From: Mercedes Golding <m.golding@rdc-landplan.co.uk>
Sent: 27 June 2023 09:48
To: Gedney, David
Cc: _planningadvice
Subject: H09-0421-23 Land Off Penny Hill Road Holbeach Spalding
Attachments: INFILTRATION Penny Hill Holbeach A.pdf

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Dear Mr Gedney

Please find attached infiltration tests as requested by the IDB in respect of the above application.

Kind regards

Mercedes

Mercedes Golding AssocRTPI
Planning Administrator

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Land Fronting 5 Acres, Penny Hill, Holbeach

INFILTRATION TESTING

2022

Site Location: Penny Hill, Holbeach, PE12 7SP

Notes

100-300mm of made ground.

Silt soil throughout the site.

Water table not reached.

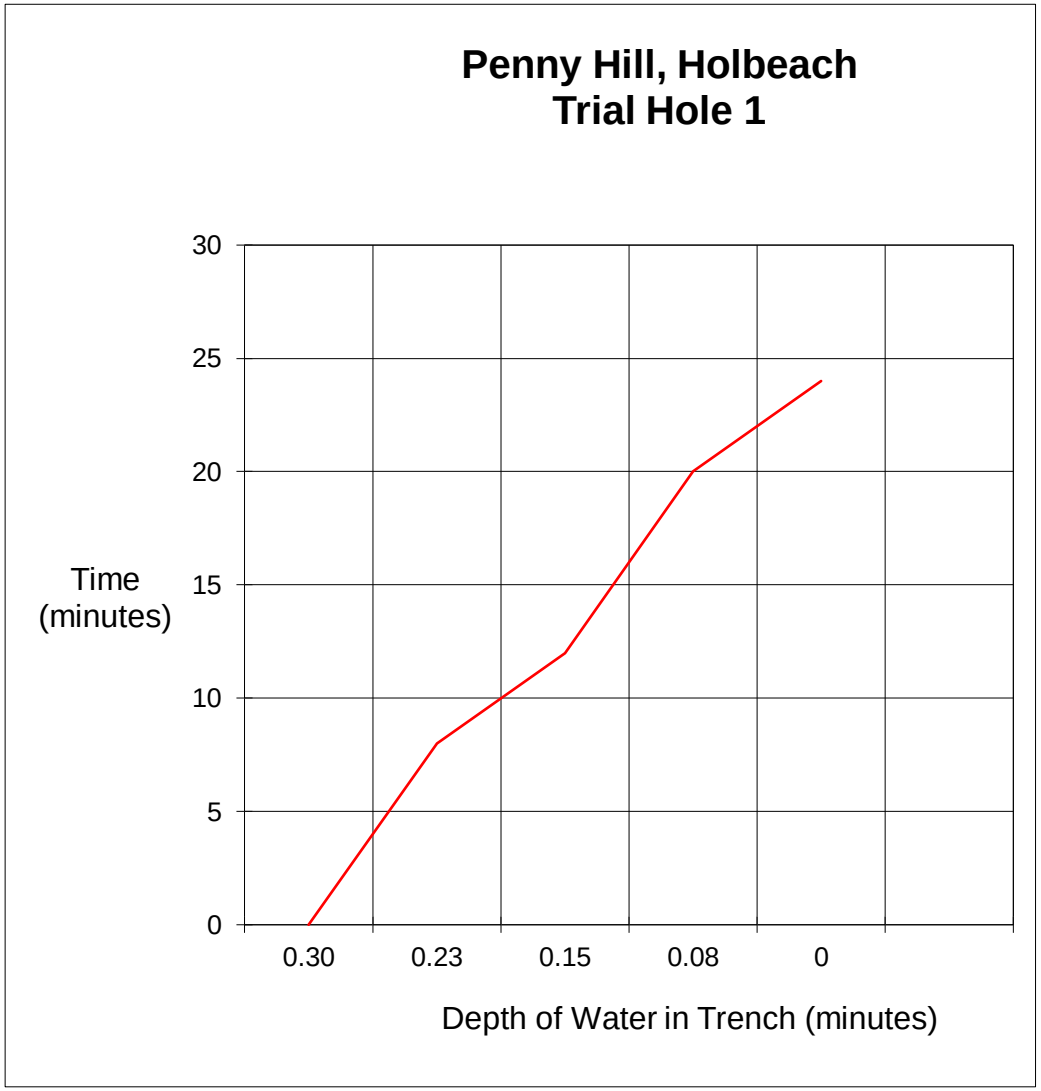
Time (min)	Depth to Water (m)	Depth of Water (m)
0	0	0.30
8	0.08	0.23
12	0.15	0.15
20	0.23	0.08
24	0.30	0

Pit Dimensions (m)	
Pit Length	1
Pit Width	0.7
Pit Depth	3
Pipe Length	0.3
Void Space	100%

