

KANE DESIGN

Civil Engineering Design Services

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CESS TANK DESIGN

Project **PENLEY MILL**
WREXHAM
PRELIMINARY CALCULATION

Scheme number **1593**

DATE **24 October 2023**

BY **AK**
checked

NOTES

1 DESCRIPTION:

Foul drainage from proposed casr repair unit to a cess tank

2 REFERENCES

Reference 1: B. Regs: Building Regulations (2008 Part H: Item 1.61
Reference 2: PPG4: Environment Agency PPG 4 (2006)
Treatment of Sewerage where no foul sewer is available"
Reference 3: BWB: British Waterways Flows and Loads - 4

3 PROPOSED FLOW

From B. Regs (2015) 1.61: "Cess pools should have a capacity below the invert
of at least 18000 litres for two people, increasing
by 6800 litres for each additional user.
not applicable, none-residential

Peak flows:

From BWB: **Office or factory without canteen: allow 50 litres/person / day**
Maximum staff 4 persons

4 persons: = 4 x 50 = 200 litres / day

4 SIZING

Size for 200 Litres/day

Use "PremierTech Alpha Ltd" Cesspool tank GRP tank or similar approved
3000 litres capacity tank: 1m diam x 3.946m length

Therefore emptying (assuming peak discharge) = 15.00 Days

B. Reg: 1.59/ 160: To be located 7m from any habitable building and not
more than 30m from the access road