H. Coragulac Locality Report

1h. Introduction

Coragulac is a rural locality located approximately 13km northwest of Colac, in close proximity to the Cororooke and Alvie localities within the Red Rock region. The landform features undulating agricultural land on the Western Volcanic Plains.

There are approximately 201 and 69 unsewered properties/parcels located within the Coragulac locality and town, respectively, with 38 DWM system permits that have been inspected to date by COS. The current DWM permits and their associated treatment system and LAA method within the Coragulac locality are summarised as follows:

- 6 AWTS (3 subsurface irrigation and 3 drip irrigation);
- 1 sand filter (1 trench);
- 20 septic tanks (4 trenches and 16 unknown); and
- 11 unknown (2 trenches and 9 unknown).

No field investigations were conducted within the Coragulac locality as part of the 2014 field assessments.

2h. Background Documentation

Refer to the following documents for additional detail regarding the locality:

- Red Rock Region Community Infrastructure Plan (September, 2013);
- COS Planning Scheme; and
- Rural Living Strategy (2011).

3h. Summary of Constraints to DWM

Characteristic	Description
Climate Zone	Zone 2.
Surface waterways & catchments	Minimal surface waterways, with only Lake Coragulac and Lake Purdiguluc along the north-western locality border. Not located within a DWSC.
Groundwater	Proximity to groundwater bores: distributed throughout the locality, similar to Cororooke.
Land subject to inundation	Minimal; small amount to the west.
Useable lot area	High: 26 (41)
Town (Locality)	Moderate: 16 (33)
	Low: 27 (125)
	Compliant: 0 (2)

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Characteristic	Description					
Minimum lot size compliance with	The locality is predominantly zoned Farming Zone, with the town zoned Township Zone and Low Density Residential Zone.					
Planning Scheme Zoning	Compliancy is variable throughout the locality, with the rural properties/parcels surrounding the town generally non-compliant.					
	Compliant: 60 (73)					
	Non-compliant: 9 (128)					
Slope	High: 0 (1)					
Town (Locality)	Moderate: 0 (2)					
	Low: 69 (198)					
Geology	Underlain by the Newer Volcanic Group with unnamed phreatomagmatic (tuff ring) deposits in the west (including the town) and unnamed stony rises and hummocky lava flows in the east.					
Soil suitability	High: 0 (0)					
Town (Locality)	Moderate: 69 (201)					
	Low: 0 (0)					
	The locality consists of soil landscape units '123' and '114' which form on gently undulating plains and stony rises of the Volcanic Western Plains. Soil type changes significantly with landform, but generally consists of moderately to strongly structured, friable clay loam over strongly structured medium clay to less than 1.5m depth. Limitations include restricted drainage.					
Sensitivity	Depth to Groundwater Compliance: all compliant.					
Overlay	Landslip: Nil.					
	Vegetation: locality borders Lake Coragulac to the northwest.					
Sensitivity	Very High: 0 (0)					
Analysis Rating	High: 0 (0)					
Town (Locality)	Moderate: 42 (77)					
	Low: 27 (124)					

4h. Sensitivity Analysis (Maps)