Depths (m)	
D75	0.225
D25	0.075
D50	0.15

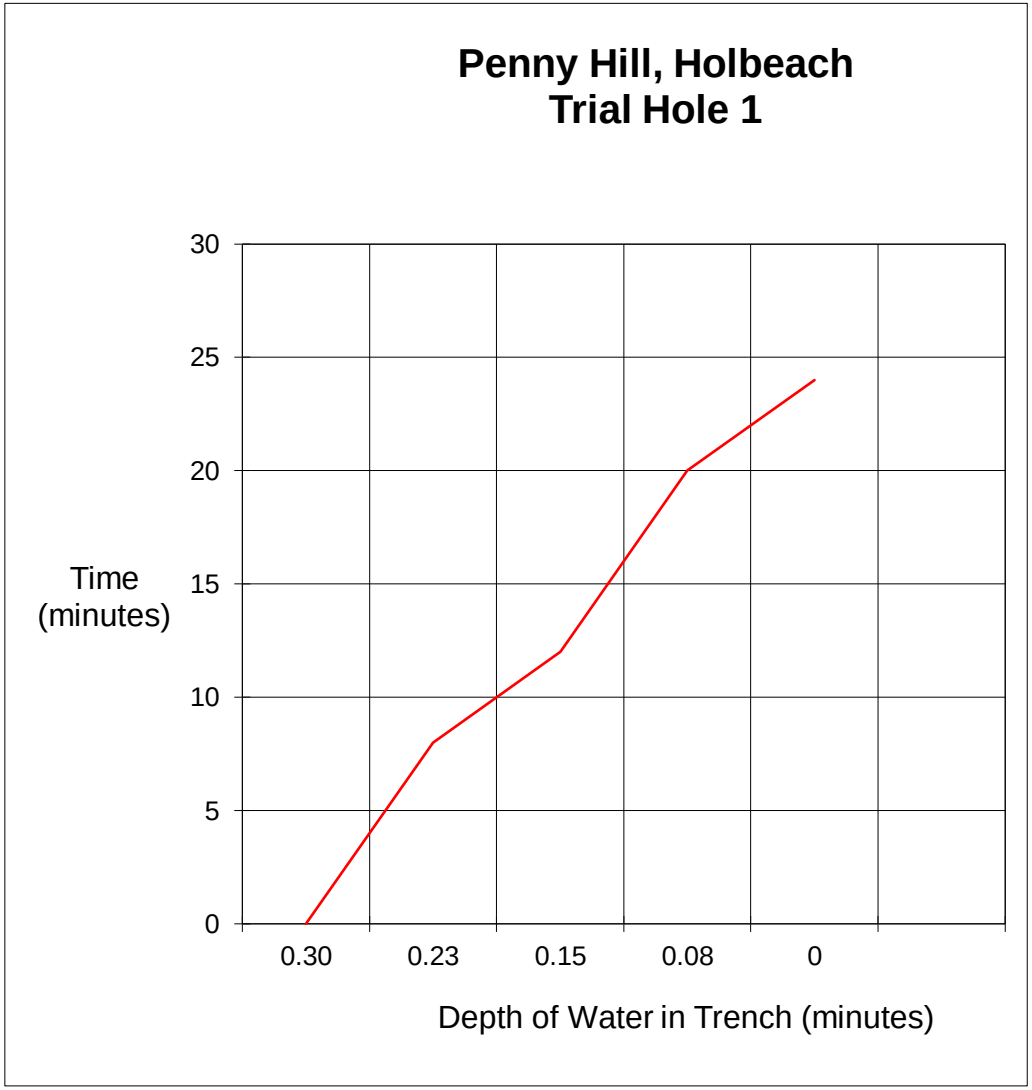
Times (minutes)	
T75	8.0000
T25	20.0000

Volumes, Areas and Times	
Vp75-25	0.1050
Ap50	1.21
Tp75-25	12
q (m/minute)	0.00723
q (mm/hour)	433.9
q (m/sec)	0.000120523
q(m/hr)	0.433884298



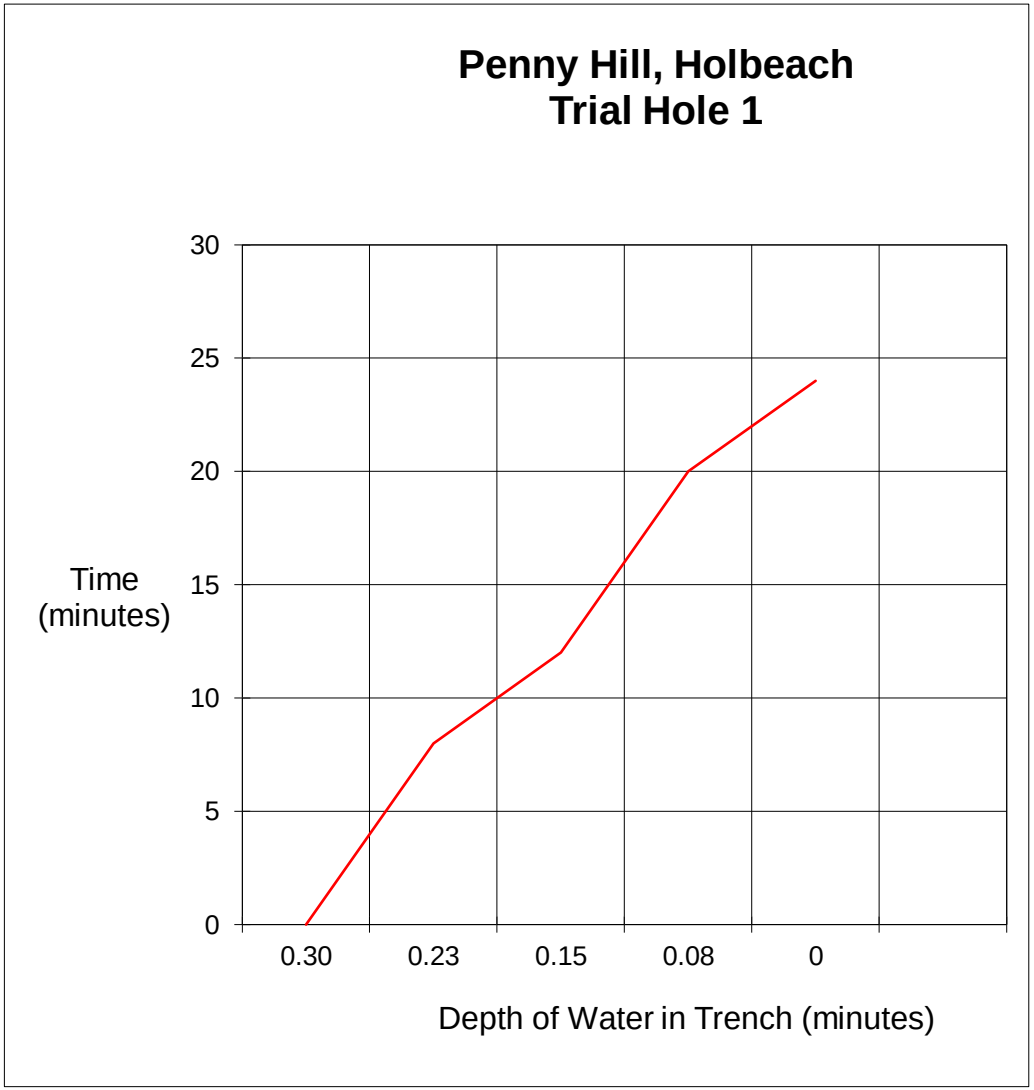
Time (min)	Depth to Water (m)	Depth of Water (m)
0	0	0.30
7	0.08	0.23
11	0.15	0.15
20	0.23	0.08
24	0.30	0

Pit Dimensions (m)	
Pit Length	1
Pit Width	0.7
Pit Depth	3
Pipe Length	0.3
Void Space	100%
Depths (m)	
D75	0.225
D25	0.075
D50	0.15
Times (minutes)	
T75	7.0000
T25	20.0000
Volumes, Areas and Times	
Vp75-25	0.1050
Ap50	1.21
Tp75-25	13
q (m/minute)	0.00668
q (mm/hour)	400.5
q (m/sec)	0.000111252
q(m/hr)	0.400508582



Time (min)	Depth to Water (m)	Depth of Water (m)
0	0	0.30
6	0.08	0.23
11	0.15	0.15
19	0.23	0.08
23	0.30	0

Pit Dimensions (m)	
Pit Length	1
Pit Width	0.7
Pit Depth	3
Pipe Length	0.3
Void Space	100%
Depths (m)	
D75	0.225
D25	0.075
D50	0.15
Times (minutes)	
T75	6.0000
T25	19.0000
Volumes, Areas and Times	
Vp75-25	0.1050
Ap50	1.21
Tp75-25	13
q (m/minute)	0.00668
q (mm/hour)	400.5
q (m/sec)	0.000111252
q(m/hr)	0.400508582



