

Site Name:	Nine Mile Ride
Site Reference:	A12057
Test Date:	19/04/2023



Trial Pit Identification:	SA101
Trial Pit Length (m):	2.40
Trial Pit Width (m):	0.35
Trial Pit Depth (m):	1.60
Groundwater Level (m bgl):	N/A

SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

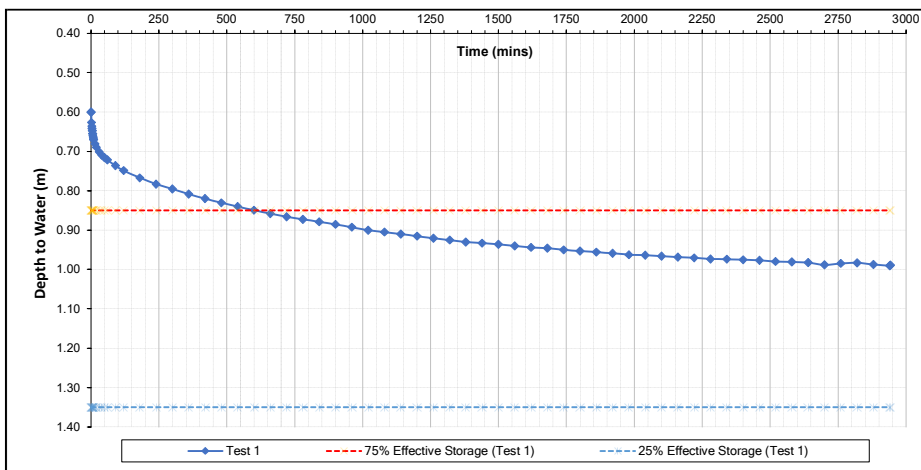
Geology Description:
0.00-0.20m bgl Brown slightly silty fine to coarse SAND with frequent roots and rootlets.
0.20-0.75m bgl Grey slightly silty fine to coarse SAND.
0.75-1.60m bgl Green mottled yellowish orange very sandy SILT.

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.00	0.00	0.60
	1.00	0.60
75% Effective Storage Depth (m):	2.00	0.63
	3.00	0.64
	4.00	0.64
(i.e. Depth Below Ground Level) (m):	5.00	0.65
	6.00	0.65
	7.00	0.66
25% Effective Storage Depth (m):	8.00	0.66
	9.00	0.67
	10.00	0.67
(i.e. Depth Below Ground Level) (m):	15.00	0.68
	20.00	0.69
	30.00	0.70
Effective Storage Depth Across 75% - 25% (m):	40.00	0.71
	50.00	0.72
	60.00	0.72
Time to Fall to 75% Effective Depth (min):	90.00	0.74
	120.00	0.75
	180.00	0.77
Time to Fall to 25% Effective Depth (min):	240.00	0.78
	300.00	0.80
	360.00	0.81
Vp75%-25% (m3):	420.00	0.82
	480.00	0.83
	540.00	0.84
As50% (m2):	2760.00	0.98
	2820.00	0.98
	2880.00	0.99
Tp75%-25% (mins):	2940.00	0.99
	2942.00	0.99

DESIGN SOIL INFILTRATION RATE, f (m/s):	N/A
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Comments:

Testing was carried out over 2 days 1 hour and 2 minutes. During the duration of the test, the required intercept failed to be reached. Therefore the test is considered not to have been successful and a design soil infiltration rate could not be calculated.



Site Engineer:	Date:
JR	19/04/2023

Checked and Approved By:	Date:
LB	28/04/2023

Location
SA101

Site Name:	Nine Mile Ride
Site Reference:	A12057
Test Date:	19/04/2023



Trial Pit Identification:	SA102
Trial Pit Length (m):	2.20
Trial Pit Width (m):	0.35
Trial Pit Depth (m):	2.00
Groundwater Level (m bgl):	1.85

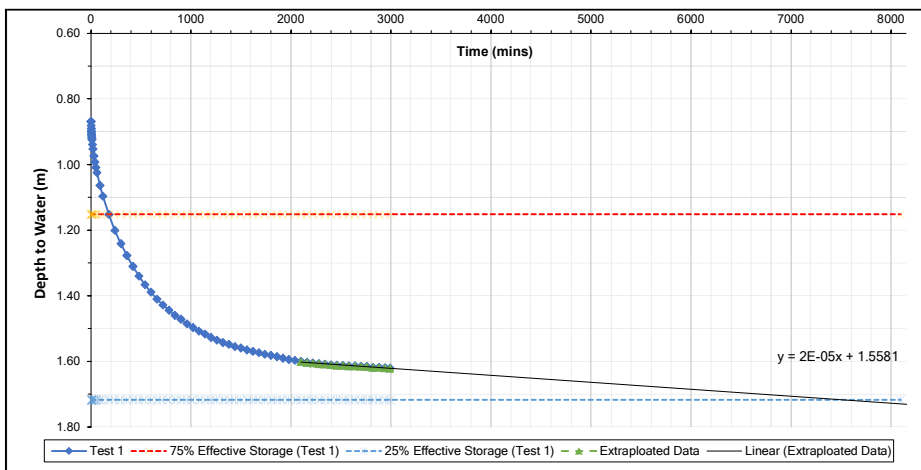
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.30m Brown and grey slightly silty fine to coarse SAND with occasional roots and rootlets.
0.30-0.40m Orangeish brown slightly silty fine to coarse SAND with occasional roots and rootlets.
0.40-0.97m Grey slightly silty fine to coarse SAND.
0.97-2.00m Soft green mottled orangeish brown very sandy SILT. Sand is fine to coarse.

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.13	0.00	0.87
	1.00	0.87
75% Effective Storage Depth (m):	2.00	0.88
	3.00	0.89
	4.00	0.90
(i.e. Depth Below Ground Level) (m):	5.00	0.90
	6.00	0.91
	7.00	0.91
25% Effective Storage Depth (m):	8.00	0.92
	9.00	0.92
	10.00	0.92
(i.e. Depth Below Ground Level) (m):	15.00	0.94
	20.00	0.95
	30.00	0.97
Effective Storage Depth Across 75% - 25% (m):	40.00	0.99
	50.00	1.01
	60.00	1.02
Time to Fall to 75% Effective Depth (min):	90.00	1.06
	120.00	1.10
	180.00	1.15
Time to Fall to 25% Effective Depth (min):	240.00	1.20
	300.00	1.24
	360.00	1.28
Vp75%-25% (m3):	420.00	1.31
	480.00	1.34
	540.00	1.37
As50% (m2):	600.00	1.39
	2820.00	1.62
	2880.00	1.62
Tp75%-25% (mins):	2940.00	1.62
	2992.00	1.62
	8095.00	1.72

DESIGN SOIL INFILTRATION RATE, f (m/s):	2.54E-07
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Comments:
Testing was carried out over 2 days 1 hour and 41 minutes (2992 minutes) and did not fall to the required 25% effective depth. Extrapolated data has been used to predict the 'Time to Fall to 25% Effective Depth' in order to generate an indicative Design Soil Infiltration Rate.