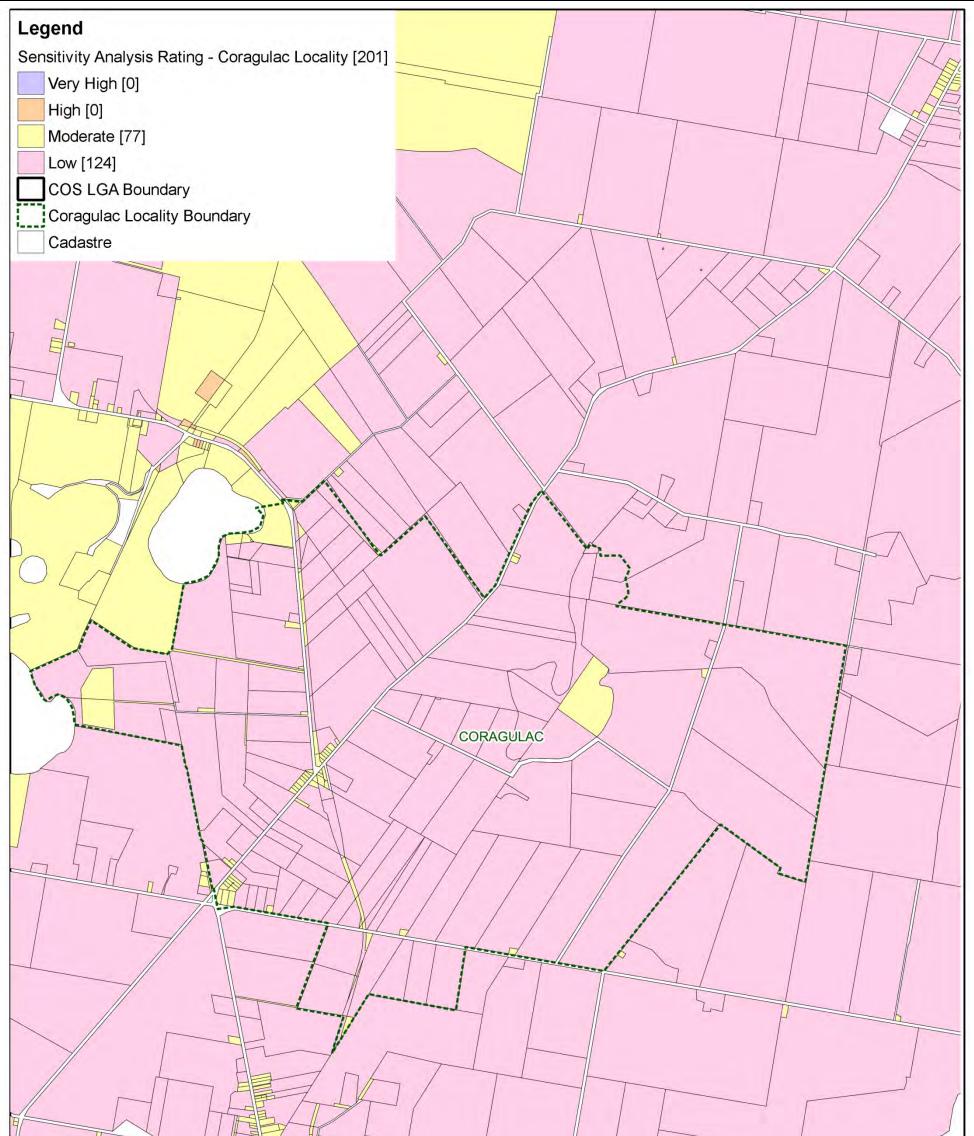


Figure h1: Sensitivity Analysis -	Coragula	ac Locali	ty					N
Colac Otway Shire DWMP Review			1					
W/hitshaad & Associates	0	500	1000	1500	2000	2500 m	Revision	3
W Whitehead & Associates Environmental Consultants				_			Drawn	JK
	(Approx	x Scale)					Approved	MS

