	1.5 - 00 (see Note 2)	A, 0, J
Buildings/houses	$2.0 \rightarrow 0 \ (ma \ Note \ 2)$	A.D.J
Surface water (son hims 4)	16 - 100	A, 0, 0, 8, 7, 6, J
Bore, well (see Notes 5 and 6)	15 - 90	A.C.H.J
Recreational areas (Chibdren's play areas, eximming pools and so or) (see Nato 7)	2 = 15 (see Notes II and II)	A, E, J
In-ground water tank	4 - 15 (kee Note 12)	A, E, J
Retaining wall and Endowdynamic, excerpments, outlings (see Note 11)	0.0 = or 40° angle from toe of well (articheser in greater)	$D_{i} \; \Omega_{i} =$
	Vertical aethook distance (r)	
Groundwater (see Notes 5, 6, and 10)	$0.8 \rightarrow 1.8$	ACCUL
Hardpan or bedrock	0.5 - 2 1.5	A, C, J
NOTE: 1 The normal selfacts distance are to the high and of the con- outer and thereare distances or larger to the selfact and the other to the selfact and the other to the selfact and the other of the selfact and and other of the selfact and other ot	should be exercised with the load exercise without determine should not exercise and, the second advances invol- ing sensitive leadures in fails (12) and how north. and design by a subhility question from an align boundary, for shipse greater than (1)	of risk to public health and the splind often scholarber healters to based on an exclusion of the searcher action provide a pethod performed person, the separation 5, may be reduced to 5.0 m.

Into the Field We Go..... Desktop Study – the study will have identified potentially suitable effluent management areas (EMAs) from available information sources. A preliminary constraints map will also identify:

- Appropriate setback areas from natural or built features (existing and proposed)
- · Identified physical constraints (e.g. bedrock, fill)
- Data gaps (areas for investigation)
- Regional soil landscapes (including boundaries)
- Recommended soil (test pit) locationsIndicative groundwater depth

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