Site Engineer:	Date:
JR	19/04/2023

Checked and Approved By:	Date:
LB	28/04/2023

Location
SA102

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Site Name:	Nine Mile Ride
Site Reference:	A12057-2
Test Date:	17/05/2023



Trial Pit Identification:	SA201
Trial Pit Length (m):	1.00
Trial Pit Width (m):	0.30
Trial Pit Depth (m):	1.30
Groundwater Level (m bgl):	N/A

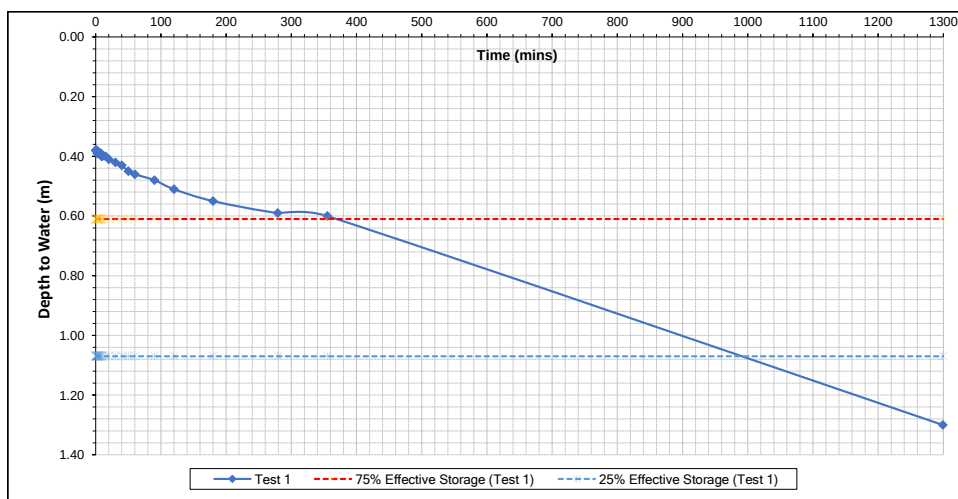
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.05m bgl: Dark brown fine to medium SAND with frequent rootlets.
0.05-0.20m bgl: Grey fine to coarse SAND with frequent rootlets.
0.20-0.40m bgl: Brown fine to coarse SAND with frequent rootlets.
0.40-1.40 m bgl: Orangeish brown and grey silty fine to coarse SAND.

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
0.92	0.00	0.38
	0.25	0.38
75% Effective Storage Depth (m):	0.50	0.38
0.69	0.75	0.38
	1.00	0.38
(i.e. Depth Below Ground Level) (m):	1.50	0.38
0.61	2.00	0.38
	2.50	0.39
25% Effective Storage Depth (m):	3.00	0.39
0.23	3.50	0.39
	4.00	0.39
(i.e. Depth Below Ground Level) (m):	4.50	0.39
1.07	5.00	0.39
	6.00	0.39
Effective Storage Depth Across 75% - 25% (m):	7.00	0.39
0.46	8.00	0.39
	9.00	0.40
Time to Fall to 75% Effective Depth (min):	10.00	0.40
370	15.00	0.40
	20.00	0.41
Time to Fall to 25% Effective Depth (min):	30.00	0.42
990	40.00	0.43
	50.00	0.45
Vp75%-25% (m3):	60.00	0.46
0.14	90.00	0.48
	120.00	0.51
As50% (m2):	180.00	0.55
1.50	279.00	0.59
	355.00	0.60
Tp75%-25% (mins):	1299.00	1.30
620		

DESIGN SOIL INFILTRATION RATE, f (m/s):	2.48E-06
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Comments:
Minor pit collapse from 1.40 to 1.30m bgl during Test 1. Please note, the test was left to run overnight and therefore the calculated 'Soil Infiltration Rate' is indicative.



Site Engineer:	Date:
JR	17/05/2023

Checked and Approved By:	Date:
HL	24/05/2023

Location
SA201

Site Name:	Nine Mile Ride
Site Reference:	A12057-2
Test Date:	18/05/2023



Trial Pit Identification:	SA201
Trial Pit Length (m):	1.00
Trial Pit Width (m):	0.30
Trial Pit Depth (m):	1.30
Groundwater Level (m bgl):	N/A

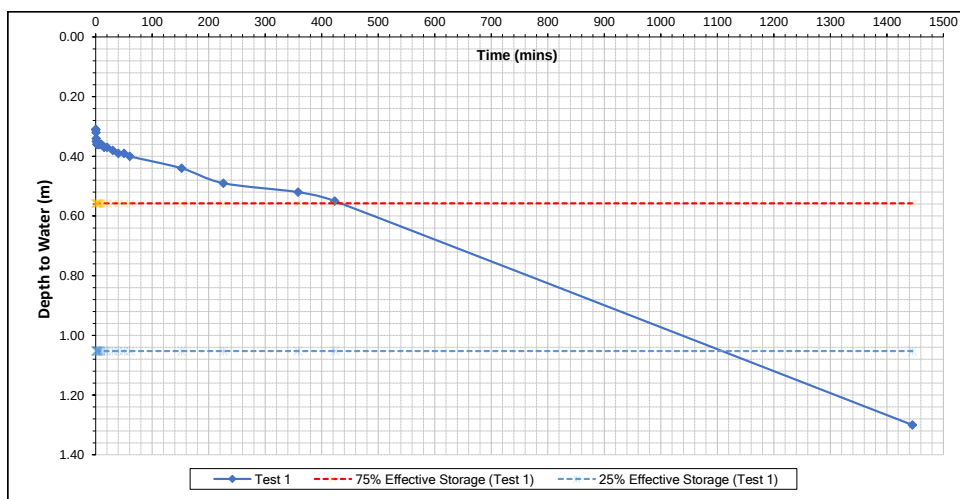
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.05m bgl: Dark brown fine to medium SAND with frequent rootlets.
0.05-0.20m bgl: Grey fine to coarse SAND with frequent rootlets.
0.20-0.40m bgl: Brown fine to coarse SAND with frequent rootlets.
0.40-1.40 m bgl: Orangeish brown and grey silty fine to coarse SAND.

