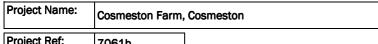
BRE 365 method





Project Ref:	7061b

Test Location:	ETP1
Fill Number:	1

Soil Infiltration Rate	5.46E-06 m/sec
------------------------	----------------

Test results:

Pit Dimensions (m)

rest results:	
Time	Water Level
(mins)	(m bgl)
0	0.51
1	0.51
2	0.51
3	0.51
4	0.51
7	0.52
10	0.52
25	0.54
50	0.57
60	0.58
75	0.60
105	0.65
145	0.68
210	0.73
270	0.78
330	0.82
690	1.10

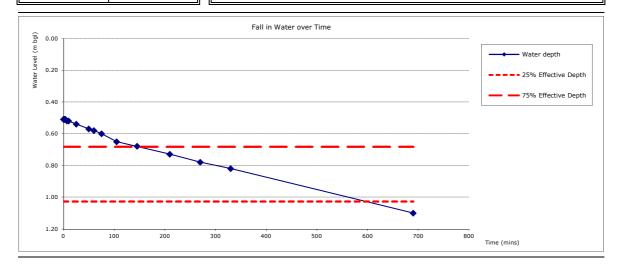
length	2.00
width	0.70
depth	1.20
•	-

Assumed Invert Level (m bgl) 0.00

See Trial Pit Log ETP1 for Ground Conditions

Remarks:

- 1. Testing undertaken in general accordance with BRE Digest 365:2007
- 2. Trial pit was not filled with aggregate for test.
- 3. Some spalling of pit sides during excavation. Sides became unstable with addition of water.
- 4. Results extrapolated to obtain soakage rate



Soil Infiltration Rate (m/sec)

$$\frac{V_{p75-25}}{\alpha_{p50} x t_{p75-25}}$$

V _{p75-25}	Effective depth storage volume of water in the trial pit between 75% and 25% effective depth	0.48
α _{p50}	The internal surface area of the trial pit up to 50% effective depth and including the base area	3.263
t _{p75 - 25}	The time for the water level to fall from 75% to 25% effective depth	452

Soil Infiltration Rate (m/sec)

f 0.483 88450.60714

EXTRAPOLATED

f **5.46E-06**

BRE 365 method

Project Name:	Cosmeston Farm, Cosmeston	
Project Pof:	70041	



Test Location:	ETP23
Fill Number:	1

0.58

0.65

Soil Infiltration Rate	6.02E-06 m/sec
------------------------	----------------

Test results:

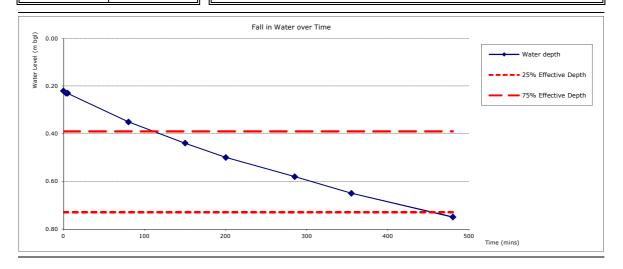
355

Pit Dimensions (m)

			• •	
Time	Water Level	length	1.80	
(mins)	(m bgl)	width	0.60	
0	0.22	depth	0.90	
3	0.23		•	
5	0.23	Assumed Inv	ert Level (m bgl)	0.00
80	0.35			
150	0.44	See Trial F	Pit Log ETP23 for Ground C	onditions
200	0.50		_	

Remarks:

- 1. Testing undertaken in general accordance with BRE Digest 365:2007
- 2. Trial pit was not filled with aggregate for test.
- 3. Some spalling of pit sides during excavation. Sides became unstable with addition of water.
- 4. Results extrapolated to obtain soakage rate



Soil Infiltration Rate (m/sec)

V p75 - 25		
α _{p50} x t _{p75-25}		

V _{p75-25}	Effective depth storage volume of water in the trial pit between 75% and 25% effective depth	0.37
α _{p50}	The internal surface area of the trial pit up to 50% effective depth and including the base area	2.712
t _{p75 - 25}	The time for the water level to fall from 75% to 25% effective depth	375

Soil Infiltration Rate (m/sec)

f 0.367 61020

EXTRAPOLATED

f **6.02E-06**

BRE 365 method

Project Name:	Cosmeston Farm, Cosmeston
Drainat Dafe	



Project Ref: 7061b

Test Location:	ETP1
Fill Number:	1

Soil Infiltration Rate	test failed m/sec
------------------------	-------------------

Test results:

Pit Dimensions (m)

