Nijhuis Saur Industries | UK & Eire

Our Ref: J-15503-HG-01
26 March 2024

W Marsh and Son
Resugga Farm
St Stephens
St Austell
Cornwall

RE: Proposed Unit at Resugga Farm, St Stephens - Surface Water and Foul Water Drainage Report

Introduction

Our client is proposing to site a single unit at Resugga Farm, St Stephens for tourism purposes. This application also covers the retention of 'Shabby Shack' which is a single tourism unit.

The site is located at Resugga Farm, St Stephens. The approximate grid reference for the site is SW 94028 52707. A site location plan is shown in **Figure 1** below.

Nijhuis Industries Ltd. have been instructed to outline the surface water and foul water drainage proposals, in line with the National Planning Policy Framework (NPPF), Planning Practice Guidance (PPG) and Cornwall Council Guidance.

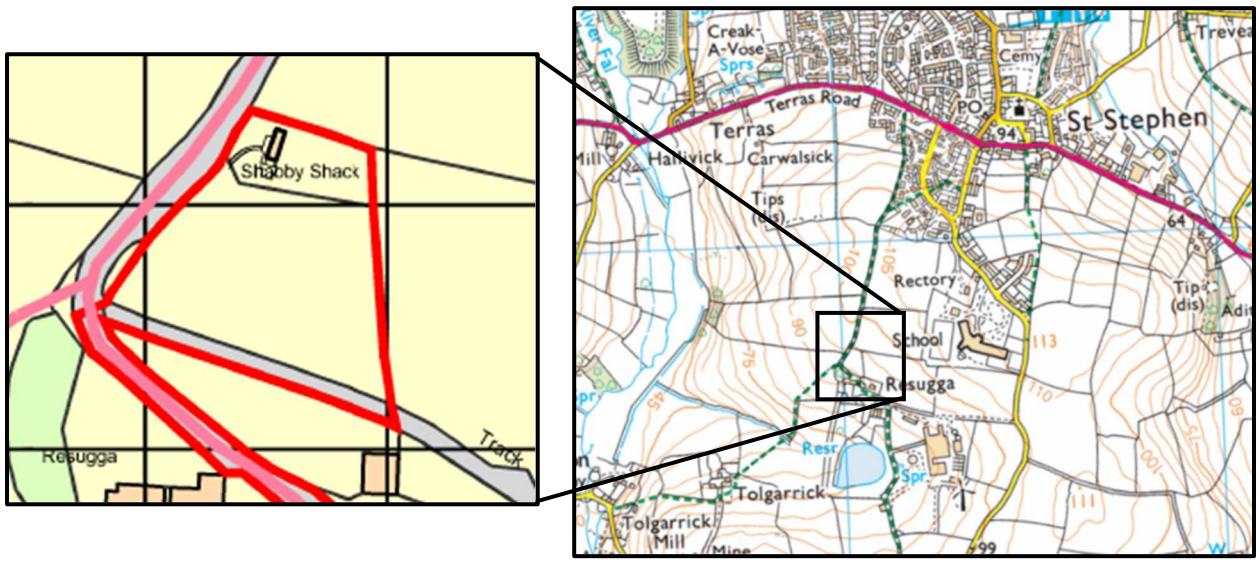


Figure 1. Site Location Plan

Percolation Test Results

To establish the subsoil conditions on the land and whether infiltration was a viable option, percolation tests were undertaken in line with the relevant guidance on the 23/02/2024 by others. The percolation test results are included in **Annex B**.

A total of four trial pits were undertaken for the foul drainage percolation testing. Two trial pits were undertaken for the surface water drainage percolation testing. The results are outlined below. The testing indicated that infiltration is a viable solution for the drainage of the site.

Foul Water Percolation Test Results

Trial Pit 1	Trial Pit 2	Trial Pit 3	Trial Pit 4
22 s/mm	22.8 s/mm	19 s/mm	19 s/mm
25 s/mm	31 s/mm	21 s/mm	20 s/mm
26 s/mm	28 s/mm	27 s/mm	22 s/mm

Table 1. Foul Percolation Test Results

Based on the percolation test results above, a rate of 26.5 s/mm for the design of the foul drainage field. This is an average of the slowest rate of each trial pit. This is further outlined below.

Surface Water Percolation Test Results

Trial Pit 1	Trial Pit 2
0.138 m/hr	0.139 m/hr
0.177 m/hr	0.148 m/hr
0.158 m/hr	0.165 m/hr

Table 2. Surface Water Percolation Test Results

Based on the percolation test results above a conservative rate of 0.138 m/hr will be used for the design of the infiltration system. This is detailed further below.

Foul Water Drainage

B.S. 6297 states that percolation values should be between 15s/mm and 100s/mm. The overall average rate produced from percolation testing is 26.5 s/mm. this is a suitable rate for the design of a non-mains foul drainage system without the need for an Environmental Permit.

It is proposed that the foul drainage for the units will drain to a septic tank which will then outfall to a drainage field.

The units are outlined below:

- 1 Bed Property - 2 Pe
- 2 Bed Property - 4 Pe

The foul treatment plant is to be designed as suitable for a total of 6 persons, in line with guidance outlined in industry approved 'British Water Flow and Loads 4'.

Under the guidance of British Water Flows and Loads 4 the document suggests that occupants produce 150l/hd/dy of wastewater and as such the total daily volume of the discharge is likely to be approximately 0.9m^3/dy.

Drainage Field Calculations:

The following calculation is used in order to assess the base area of drainage field trench required; At = Vp x Pe x 0.25 (for a septic tank).