Test Parameters	TEST 2	
Effective Storage Depth (m):	Time (min)	Depth (m)
0.99	0.00	0.31
	0.25	0.31
75% Effective Storage Depth (m):	0.50	0.32
0.74	0.75	0.34
	1.00	0.35
(i.e. Depth Below Ground Level) (m):	1.50	0.35
0.56	2.00	0.36
	2.50	0.36
25% Effective Storage Depth (m):	3.00	0.36
0.25	3.50	0.36
	4.00	0.36
(i.e. Depth Below Ground Level) (m):	4.50	0.36
1.05	5.00	0.36
	6.00	0.36
Effective Storage Depth Across 75% - 25% (m):	7.00	0.36
0.50	8.00	0.36
	9.00	0.36
Time to Fall to 75% Effective Depth (min):	10.00	0.36
430	15.00	0.37
	20.00	0.37
Time to Fall to 25% Effective Depth (min):	30.00	0.38
1110	40.00	0.39
	50.00	0.39
Vp75%-25% (m3):	60.00	0.40
0.15	152.00	0.44
	226.00	0.49
As50% (m2):	358.00	0.52
1.59	423.00	0.55
	1445.00	1.30
Tp75%-25% (mins):		
680		

DESIGN SOIL INFILTRATION RATE, f (m/s):	2.29E-06
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Comments:
Please note, the test was left to run overnight and therefore the calculated 'Soil Infiltration Rate' is indicative.



Site Engineer:	Date:
JR	18/05/2023

Checked and Approved By:	Date:
HL	24/05/2023

Location
SA201

Site Name:	Nine Mile Ride
Site Reference:	A12057-2
Test Date:	19/05/2023



Trial Pit Identification:	SA201
Trial Pit Length (m):	1.00
Trial Pit Width (m):	0.30
Trial Pit Depth (m):	1.25
Groundwater Level (m bgl):	N/A

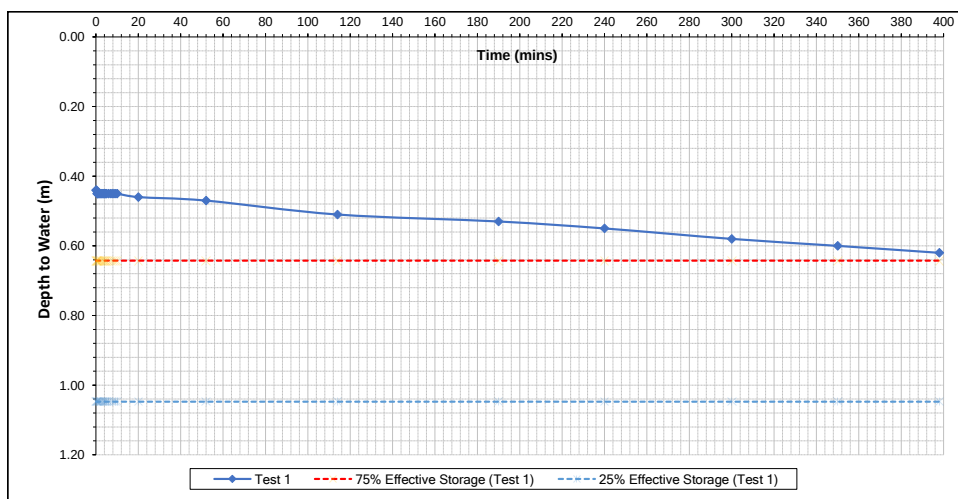
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.05m bgl: Dark brown fine to medium SAND with frequent rootlets. 0.05-0.20m bgl: Grey fine to coarse SAND with frequent rootlets. 0.20-0.40m bgl: Brown fine to coarse SAND with frequent rootlets. 0.40-1.40 m bgl: Orangeish brown and grey silty fine to coarse SAND.

Test Parameters	TEST 3	
Effective Storage Depth (m):	Time (min)	Depth (m)
0.81	0.00	0.44
	0.25	0.44
75% Effective Storage Depth (m):	0.50	0.45
0.61	0.75	0.45
	1.00	0.45
(i.e. Depth Below Ground Level) (m):	1.50	0.45
0.64	2.00	0.45
	2.50	0.45
25% Effective Storage Depth (m):	3.00	0.45
0.20	3.50	0.45
	4.00	0.45
(i.e. Depth Below Ground Level) (m):	4.50	0.45
1.05	5.00	0.45
	6.00	0.45
Effective Storage Depth Across 75% - 25% (m):	7.00	0.45
0.41	8.00	0.45
	9.00	0.45
Time to Fall to 75% Effective Depth (min):	10.00	0.45
N/A	20.00	0.46
	52.00	0.47
Time to Fall to 25% Effective Depth (min):	114.00	0.51
N/A	190.00	0.53
	240.00	0.55
Vp75%-25% (m3):	300.00	0.58
0.12	350.00	0.60
	398.00	0.62
As50% (m2):		
1.35		
Tp75%-25% (mins):		
N/A		

DESIGN SOIL INFILTRATION RATE, f (m/s):	N/A
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Comments:
Minor pit collapse from 1.30 to 1.25m bgl during Test 3. The required interception depths were not reached during Test 3, and as such a soil infiltration rate was not calculated. As the 75% effective storage depth was not met during the test, the data has not been extrapolated.



Site Engineer:	Date:
AD	19/05/2023

Checked and Approved By:	Date:
HL	24/05/2023

Location
SA201

Site Name:	Nine Mile Ride
Site Reference:	A12057-2
Test Date:	17/05/2023



Trial Pit Identification:	SA202
Trial Pit Length (m):	1.00
Trial Pit Width (m):	0.30
Trial Pit Depth (m):	1.20
Groundwater Level (m bgl):	N/A

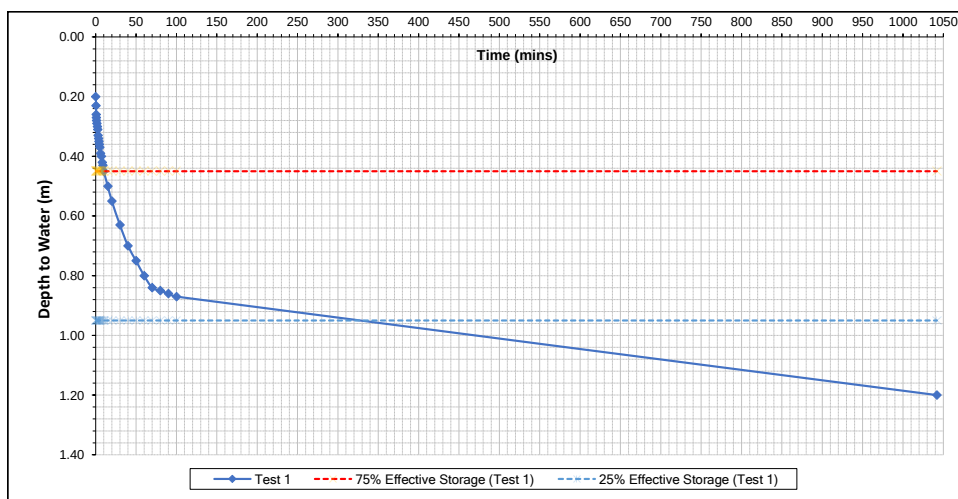
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.20m bgl: Brownish grey fine to medium SAND with frequent rootlets.
0.20-0.40m bgl: Orangeish brown slightly silty fine to coarse SAND with frequent rootlets.
0.40-0.80m bgl: Brown and orange silty fine to coarse SAND.
0.80-1.20 m bgl: Orangeish yellow fine to coarse SAND.

