

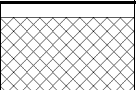
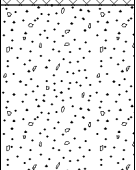
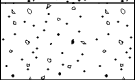
Project BENNION STREET, WREXHAM

Engineer

SUMMIT CARE SERVICES

Trial Pit
Project NoTPA
PN173632

Client SUMMIT CARE SERVICES

Samples and Tests				Strata		Scale 1:50	
Depth	Type	Stratum No	Results	Description	Depth	Legend	
0.60 - 1.10	B			Grass over MADE GROUND: Black gravelly topsoil. Gravel is angular fine to coarse including brick. Occasional polystyrene, insulation material and timber fragments.	G.L.		
0.60 - 1.10	D			Brown and greyish brown gravelly slightly silty fine to coarse SAND. Gravel is subrounded fine to coarse including siltstone and quartz. Below 1.00m, predominantly brown. Low cobble content.	0.50		
1.70 - 2.10	B			Brown sandy slightly silty subrounded fine to coarse GRAVEL including siltstone and quartz. Low cobble content.	1.60		
1.70 - 2.10	D				2.10		
				End of Excavation			

Excavation				Groundwater		
Plant	JCB 3CX	Width (B)	0.65	Depth Observed	Depth of Pit	Details
Date	11/04/2017	Length (C)	1.80			
Shoring	None.	Date Backfilled	11/04/2017			None encountered.
Stability	Stable during excavation.					

Remarks	Soakaway Tests were carried out at depth of 2.10m and the results are presented separately. Backfill details from base of hole: arisings up to ground level.					Logged by DS
Symbols and abbreviations are explained on the accompanying key sheet.						Figure 1 of 1
All dimensions are in metres.	Logged in accordance with BS5930:2015					geotechnics

TRIAL PIT RECORD

Trial Pit

Project BENNION STREET, WREXHAM

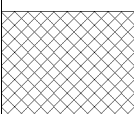
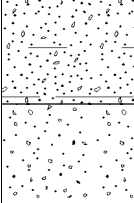
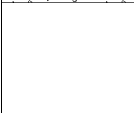
Engineer

SUMMIT CARE SERVICES

Trial Pit
Project No

TPB
PN173632

Client SUMMIT CARE SERVICES

Samples and Tests				Strata	Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	
0.70- 1.20 0.70- 1.20	B D			Grass over MADE GROUND: Brick rubble, including masonry blocks up to 700mm x 300mm with dark greyish brown and black topsoil. Below 0.40m, predominantly topsoil.	G.L. 0.70		
1.80- 2.10 1.80- 2.10	B D			Brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subrounded fine to coarse including siltstone, quartz and occasional coal. Below 0.70m, occasional concrete with metal reinforcement bars and timber.	1.40		
				Brown sandy subrounded fine to coarse GRAVEL including siltstone, quartz and occasional coal. Low cobble content.	2.10		
				End of Excavation			

Excavation				Groundwater		
Plant JCB 3CX	Width (B) 1.00	Depth Observed	Depth of Pit	Details		
Date 11/04/2017	Length (C) 1.90					
Shoring None.	Date Backfilled 11/04/2017			None encountered.		
Stability Slight spalling from ground level.						

Remarks  Soakaway Tests were carried out at depth of 2.10m and the results are presented separately. Logged by DS
Backfill details from base of hole: arisings up to ground level.

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres. Logged in accordance with BS5930:2015

