


Appendix 8 – Greenfield Runoff Rates

Considine Limited		Page 1
25 Hollingworth Court Kent ME14 5PP	4613 THE STREET, BARHAM GREENFIELD-DRAINED AREA-P01	
Date 12/11/2021 File	Designed by AEP Checked by JEM	
Innovyze Source Control 2020.1.3		

ICP SUDS Mean Annual Flood

Input

Return Period (years)	100	Soil	0.150
Area (ha)	0.306	Urban	0.000
SAAR (mm)	800	Region Number	Region 7

Results 1/s

QBAR Rural	0.1
QBAR Urban	0.1
Q100 years	0.5
Q1 year	0.1
Q30 years	0.3
Q100 years	0.5

©1982-2020 Innovyze

Appendix 9 – BRE365 Infiltration Test Results

FIELD SOAKAGE TEST DATA SHEET

considine
civil + structural engineers

Pit length = 2.7 m
Pit width = 450 mm m
Pit depth = 2.7 m
Depth to top of water from ground level = ~~with~~ 2.3 m
Start time of test 9:32 am
End time of test 9:40 am } *filling time.*
Weather conditions Dry with rain night before.

Observations and comments:

Soil type (highlight as necessary): gravel sand silt clay.

Please state depth of various strata.

General instructions:

1. Dig a pit generally 2m long, 2m deep and 450mm wide. Trim the sides and base to make a regular shape as possible. Record the dimensions above.
2. Pour water in rapidly, use a bowser – do not use a hose to fill the hole as this will ruin the test. Ideally fill the pit, but if not possible, 1m depth is acceptable.
3. Measure the depth of water until empty over time using the table overleaf.
4. Undertake the test at least three times – this will likely be on a second and third day.

Considine job No. _____
Date. _____

FIELD SOAKAGE TEST DATA SHEET

considine
civil + structural engineers

[illegible]

Considine job No. _____
Date. _____

FIELD SOAKAGE TEST DATA SHEET

considine
civil + structural engineers

Pit length = 2.7 m
Pit width = 450 mm m
Pit depth = 2.7 m
Depth to top of water from ground level = 2.2 m
Start time of test 10:22 am
End time of test 10:30 } *filling time*
Weather conditions Dry - heavy rain night before.

Observations and comments:

Soil type (highlight as necessary): gravel sand silt clay.

Please state depth of various strata.

General instructions:

1. Dig a pit generally 2m long, 2m deep and 450mm wide. Trim the sides and base to make a regular shape as possible. Record the dimensions above.
2. Pour water in rapidly, use a bowser – do not use a hose to fill the hole as this will ruin the test. Ideally fill the pit, but if not possible, 1m depth is acceptable.
3. Measure the depth of water until empty over time using the table overleaf.
4. Undertake the test at least three times – this will likely be on a second and third day.

Considine job No. _____
Date. _____.

Considine job No. _____
Date. _____.

FIELD SOAKAGE TEST DATA SHEET

considine
civil + structural engineers

Pit length = 2.7 m
Pit width = 450 mm m
Pit depth = 2.6 m
Depth to top of water from ground level = 2.23 m
Start time of test 11:04 am
End time of test 11:08 } filling time
Weather conditions dry with heavy rain night before.

Observations and comments:

Soil type (highlight as necessary): gravel sand silt clay.

Please state depth of various strata.

General instructions:

1. Dig a pit generally 2m long, 2m deep and 450mm wide. Trim the sides and base to make a regular shape as possible. Record the dimensions above.
2. Pour water in rapidly, use a bowser – do not use a hose to fill the hole as this will ruin the test. Ideally fill the pit, but if not possible, 1m depth is acceptable.
3. Measure the depth of water until empty over time using the table overleaf.
4. Undertake the test at least three times – this will likely be on a second and third day.

Considine job No. _____
Date. _____

Considine job No. _____
Date. _____

FIELD SOAKAGE TEST DATA SHEET

considine
civil + structural engineers

Pit length = 2 m

Pit width = 450 mm m

Pit depth = 2.75 m

Depth to top of water from ground level = 2.260 m

Start time of test 10:06 am

End time of test 10:14 am

Weather conditions

} All day time.
Dry with rain night before.