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.00	0.00	0.20
	0.25	0.23
75% Effective Storage Depth (m):	0.50	0.26
0.75	0.75	0.27
	1.00	0.28
(i.e. Depth Below Ground Level) (m):	1.50	0.29
0.45	2.00	0.30
25% Effective Storage Depth (m):	2.50	0.31
0.25	3.00	0.33
	3.50	0.34
	4.00	0.35
(i.e. Depth Below Ground Level) (m):	4.50	0.36
0.95	5.00	0.37
	6.00	0.39
Effective Storage Depth Across 75% - 25% (m):	7.00	0.40
0.50	8.00	0.42
	9.00	0.43
Time to Fall to 75% Effective Depth (min):	10.00	0.45
13	15.00	0.50
	20.00	0.55
Time to Fall to 25% Effective Depth (min):	30.00	0.63
540	40.00	0.70
	50.00	0.75
Vp75%-25% (m3):	60.00	0.80
0.15	70.00	0.84
	80.00	0.85
As50% (m2):	90.00	0.86
1.60	100.00	0.87
	1042.00	1.20
Tp75%-25% (mins):		
527		

DESIGN SOIL INFILTRATION RATE, f (m/s):	2.96E-06
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Comments:
Please note, the test was left to run overnight and therefore the calculated 'Soil Infiltration Rate' is indicative and conservative.



Site Engineer:	Date:
JR	17/05/2023

Checked and Approved By:	Date:
HL	24/05/2023

Location
SA202

Site Name:	Nine Mile Ride
Site Reference:	A12057-2
Test Date:	18/05/2023



Trial Pit Identification:	SA202
Trial Pit Length (m):	1.00
Trial Pit Width (m):	0.30
Trial Pit Depth (m):	1.20
Groundwater Level (m bgl):	N/A

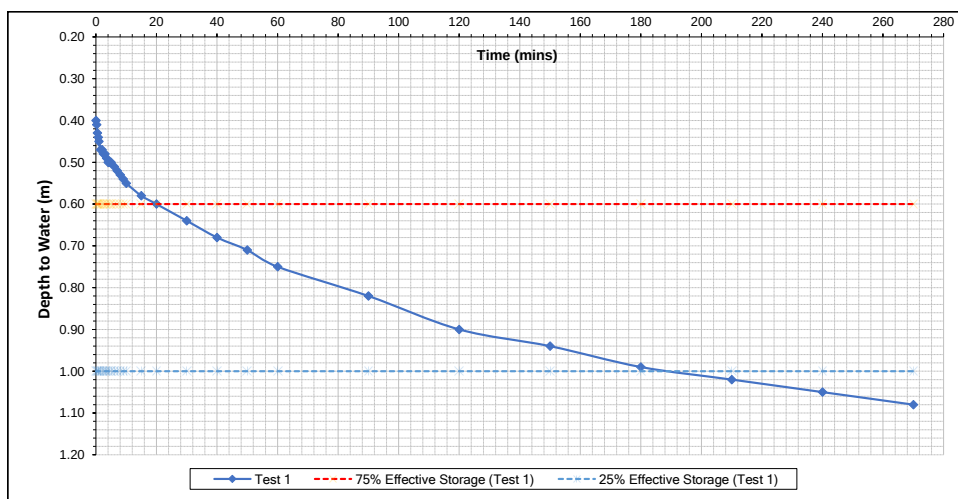
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.20m bgl: Brownish grey fine to medium SAND with frequent rootlets.
0.20-0.40m bgl: Orangeish brown slightly silty fine to coarse SAND with frequent rootlets.
0.40-0.80m bgl: Brown and orange silty fine to coarse SAND.
0.80-1.20 m bgl: Orangeish yellow fine to coarse SAND.

Test Parameters	TEST 2	
Effective Storage Depth (m):	Time (min)	Depth (m)
0.80	0.00	0.40
	0.25	0.41
75% Effective Storage Depth (m):	0.50	0.43
0.60	0.75	0.44
	1.00	0.45
(i.e. Depth Below Ground Level) (m):	1.50	0.47
0.60	2.00	0.47
	2.50	0.48
25% Effective Storage Depth (m):	3.00	0.48
0.20	3.50	0.49
	4.00	0.50
(i.e. Depth Below Ground Level) (m):	4.50	0.50
1.00	5.00	0.50
	6.00	0.51
Effective Storage Depth Across 75% - 25% (m):	7.00	0.52
0.40	8.00	0.53
	9.00	0.54
Time to Fall to 75% Effective Depth (min):	10.00	0.55
28	15.00	0.58
	20.00	0.60
Time to Fall to 25% Effective Depth (min):	30.00	0.64
270	40.00	0.68
	50.00	0.71
Vp75%-25% (m3):	60.00	0.75
0.12	90.00	0.82
	120.00	0.90
As50% (m2):	150.00	0.94
1.34	180.00	0.99
	210.00	1.02
Tp75%-25% (mins):	240.00	1.05
242	270.00	1.08

DESIGN SOIL INFILTRATION RATE, f (m/s):	6.17E-06
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Comments:



Site Engineer:	Date:
JR	18/05/2023

Checked and Approved By:	Date:
HL	24/05/2023

Location
SA202

Site Name:	Nine Mile Ride
Site Reference:	A12057-2
Test Date:	19/05/2023



Trial Pit Identification:	SA202
Trial Pit Length (m):	1.00
Trial Pit Width (m):	0.30
Trial Pit Depth (m):	1.20
Groundwater Level (m bgl):	N/A

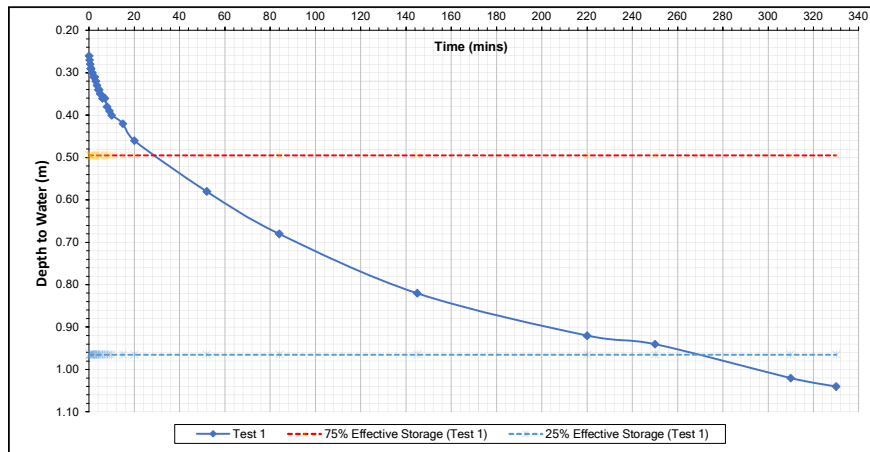
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.20m bgl: Brownish grey fine to medium SAND with frequent rootlets.
0.20-0.40m bgl: Orangeish brown slightly silty fine to coarse SAND with frequent rootlets.
0.40-0.80m bgl: Brown and orange silty fine to coarse SAND.
0.80-1.20 m bgl: Orangeish yellow fine to coarse SAND.