Trial Pit 1 Photos





Time (min)	Depth to Water (m)	Depth of Water (m)
0	0	0.30
9	0.08	0.23
13	0.15	0.15
22	0.23	0.08
24	0.30	0

Pit Dimensions (m)

Pit Length	1
Pit Width	0.7
Pit Depth	3
Pipe Length	0.3
Void Space	100%

Depths (m)

D75	0.225
D25	0.075
D50	0.15

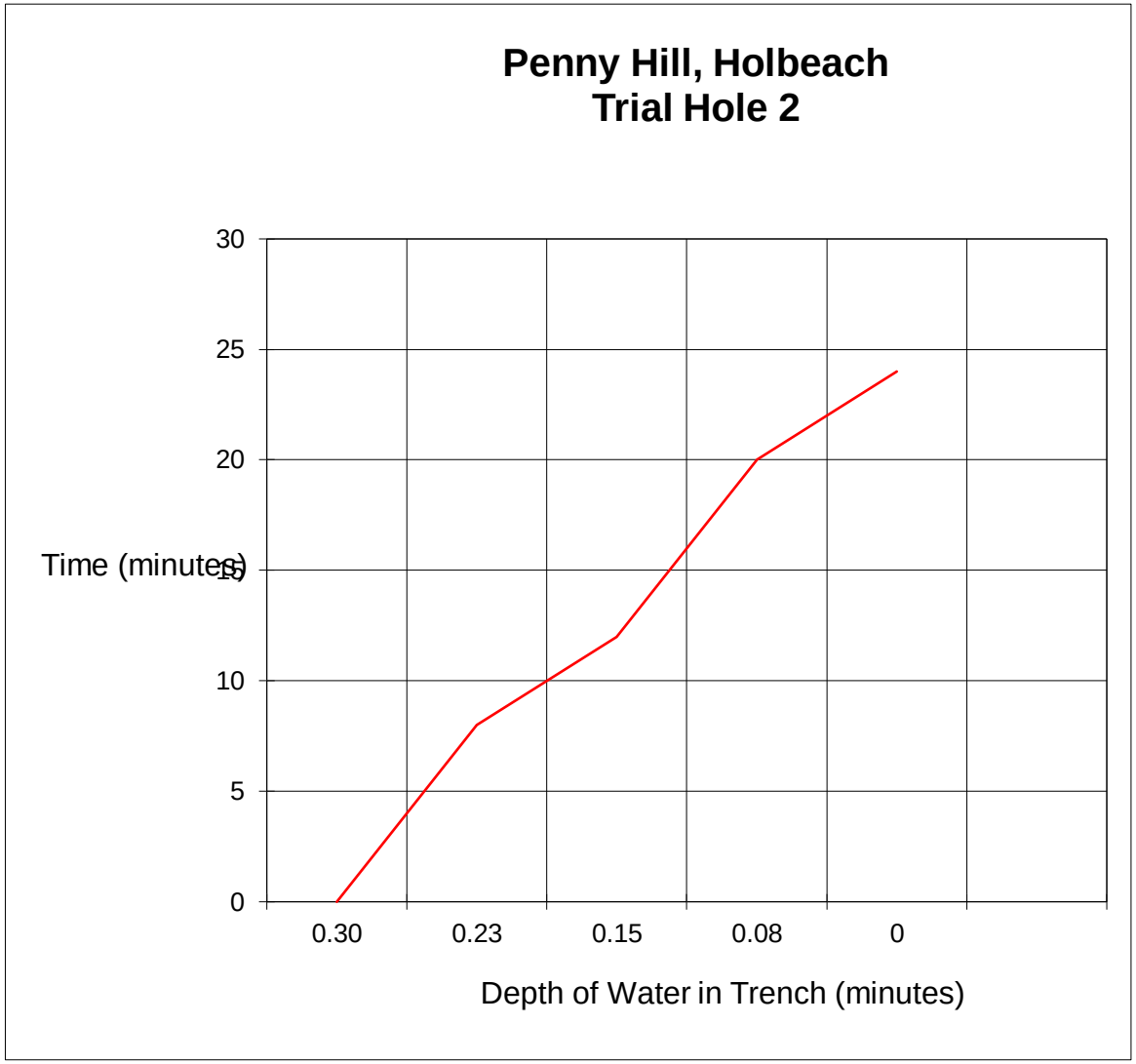
Times (minutes)

