

CALCULATION SHEET

BERRYS

Project Number:	SA55913	Site:	Mid Wales Leisure
Calcs by:	R.Harman	Status (Prelim/Final)	Final
Checked by:	R.Harman	Date:	23/04/2026

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Design Element: Foul package treatment sizing (Peak flow design)

Ref	Calculations	Remarks/Output
	<p>Planning for max 125 units, presently 64 units built.</p> <p>Summer 2025, 61 units completed and occupied. Peak recorded population during August 2025 = 247 people, plus staff and additional café covers. (See site occupation figures).</p> <p>Site average peak occupancy per plot $247 / 61 =$</p> <p>Add 10% buffer</p> <p>Full occupancy for resi units $125 \times 4.5 = 563PE$</p>	<p>4.05</p> <p>4.5</p> <p>563PE</p>

Treatment system enquiry sizing sheet - Current

Waste source	No	Occupancy	No	Flow l/day		BOD Grams/day		NH ₃ (Amonina)	
				Per head	Total	Per head	Total	Per head	Total
Holiday pitch/lodge	61	4	244	100	24400	44	10736	8	1952
Staff	1	20	20	90	1800	38	760	5	100
Café*	1	50	50	15	750	19	950	2.5	125
Total					26950		12446		2177

Treatment system enquiry sizing sheet - Max

Waste source	No	Occupancy	No	Flow l/day		BOD Grams/day		NH ₃ (Amonina)	
				Per head	Total	Per head	Total	Per head	Total
Holiday pitch/lodge	125	4.5	562.5	100	56250	44	24750	8	4500
Staff	1	40	40	90	3600	38	1520	5	200
Café*	1	100	50	15	750	19	950	2.5	125
Total					60600		27220		4825

*Note: additional café covers counted as external guests, internal guests counted within existing normal residential domestic flows.