Test Parameters	TEST 3	
Effective Storage Depth (m):	Time (min)	Depth (m)
0.94	0.00	0.26
	0.25	0.27
75% Effective Storage Depth (m):	0.50	0.28
0.71	0.75	0.29
	1.00	0.29
(i.e. Depth Below Ground Level) (m):	1.50	0.30
0.50	2.00	0.31
	2.50	0.31
25% Effective Storage Depth (m):	3.00	0.32
0.24	3.50	0.33
	4.00	0.34
(i.e. Depth Below Ground Level) (m):	4.50	0.34
0.97	5.00	0.35
	6.00	0.36
Effective Storage Depth Across 75% - 25% (m):	7.00	0.36
0.47	8.00	0.38
	9.00	0.39
Time to Fall to 75% Effective Depth (min):	10.00	0.40
36	15.00	0.42
	20.00	0.46
Time to Fall to 25% Effective Depth (min):	52.00	0.58
330	84.00	0.68
	145.00	0.82
Vp75%-25% (m3):	220.00	0.92
0.14	250.00	0.94
	310.00	1.02
As50% (m2):	330.00	1.04
1.52		
Tp75%-25% (mins):		
294		

DESIGN SOIL INFILTRATION RATE, f (m/s):	5.25E-06
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Comments:



Site Engineer:	Date:
AD	19/05/2023

Checked and Approved By:	Date:
HL	24/05/2023

Location
SA202

Site Name:	Nine Mile Ride
Site Reference:	A12057-5
Test Date:	05/02/2025 - 06/02/2025



Trial Pit Identification:	SA301
Trial Pit Length (m):	1.60
Trial Pit Width (m):	0.35
Trial Pit Depth (m):	1.10
Groundwater Level (m bgl):	N/A

GRAVEL FILLED SOIL INFILTRATION RATE TEST

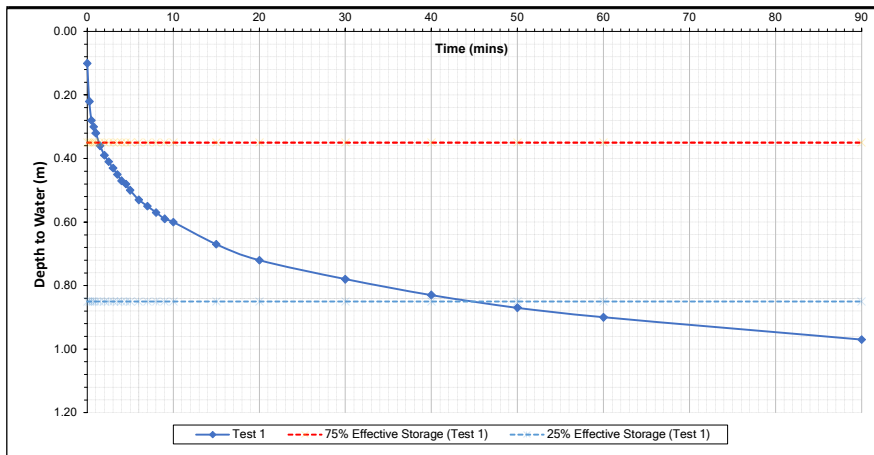
20mm Clean Gravel used with 30% free void space assumed
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.10m bgl: Grass over dark greyish brown silty fine to coarse SAND with rootlets. [TOPSOIL]
0.10-0.70m bgl: Light greyish brown silty fine to medium SAND. [CAMBERLEY SAND FORMATION]
0.70-1.10m bgl: Orangeish brown mottled brown and yellowish brown slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [WINDLESHAM FORMATION]

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.00	0.00	0.10
	0.25	0.22
75% Effective Storage Depth (m):	0.50	0.28
0.75	0.75	0.30
	1.00	0.32
(i.e. Depth Below Ground Level) (m):	1.50	0.36
0.35	2.00	0.39
	2.50	0.41
25% Effective Storage Depth (m):	3.00	0.43
0.25	3.50	0.45
	4.00	0.47
(i.e. Depth Below Ground Level) (m):	4.50	0.48
0.85	5.00	0.50
	6.00	0.53
Effective Storage Depth Across 75% - 25% (m):	7.00	0.55
0.50	8.00	0.57
	9.00	0.59
Time to Fall to 75% Effective Depth (min):	10.00	0.60
1.4	15.00	0.67
	20.00	0.72
Time to Fall to 25% Effective Depth (min):	30.00	0.78
45	40.00	0.83
	50.00	0.87
30%(Vp75%-25%) (m3):	60.00	0.90
0.08	90.00	0.97
As50% (m2):		
2.51		
Tp75%-25% (mins):		
43.6		

DESIGN SOIL INFILTRATION RATE, f (m/s):	1.28E-05
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Comments:



Site Engineer:	Date:
JW	05/02/2025

Checked and Approved By:	Date:
HS	25/02/2025

Location
SA301

Site Name:	Nine Mile Ride
Site Reference:	A12057-5
Test Date:	05/02/2025 - 06/02/2025



Trial Pit Identification:	SA301
Trial Pit Length (m):	1.60
Trial Pit Width (m):	0.35
Trial Pit Depth (m):	1.10
Groundwater Level (m bgl):	N/A