T75	9.0000
T25	22.0000

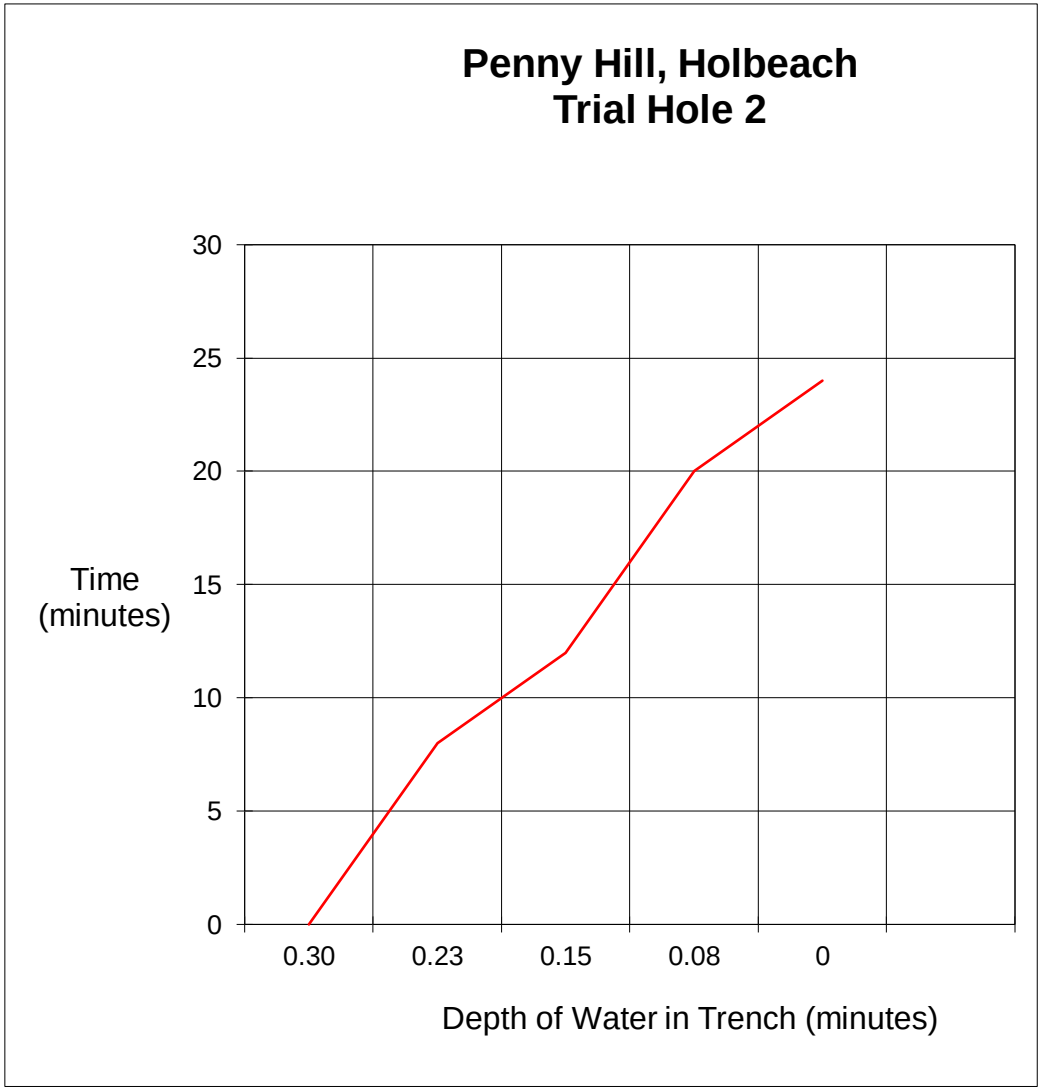
Volumes, Areas and Times

Vp75-25	0.1050
Ap50	1.21
Tp75-25	13

q (m/minute)	0.00668
q (mm/hour)	400.5
q (m/sec)	0.000111252
q(m/hr)	0.400508582



Time (min)	Depth to Water (m)	Depth of Water (m)
0	0	0.30
		0.23
8	0.08	
13	0.15	0.15
21	0.23	0.08
23	0.30	0

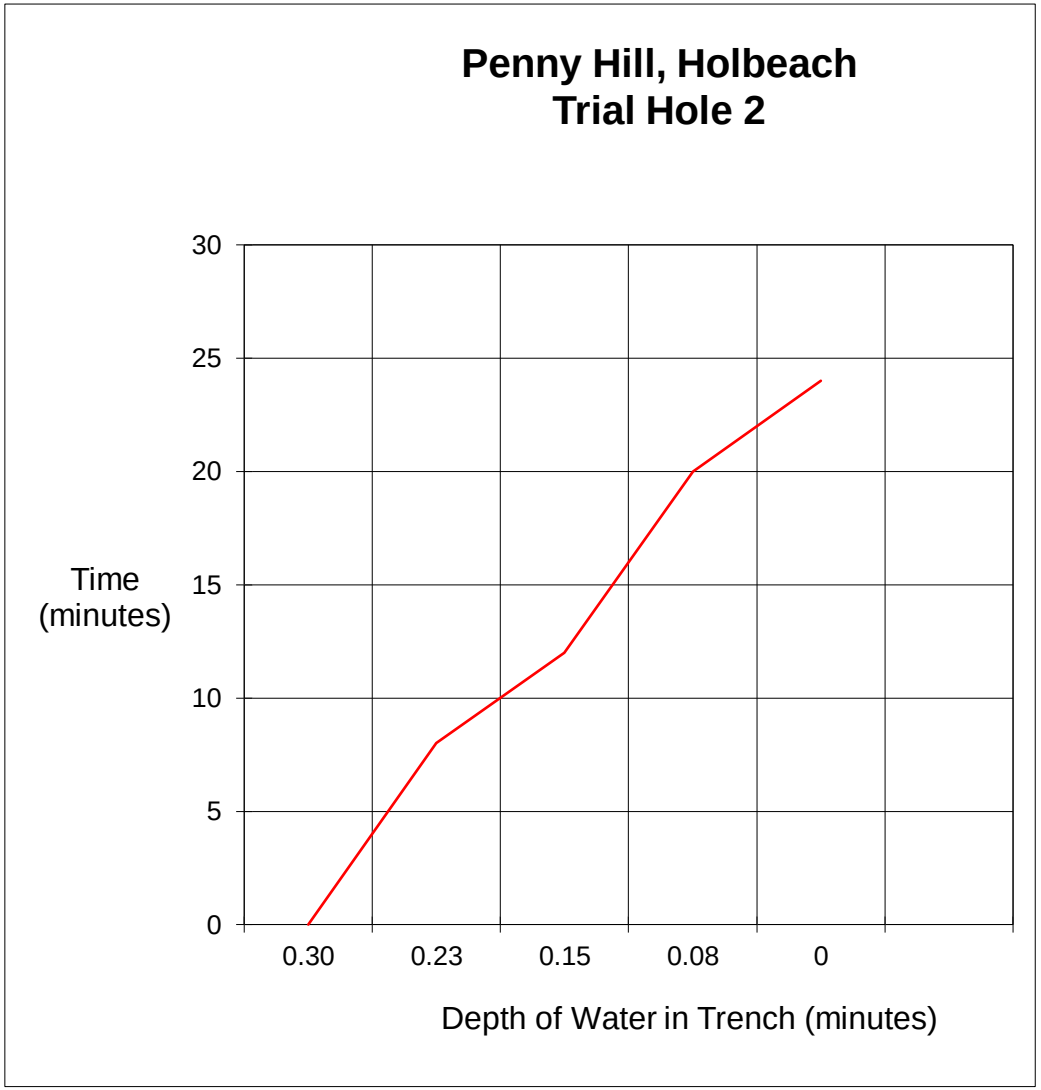


Pit Dimensions (m)	
Pit Length	1
Pit Width	0.7
Pit Depth	3
Pipe Length	0.3
Void Space	100%
Depths (m)	
D75	0.225
D25	0.075
D50	0.15
Times (minutes)	
T75	8.0000
T25	21.0000
Volumes, Areas and Times	
Vp75-25	0.1050
Ap50	1.21
Tp75-25	13
q (m/minute)	0.00668
q (mm/hour)	400.5
q (m/sec)	0.000111252
q(m/hr)	0.400508582

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Time (min)	Depth to Water (m)	Depth of Water (m)
0	0	0.30
		0.23
7	0.08	
13	0.15	0.15
19	0.23	0.08
23	0.30	0

Pit Dimensions (m)	
Pit Length	1
Pit Width	0.7
Pit Depth	3
Pipe Length	0.3
Void Space	100%
Depths (m)	
D75	0.225
D25	0.075
D50	0.15
Times (minutes)	
T75	7.0000
T25	19.0000
Volumes, Areas and Times	
Vp75-25	0.1050
Ap50	1.21
Tp75-25	12
q (m/minute)	0.00723
q (mm/hour)	433.9
q (m/sec)	0.000120523
q(m/hr)	0.433884298