Figure 1 of 1
13/04/2017



INSITU TESTING - Soakaway Test

Form INS009 Rev 6

Project Bennion Street

Trial Pit

TPA

Test No

I

Project No

PN173632

Client

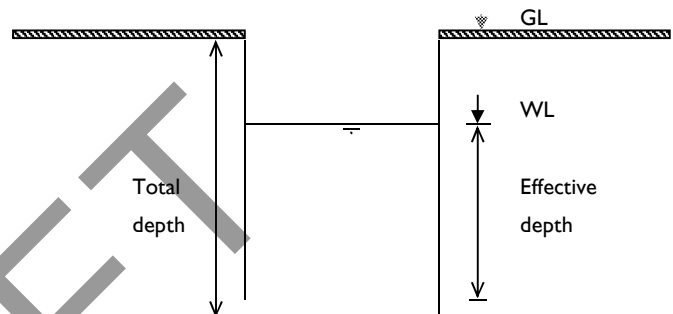
Summit Care Services

Date

11/04/2017

ELAPSED TIME (mins)	DEPTH of water below ground level (m)	HEAD (m)	HEAD (%)
0.00	0.45	1.650	100.0
0.50	0.60	1.500	90.9
1.00	0.75	1.350	81.8
1.50	0.85	1.250	75.8
2.00	0.90	1.200	72.7
2.50	0.95	1.150	69.7
3.00	0.98	1.120	67.9
3.50	1.00	1.100	66.7
4.00	1.03	1.070	64.8
4.50	1.05	1.050	63.6
5.00	1.07	1.030	62.4
6.00	1.09	1.010	61.2
7.00	1.11	0.990	60.0
8.00	1.13	0.970	58.8
9.00	1.15	0.950	57.6
10.00	1.17	0.930	56.4
15.00	1.25	0.850	51.5
20.00	1.33	0.770	46.7
25.00	1.40	0.700	42.4
30.00	1.48	0.620	37.6
35.00	1.54	0.560	33.9
40.00	1.58	0.520	31.5
45.00	1.62	0.480	29.1
50.00	1.660	0.440	26.7
55.00	1.700	0.400	24.2

TRIAL PIT SOAKAWAY



Trial pit length = 1.800 m
 Trial pit width = 0.650 m
 Trial pit depth = 2.100 m
 Effective depth (Head of Water) = 1.650 m

Initial depth from GL	=	0.450m	
% of effective depth	Head (m)	Depth from GL (m)	Time (mins)
75%	1.238	0.863	1.25
25%	0.413	1.688	53.00
Vp75-25	=	0.965	m3
ap50	=	5.213	m2
tp75-25	=	51.750	min
Soil Infiltration, f	=	5.96E-05	m/sec

Depth to top of Granular Fill if used (m bgl) x
 Porosity of Gravel Fill if used (%) = x

Sheet 1

Remarks Data extrapolated beyond 50mins to generate infiltration rate.