Test results:			
Time	Water Level		
(mins)	(m bgl)		
0	0.51		
1	0.51		
2	0.51		
3	0.51		
4	0.51		
7	0.52		
10	0.52		
25	0.54		
50	0.57		
60	0.58		
75	0.60		
105	0.65		
145	0.68		
210	0.73		
270	0.78		
330	0.82		

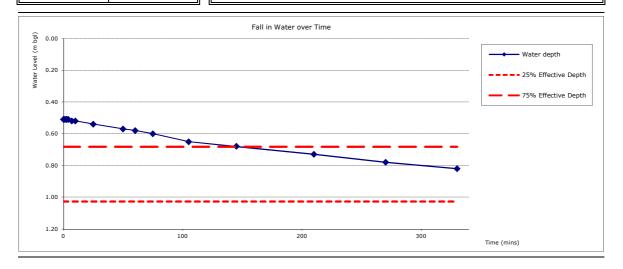
length	2.00	
width	0.70	
depth	1.20	
		•

Assumed Invert Level (m bgl) 0.00

See Trial Pit Log ETP1 for Ground Conditions

Remarks:

- 1. Testing undertaken in general accordance with BRE Digest 365:2007
- 2. Trial pit was not filled with aggregate for test.
- 3. Some spalling of pit sides during excavation. Sides became unstable with addition of water.



Soil Infiltration Rate (m/sec)

$$\frac{V_{p75-25}}{\alpha_{p50} x t_{p75-25}}$$

V _{p75-25}	Effective depth storage volume of water in the trial pit between 75% and 25% effective depth	0.48
α _{p50}	The internal surface area of the trial pit up to 50% effective depth and including the base area	3.263
t _{p75-25}	The time for the water level to fall from 75% to 25% effective depth	n/a

Soil Infiltration Rate (m/sec)

f 0.483 no value

BRE 365 method

Project Name:	Cosmeston Farm,	Cosmeston
Ducinet Defe		



Project Ref: 7061b

Test Location:	ETP2
Fill Number:	1

Soil Infiltration Rate	test failed m/sec
------------------------	-------------------

Test results:

Pit Dimensions (m)

reservatio.	
Time	Water Level
(mins)	(m bgl)
0	0.48
1	0.48
2	0.48
3	0.48
4	0.48
5	0.48
6	0.48
10	0.48
15	0.48
30	0.48
35	0.48
60	0.48
110	0.48
170	0.48
258	0.48

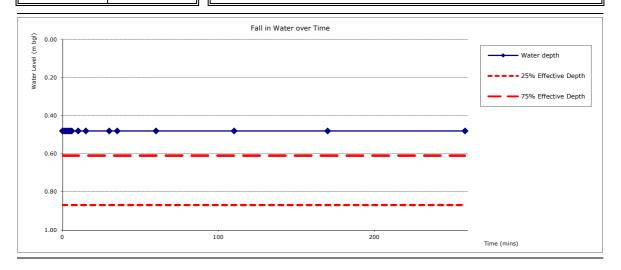
length	1.80	
width	0.80	
depth	1.00	
•		

Assumed Invert Level (m bgl) 0.00

See Trial Pit Log ETP2 for Ground Conditions

Remarks:

- 1. Testing undertaken in general accordance with BRE Digest 365:2007
- 2. Trial pit was not filled with aggregate for test.
- 3. Some spalling of pit sides during excavation. Sides became unstable with addition of water.



Soil Infiltration Rate (m/sec)

$$\frac{V_{p75-25}}{\alpha_{p50} x t_{p75-25}}$$

V _{p75-25}	Effective depth storage volume of water in the trial pit between 75% and 25% effective depth	0.37
α _{p50}	The internal surface area of the trial pit up to 50% effective depth and including the base area	2.792
t _{p75-25}	The time for the water level to fall from 75% to 25% effective depth	n/a

Soil Infiltration Rate (m/sec)

f 0.374 no value

BRE 365 method

	Project Name:	Cosmeston Farm, Co	osmeston
i	Duning Dafe		



Project Ref: 7061b

Test Location:	ETP3
Fill Number:	1

0.51

0.51

0.51

0.51

0.51

0.51

0.51

Soil Infiltration Rate	test failed m/sec
------------------------	-------------------

0.00

Test results:

30

90

95

105

140

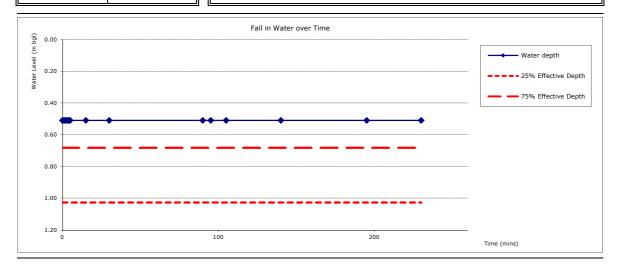
195 230

Pit Dimensions (m)

		_		
Time	Water Level	length	1.70	
(mins)	(m bgl)	width	0.80	
0	0.51	depth	1.20	7
1	0.51	1	•	_
2	0.51	Assumed Ir	vert Level (m bgl)	7
3	0.51			
4	0.51	See Trial	Pit Log ETP3 for Ground (Conditions
5	0.51		_	

Remarks:

- 1. Testing undertaken in general accordance with BRE Digest 365:2007
- 2. Trial pit was not filled with aggregate for test.
- 3. Some spalling of pit sides during excavation. Sides became unstable with addition of water.