Trial Pit 2 Photos





Time (min)	Depth to Water (m)	Depth of Water (m)
0	0	0.30
7	0.08	0.23
13	0.15	0.15
21	0.23	0.08
26	0.30	0

Pit Dimensions (m)

Pit Length	1
Pit Width	0.7
Pit Depth	3
Pipe Length	0.3
Void Space	100%

Depths (m)

D75	0.225
D25	0.075
D50	0.15

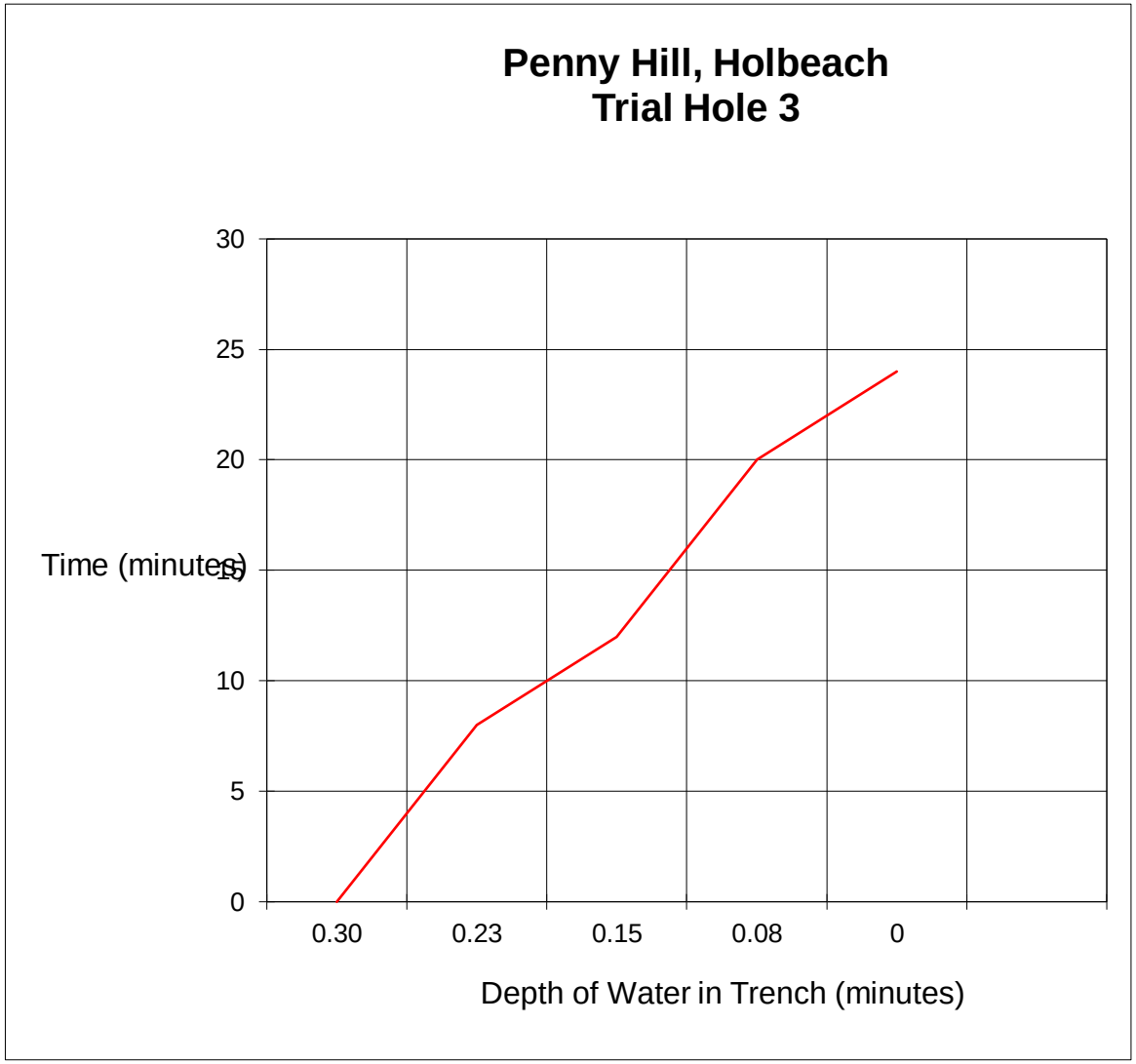
Times (minutes)

T75	7.0000
T25	21.0000

Volumes, Areas and Times

Vp75-25	0.1050
Ap50	1.21
Tp75-25	14

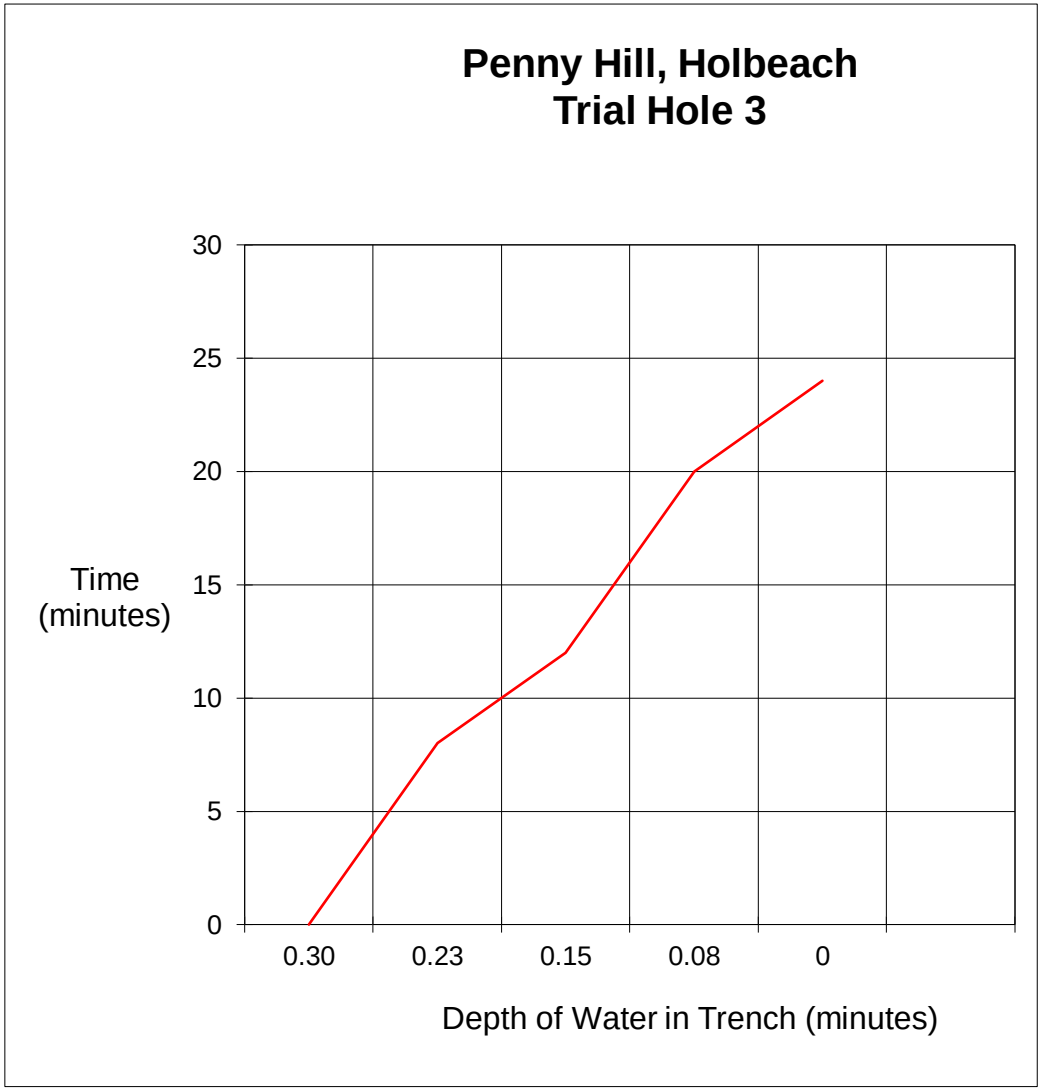
q (m/minute)	0.00620
q (mm/hour)	371.9
q (m/sec)	0.000103306
q(m/hr)	0.371900826