Observations and comments:

Soil type (highlight as necessary): gravel sand silt clay.

Please state depth of various strata.

General instructions:

1. Dig a pit generally 2m long, 2m deep and 450mm wide. Trim the sides and base to make a regular shape as possible. Record the dimensions above.
2. Pour water in rapidly, use a bowser – do not use a hose to fill the hole as this will ruin the test. Ideally fill the pit, but if not possible, 1m depth is acceptable.
3. Measure the depth of water until empty over time using the table overleaf.
4. Undertake the test at least three times – this will likely be on a second and third day.

Considine job No. _____

Date. _____

FIELD SOAKAGE TEST DATA SHEET

considine
civil + structural engineers

[illegible]

Considine job No. _____
Date. _____

civil + structural engineers

Pray with heavy even night before.

Date. _____

FIELD SOAKAGE TEST DATA SHEET

considine
civil + structural engineers

[illegible]

Considine job No. _____
Date. _____

FIELD SOAKAGE TEST DATA SHEET

Pit length = 2 m

Pit width = 450 mm m

Pit depth = 2.45 m

Depth to top of water from ground level = 2.33 m

Start time of test 11:22 am

End time of test 11:29 am

Weather conditions

} filling time
Dry - heavy rain night before

Observations and comments:

Soil type (highlight as necessary): gravel sand silt clay.

Please state depth of various strata.

General instructions:

1. Dig a pit generally 2m long, 2m deep and 450mm wide. Trim the sides and base to make a regular shape as possible. Record the dimensions above.
2. Pour water in rapidly, use a bowser – do not use a hose to fill the hole as this will ruin the test. Ideally fill the pit, but if not possible, 1m depth is acceptable.
3. Measure the depth of water until empty over time using the table overleaf.
4. Undertake the test at least three times – this will likely be on a second and third day.

Considine job No. _____
Date. _____

FIELD SOAKAGE TEST DATA SHEET

civil + structural engineers

[illegible]

Considine job No. _____
Date. _____

BRE365 SOIL INFILTRATION RATE

considine
civil + structural engineers

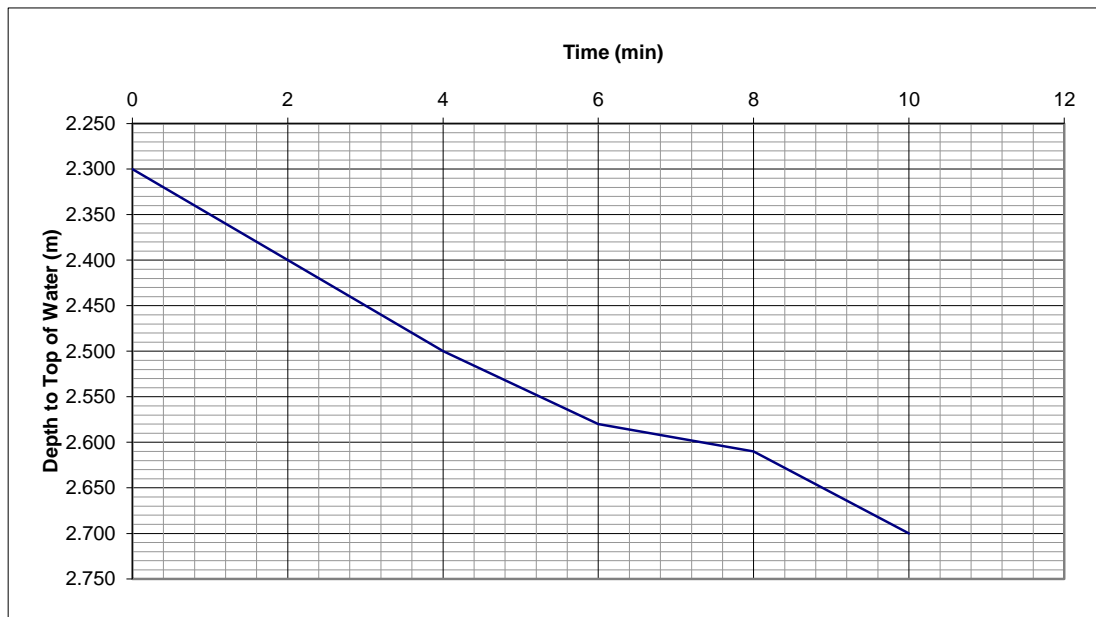
Project No: **4613** Sheet No. **1**
Made By: **JEM** Revision: **P01**
Date: **20/09/2022** Project: **BARHAM**