GEOTECHNICS

INSITU TESTING - Soakaway Test

Form INS009 Rev 6

Project Bennion Street

Trial Pit

TPA

Test No

I

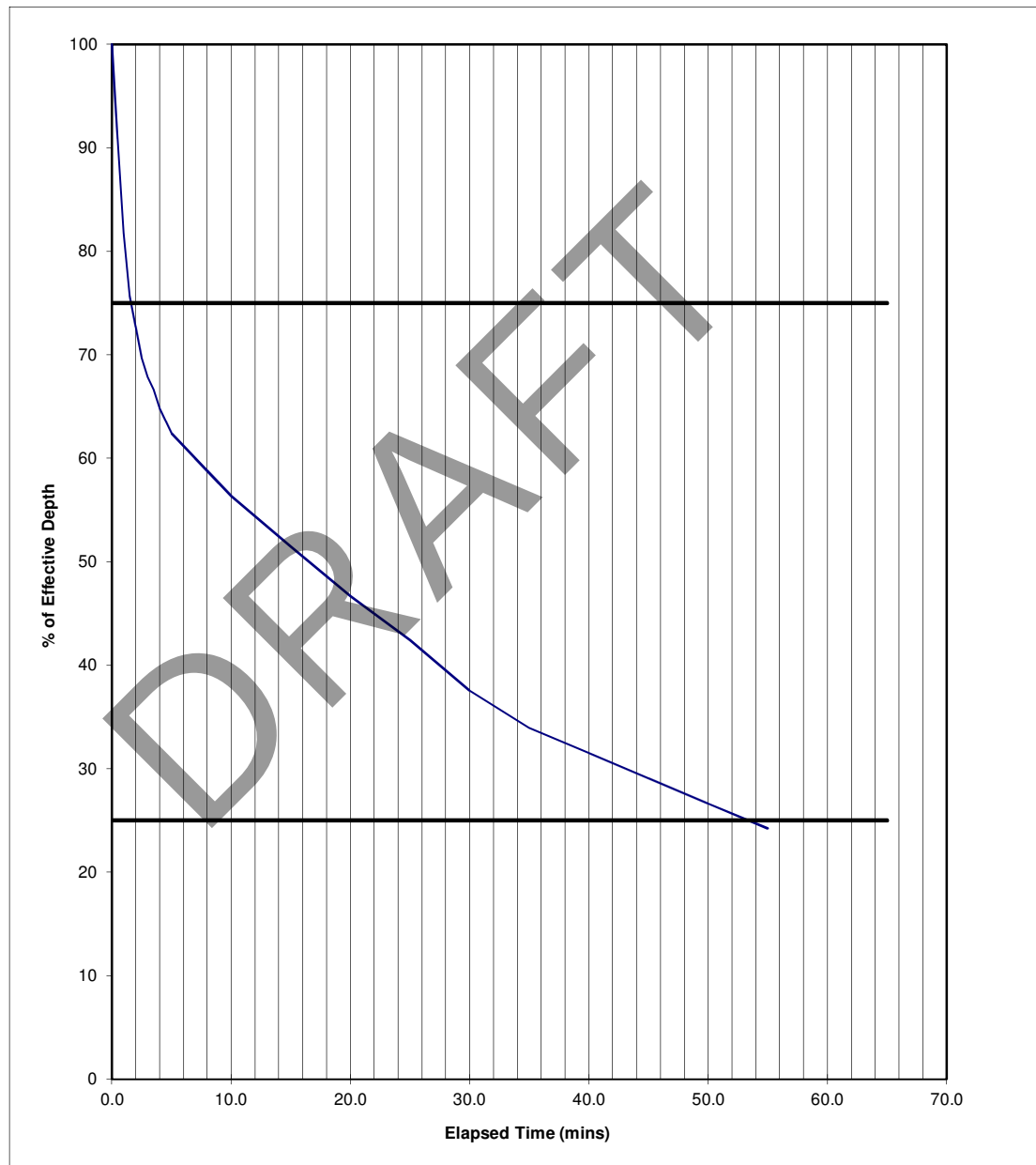
Project No

PN173632

Client Summit Care Services

Date

11/04/2017



tp75	=	1.25
tp25	=	53.00

Remarks Data extrapolated beyond 50mins to generate infiltration rate.