OFFICIAL

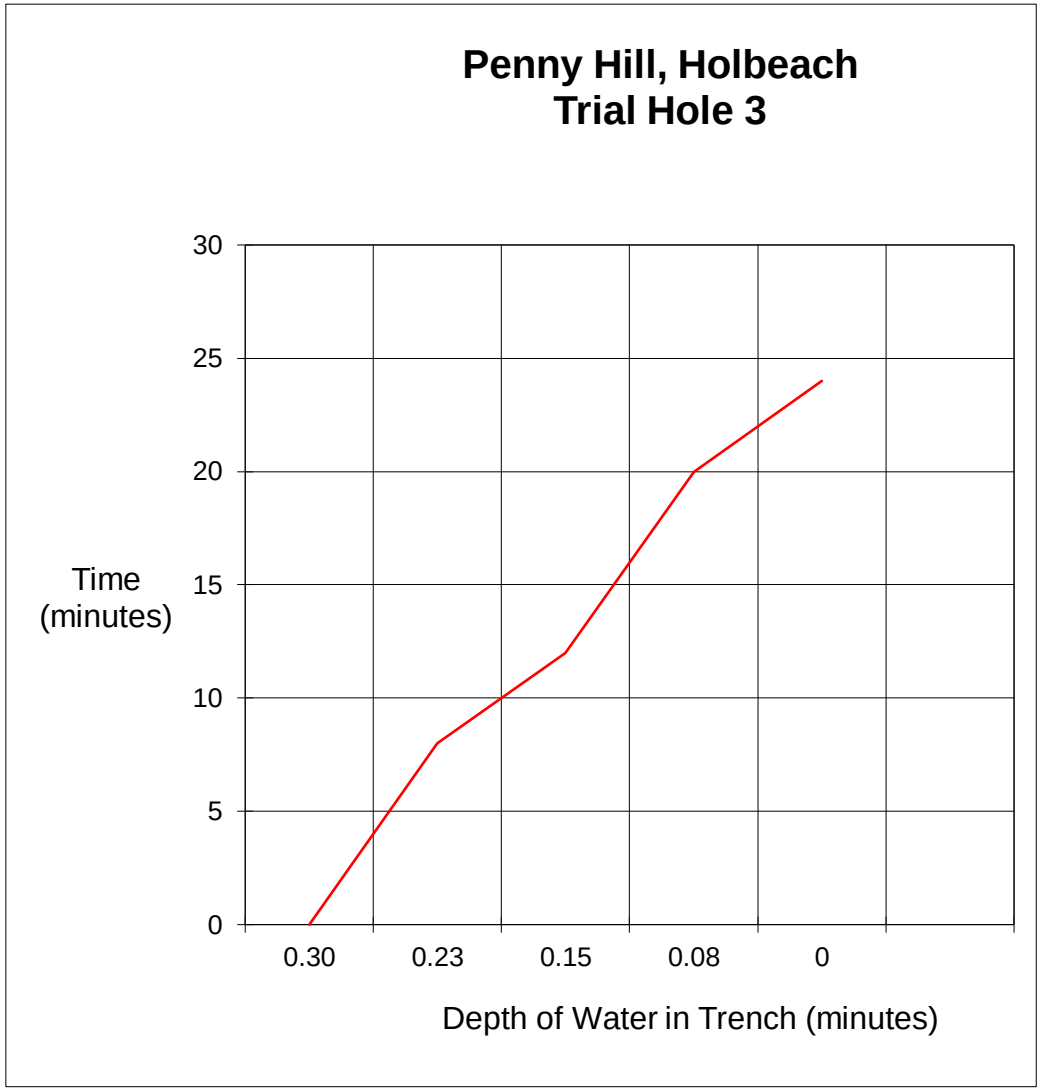
Time (min)	Depth to Water (m)	Depth of Water (m)
0	0	0.30
		0.23
6	0.08	
12	0.15	0.15
19	0.23	0.08
24	0.30	0

Pit Dimensions (m)	
Pit Length	1
Pit Width	0.7
Pit Depth	3
Pipe Length	0.3
Void Space	100%
Depths (m)	
D75	0.225
D25	0.075
D50	0.15
Times (minutes)	
T75	6.0000
T25	19.0000
Volumes, Areas and Times	
Vp75-25	0.1050
Ap50	1.21
Tp75-25	13
q (m/minute)	0.00668
q (mm/hour)	400.5
q (m/sec)	0.000111252
q(m/hr)	0.400508582



Time (min)	Depth to Water (m)	Depth of Water (m)
0	0	0.30
5	0.08	0.23
10	0.15	0.15
18	0.23	0.08
22	0.30	0

Pit Dimensions (m)	
Pit Length	1
Pit Width	0.7
Pit Depth	3
Pipe Length	0.3
Void Space	100%
Depths (m)	
D75	0.225
D25	0.075
D50	0.15
Times (minutes)	
T75	5.0000
T25	18.0000
Volumes, Areas and Times	
Vp75-25	0.1050
Ap50	1.21
Tp75-25	13
q (m/minute)	0.00668
q (mm/hour)	400.5
q (m/sec)	0.000111252
q(m/hr)	0.400508582