PIT 1 - TEST 1

Length (m):	2.70		
Width (m):	0.45	Depth at 75% Full (m):	2.40
Depth (m):	2.70	Time at 75% Full (mins.):	2.00
Void Ratio:	1.00		
		Depth at 25% Full (m):	2.60
		Time at 25% Full (mins.):	7.33

V_{p75-25} :	0.24
a_{p50} :	2.48
t_{p75-25} :	5.33

f : 3.07E-04 m/s



BRE365 SOIL INFILTRATION RATE

considine
civil + structural engineers

Project No: **4613** Sheet No. **1**
Made By: **JEM** Revision: **P01**
Date: **20/09/2022** Project: **BARHAM**

PIT 1 - TEST 2

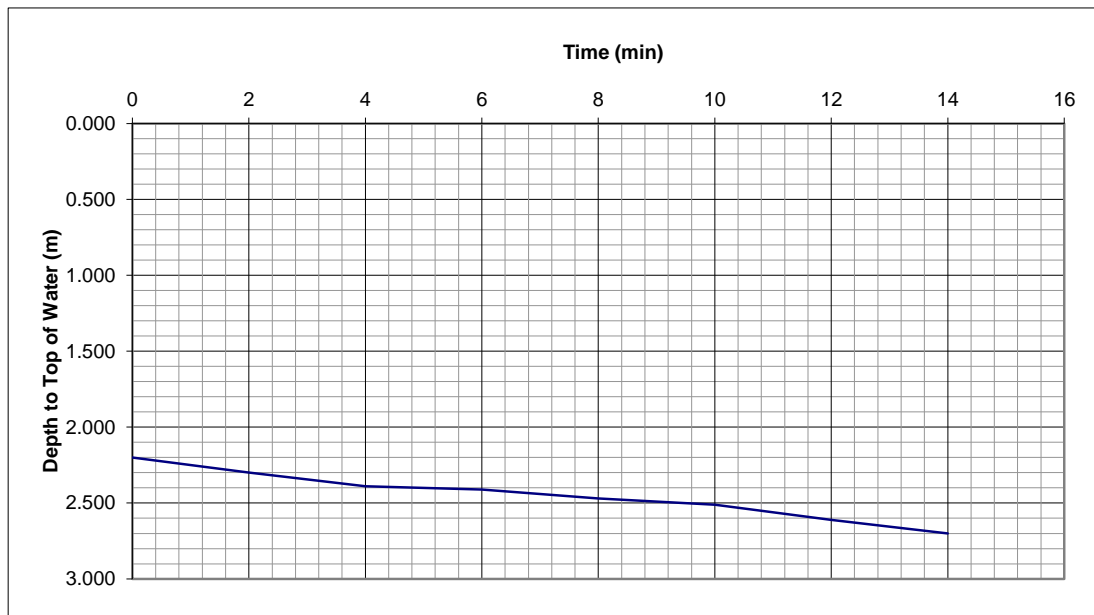
Length (m):	2.70	Depth at 75% Full (m):	2.33
Width (m):	0.45	Time at 75% Full (mins.):	2.56
Depth (m):	2.70		
Void Ratio:	1.00	Depth at 25% Full (m):	2.58
		Time at 25% Full (mins.):	11.30