Where At = The trench base area, Pe = the population equivalent of the property and Vp = the infiltration rate obtained from the percolation testing.

The population equivalent of the development is 6. If we use the calculation above with a Vp of 26.5, the outcome is the requirement to install 39.75m² of drainage field.

Utilising a trench width of 900mm, the total linear meterage required is 44.2m.

Annex A of this report shows a conceptual foul drainage scheme, allowing the septic tank to be at least 7m from any building and the drainage field to be 15m from any building.

Surface Water Drainage

In line with the Surface Water Drainage Hierarchy, the preferable drainage solution for this site would be to drain all surface water runoff from the development to ground soakaways. As percolation was successful infiltration options have been explored below.

It is determined that the impermeable area for the site is 75m^2. Based on this a single soakaway is proposed for the site. MicroDrainage software was used to model the minimum size for the infiltration system, using the calculations and measurements outlined above.

Using the outlined impermeable area and an infiltration rate of 0.138 m/hr. The required soakaway is 7.5m^2 x 0.8m (depth). The MicroDrainage calculations are included with this report in **Annex C**.

Conclusions

Our client is proposing a tourism unit at Resugga Farm. This application also covers the retention of the existing unit on site called 'Shabby Shack'. Following on from successful percolation testing an infiltration drainage scheme has been outlined for foul and surface water drainage.

It is proposed that the foul from the site will be connected to a septic tank which will discharge into a drainage field.

The surface water runoff from the site will drain to a single soakaway.

The proposed conceptual drainage layout is included in **Annex A**.

Provided the recommendations outlined in this report are adopted in the development proposal then there is the capacity to manage the surface water runoff from the development onsite. With regard to the criteria outlined in the PPG, the development is appropriate on this site from a flood risk perspective.

Yours sincerely
For and on behalf of Nijhuis Industries Ltd

Hannah Graham
Flood Risk and Drainage Engineer

Enc.	Annex A	Proposed Drainage Drawing
	Annex B	Percolation Test Results
	Annex C	Calculations

ANNEX A – PROPOSED DRAINAGE DRAWING

Shabby Shack

Proposed Unit

PROPOSED SEPTIC TANK. LOCATED 7M FROM ANY BUILDING

PROPOSED FOUL DRAINAGE FIELD. LOCATED 15M FROM ANY BUILDING

SILT TRAP

PROPOSED SURFACE WATER CRATED SOAKAWAY
WITH DIMENSIONS OF 7.5m² X 0.8m (DEPTH)

NOTES

1. THIS DRAWING AND ANY ANCILLARY DRAWINGS OR DATA ARE COPYRIGHT OF NIJHUIS H2OK Ltd AND MAY NOT BE USED, COPIED OR AMENDED FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN APPROVAL.
2. THIS DRAWING IS ONLY TO BE USED FOR THE PURPOSES DESCRIBED IN THE STATUS BOX BELOW. WORK TO FIGURED DIMENSIONS ONLY, DO NOT SCALE.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, DETAILS AND SPECIFICATIONS PERTAINING TO THE WORK DESCRIBED.
4. MATERIALS AND WORKMANSHIP SHALL COMPLY TO THE APPROPRIATE BRITISH STANDARDS AND CODES OF PRACTICE UNLESS OTHERWISE STATED.
5. THE ACTIVITIES REQUIRED TO CONSTRUCT THE WORK, SHOWN ON DRAWINGS CLEARLY MARKED FOR CONSTRUCTION, MAY BE SUBJECT TO THE PROVISIONS OF THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015 THE CONTRACTOR AND CLIENT MUST ENSURE THAT THEY ARE ADEQUATELY CONVERSANT WITH THESE REGULATIONS AND THAT THE APPROPRIATE PROCEDURES REQUIRED UNDER THE REGULATIONS ARE OBSERVED AT ALL TIMES.

KEY

- PROPOSED SITE BOUNDARY
- PROPOSED SURFACE WATER DRAINAGE
- FOUL DRAINAGE (INDICATIVE)

Name	Date	Remarks	Revision
HG	26:03:24	PRELIMINARY	P01

INFORMATION

nijhuis
Nijhuis Saur Industries | UK & Eire
#missionwater

Nijhuis Industries UK & Ireland
Registered Office: Unit 4, Blenheim Court, Beaufort Office Park, Bristol, BS32 4NE
www.nijhuissaurindustries.com | info@nijhuisindustries.com
T. +44 (0)333 7000 007

NSI Office	UK	Drawn by	HG	Date	26:03:24	Status	S2

Title	CONCEPTUAL DRAINAGE LAYOUT
Project	RESUGGA FARM, ST STEPHENS
Project №	J15503
Quotation №	
Document №	J15503-NUK-XX-XX-DR-D-3001-S2-P01

Revision	P01
Checked by	HG
Release Date	26:03:24
Size	A1
Sheet	1 OF 1
Scale	1:100
Unit	MM

ANNEX B – PERCOLATION TEST RESULTS

Trial Pit 1

	Test 1	Test 2	Test 3
Time (Full) (mins)	0	0	0
Time (Empty) (mins)	110	125	130
Times (seconds)	6600	7500	7800
Depth (mm)	300	300	300
Vp - s/mm	22	25	26

Trial Pit 2

	Test 1	Test 2	Test 3
Time (Full) (mins)	0	0	0
Time (Empty) (mins)	114	155	140
Times (seconds)	6840	9300	8400
Depth (mm)	300	300	300
Vp - s/mm	22.8	31	28