Sheet 2

GEOTECHNICS

INSITU TESTING - Soakaway Test

Form INS009 Rev 6

Project Bennion Street

Trial Pit

TPA

Test No

2

Project No

PN173632

Client

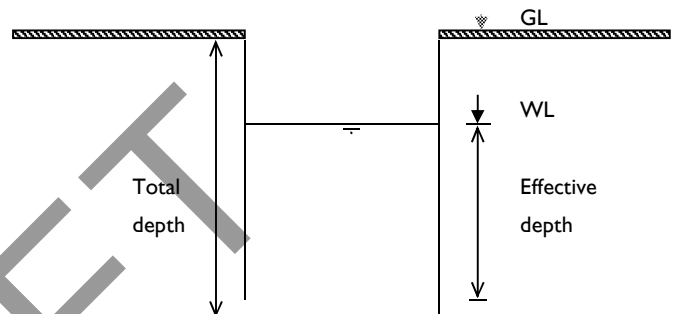
Summit Care Services

Date

11/04/2017

ELAPSED TIME (mins)	DEPTH of water below ground level (m)	HEAD (m)	HEAD (%)
0.00	0.40	1.700	106.3
0.50	0.60	1.500	93.8
1.00	0.70	1.400	87.5
1.50	0.75	1.350	84.4
2.00	0.78	1.320	82.5
2.50	0.80	1.300	81.3
3.00	0.82	1.280	80.0
3.50	0.85	1.250	78.1
4.00	0.88	1.220	76.3
4.50	0.90	1.200	75.0
5.00	0.92	1.180	73.8
6.00	0.95	1.150	71.9
7.00	0.97	1.130	70.6
8.00	1.00	1.100	68.8
9.00	1.03	1.070	66.9
10.00	1.05	1.050	65.6
15.00	1.13	0.970	60.6
20.00	1.17	0.930	58.1
25.00	1.25	0.850	53.1
30.00	1.29	0.810	50.6
35.00	1.34	0.760	47.5
40.00	1.38	0.720	45.0
45.00	1.45	0.650	40.6
50.00	1.530	0.570	35.6
60.00	1.580	0.520	32.5
70.00	1.630	0.470	29.4
80.00	1.700	0.400	25.0

TRIAL PIT SOAKAWAY



Trial pit length = 1.800 m
 Trial pit width = 0.650 m
 Trial pit depth = 2.100 m
 Effective depth (Head of Water) = 1.600 m

Initial depth from GL	=	0.400m	
% of effective depth	Head (m)	Depth from GL (m)	Time (mins)
75%	1.200	0.900	4.25
25%	0.400	1.700	80.00
Vp75-25	=	0.936	m3
ap50	=	5.090	m2
tp75-25	=	75.750	min
Soil Infiltration, f	=	4.05E-05	m/sec

Depth to top of Granular Fill if used (m bgl) x
 Porosity of Gravel Fill if used (%) = x

Sheet 1

Remarks Data extrapolated beyond 70mins to generate infiltration rate.