Whitehead and Associates Environmental Consultants

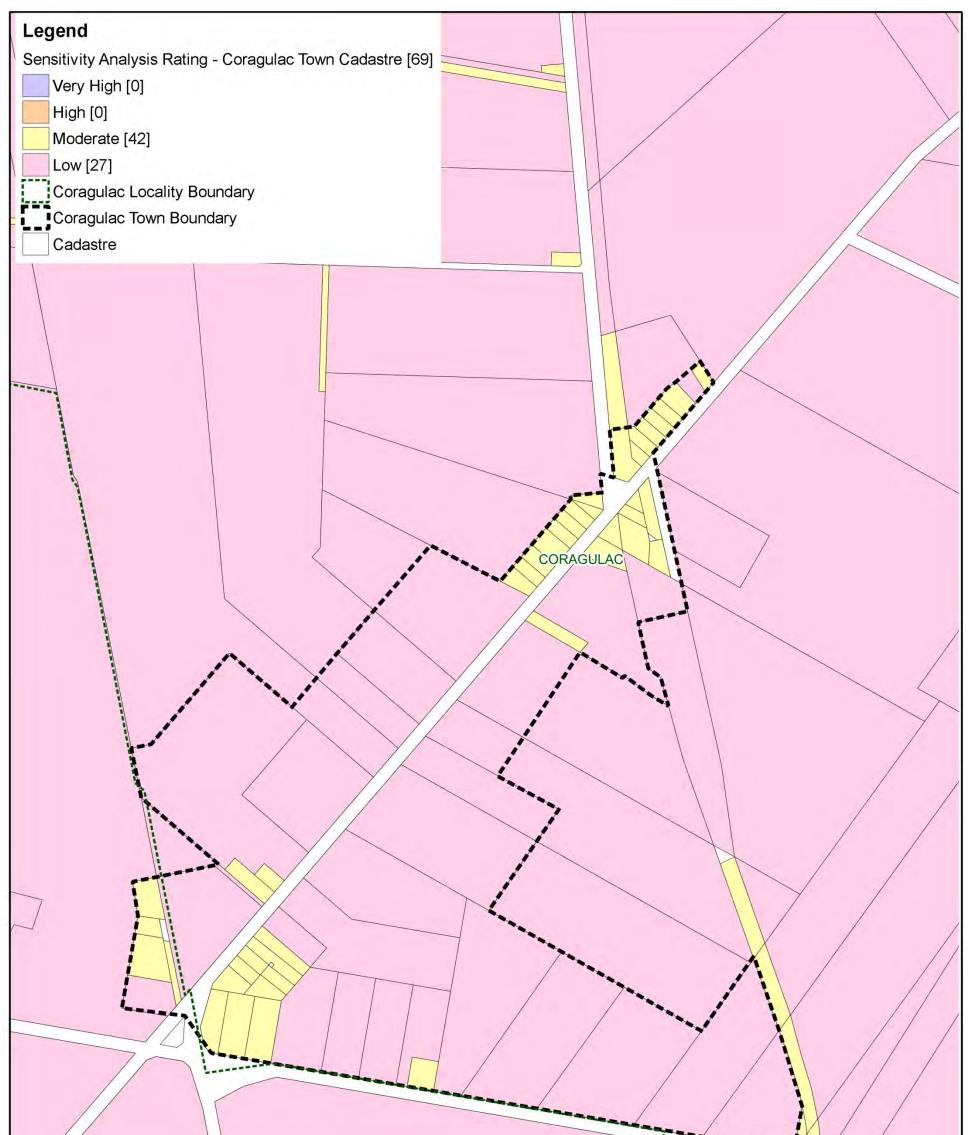


Figure h2: Sensitivity Analysi	s - Cora	agulac Tow	n					N
Colac Otway Shire DWMP Review								
Whitehead & Associates	0	150	300	450	600	750 m	Revision	3
W Whitehead & Associates Environmental Consultants							Drawn	JK
	(Approx S	scale)					Approved	MS

Whitehead and Associates Environmental Consultants

5h. System Selection

Due to the dominance of heavy-textured soils in the Coragulac locality, conventional absorption trenches and beds are not likely to be feasible and are discouraged. Appendix A of the EPA Code of Practice (2013) prohibits LPED systems on Category 5 and 6 soils (medium to heavy clays). The System Sizing Tables (below) indicate which systems are likely to be the most appropriate for the locality.

6h. System Sizing Tables

Sizing Tables for each system type were created using conservative monthly water balances, following methods described in the MAV Model LCA, 2014. The water balances used monthly 70th percentile rainfall and average evapotranspiration data for a single geographic point between Coragulac and Cororooke, due to their proximity. The climate data was sourced from SILO (Scientific Information for Land Owners) climate databases, which are managed by the Queensland Government. The SILO databases use accurate meteorological data collected throughout Australia over long time periods.

The Design Loading Rates (DLRs) and Design Irrigation Rates (DIRs) were taken from the current EPA Code of Practice. Where the Code of Practice has precluded use of a particular type of system on a certain soil type, it is shown as 'Not Applicable' for that soil type in the Sizing Tables. Where the evapotranspiration deficit requires unrealistically large land application areas for a particular system on a certain soil type, it is also shown as 'Not Applicable' for that soil type in the Sizing Tables. Detailed, site-specific LCAs and system designs would be required to further investigate the feasibility of systems deemed 'Not Applicable' in the sizing tables. Mitigation measures (such as importation of topsoil to appropriate depths in the land application area), may be required to sustainably achieve land application of effluent on constrained properties/parcels.

Sizing Tables for the Coragulac locality are provided below.

7h. General Conclusion

The properties/parcels within Coragulac have been assigned a Moderate or Low Sensitivity Rating to sustainable DWM. Both Standard and Council LCAs will be required, with the use of System Sizing Tables deemed appropriate. The constraints within Coragulac are guite low in comparison to other localities, with particular attention directed towards ensuring that the quality of the groundwater resources is maintained and the correct decommissioning of groundwater bores occurs where necessary.