Trial Pit 3

	Test 1	Test 2	Test 3
Time (Full) (mins)	0	0	0
Time (Empty) (mins)	95	105	135
Times (seconds)	5700	6300	8100
Depth (mm)	300	300	300
Vp - s/mm	19	21	27

Trial Pit 4

	Test 1	Test 2	Test 3
Time (Full) (mins)	0	0	0
Time (Empty) (mins)	95	100	110
Times (seconds)	5700	6000	6600
Depth (mm)	300	300	300
Vp - s/mm	19	20	22

	Job No.	Job Name	Prepared	Date
Nijhuis H_2OK Ltd., Nanjerrick Court, Allet, Truro, TR4 9DJ Tel: 0333 7000 007	0	0	0	00/01/1900

Pit Dimensions

Depth (m)	Length (m)	Width (m)
2.00	3.00	0.80

Test Date:	23/02/2024
Trial Pit No.:	1.00
Test No.:	1

Soakaway test - tabulated data

Time (hh:mm)	Depth to Water (m)	Elapsed Time (sec)	Water Depth (m)	% Effective	Volume (m^3)
09:00	0.00	0	1.50	100%	3.60
09:18	0.50	1080	1.00	67%	2.40
11:45	1.50	9900	0.00	0%	0.00

% Effective	Vol (m^3)	T (sec)
100%	3.60	0
67%	2.40	1080
75%	**2.70**	**810**
67%	2.40	1080
0%	0.00	9900
25%	**0.90**	**6593**
75%-25%	**1.80**	**5783**

Effective Values Summary

Datum (0,0) is ground level at pit

Initial Depth	0.00	m (below datum)
Final Depth	1.50	m (below datum)
Storage Depth	1.50	m (effective depth)
$a_{p50\%}$	8.10	m^2

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

Where:

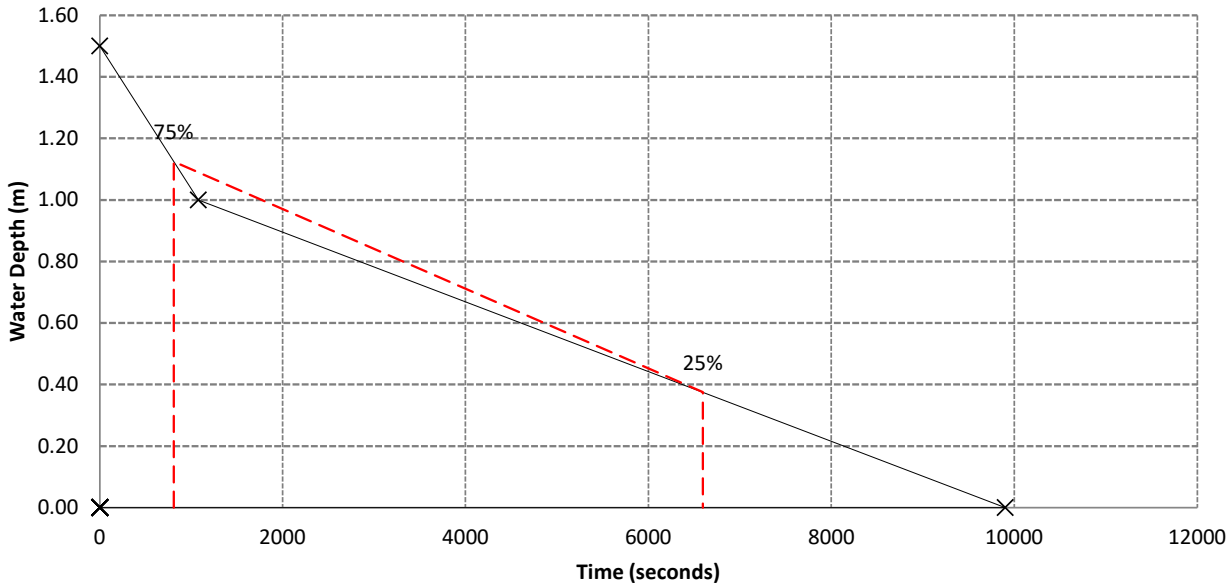
$a_{p50\%}$: Internal surface area of pite up to 50% effective depth, including base area

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= **3.84E-05** m/sec

0.138 m/hr



	Job No.	Job Name	Prepared	Date
Nijhuis H_2OK Ltd., Nanjerrick Court, Allet, Truro, TR4 9DJ Tel: 0333 7000 007	0	0	0	00/01/1900

Pit Dimensions

Depth (m)	Length (m)	Width (m)
2.00	3.00	0.80

Test Date:	23/02/2024
Trial Pit No.:	1.00
Test No.:	2

Soakaway test - tabulated data

Time (hh:mm)	Depth to Water (m)	Elapsed Time (sec)	Water Depth (m)	% Effective	Volume (m^3)
12:00	0.00	0	1.50	100%	3.60
12:33	0.50	1980	1.00	67%	2.40
14:20	1.50	8400	0.00	0%	0.00

% Effective	Vol (m^3)	T (sec)
100%	3.60	0
67%	2.40	1980
75%	**2.70**	**1485**
67%	2.40	1980
0%	0.00	8400
25%	**0.90**	**5993**
75%-25%	**1.80**	**4508**

Effective Values Summary

Datum (0,0) is ground level at pit

Initial Depth	0.00	m (below datum)
Final Depth	1.50	m (below datum)
Storage Depth	1.50	m (effective depth)
$a_{p50\%}$	8.10	m^2

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

Where:

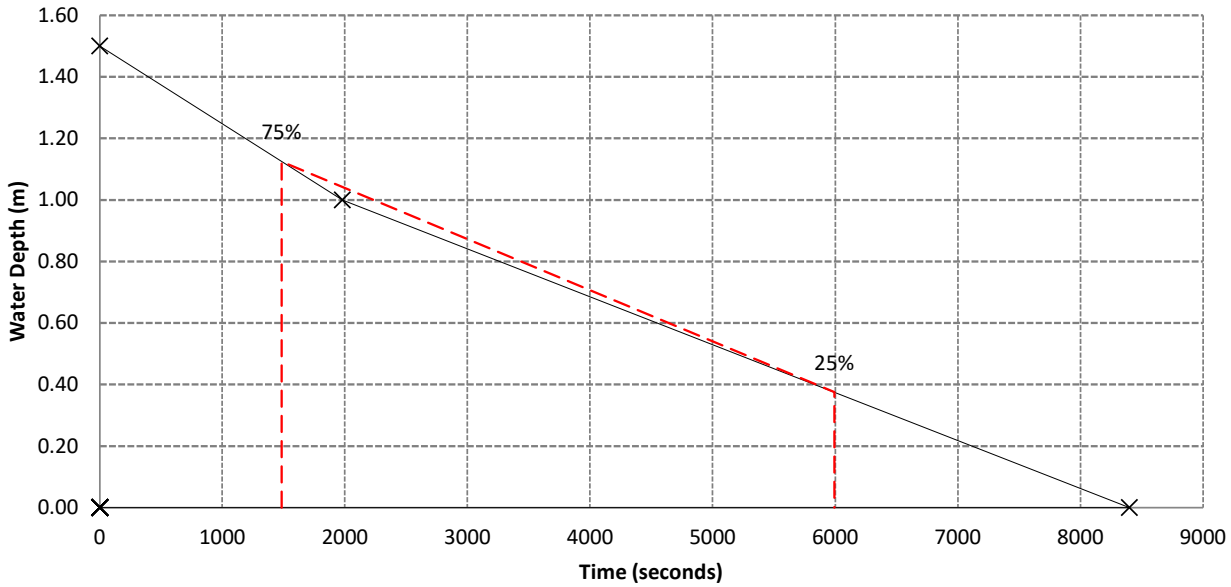
$a_{p50\%}$: Internal surface area of pite up to 50% effective depth, including base area

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

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

q= **4.93E-05** m/sec

0.177 m/hr



	Job No.	Job Name	Prepared	Date
Nijhuis H_2OK Ltd., Nanjerrick Court, Allet, Truro, TR4 9DJ Tel: 0333 7000 007	0	0	0	00/01/1900

Pit Dimensions

Depth (m)	Length (m)	Width (m)
2.00	3.00	0.80

Test Date:	23/02/2024
Trial Pit No.:	1.00
Test No.:	3

Soakaway test - tabulated data

Time (hh:mm)	Depth to Water (m)	Elapsed Time (sec)	Water Depth (m)	% Effective	Volume (m^3)
15:00	0.00	0	1.50	100%	3.60
15:25	0.50	1500	1.00	67%	2.40
17:30	1.50	9000	0.00	0%	0.00

% Effective	Vol (m^3)	T (sec)
100%	3.60	0
67%	2.40	1500
75%	**2.70**	**1125**
67%	2.40	1500
0%	0.00	9000
25%	**0.90**	**6188**
75%-25%	**1.80**	**5063**

Effective Values Summary

Datum (0,0) is ground level at pit

Initial Depth	0.00	m (below datum)
Final Depth	1.50	m (below datum)
Storage Depth	1.50	m (effective depth)
$a_{p50\%}$	8.10	m^2

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

Where:

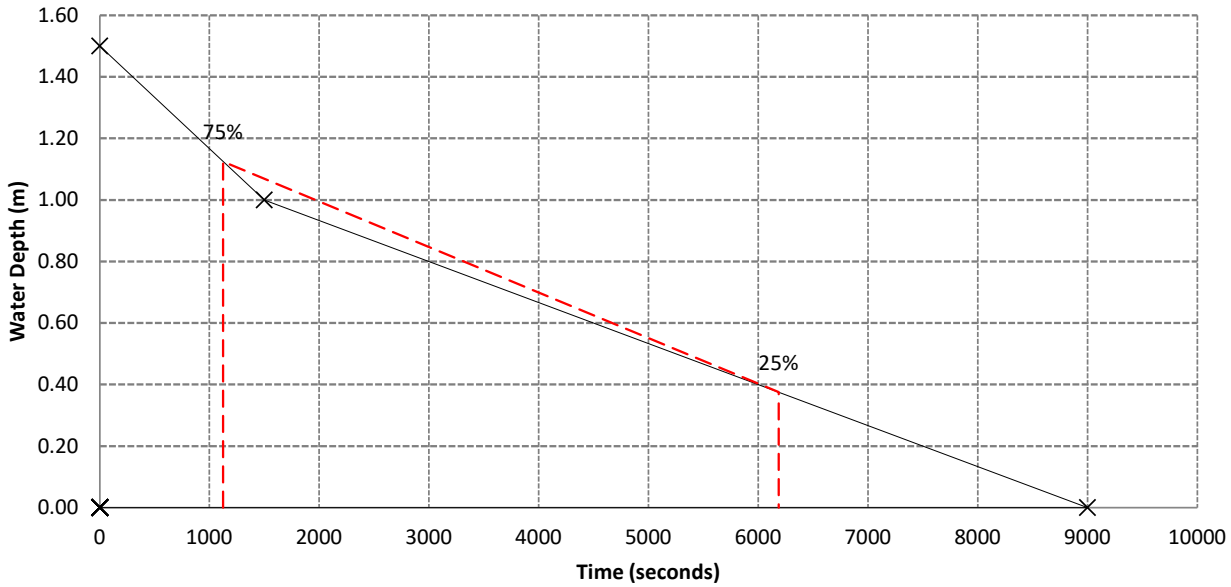
$a_{p50\%}$: Internal surface area of pite up to 50% effective depth, including base area