Soil Infiltration Rate (m/sec)

V_{p75-25} $lpha_{p50}$ x t_{p75-25}

V _{p75-25}	Effective depth storage volume of water in the trial pit between 75% and 25% effective depth	0.47
α _{p50}	The internal surface area of the trial pit up to 50% effective depth and including the base area	3.085
t _{p75 - 25}	The time for the water level to fall from 75% to 25% effective depth	n/a

Soil Infiltration Rate (m/sec)

0.469 no value

BRE 365 method

Project Name:	Cosmeston Farm, Cosmeston	
Project Ref	7064h	



Project Ref: 7061b

Test Location:	ETP20
Fill Number:	1

Soil Infiltration Rate	test failed m/sec
------------------------	-------------------

Test results:

Pit Dimensions (m)

Time	Water Level	length
(mins)	(m bgl)	width
0	0.28	depth
1	0.28	
2	0.28	Assume
3	0.28	
4	0.28	See Tr
5	0.28	
20	0.28	
60	0.27	
120	0.27	
300	0.27	

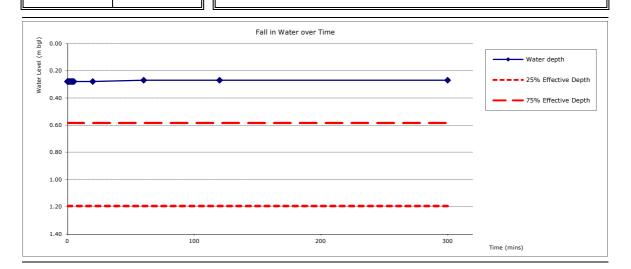
length	1.80	
width	0.60	
depth	1.50	
•	_	

Assumed Invert Level (m bgl) 0.00

See Trial Pit Log ETP20 for Ground Conditions

Remarks:

- 1. Testing undertaken in general accordance with BRE Digest 365:2007
- 2. Trial pit was not filled with aggregate for test.
- 3. Some spalling of pit sides during excavation. Sides became unstable with addition of water.



Soil Infiltration Rate (m/sec)

$$f = \frac{V_{p75-25}}{\alpha_{p50} x t_{p75-25}}$$

V _{p75-25}	Effective depth storage volume of water in the trial pit between 75% and 25% effective depth	0.66
α _{p50}	The internal surface area of the trial pit up to 50% effective depth and including the base area	4.008
t _{p75 - 25}	The time for the water level to fall from 75% to 25% effective depth	n/a

Soil Infiltration Rate (m/sec)

f 0.659 no value

BRE 365 method

Project Name:	Cosmeston Farm, Cosmeston	
Project Ref	7061h	



Project Ref:	7061b
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Test Location:	ETP23
Fill Number:	1

Soil Infiltration Rate	test failed m/sec
------------------------	-------------------

0.00

Test results:

355

Pit Dimensions (m)

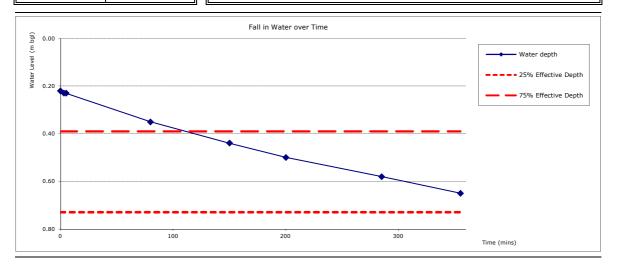
Vater Level length	Water Level	Time	er Level length
(m bgl) width	(m bgl)	(mins)	n bgl) width
0.22 depth	0.22	0	0.22 depth
0.23	0.23	3	0.23
0.23 Assumed Invert Level	0.23	5	0.23 Assumed Invert Le
0.35	0.35	80	0.35
0.44 See Trial Pit Log	0.44	150	O.44 See Trial Pit Lo
0.50	0.50	200	0.50
0.58	0.58	285	0.58

0.65

Conditions

Remarks:

- 1. Testing undertaken in general accordance with BRE Digest 365:2007
- 2. Trial pit was not filled with aggregate for test.
- 3. Some spalling of pit sides during excavation. Sides became unstable with addition of water.