GEOTECHNICS

INSITU TESTING - Soakaway Test

Form INS009 Rev 6

Project Bennion Street

Trial Pit

TPA

Test No

2

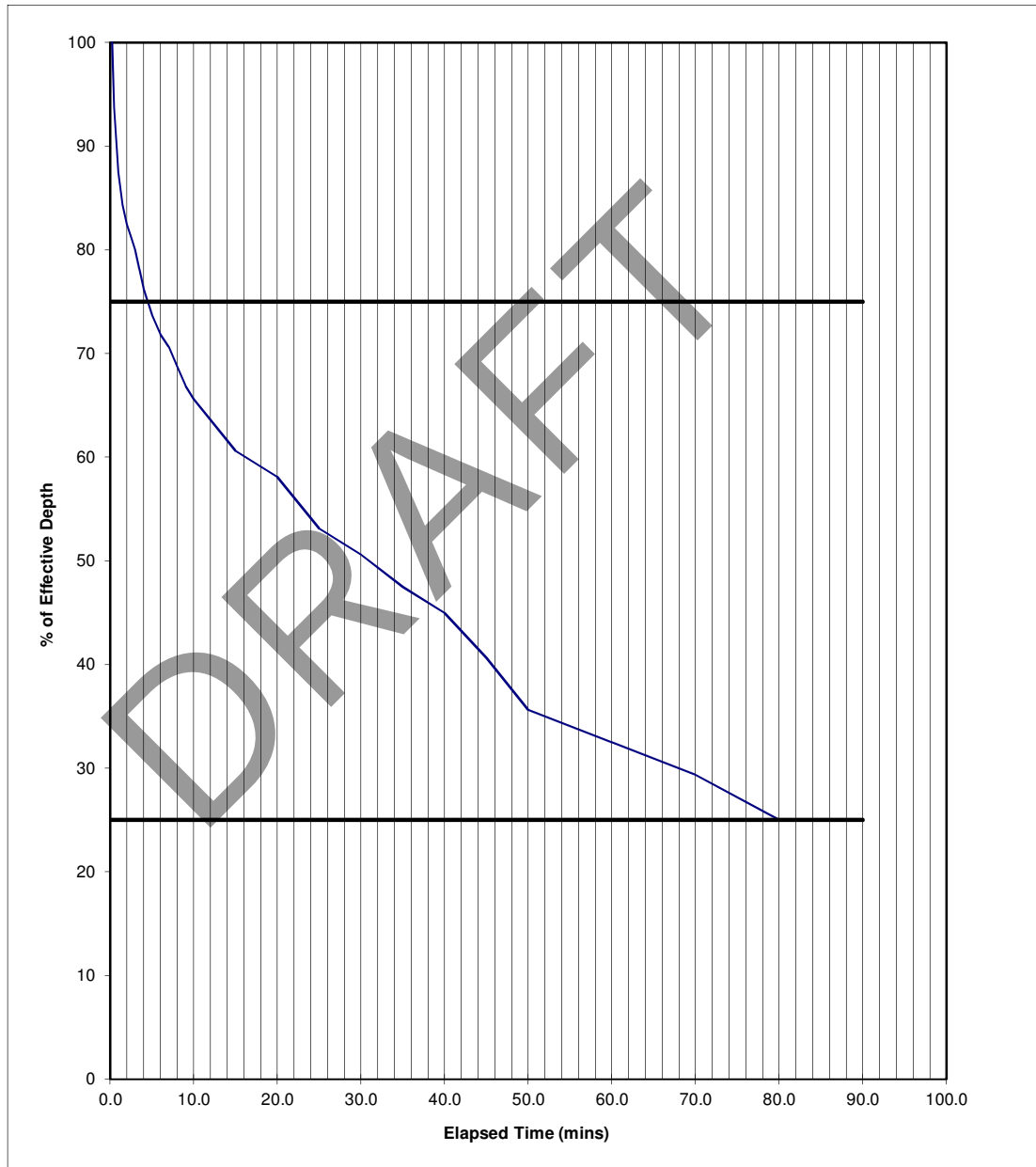
Project No

PN173632

Client Summit Care Services

Date

11/04/2017



tp75	=	4.25
tp25	=	80.00

Remarks Data extrapolated beyond 70mins to generate infiltration rate.

Sheet 2

GEOTECHNICS

INSITU TESTING - Soakaway Test

Form INS009 Rev 6

Project Bennion Street

Trial Pit

TPB

Test No

I

Project No

PN173632

Client

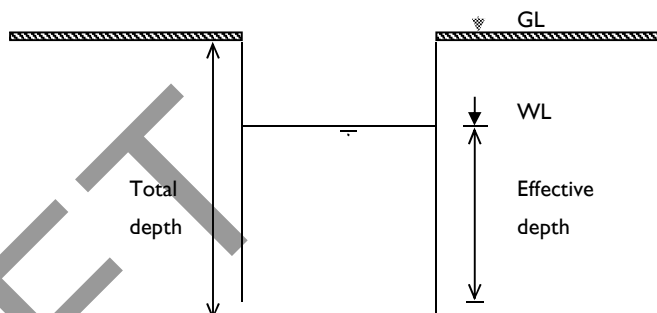
Summit Care Services

Date

11/04/2017

ELAPSED TIME (mins)	DEPTH of water below ground level (m)	HEAD (m)	HEAD (%)
0.00	0.40	1.600	100.0
0.50	0.60	1.400	87.5
1.00	0.65	1.350	84.4
1.50	0.70	1.300	81.3
2.00	0.75	1.250	78.1
2.50	0.80	1.200	75.0
3.00	0.85	1.150	71.9
3.50	0.90	1.100	68.8
4.00	0.95	1.050	65.6
4.50	0.97	1.030	64.4
5.00	1.00	1.000	62.5
6.00	1.05	0.950	59.4
7.00	1.10	0.900	56.3
8.00	1.15	0.850	53.1
9.00	1.20	0.800	50.0
10.00	1.25	0.750	46.9
15.00	1.35	0.650	40.6
20.00	1.45	0.550	34.4
25.00	1.55	0.450	28.1
30.00	1.65	0.350	21.9
35.00	1.75	0.250	15.6

TRIAL PIT SOAKAWAY



Trial pit length = 1.900 m
 Trial pit width = 1.000 m
 Trial pit depth = 2.000 m
 Effective depth (Head of Water) = 1.600 m