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

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

q= **4.39E-05** m/sec

0.158 m/hr



	Job No.	Job Name	Prepared	Date
Nijhuis H_2OK Ltd., Nanjerrick Court, Allet, Truro, TR4 9DJ Tel: 0333 7000 007	0	0	0	00/01/1900

Pit Dimensions

Depth (m)	Length (m)	Width (m)
2.00	3.20	0.80

Test Date:	23/02/2024
Trial Pit No.:	2.00
Test No.:	1

Soakaway test - tabulated data

Time (hh:mm)	Depth to Water (m)	Elapsed Time (sec)	Water Depth (m)	% Effective	Volume (m^3)
09:00	0.00	0	1.50	100%	3.84
09:25	0.50	1500	1.00	67%	2.56
11:50	1.50	10200	0.00	0%	0.00

% Effective	Vol (m^3)	T (sec)
100%	3.84	0
67%	2.56	1500
75%	**2.88**	**1125**
67%	2.56	1500
0%	0.00	10200
25%	**0.96**	**6938**
75%-25%	**1.92**	**5813**

Effective Values Summary

Datum (0,0) is ground level at pit

Initial Depth	0.00	m (below datum)
Final Depth	1.50	m (below datum)
Storage Depth	1.50	m (effective depth)
$a_{p50\%}$	8.56	m^2

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

Where:

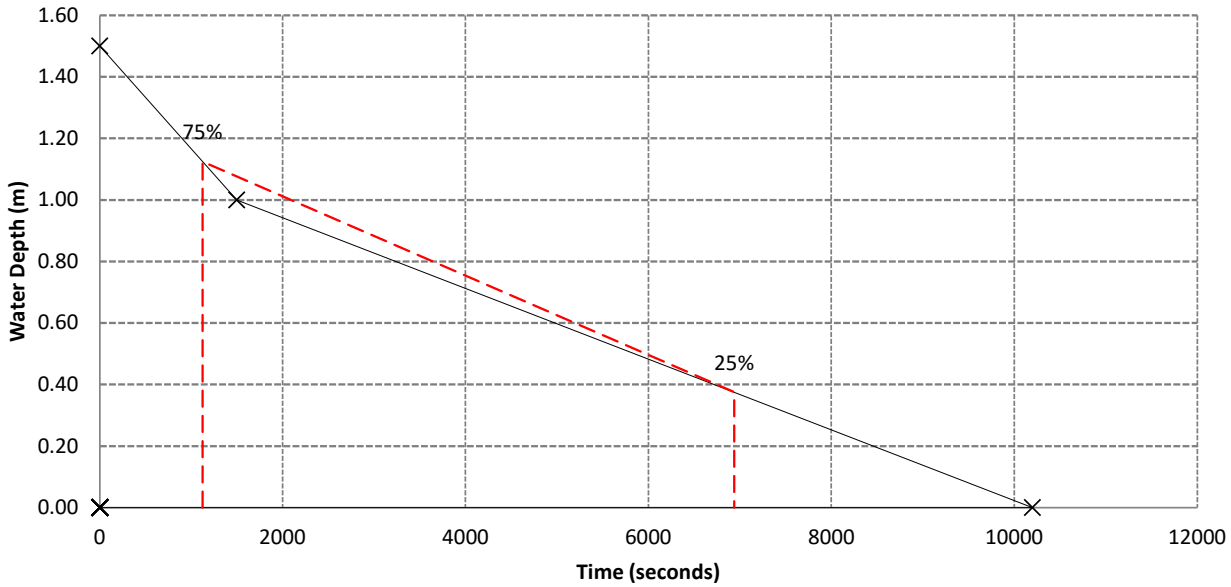
$a_{p50\%}$: Internal surface area of pite up to 50% effective depth, including base area

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

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

q= **3.86E-05** m/sec

0.139 m/hr



	Job No.	Job Name	Prepared	Date
Nijhuis H_2OK Ltd., Nanjerrick Court, Allet, Truro, TR4 9DJ Tel: 0333 7000 007	0	0	0	00/01/1900

Pit Dimensions

Depth (m)	Length (m)	Width (m)
2.00	3.20	0.80

Test Date:	23/02/2024
Trial Pit No.:	2.00
Test No.:	2

Soakaway test - tabulated data

Time (hh:mm)	Depth to Water (m)	Elapsed Time (sec)	Water Depth (m)	% Effective	Volume (m^3)
12:00	0.00	0	1.50	100%	3.84
12:38	0.50	2280	1.00	67%	2.56
14:48	1.50	10080	0.00	0%	0.00

% Effective	Vol (m^3)	T (sec)
100%	3.84	0
67%	2.56	2280
75%	**2.88**	**1710**
67%	2.56	2280
0%	0.00	10080
25%	**0.96**	**7155**
75%-25%	**1.92**	**5445**

Effective Values Summary

Datum (0,0) is ground level at pit

Initial Depth	0.00	m (below datum)
Final Depth	1.50	m (below datum)
Storage Depth	1.50	m (effective depth)
$a_{p50\%}$	8.56	m^2

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

Where:

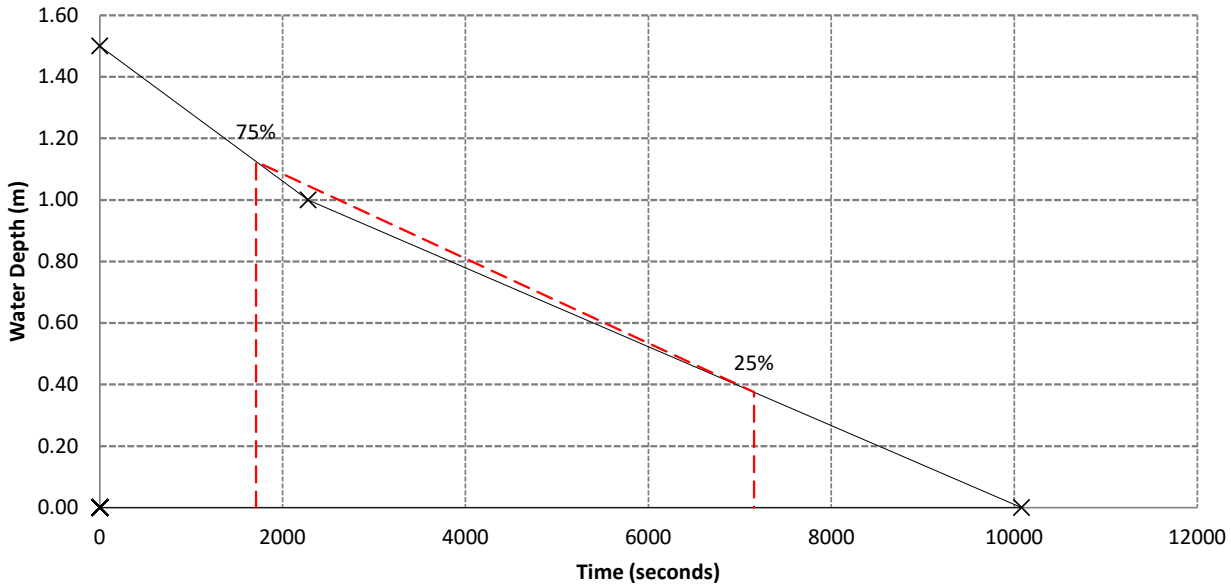
$a_{p50\%}$: Internal surface area of pite up to 50% effective depth, including base area

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

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

q= **4.12E-05** m/sec

0.148 m/hr



	Job No.	Job Name	Prepared	Date
Nijhuis H_2OK Ltd., Nanjerrick Court, Allet, Truro, TR4 9DJ Tel: 0333 7000 007	0	0	0	00/01/1900

Pit Dimensions

Depth (m)	Length (m)	Width (m)
2.00	3.20	0.80

Test Date:	23/02/2024
Trial Pit No.:	2.00
Test No.:	3

Soakaway test - tabulated data

Time (hh:mm)	Depth to Water (m)	Elapsed Time (sec)	Water Depth (m)	% Effective	Volume (m^3)
15:00	0.00	0	1.50	100%	3.84
15:32	0.50	1920	1.00	67%	2.56
17:30	1.50	9000	0.00	0%	0.00

% Effective	Vol (m^3)	T (sec)
100%	3.84	0
67%	2.56	1920
75%	**2.88**	**1440**
67%	2.56	1920
0%	0.00	9000
25%	**0.96**	**6345**
75%-25%	**1.92**	**4905**

Effective Values Summary

Datum (0,0) is ground level at pit

Initial Depth	0.00	m (below datum)
Final Depth	1.50	m (below datum)
Storage Depth	1.50	m (effective depth)
$a_{p50\%}$	8.56	m^2

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

Where:

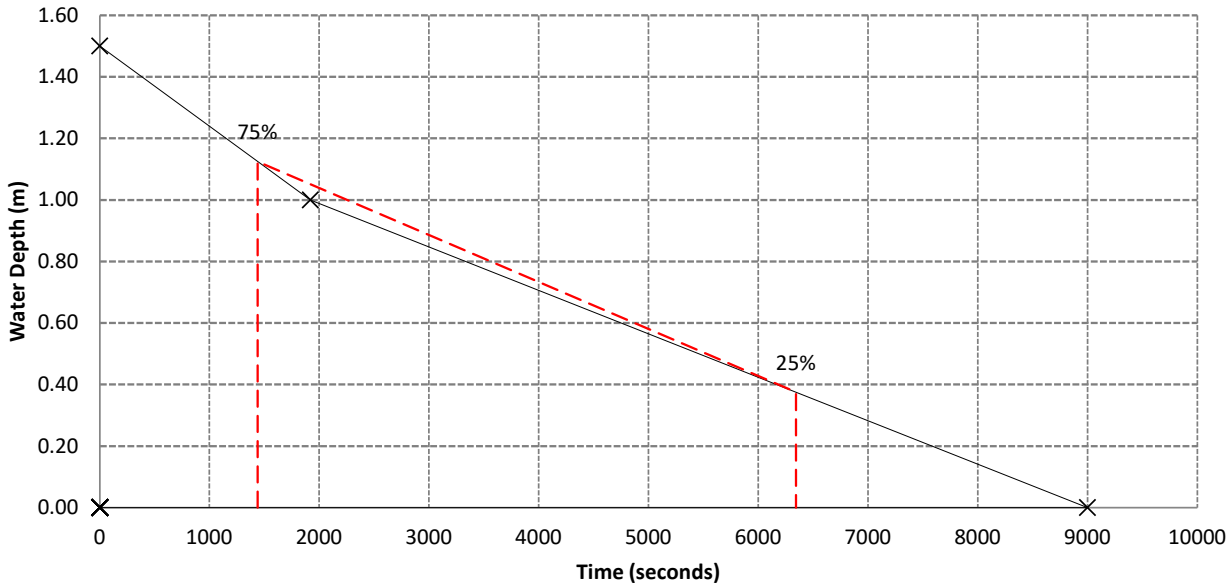
$a_{p50\%}$: Internal surface area of pite up to 50% effective depth, including base area