V_{p75-25} : 0.30

a_{p50} : 2.79

t_{p75-25} : 8.74

f : 2.08E-04 m/s



BRE365 SOIL INFILTRATION RATE

considine
civil + structural engineers

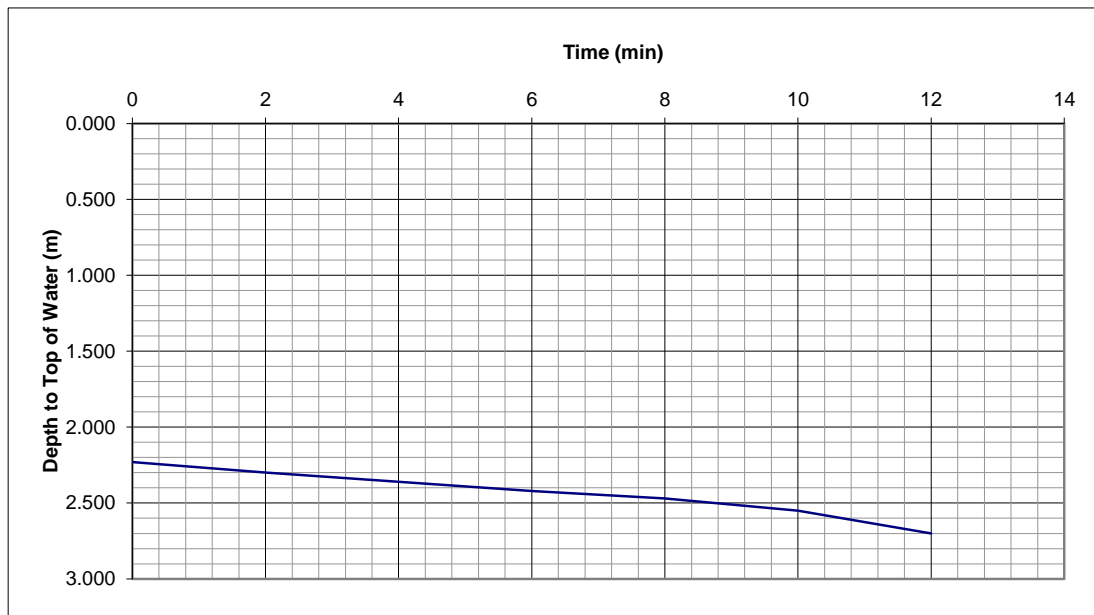
Project No: **4613** Sheet No. **1**
Made By: **JEM** Revision: **P01**
Date: **20/09/2022** Project: **BARHAM**

PIT 1 - TEST 3

Length (m):	2.70	Depth at 75% Full (m):	2.35
Width (m):	0.45	Time at 75% Full (mins.):	3.58
Depth (m):	2.70		
Void Ratio:	1.00	Depth at 25% Full (m):	2.58
		Time at 25% Full (mins.):	10.43

V_{p75-25} :	0.29
a_{p50} :	2.70
t_{p75-25} :	6.85

f : 2.58E-04 m/s



BRE365 SOIL INFILTRATION RATE

considine
civil + structural engineers

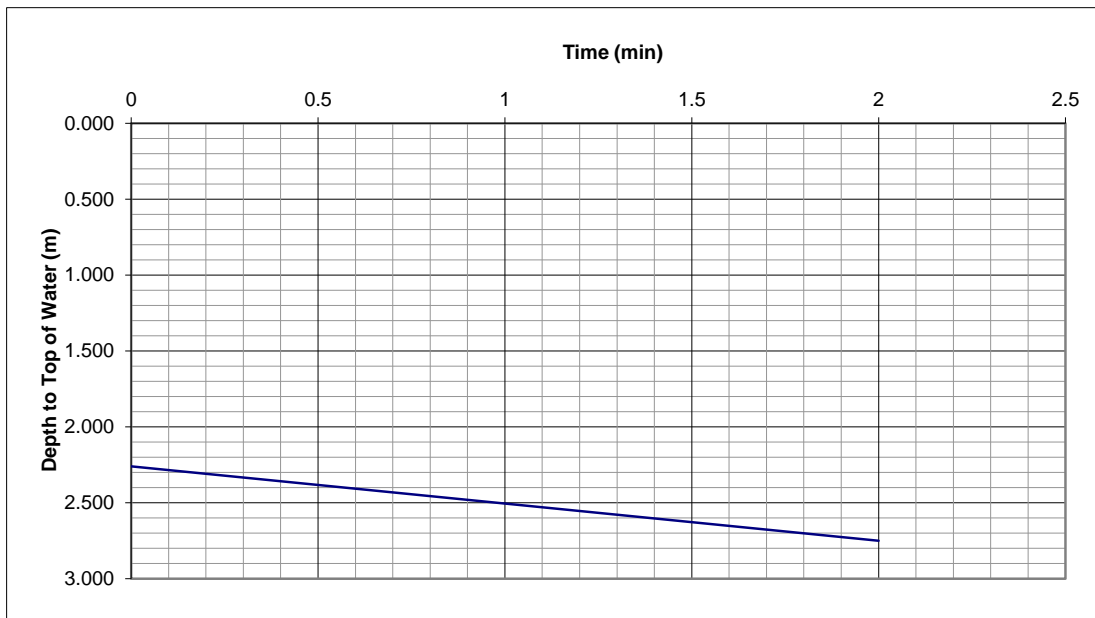
Project No: **4613** Sheet No. **1**
Made By: **JEM** Revision: **P01**
Date: **20/09/2022** Project: **BARHAM**