Initial depth from GL	=	0.400m	
% of effective depth	Head (m)	Depth from GL (m)	Time (mins)
75%	1.200	0.800	2.50
25%	0.400	1.600	27.50
Vp75-25	=	1.520	m3
ap50	=	6.540	m2
tp75-25	=	25.000	min
Soil Infiltration, f	=	1.55E-04	m/sec

Depth to top of Granular Fill if used (m bgl) x
 Porosity of Gravel Fill if used (%) = x

Sheet 1

Remarks

GEOTECHNICS

INSITU TESTING - Soakaway Test

Form INS009 Rev 6

Project Bennion Street

Trial Pit

TPB

Test No

I

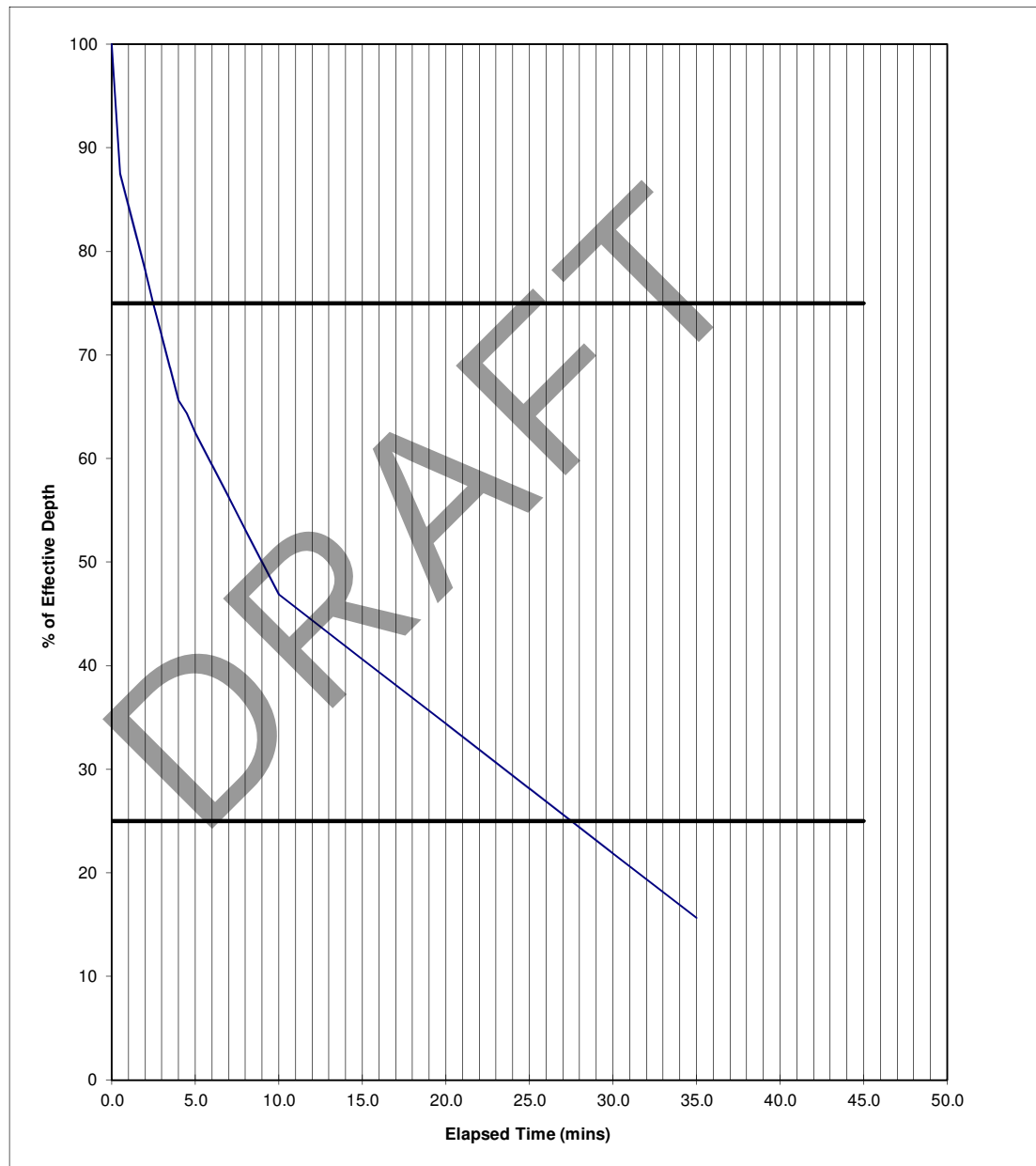
Project No

PN173632

Client Summit Care Services

Date

11/04/2017



tp75	=	2.50
tp25	=	27.50

Remarks

Sheet 2

GEOTECHNICS

INSITU TESTING - Soakaway Test

Form INS009 Rev 6

Project Bennion Street

Trial Pit TPB

Test No 2

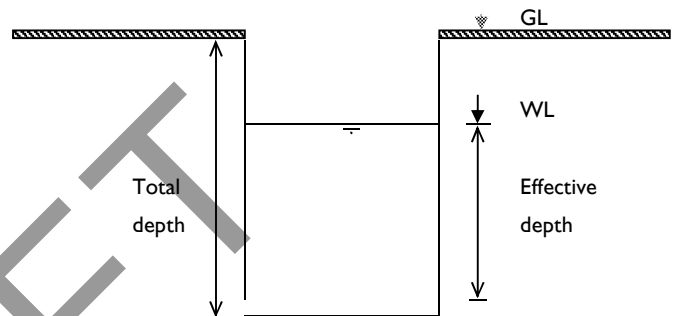
Project No PN173632

Client Summit Care Services

Date 11/04/2017

ELAPSED TIME (mins)	DEPTH of water below ground level (m)	HEAD (m)	HEAD (%)
0.00	0.40	1.600	100.0
0.50	0.55	1.450	90.6
1.00	0.60	1.400	87.5