			Drip and Spray Irri	gation Systems* - S	econdary Treated E	ffluent only			
	Soil Category	Gravels & Sands	Sandy Loams (2)	Loams (3)	Clay Loams (4)	Light Clays (5)	Medium to Heavy		
		(1)					Clays (6)		
	DIR (mm)	5	5	4	3.5	3	2	-	
Development Type	Daily (L/day)	-				m ²) not including spa			
5 + bedroom residence	1,080	28		390	476	610	1,397	-	
4 bedroom residence	900	23		325	396	508	1,164	-	
1-3 bedroom residence	720	19	91	260	317	407	932		
lote: * irrigation system size	a are based on the ar	umption that the long	application area is	loss than 10% clone	Poductions in DIP on	 	0% according to Tab	0 M2 of AS1547:201	2
iole. Ingalion system size			application area is		Reductions in DIR ap	phy for slopes above		IE IVIZ UI AS 1547.20	2
		Convent	ional Absorption T	renches and Beds -	Primary or Seconda	ary Treated Effluent			
					Weak Loams &				
	Soil Category	Gravels & Sands (1)	Sandy Loams (2)	Loams (3)	High/Mod Clay Loams (3 & 4)	Weak Clay Loams (4)	Massive Clay Loams (4)	Light Clays (5)	Medium to Heav Clays (6)
	DLR (mm)								
Development Type	Daily (L/day)	4		_					
5 + bedroom residence	1,080	4		Not suppo	rted (Alternative Lar	nd Application System	n Required)		
4 bedroom residence	900	4							
1-3 bedroom residence	720								
Fuer	otrononization Aboo	untion Trouches and	Dede Drimery er	Coccurden / Trooted	Effluent (Cotomore)	1 to 5) and Casandar	Treated Effluent a	nh (Cotomore C)	
⊏vap	otranspiration-Absor	rption Trenches and	Beus - Primary or	Secondary Treated	Endent (Category	1 to 5) and Secondar			
	Soil Category	Gravels & Sands (1)	Sandy Loams (2)	Loams (3a)	Weak/Massive Loams (3b)	High/Mod Clay Loams (4a)	Weak Clay Loams (4b) & Strong Light Clays (5a)	Massive Clay Loams (4c) and Mod & Weak Light Clays (5b, 5c)	Medium to Heav Clays (6) - Secondary Effluent Only
	DLR (mm)	20*	20*	15	10	12	8	5	5
Development Type	Daily (L/day)		Total min. basal or			ther offly and stars a	(m^2) not including (•
			i olai mini basai ol	wetted area requi	rea for zero wet wea	ather effluent storage	; (m)) not including a	spacing & setbacks	
5 + bedroom residence	1,080	5	9	80	127	103	165)5
5 + bedroom residence 4 bedroom residence				· · ·				r	
4 bedroom residence 1-3 bedroom residence	1,080 900 720	4	9 9 9	80 67 54	127 106 85	103 86 69	165 138 110	30 25 20	54)3
4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s	1,080 900 720 sandy loams are unsui	4 3 table for conventional	9 9 9	80 67 54	127 106 85	103 86 69	165 138 110	30 25 20	54)3
4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s	1,080 900 720 sandy loams are unsui	4 3 table for conventional	9 9 9	80 67 54	127 106 85	103 86 69	165 138 110	30 25 20	54)3
4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s	1,080 900 720 sandy loams are unsui	4 3 table for conventional	9 9 9 absorption trenches	80 67 54 and beds if there is a	127 106 85 a high watertable, incl	103 86 69 uding seasonal and pe	165 138 110	30 25 20	54)3
4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s	1,080 900 720 sandy loams are unsui ategory 2b and 3a soi	4 3 table for conventional ls in AS1547:2012	9 9 absorption trenches LPED Irrigation \$	80 67 54 and beds if there is a Systems - Primary o	127 106 85 a high watertable, incl r Secondary Treated	103 86 69 uding seasonal and pe	165 138 110 rched watertables. Va	30 25 20	54)3
4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s	1,080 900 720 sandy loams are unsui	4 3 table for conventional	9 9 9 absorption trenches	80 67 54 and beds if there is a Systems - Primary o Loams (3)	127 106 85 a high watertable, incl	103 86 69 uding seasonal and pe	165 138 110	30 25 20	54)3
4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s	1,080 900 720 sandy loams are unsui ategory 2b and 3a soi	4 3 table for conventional ls in AS1547:2012 Gravels & Sands (1)	9 9 absorption trenches LPED Irrigation \$	80 67 54 and beds if there is a Systems - Primary o	127 106 85 a high watertable, incl r Secondary Treated	103 86 69 uding seasonal and pe	165 138 110 rched watertables. Va Medium to Heavy Clays (6)	30 25 20	54)3
