BRE 365 method

Project Name:	Cosmeston Farm, Cosmeston	
Project Bof		



Project Ref: 7061b

Test Location:	ETP1
Fill Number:	1

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

0.00

Test results:

25

50

60

75 105

145

210

270

330

Pit Dimensions (m)

Time	Water Level	length	2.00
(mins)	(m bgl)	width	0.70
0	0.51	depth	1.20
1	0.51		•
2	0.51	Assumed Inve	ert Level (m bgl)
3	0.51		
4	0.51	See Trial P	it Log ETP1 for Ground Cond
7	0.52	1	_
10	0.52	11	

0.54

0.57

0.58 0.60

0.65

0.68

0.73

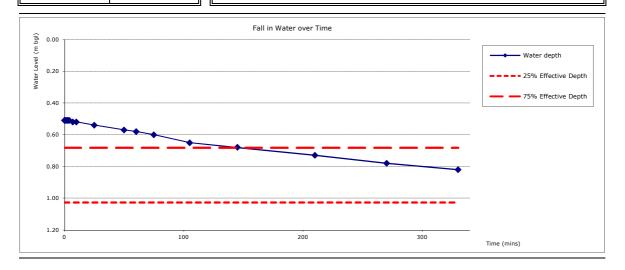
0.78

0.82

ditions

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	V p75 - 25
,	$\alpha_{p50} \times t_{p75-25}$

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)

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)

Test results.	
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

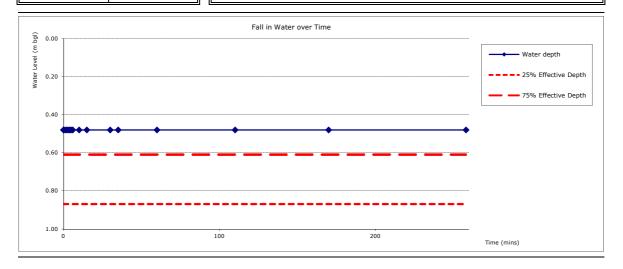
length	1.80	
width	0.80	
depth	1.00	

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)

0.374

BRE 365 method

Project Name:	Cosmeston Farm,	Cosmeston
Ducinet Defe		



Project Ref: 7061b

Test Location:	ETP3
Fill Number:	1

Soil Infiltration Rate	test failed 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
5	0.51
15	0.51
30	0.51
90	0.51
95	0.51
105	0.51
140	0.51
195	0.51
230	0.51

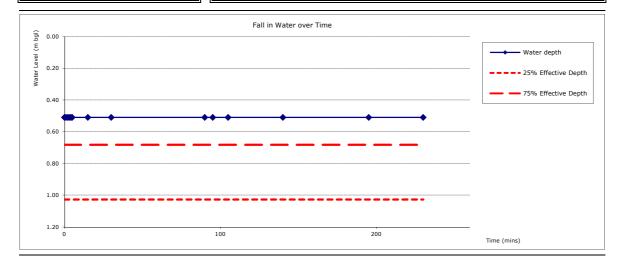
length	1.70	
width	0.80	
depth	1.20	
	•	

Assumed Invert Level (m bgl) 0.00

See Trial Pit Log ETP3 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	0.47
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)

f 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
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0.00

Test results:

60

120 300

Pit Dimensions (m)

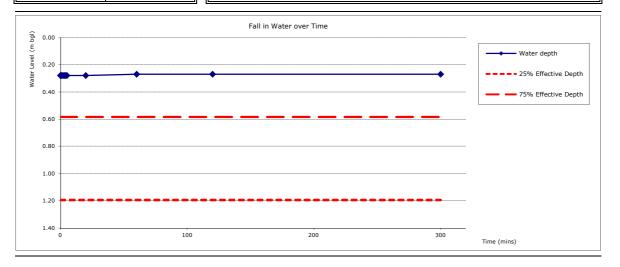
Time	Water Level	length	1.80
(mins)	(m bgl)	width	0.60
0	0.28	depth	1.50
1	0.28	1	•
2	0.28	Assumed Inve	ert Level (m bgl)
3	0.28		
4	0.28	See Trial P	it Log ETP20 for Ground Conditions
5	0.28		_
20	0.28		

