



Unit E4 Truro Business Park, Threemilestone, Truro, TR4 9LD	J-3349	Trevone Farm	EDS	06/03/2024
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Pit Dimensions

Depth (m)	Length (m)	Width (m)
2.00	1.80	0.60

Test Date:	06/03/2024
Trial Pit No.:	TP1
Test No.:	2

Soakaway test - tabulated data

Time (hh:mm)	Depth to Water (m)	Elapsed Time (sec)	Water Depth (m)	% Effective	Volume (m ³)
10:00	0.61	0	1.19	100%	1.29
10:01	0.65	60	1.15	97%	1.24
10:02	0.70	120	1.10	92%	1.19
10:08	0.89	480	0.91	76%	0.98
10:12	0.99	720	0.81	68%	0.87
10:16	1.07	960	0.73	61%	0.79
10:21	1.16	1260	0.64	54%	0.69
10:28	1.27	1680	0.53	45%	0.57
10:36	1.38	2160	0.42	35%	0.45
10:40	1.44	2400	0.36	30%	0.39
10:45	1.49	2700	0.31	26%	0.33
10:50	1.54	3000	0.26	22%	0.28
11:00	1.64	3600	0.16	13%	0.17
11:10	1.72	4200	0.08	7%	0.09
11:20	1.80	4800	0.00	0%	0.00

% Effective	Vol (m ³)	T (sec)
76%	0.98	480
68%	0.87	720
75%	0.96	522
26%	0.33	2700
22%	0.28	3000
25%	0.32	2775
75%-25%	0.64	2253

Effective Values Summary

Datum (0,0) is ground level at pit
 Initial Depth 0.61 m (below datum)
 Final Depth 1.80 m (below datum)
 Storage Depth 1.19 m (effective depth)
 $a_{p50\%}$ 3.94 m²

$$q = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

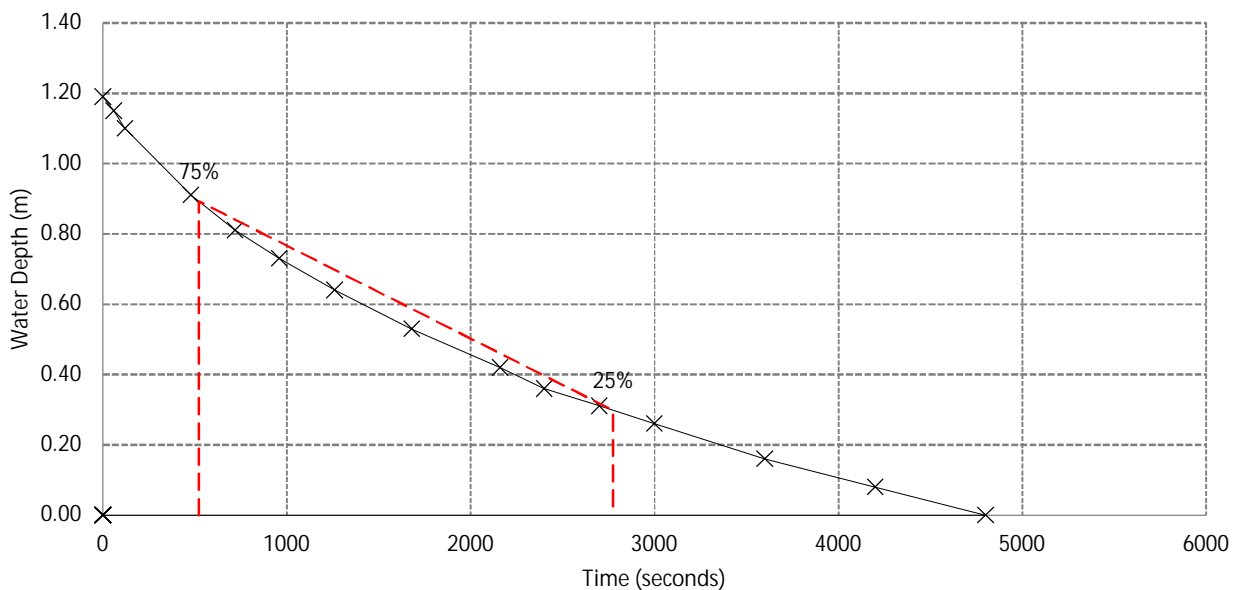
Where:

$a_{p50\%}$: Internal surface area of pite up to 50% effective depth, including base area

t_{p75-25} : Time for water to dall from 75% to 25% effective depth

V_{p75-25} : Effective storage volume between 75% & 25% effective depth

q = 7.25E-05 m/sec
 0.261 m/hr





Job No.

Job Name

Prepared

Date

Unit E4 Truro Business Park, Threemilestone, Truro, TR4 9LD

J-3349

Trevone Farm

EDS

06/03/2024

Pit Dimensions

Depth (m)	Length (m)	Width (m)
2.00	1.80	0.60

Test Date:	06/03/2024
Trial Pit No.:	TP1
Test No.:	3

Soakaway test - tabulated data

Time (hh:mm)	Depth to Water (m)	Elapsed Time (sec)	Water Depth (m)	% Effective	Volume (m ³)
12:00	0.64	0	1.17	100%	1.26
12:01	0.66	60	1.15	98%	1.24
12:02	0.68	120	1.13	97%	1.22
12:04	0.74	240	1.07	91%	1.16
12:06	0.79	360	1.02	87%	1.10
12:10	0.86	600	0.95	81%	1.03
12:15	0.95	900	0.86	74%	0.93
12:20	1.04	1200	0.77	66%	0.83
12:25	1.11	1500	0.70	60%	0.76
12:30	1.19	1800	0.62	53%	0.67
12:35	1.24	2100	0.57	49%	0.62
12:45	1.36	2700	0.45	38%	0.49
12:56	1.47	3360	0.34	29%	0.37
13:05	1.54	3900	0.27	23%	0.29
13:15	1.62	4500	0.19	16%	0.21
13:25	1.69	5100	0.12	10%	0.13
13:35	1.76	5700	0.05	4%	0.05
13:45	1.81	6300	0.00	0%	0.00

% Effective	Vol (m ³)	T (sec)
81%	1.03	600
74%	0.93	900
75%	0.95	842
29%	0.37	3360
23%	0.29	3900
25%	0.32	3726
75%-25%	0.63	2885

Effective Values Summary

Datum (0,0) is ground level at pit

Initial Depth 0.64 m (below datum)

Final Depth 1.81 m (below datum)

Storage Depth 1.17 m (effective depth)

$a_{p50\%}$ 3.89 m²

$$q = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where:

$a_{p50\%}$: Internal surface area of pite up to 50% effective depth, including base area

t_{p75-25} : Time for water to dall from 75% to 25% effective depth

V_{p75-25} : Effective storage volume between 75% & 25% effective depth

q= 5.63E-05 m/sec
0.203 m/hr