Soil Infiltration Rate (m/sec)

$$f = \frac{V_{p75-25}}{\alpha_{p50} x t_{p75-25}}$$

V _{p75 - 25}	Effective depth storage volume of water in the trial pit between 75% and 25% effective depth	0.37
α _{p50}	The internal surface area of the trial pit up to 50% effective depth and including the base area	2.712
t _{p75 - 25}	The time for the water level to fall from 75% to 25% effective depth	n/a

Soil Infiltration Rate (m/sec)

0.367 no value

BRE 365 method

Project Name:	Cosmeston Farm, Cosmeston	
Project Ref:	7061h	



Project Ref:	7061b
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Test Location:	ETP26
Fill Number:	1

0.47

0.60

0.91

Soil Infiltration Rate	3.85E-05 m/sec
------------------------	----------------

0.00

Test results:

Time (mins)

1

2 5 20

40

65 100

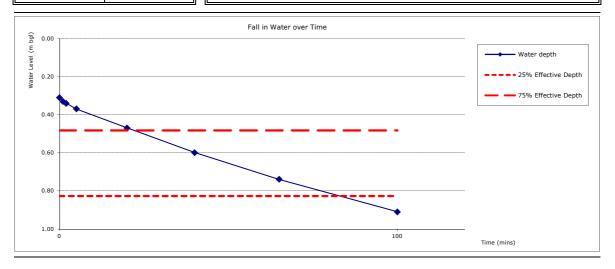
Pit Dimensions (m)

		()	
Water Level	length	1.80	
(m bgl)	width	0.70	
0.31	depth	1.00	
0.33		•	_
0.34	Assumed Inve	rt Level (m bgl)	
0.37			

See Trial Pit Log ETP26 for Ground Conditions

Remarks:

- 1. Testing undertaken in general accordance with BRE Digest 365:2007
- 2. Trial pit was not filled with aggregate for test.
- 3. Some spalling of pit sides during excavation. Sides became unstable with addition of water.



V_{p75-25} Soil Infiltration Rate (m/sec) $lpha_{p50}$ x t_{p75-25}

V _{p75-25}	Effective depth storage volume of water in the trial pit between 75% and 25% effective depth	0.43
α _{p50}	The internal surface area of the trial pit up to 50% effective depth and including the base area	2.985
t _{p75 - 25}	The time for the water level to fall from 75% to 25% effective depth	63

Soil Infiltration Rate (m/sec)

0.435 11285.93382

f **3.85E-05**

BRE 365 method

Project Name:	Cosmeston Farm, Cosmeston	
Duciost Dof		



Project Ref: 7061b

Test Location:	ETP25
Fill Number:	1

Soil Infiltration Rate	test failed m/sec
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Test results:

Pit Dimensions (m)

rest results.		
Time	Water Level	
(mins)	(m bgl)	
0	0.41	
1	0.41	
2	0.42	
3	0.42	
4	0.42	
5	0.42	
18	0.42	
32	0.42	
65	0.42	
90	0.42	
155	0.42	
240	0.42	
302	0.42	

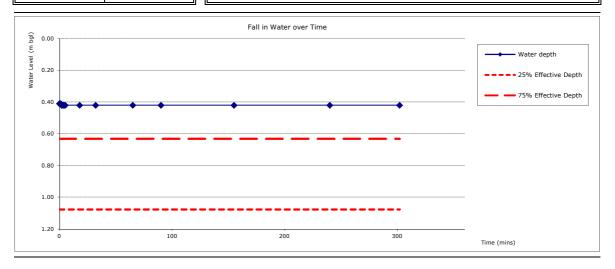
length	1.70
width	0.70
depth	1.30
	•

Assumed Invert Level (m bgl) 0.00

See Trial Pit Log ETP25 for Ground Conditions

Remarks:

- 1. Testing undertaken in general accordance with BRE Digest 365:2007
- 2. Trial pit was not filled with aggregate for test.
- 3. Some spalling of pit sides during excavation. Sides became unstable with addition of water.



Soil Infiltration Rate (m/sec)

$$f = \frac{V_{p75-25}}{\alpha_{p50} x t_{p75-25}}$$

V _{p75 - 25}	Effective depth storage volume of water in the trial pit between 75% and 25% effective depth	0.53
α _{p50}	The internal surface area of the trial pit up to 50% effective depth and including the base area	3.326
t _{p75 - 25}	The time for the water level to fall from 75% to 25% effective depth	n/a

Soil Infiltration Rate (m/sec)

f 0.530