4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s	1,080 900 720 sandy loams are unsui ategory 2b and 3a soi Soil Category	4 3 table for conventional ls in AS1547:2012 Gravels & Sands (1) N/A	9 9 absorption trenches LPED Irrigation \$ Sandy Loams (2) 4	80 67 54 and beds if there is a Systems - Primary o Loams (3) 3.5	127 106 85 a high watertable, incl r Secondary Treated Clay Loams (4)	103 86 69 uding seasonal and pe d Effluent Light Clays (5) 2.5	165 138 110 rched watertables. Va Medium to Heavy Clays (6) N/A	30 25 20	54)3
4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s ate and maximum rate for Ca Development Type 5 + bedroom residence	1,080 900 720 sandy loams are unsui ategory 2b and 3a soi Soil Category DIR (mm) Daily (L/day) 1,080	4 3 table for conventional ls in AS1547:2012 Gravels & Sands (1) N/A (Alternative Land	9 9 absorption trenches LPED Irrigation \$ Sandy Loams (2) 4 Total min. ba 424	80 67 54 and beds if there is a Systems - Primary o Loams (3) 3.5 sal or 'wetted' area 527	127 106 85 a high watertable, incl r Secondary Treated Clay Loams (4) 3 for zero wet weathe 697	103 86 69 69 uding seasonal and per 69 Light Clays (5) 2.5 r storage (m²)† 1,029	165 138 110 rched watertables. Va Medium to Heavy Clays (6) N/A (Alternative Land	30 25 20	54)3
4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s ate and maximum rate for Ca Development Type 5 + bedroom residence 4 bedroom residence	1,080 900 720 sandy loams are unsui ategory 2b and 3a soi Soil Category DIR (mm) Daily (L/day) 1,080 900	4 3 table for conventional ls in AS1547:2012 Gravels & Sands (1) N/A (Alternative Land Application	9 9 absorption trenches LPED Irrigation \$ Sandy Loams (2) 4 Total min. ba 424 353	80 67 54 and beds if there is a Systems - Primary o Loams (3) 3.5 sal or 'wetted' area 527 440	127 106 85 a high watertable, incl r Secondary Treated Clay Loams (4) 3 for zero wet weathe 697 581	103 86 69 uding seasonal and per d Effluent Light Clays (5) 2.5 r storage (m²)† 1,029 858	165 138 110 rched watertables. Va Medium to Heavy Clays (6) N/A (Alternative Land Application	30 25 20	54)3
4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s ate and maximum rate for Ca Development Type 5 + bedroom residence 4 bedroom residence 1-3 bedroom residence	1,080 900 720 sandy loams are unsui ategory 2b and 3a soi Soil Category DIR (mm) Daily (L/day) 1,080 900 720	4 3 table for conventional ls in AS1547:2012 Gravels & Sands (1) N/A (Alternative Land	9 9 absorption trenches LPED Irrigation \$ Sandy Loams (2) 4 Total min. ba 424	80 67 54 and beds if there is a Systems - Primary o Loams (3) 3.5 sal or 'wetted' area 527	127 106 85 a high watertable, incl r Secondary Treated Clay Loams (4) 3 for zero wet weathe 697	103 86 69 69 uding seasonal and per 69 Light Clays (5) 2.5 r storage (m²)† 1,029	165 138 110 rched watertables. Va Medium to Heavy Clays (6) N/A (Alternative Land	30 25 20	54)3
4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s ate and maximum rate for Ca Development Type 5 + bedroom residence 4 bedroom residence	1,080 900 720 sandy loams are unsui ategory 2b and 3a soi Soil Category DIR (mm) Daily (L/day) 1,080 900 720	4 3 table for conventional ls in AS1547:2012 Gravels & Sands (1) N/A (Alternative Land Application	9 9 absorption trenches LPED Irrigation \$ Sandy Loams (2) 4 Total min. ba 424 353	80 67 54 and beds if there is a Systems - Primary o Loams (3) 3.5 sal or 'wetted' area 527 440	127 106 85 a high watertable, incl r Secondary Treated Clay Loams (4) 3 for zero wet weathe 697 581	103 86 69 uding seasonal and per 69 69 d Effluent 100 100 Light Clays (5) 2.5 100 r storage (m²)† 1,029 858	165 138 110 rched watertables. Va Medium to Heavy Clays (6) N/A (Alternative Land Application	30 25 20	54)3