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= **4.57E-05** m/sec

0.165 m/hr



Google Maps

Imagery ©2024 CNES / Airbus, Getmapping plc, Infoterra Ltd & Bluesky, Maxar Technologies, Map data ©2024 20 m

ANNEX C – CALCULATIONS

Summary of Results for 100 year Return Period (+50%)

Half Drain Time : 263 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	98.361	0.361	0.1	2.6	O K
30 min Summer	98.438	0.438	0.2	3.1	O K
60 min Summer	98.520	0.520	0.2	3.7	O K
120 min Summer	98.594	0.594	0.2	4.2	O K
180 min Summer	98.624	0.624	0.2	4.4	O K
240 min Summer	98.639	0.639	0.2	4.6	O K
360 min Summer	98.654	0.654	0.2	4.7	O K
480 min Summer	98.657	0.657	0.2	4.7	O K
600 min Summer	98.654	0.654	0.2	4.7	O K
720 min Summer	98.648	0.648	0.2	4.6	O K
960 min Summer	98.604	0.604	0.2	4.3	O K
1440 min Summer	98.527	0.527	0.2	3.8	O K
2160 min Summer	98.431	0.431	0.2	3.1	O K
2880 min Summer	98.353	0.353	0.1	2.5	O K
4320 min Summer	98.235	0.235	0.1	1.7	O K
5760 min Summer	98.152	0.152	0.1	1.1	O K
7200 min Summer	98.096	0.096	0.1	0.7	O K
8640 min Summer	98.062	0.062	0.1	0.4	O K
10080 min Summer	98.048	0.048	0.1	0.3	O K
15 min Winter	98.405	0.405	0.2	2.9	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	178.805	0.0	18
30 min Summer	111.264	0.0	33
60 min Summer	69.235	0.0	62
120 min Summer	43.082	0.0	120
180 min Summer	32.642	0.0	176
240 min Summer	26.809	0.0	204
360 min Summer	20.312	0.0	268
480 min Summer	16.682	0.0	336
600 min Summer	14.319	0.0	406
720 min Summer	12.640	0.0	476
960 min Summer	10.043	0.0	616
1440 min Summer	7.262	0.0	882
2160 min Summer	5.252	0.0	1276
2880 min Summer	4.173	0.0	1648
4320 min Summer	3.010	0.0	2380
5760 min Summer	2.388	0.0	3112
7200 min Summer	1.995	0.0	3752
8640 min Summer	1.723	0.0	4416
10080 min Summer	1.521	0.0	5136
15 min Winter	178.805	0.0	18

©1982-2020 Innovyze

Summary of Results for 100 year Return Period (+50%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	98.493	0.493	0.2	3.5	O K
60 min Winter	98.588	0.588	0.2	4.2	O K
120 min Winter	98.679	0.679	0.2	4.8	O K
180 min Winter	98.718	0.718	0.2	5.1	O K
240 min Winter	98.736	0.736	0.2	5.2	O K
360 min Winter	98.750	0.750	0.2	5.3	O K
480 min Winter	98.751	0.751	0.2	5.4	O K
600 min Winter	98.743	0.743	0.2	5.3	O K
720 min Winter	98.730	0.730	0.2	5.2	O K
960 min Winter	98.667	0.667	0.2	4.7	O K
1440 min Winter	98.555	0.555	0.2	4.0	O K
2160 min Winter	98.420	0.420	0.2	3.0	O K
2880 min Winter	98.314	0.314	0.1	2.2	O K
4320 min Winter	98.163	0.163	0.1	1.2	O K
5760 min Winter	98.071	0.071	0.1	0.5	O K
7200 min Winter	98.046	0.046	0.1	0.3	O K
8640 min Winter	98.040	0.040	0.1	0.3	O K
10080 min Winter	98.035	0.035	0.1	0.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	111.264	0.0	32
60 min Winter	69.235	0.0	62
120 min Winter	43.082	0.0	118
180 min Winter	32.642	0.0	174
240 min Winter	26.809	0.0	226
360 min Winter	20.312	0.0	282
480 min Winter	16.682	0.0	360
600 min Winter	14.319	0.0	438
720 min Winter	12.640	0.0	514
960 min Winter	10.043	0.0	664
1440 min Winter	7.262	0.0	950
2160 min Winter	5.252	0.0	1360
2880 min Winter	4.173	0.0	1732
4320 min Winter	3.010	0.0	2464
5760 min Winter	2.388	0.0	3112
7200 min Winter	1.995	0.0	3672
8640 min Winter	1.723	0.0	4400
10080 min Winter	1.521	0.0	5120

©1982-2020 Innovyze

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	1999
Site Location	GB 193850 52500 SW 93850 52500
C (1km)	-0.029
D1 (1km)	0.449
D2 (1km)	0.334
D3 (1km)	0.328
E (1km)	0.295
F (1km)	2.475
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+50