1.50	0.65	1.350	84.4
2.00	0.69	1.310	81.9
2.50	0.70	1.300	81.3
3.00	0.75	1.250	78.1
3.50	0.77	1.230	76.9
4.00	0.80	1.200	75.0
4.50	0.83	1.170	73.1
5.00	0.87	1.130	70.6
6.00	0.90	1.100	68.8
7.00	0.92	1.080	67.5
8.00	0.95	1.050	65.6
9.00	0.97	1.030	64.4
10.00	1.00	1.000	62.5
15.00	1.10	0.900	56.3
20.00	1.20	0.800	50.0
25.00	1.27	0.730	45.6
30.00	1.35	0.650	40.6
35.00	1.42	0.580	36.3
40.00	1.47	0.530	33.1
45.00	1.51	0.490	30.6
50.00	1.550	0.450	28.1
60.00	1.580	0.420	26.3
70.00	1.610	0.390	24.4

TRIAL PIT SOAKAWAY



Trial pit length = 1.900 m
 Trial pit width = 1.000 m
 Trial pit depth = 2.000 m
 Effective depth (Head of Water) = 1.600 m

Initial depth from GL	=	0.400m	
% of effective depth	Head (m)	Depth from GL (m)	Time (mins)
75%	1.200	0.800	4.00
25%	0.400	1.600	66.50
Vp75-25	=	1.520	m3
ap50	=	6.540	m2
tp75-25	=	62.500	min
Soil Infiltration, f	=	6.20E-05	m/sec

Depth to top of Granular Fill if used (m bgl) x
 Porosity of Gravel Fill if used (%) = x