Trial Pit 3 Photos





Time (min)	Depth to Water (m)	Depth of Water (m)
0	0	0.30
7	0.08	0.23
11	0.15	0.15
19	0.23	0.08
22	0.30	0

Pit Dimensions (m)

Pit Length	1
Pit Width	0.7
Pit Depth	3
Pipe Length	0.3
Void Space	100%

Depths (m)

D75	0.225
D25	0.075
D50	0.15

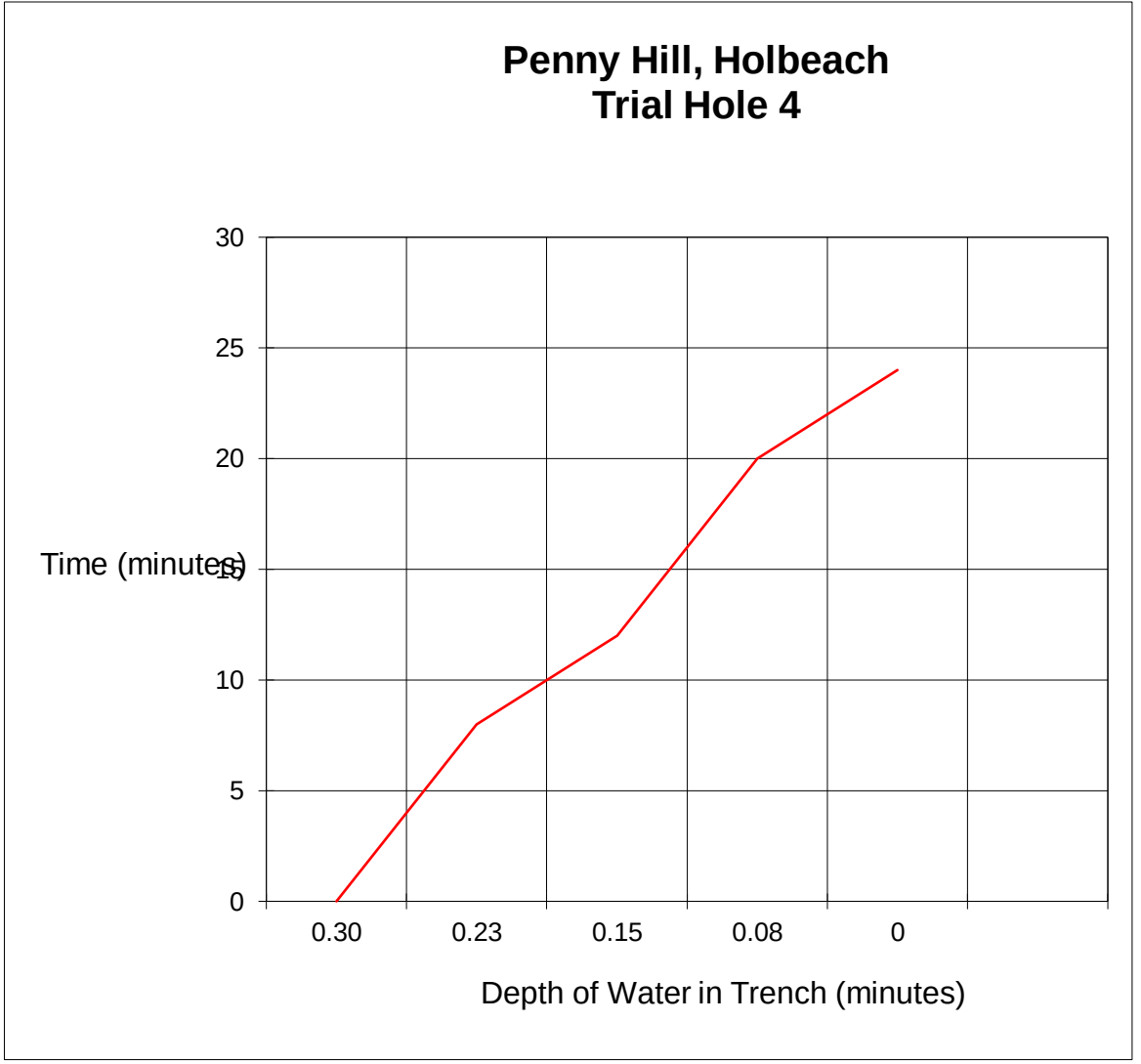
Times (minutes)