4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s ate and maximum rate for Ca Development Type 5 + bedroom residence 4 bedroom residence 1-3 bedroom residence	1,080 900 720 sandy loams are unsui ategory 2b and 3a soi Soil Category DIR (mm) Daily (L/day) 1,080 900 720	4 3 table for conventional ls in AS1547:2012 Gravels & Sands (1) N/A (Alternative Land Application	9 9 absorption trenches LPED Irrigation \$ Sandy Loams (2) 4 Total min. ba 424 353 283	80 67 54 and beds if there is a Systems - Primary o Loams (3) 3.5 sal or 'wetted' area 527 440 352	127 106 85 a high watertable, incl r Secondary Treated Clay Loams (4) 3 for zero wet weathe 697 581 465	103 86 69 uding seasonal and personal and	165 138 110 rched watertables. Va Medium to Heavy Clays (6) N/A (Alternative Land Application	30 25 20	54)3
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4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s ate and maximum rate for Ca Development Type 5 + bedroom residence 4 bedroom residence 1-3 bedroom residence	1,080 900 720 sandy loams are unsui ategory 2b and 3a soi Soil Category DIR (mm) Daily (L/day) 1,080 900 720	4 3 table for conventional ls in AS1547:2012 Gravels & Sands (1) N/A (Alternative Land Application	9 9 absorption trenches LPED Irrigation \$ Sandy Loams (2) 4 Total min. ba 424 353 283 Wick Trenche Sandy Loams (2) Loams (3) & High/Mod Clay	80 67 54 and beds if there is a Systems - Primary o Loams (3) 3.5 sal or 'wetted' area 527 440 352 s and Beds - Second	127 106 85 a high watertable, incl r Secondary Treated Clay Loams (4) 3 for zero wet weathe 697 581 465	103 86 69 uding seasonal and personal and	165 138 110 rched watertables. Va Medium to Heavy Clays (6) N/A (Alternative Land Application	30 25 20	54 03 ge of conservative
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4 bedroom residence 1-3 bedroom residence lote: * Gravels, Sands and s ate and maximum rate for Ca Development Type 5 + bedroom residence 4 bedroom residence 1-3 bedroom residence not including spacing & sett	1,080 900 720 sandy loams are unsui ategory 2b and 3a soi Soil Category DIR (mm) Daily (L/day) 1,080 900 720 backs Soil Category DLR (mm)	4 3 table for conventional ls in AS1547:2012 Gravels & Sands (1) N/A (Alternative Land Application System Required) Gravels & Sands (1) 25	9 9 absorption trenches LPED Irrigation \$ Sandy Loams (2) 4 Total min. ba 424 353 283 Wick Trenche Sandy Loams (2) Loams (3) & High/Mod Clay Loams (4a,b) 30	80 67 54 and beds if there is a Systems - Primary o Loams (3) 3.5 sal or 'wetted' area 527 440 352 s and Beds - Second Weak Clay Loams (4) 20	127 106 85 a high watertable, incl r Secondary Treated Clay Loams (4) 3 for zero wet weathe 697 581 465 dary Treated Effluer Massive Clay Loams (4) 10	103 86 69 uding seasonal and personal and	165 138 110 rched watertables. Va Medium to Heavy Clays (6) N/A (Alternative Land Application System Required) Moderate Light Clays (5b) 8	Weak Light Clays (5c) 8	54 03 ge of conservative Medium to Heav Clays (6)
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			Wick Trenche	s and Beds - Second	dary Treated Efflue	nt Only			
	Soil Category	Gravels & Sands (1)	Sandy Loams (2) Loams (3) & High/Mod Clay Loams (4a,b)	Weak Clay Loams (4)	Massive Clay Loams (4)	Strong Light Clays (5a)	Moderate Light Clays (5b)	Weak Light Clays (5c)	Medium Clay
	DLR (mm)	25	30	20	10	12	8	8	5
Development Type	Daily (L/day)		Total min. basal o	r 'wetted' area requir	ed for zero wet we	ather effluent storage	(m ²) not including	spacing & setbacks	\$
5 + bedroom residence	1,080	46	38	59	127	103	1	65	30
4 bedroom residence	900	39	32	49	106	86	1	38	25
1-3 bedroom residence	720	31	26	39	85	69	1	10	20