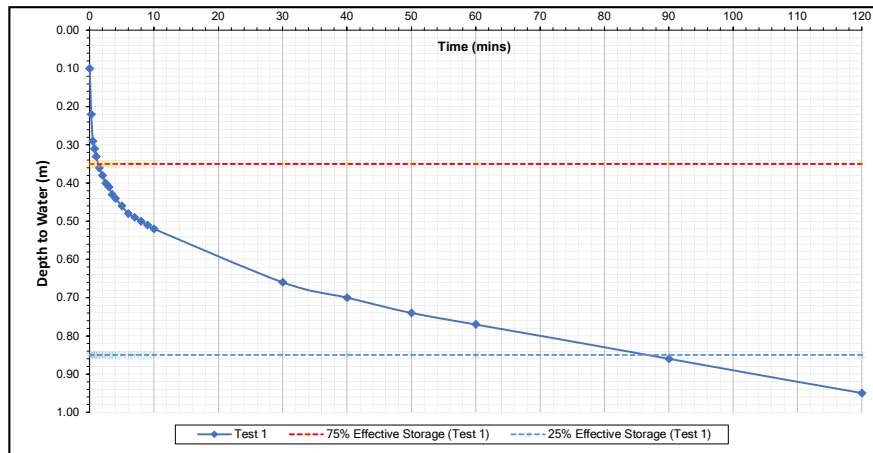
GRAVEL FILLED SOIL INFILTRATION RATE TEST
20mm Clean Gravel used with 30% free void space assumed
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.10m bgl: Grass over dark greyish brown silty fine to coarse SAND with rootlets. [TOPSOIL]
0.10-0.70m bgl: Light greyish brown silty fine to medium SAND. [CAMBERLEY SAND FORMATION]
0.70-1.10m bgl: Orangeish brown mottled brown and yellowish brown slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [WINDLESHAM FORMATION]

Test Parameters	TEST 2	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.00	0.00	0.10
	0.25	0.22
75% Effective Storage Depth (m):	0.50	0.29
	0.75	0.31
	1.00	0.33
(i.e. Depth Below Ground Level) (m):	1.50	0.36
	2.00	0.38
	2.50	0.40
25% Effective Storage Depth (m):	3.00	0.41
	3.50	0.43
	4.00	0.44
(i.e. Depth Below Ground Level) (m):	5.00	0.46
	6.00	0.48
	7.00	0.49
Effective Storage Depth Across 75% - 25% (m):	8.00	0.50
	9.00	0.51
	10.00	0.52
Time to Fall to 75% Effective Depth (min):	30.00	0.66
	40.00	0.70
	50.00	0.74
Time to Fall to 25% Effective Depth (min):	60.00	0.77
	90.00	0.86
	120.00	0.95
30%(Vp75%-25%) (m3):		
	0.08	
As50% (m2):		
	2.51	
Tp75%-25% (mins):		
	85.55	

DESIGN SOIL INFILTRATION RATE, f (m/s):	6.52E-06
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Comments:



Site Engineer:	Date:
JW	06/02/2025

Checked and Approved By:	Date:
HS	25/02/2025

Location
SA301

Site Name:	Nine Mile Ride
Site Reference:	A12057-5
Test Date:	05/02/2025 - 06/02/2025



Trial Pit Identification:	SA301
Trial Pit Length (m):	1.60
Trial Pit Width (m):	0.35
Trial Pit Depth (m):	1.10
Groundwater Level (m bgl):	N/A

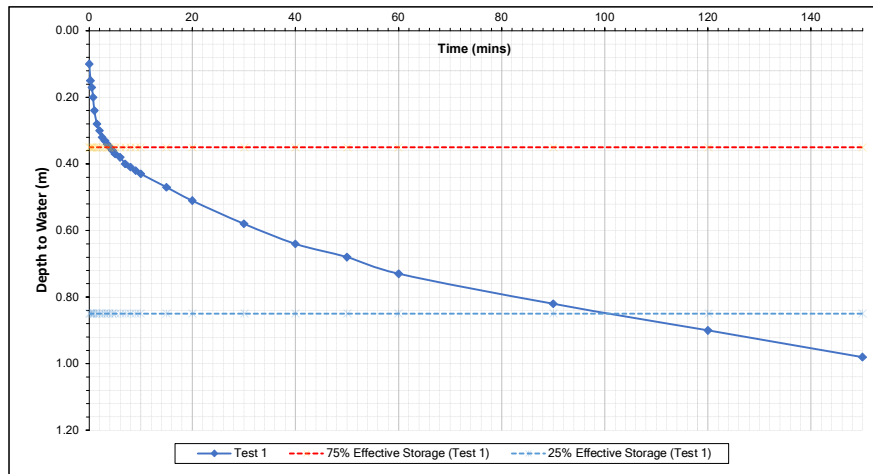
GRAVEL FILLED SOIL INFILTRATION RATE TEST
20mm Clean Gravel used with 30% free void space assumed
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.10m bgl: Grass over dark greyish brown silty fine to coarse SAND with rootlets. [TOPSOIL]
0.10-0.70m bgl: Light greyish brown silty fine to medium SAND. [CAMBERLEY SAND FORMATION]
0.70-1.10m bgl: Orangeish brown mottled brown and yellowish brown slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [WINDLESHAM FORMATION]

Test Parameters	TEST 3	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.00	0.00	0.10
	0.25	0.15
75% Effective Storage Depth (m):	0.50	0.17
	0.75	0.20
	1.00	0.24
(i.e. Depth Below Ground Level) (m):	1.50	0.28
	2.00	0.30
	2.50	0.32
25% Effective Storage Depth (m):	3.00	0.33
	3.50	0.34
	4.00	0.35
(i.e. Depth Below Ground Level) (m):	4.50	0.36
	5.00	0.37
	6.00	0.38
Effective Storage Depth Across 75% - 25% (m):	7.00	0.40
	8.00	0.41
	9.00	0.42
Time to Fall to 75% Effective Depth (min):	10.00	0.43
	15.00	0.47
	20.00	0.51
Time to Fall to 25% Effective Depth (min):	30.00	0.58
	40.00	0.64
	50.00	0.68
30%(Vp75%-25%) (m3):	60.00	0.73
	90.00	0.82
	120.00	0.90
As50% (m2):	150.00	0.98
	2.51	
Time to Fall to 25% Effective Depth (min):		
	97	

DESIGN SOIL INFILTRATION RATE, f (m/s):	5.75E-06
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Comments:



Site Engineer:	Date:
JW	06/02/2025

Checked and Approved By:	Date:
HS	25/02/2025

Location
SA301

Site Name:	Nine Mile Ride
Site Reference:	A12057-5
Test Date:	05/02/2025 - 06/02/2025



Trial Pit Identification:	SA302B
Trial Pit Length (m):	1.70
Trial Pit Width (m):	0.40
Trial Pit Depth (m):	1.10
Groundwater Level (m bgl):	N/A