T75	7.0000
T25	19.0000

Volumes, Areas and Times

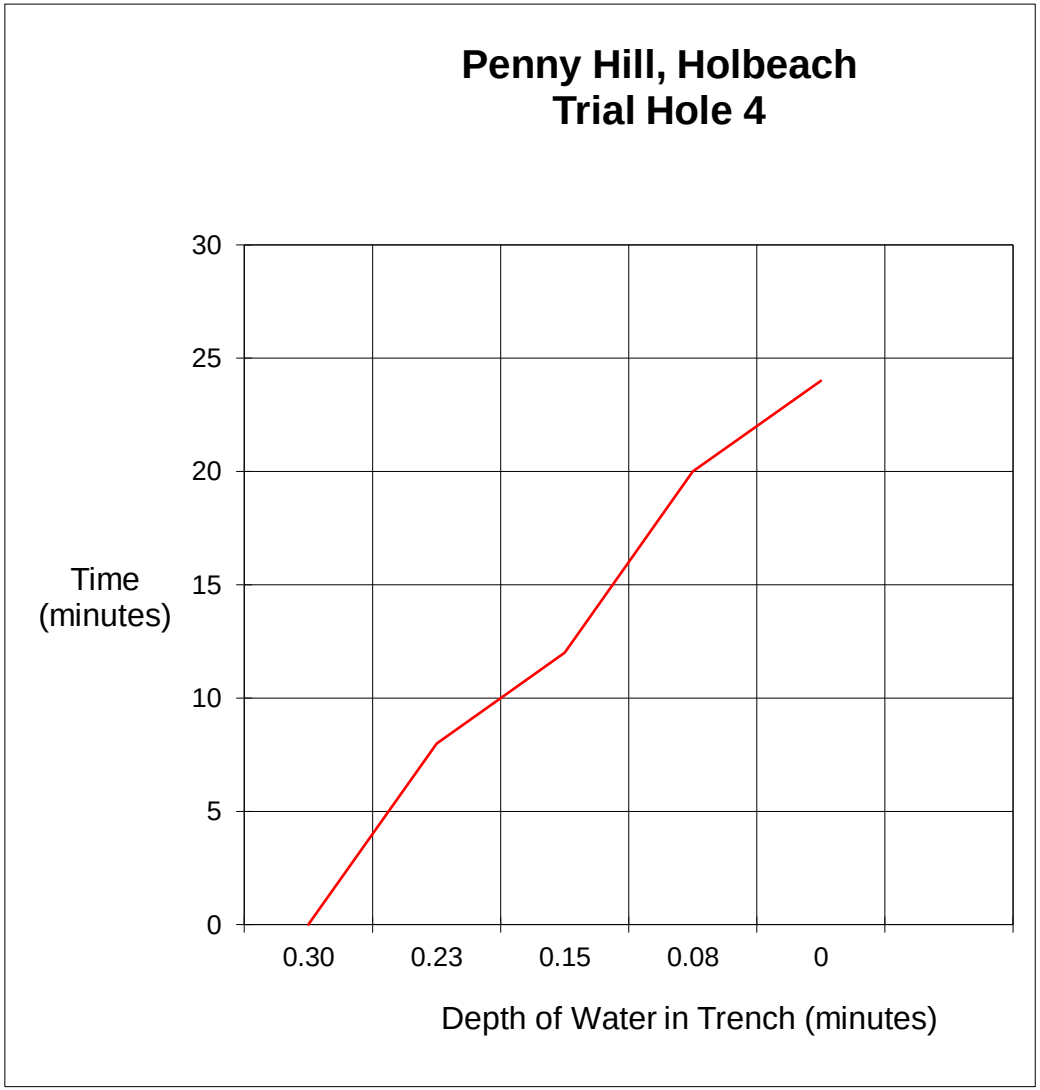
Vp75-25	0.1050
Ap50	1.21
Tp75-25	12

q (m/minute)	0.00723
q (mm/hour)	433.9
q (m/sec)	0.000120523
q(m/hr)	0.433884298



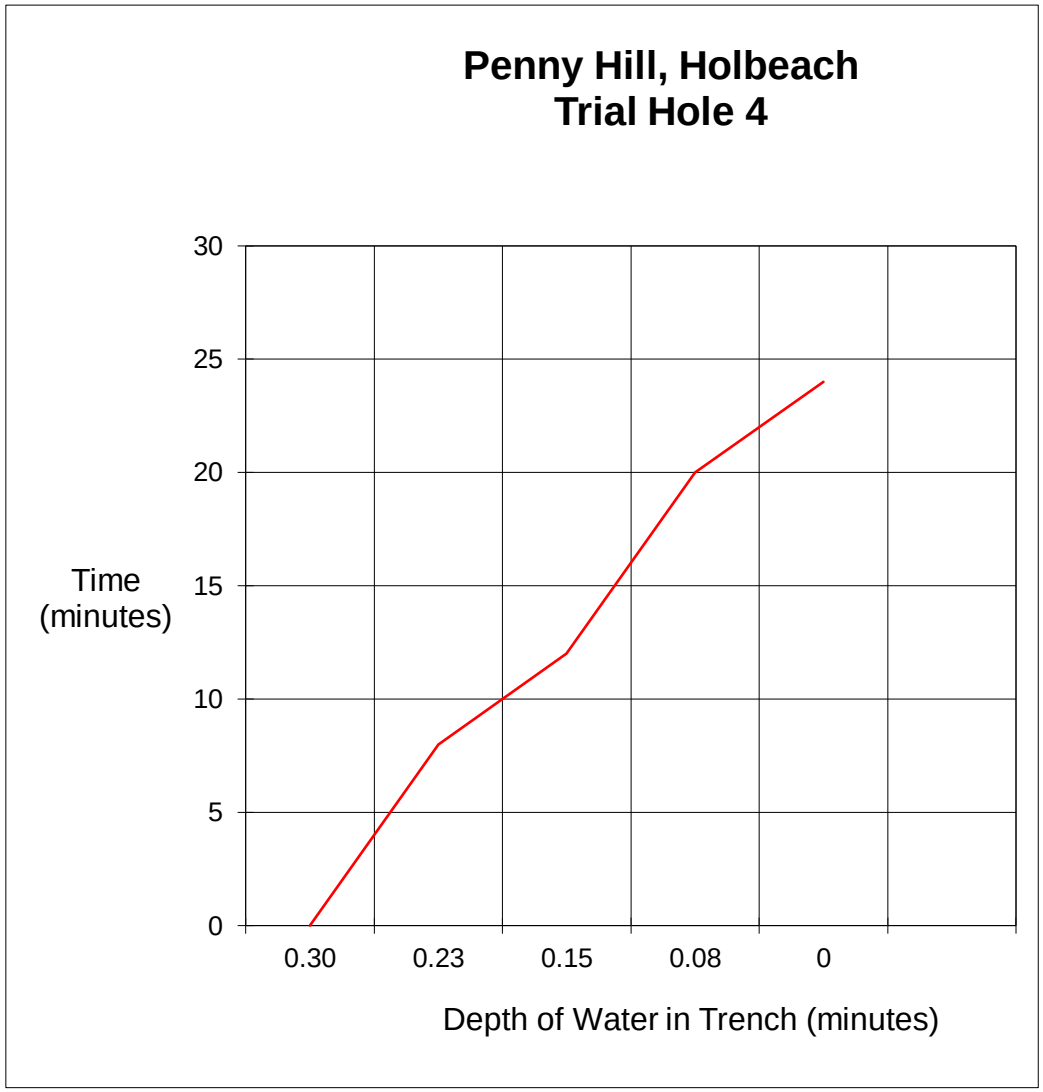
Time (min)	Depth to Water (m)	Depth of Water (m)
0	0	0.30
7	0.08	0.23
11	0.15	0.15
17	0.23	0.08
21	0.30	0

Pit Dimensions (m)	
Pit Length	1
Pit Width	0.7
Pit Depth	3
Pipe Length	0.3
Void Space	100%
Depths (m)	
D75	0.225
D25	0.075
D50	0.15
Times (minutes)	
T75	7.0000
T25	17.0000
Volumes, Areas and Times	
Vp75-25	0.1050
Ap50	1.21
Tp75-25	10
q (m/minute)	0.00868
q (mm/hour)	520.7
q (m/sec)	0.000144628
q(m/hr)	0.520661157



Time (min)	Depth to Water (m)	Depth of Water (m)
0	0	0.30
6	0.08	0.23
11	0.15	0.15
17	0.23	0.08
21	0.30	0

Pit Dimensions (m)	
Pit Length	1
Pit Width	0.7
Pit Depth	3
Pipe Length	0.3
Void Space	100%
Depths (m)	
D75	0.225
D25	0.075
D50	0.15
Times (minutes)	
T75	6.0000
T25	17.0000
Volumes, Areas and Times	
Vp75-25	0.1050
Ap50	1.21
Tp75-25	11
q (m/minute)	0.00789
q (mm/hour)	473.3
q (m/sec)	0.00013148
q(m/hr)	0.473328325



Trial Pit 4 Photos