0.27

0.27

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	0.66
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
------------------------	-------------------

Test results:

Pit Dimensions (m)

Time	Water Level	length
(mins)	(m bgl)	width
0	0.22	depth
3	0.23	
5	0.23	Assumed
80	0.35	
150	0.44	See Tria
200	0.50	
285	0.58	
355	0.65	
	1	

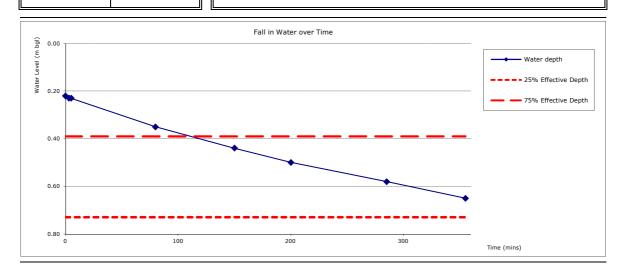
length	1.80	
width	0.60	
depth	0.90	
•		

Assumed Invert Level (m bgl) 0.00

See Trial Pit Log ETP23 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	2.712
t _{p75-25}	The time for the water level to fall from 75% to 25% effective depth	n/a

Soil Infiltration Rate (m/sec)

f 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

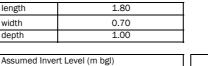
Soil Infiltration Rate	3.85E-05 m/sec
------------------------	----------------

0.00

Test results:

Pit Dimensions (m)

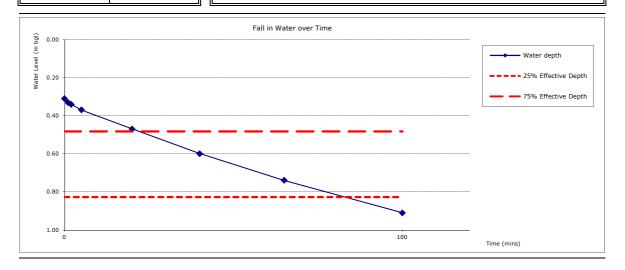
Time	Water Level	length
(mins)	(m bgl)	width
0	0.31	depth
1	0.33	
2	0.34	Assumed Ir
5	0.37	
20	0.47	See Trial
40	0.60	
65	0.74	
100	0.91	
		1)



I 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.



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	0.43
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	
Duningt Dafe		



Project Ref: 7061b

Test Location:	ETP25
Fill Number:	1

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

Test results:

302

Pit Dimensions (m)

Time	Water Level	length
(mins)	(m bgl)	width
0	0.41	depth
1	0.41	
2	0.42	Assum
3	0.42	
4	0.42	See T
5	0.42	
18	0.42	
32	0.42	
65	0.42	
90	0.42	
155	0.42	
240	0.40	1

0.42

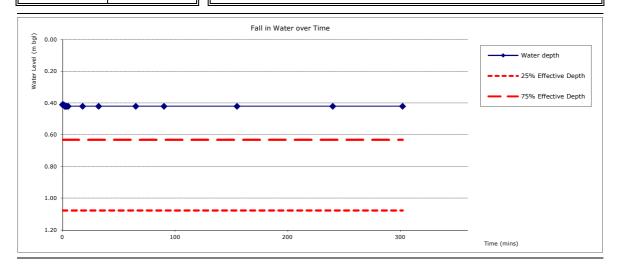
length	1.70	
width	0.70	
depth	1.30	
Accumed Invert Level (m. hal)		

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)

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

V _{p75-25}	Effective depth storage volume of water in the trial pit between 75% and 25% effective depth	
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)

0.530