Sheet 1

Remarks

GEOTECHNICS

INSITU TESTING - Soakaway Test

Form INS009 Rev 6

Project Bennion Street

Trial Pit

TPB

Test No

2

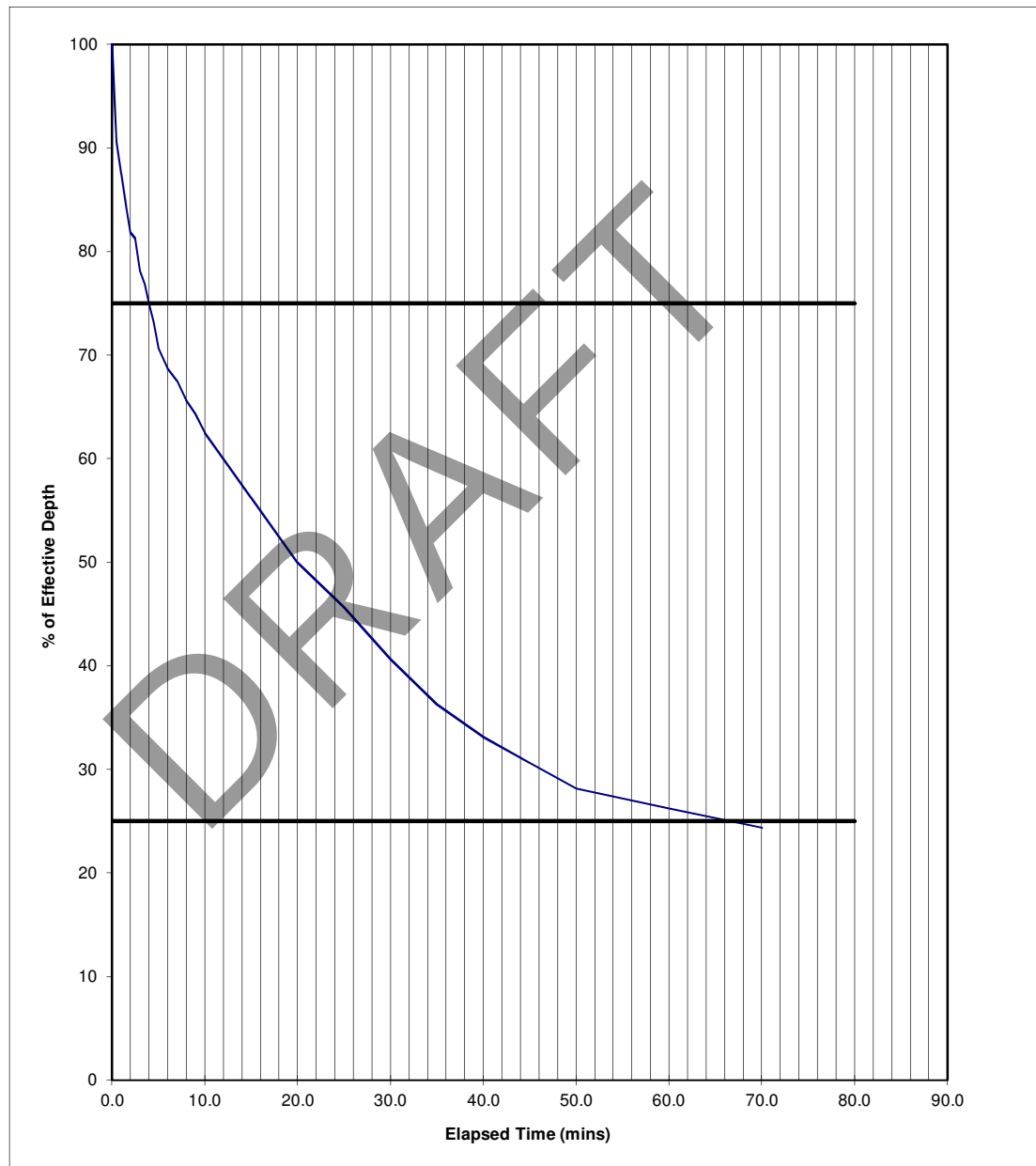
Project No

PN173632

Client Summit Care Services

Date

11/04/2017



tp75	=	4.00
tp25	=	66.50

Remarks

Sheet 2

GEOTECHNICS