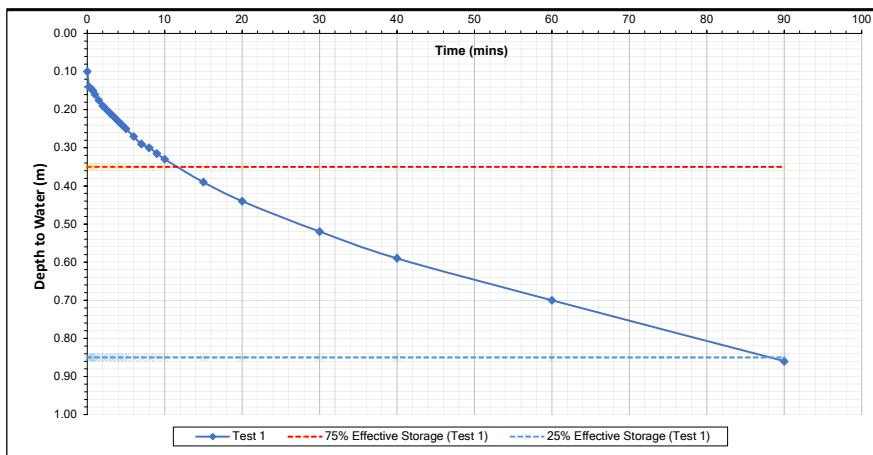
GRAVEL FILLED SOIL INFILTRATION RATE TEST
20mm Clean Gravel used with 30% free void space assumed
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.10m bgl: Grass over dark greyish brown silty fine to coarse SAND with rootlets. [TOPSOIL]
0.10-0.35m bgl: Light grey silty fine to medium SAND. [CAMBERLEY SAND FORMATION]
0.35-1.10m bgl: Dark brown mottled light brown silty fine to coarse SAND. [WINDLESHAM FORMATION]

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.00	0.00	0.10
	0.25	0.14
75% Effective Storage Depth (m):	0.50	0.15
0.75	0.75	0.15
	1.00	0.16
(i.e. Depth Below Ground Level) (m):	1.50	0.18
0.35	2.00	0.19
	2.50	0.20
25% Effective Storage Depth (m):	3.00	0.21
0.25	3.50	0.22
	4.00	0.23
(i.e. Depth Below Ground Level) (m):	4.50	0.24
0.85	5.00	0.25
	6.00	0.27
Effective Storage Depth Across 75% - 25% (m):	7.00	0.29
0.50	8.00	0.30
	9.00	0.32
Time to Fall to 75% Effective Depth (min):	10.00	0.33
	15.00	0.39
11.7	20.00	0.44
Time to Fall to 25% Effective Depth (min):	30.00	0.52
	40.00	0.59
88.5	60.00	0.70
30%(Vp75%-25%) (m3):	90.00	0.86
0.10		
As50% (m2):		
2.78		
Tp75%-25% (mins):		
76.8		

DESIGN SOIL INFILTRATION RATE, f (m/s):	7.96E-06
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Comments:



Site Engineer:	Date:
JW	05/02/2025

Checked and Approved By:	Date:
HS	25/02/2025

Location
SA302B

Site Name:	Nine Mile Ride
Site Reference:	A12057-5
Test Date:	05/02/2025 - 06/02/2025



Trial Pit Identification:	SA302B
Trial Pit Length (m):	1.70
Trial Pit Width (m):	0.40
Trial Pit Depth (m):	1.10
Groundwater Level (m bgl):	N/A

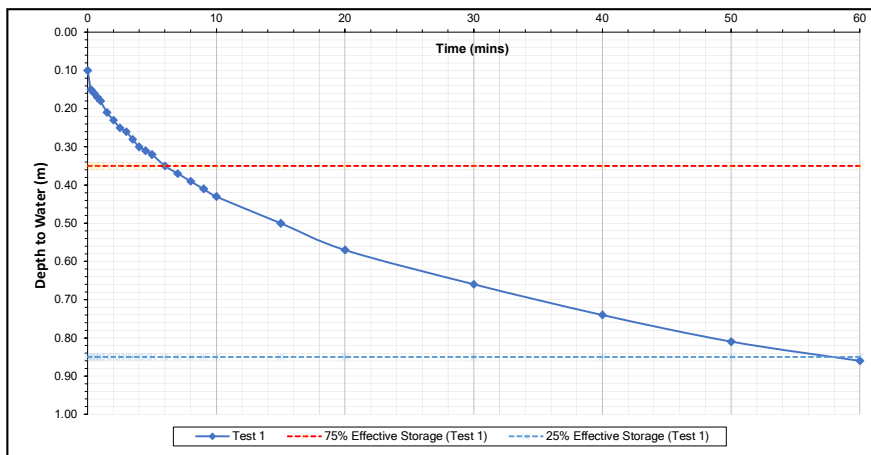
GRAVEL FILLED SOIL INFILTRATION RATE TEST
20mm Clean Gravel used with 30% free void space assumed
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.10m bgl: Grass over dark greyish brown silty fine to coarse SAND with rootlets. [TOPSOIL]
0.10-0.35m bgl: Light grey silty fine to medium SAND. [CAMBERLEY SAND FORMATION]
0.35-1.10m bgl: Dark brown mottled light brown silty fine to coarse SAND. [WINDLESHAM FORMATION]

Test Parameters	TEST 2	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.00	0.00	0.10
	0.25	0.15
75% Effective Storage Depth (m):	0.50	0.16
0.75	0.75	0.17
	1.00	0.18
(i.e. Depth Below Ground Level) (m):	1.50	0.21
0.35	2.00	0.23
	2.50	0.25
25% Effective Storage Depth (m):	3.00	0.26
0.25	3.50	0.28
	4.00	0.30
(i.e. Depth Below Ground Level) (m):	4.50	0.31
0.85	5.00	0.32
	6.00	0.35
Effective Storage Depth Across 75% - 25% (m):	7.00	0.37
0.50	8.00	0.39
	9.00	0.41
Time to Fall to 75% Effective Depth (min):	10.00	0.43
6.00	15.00	0.50
	20.00	0.57
Time to Fall to 25% Effective Depth (min):	30.00	0.66
58.00	40.00	0.74
	50.00	0.81
30%(Vp75%-25%) (m3):	60.00	0.86
0.10		
As50% (m2):		
2.78		
Tp75%-25% (mins):		
52.00		

DESIGN SOIL INFILTRATION RATE, f (m/s):	1.18E-05
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Comments:



Site Engineer:	Date:
JW	06/02/2025

Checked and Approved By:	Date:
HS	25/02/2025

Location
SA302B

Site Name:	Nine Mile Ride
Site Reference:	A12057-5
Test Date:	05/02/2025 - 06/02/2025



Trial Pit Identification:	SA302B
Trial Pit Length (m):	1.70
Trial Pit Width (m):	0.40
Trial Pit Depth (m):	1.10
Groundwater Level (m bgl):	N/A