Time Area Diagram

Total Area (ha) 0.008

Time (mins) From:	To:	Area (ha)
0	4	0.008

©1982-2020 Innovyze

Model Details

Storage is Online Cover Level (m) 100.000

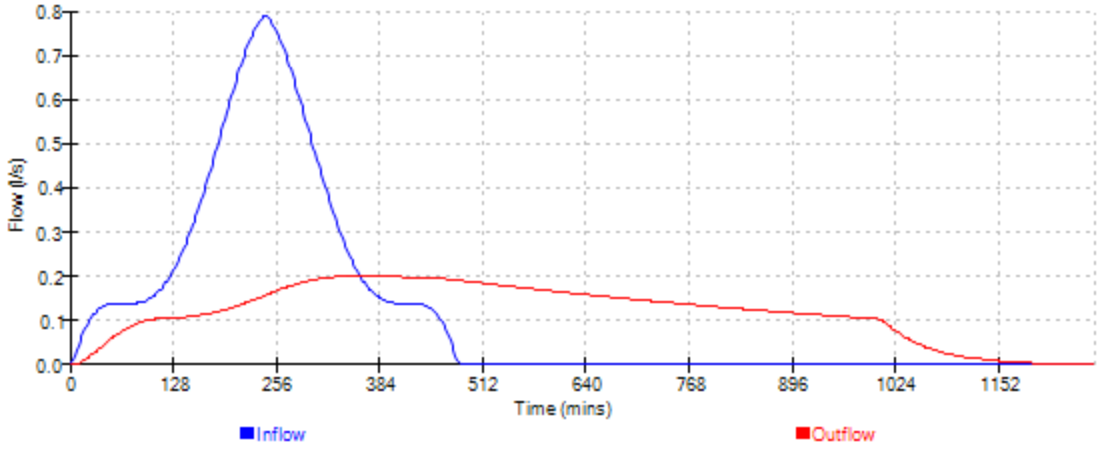
Cellular Storage Structure

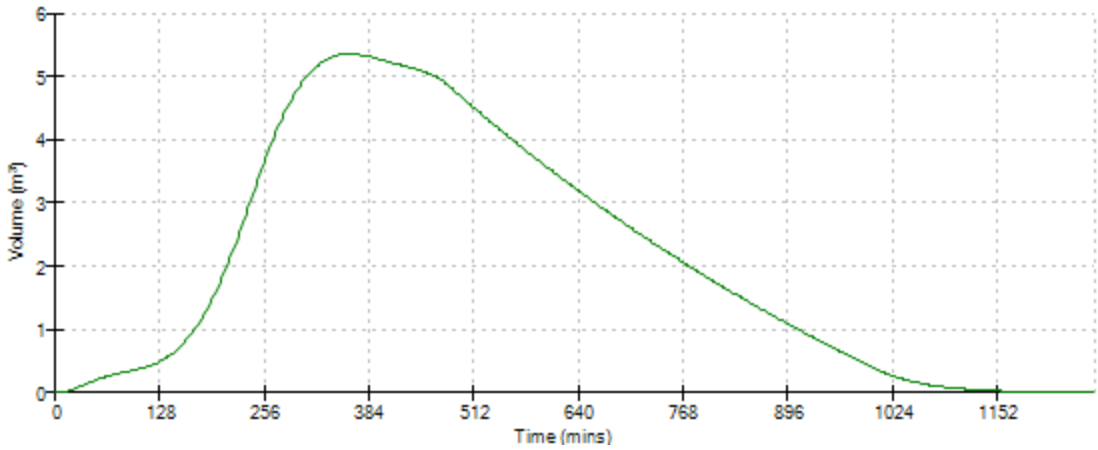
Invert Level (m) 98.000 Safety Factor 3.0
Infiltration Coefficient Base (m/hr) 0.13800 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.13800

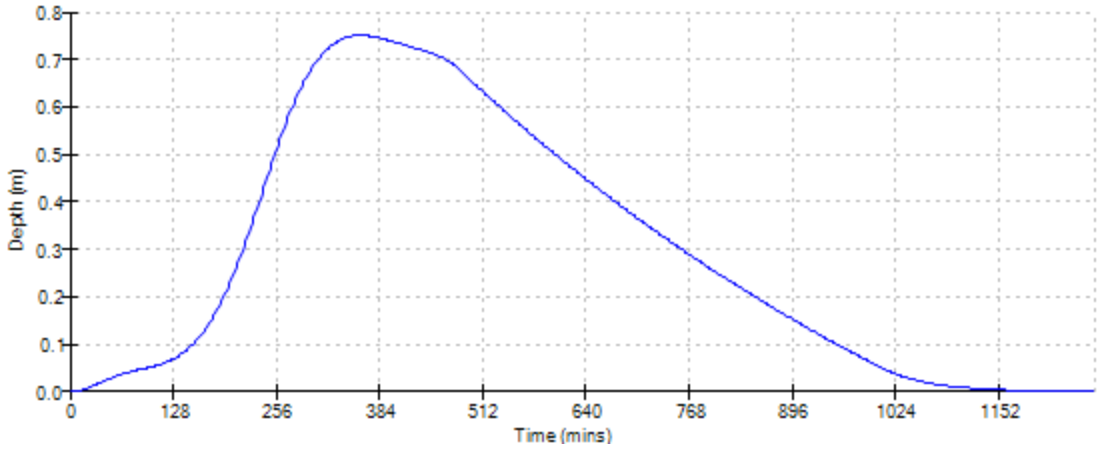
Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	7.5	7.5	0.801	0.0	16.3
0.800	7.5	16.3			

©1982-2020 Innovyze

Event: 480 min Winter







©1982-2020 Innovyze