GRAVEL FILLED SOIL INFILTRATION RATE TEST

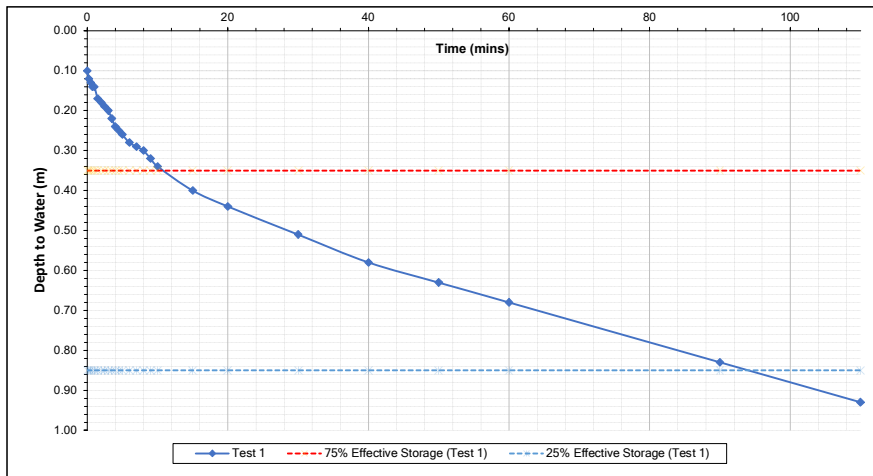
20mm Clean Gravel used with 30% free void space assumed
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.10m bgl: Grass over dark greyish brown silty fine to coarse SAND with rootlets. [TOPSOIL]
0.10-0.35m bgl: Light grey silty fine to medium SAND. [CAMBERLEY SAND FORMATION]
0.35-1.10m bgl: Dark brown mottled light brown silty fine to coarse SAND. [WINDLESHAM FORMATION]

Test Parameters	TEST 3	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.00	0.00	0.10
	0.25	0.12
75% Effective Storage Depth (m):	0.50	0.13
0.75	0.75	0.14
	1.00	0.14
(i.e. Depth Below Ground Level) (m):	1.50	0.17
0.35	2.00	0.18
	2.50	0.19
25% Effective Storage Depth (m):	3.00	0.20
0.25	3.50	0.22
	4.00	0.24
(i.e. Depth Below Ground Level) (m):	4.50	0.25
0.85	5.00	0.26
	6.00	0.28
Effective Storage Depth Across 75% - 25% (m):	7.00	0.29
0.5	8.00	0.30
	9.00	0.32
Time to Fall to 75% Effective Depth (min):	10.00	0.34
10.8	15.00	0.40
	20.00	0.44
Time to Fall to 25% Effective Depth (min):	30.00	0.51
94	40.00	0.58
	50.00	0.63
30%(Vp75%-25%) (m3):	60.00	0.68
0.10	90.00	0.83
	110.00	0.93
As50% (m2):		
2.78		
Tp75%-25% (mins):		
83.2		

DESIGN SOIL INFILTRATION RATE, f (m/s):	7.35E-06
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Comments:



Site Engineer:	Date:
JW	06/02/2025

Checked and Approved By:	Date:
HS	25/02/2025

Location
SA302B

Site Name:	Nine Mile Ride
Site Reference:	A12057-5
Test Date:	05/02/2025



Trial Pit Identification:	SA303
Trial Pit Length (m):	2.40
Trial Pit Width (m):	0.40
Trial Pit Depth (m):	2.50
Groundwater Level (m bgl):	N/A

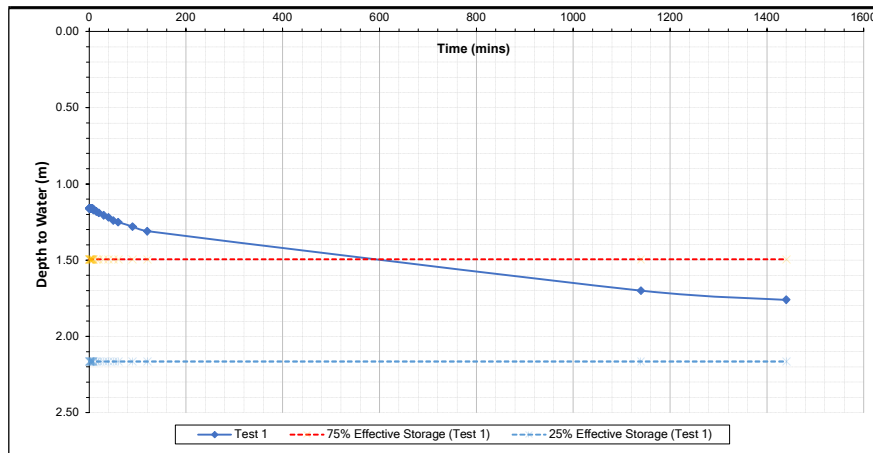
GRAVEL FILLED SOIL INFILTRATION RATE TEST
20mm Clean Gravel used with 30% free void space assumed
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.05m bgl: Reddish brown sub-angular to sub-rounded medium to coarse flint GRAVEL. [MADE GROUND]
0.05-0.30m bgl: Reddish brown gravelly fine to coarse SAND. Gravel is angular to sub-rounded fine to coarse flint. [MADE GROUND]
0.30-0.60m bgl: Orangeish brown mottled light greenish grey sandy silty CLAY. Sand is fine to coarse. [MADE GROUND]
0.60-1.10m bgl: Soft black sandy CLAY with rare fragments of wood and macadam. Sand is fine to coarse. [MADE GROUND]
1.10-1.70m bgl: Orangeish brown silty fine to coarse SAND. [WINDLESHAM FORMATION]
1.70-2.40m bgl: Soft to firm light greenish grey mottled orange very sandy silty CLAY. Sand is fine to coarse. [WINDLESHAM FORMATION]
2.40-2.50m bgl: Dark green silty fine to coarse SAND. [WINDLESHAM FORMATION]

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.34	0.00	1.16
	0.25	1.16
75% Effective Storage Depth (m):	0.50	1.16
1.01	0.75	1.16
	1.00	1.16
(i.e. Depth Below Ground Level) (m):	1.50	1.16
1.50	2.00	1.16
	2.50	1.16
25% Effective Storage Depth (m):	3.00	1.16
0.34	3.50	1.16
	4.00	1.16
(i.e. Depth Below Ground Level) (m):	4.50	1.16
2.17	5.00	1.16
	6.00	1.16
Effective Storage Depth Across 75% - 25% (m):	7.00	1.16
0.67	8.00	1.17
	9.00	1.17
Time to Fall to 75% Effective Depth (min):	10.00	1.17
600	15.00	1.18
	20.00	1.19
Time to Fall to 25% Effective Depth (min):	30.00	1.21
N/A	40.00	1.22
	50.00	1.24
30%(Vp75%-25%) (m3):	60.00	1.25
0.19	90.00	1.28
	120.00	1.31
As50% (m2):	1140.00	1.70
4.71	1440.00	1.76
Tp75%-25% (mins):		
N/A		

DESIGN SOIL INFILTRATION RATE, f (m/s):	N/A
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Comments:
NOTE: During the duration of the test the required intercept failed to be reached. Therefore the test is considered not to have been successful.



Site Engineer:	Date:
JW	05/02/2025

Checked and Approved By:	Date:
HS	25/02/2025

Location
SA303

APPENDIX XI - FALLING HEAD TEST PERMEABILITY CERTIFICATES