PIT 2 - TEST 1

Length (m):	2.00	Depth at 75% Full (m):	2.38
Width (m):	0.45	Time at 75% Full (mins.):	0.50
Depth (m):	2.75		
Void Ratio:	1.00	Depth at 25% Full (m):	2.63
		Time at 25% Full (mins.):	1.50

V_{p75-25} :	0.22
a_{p50} :	2.10
t_{p75-25} :	1.00

f : 1.75E-03 m/s



BRE365 SOIL INFILTRATION RATE

considine
civil + structural engineers

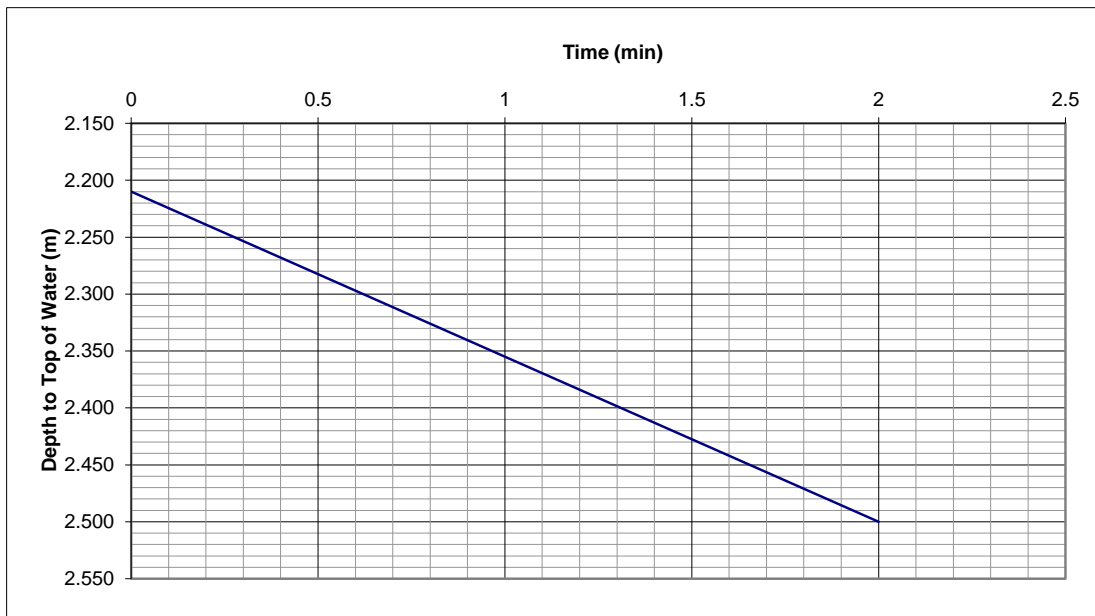
Project No: **4613** Sheet No. **1**
Made By: **JEM** Revision: **P01**
Date: **20/09/2022** Project: **BARHAM**

PIT 2 - TEST 2

Length (m):	2.00	Depth at 75% Full (m):	2.28
Width (m):	0.45	Time at 75% Full (mins.):	0.50
Depth (m):	2.50		
Void Ratio:	1.00	Depth at 25% Full (m):	2.43
		Time at 25% Full (mins.):	1.50

V_{p75-25} :	0.13
a_{p50} :	1.61
t_{p75-25} :	1.00

f: 1.35E-03 m/s



BRE365 SOIL INFILTRATION RATE

considine
civil + structural engineers

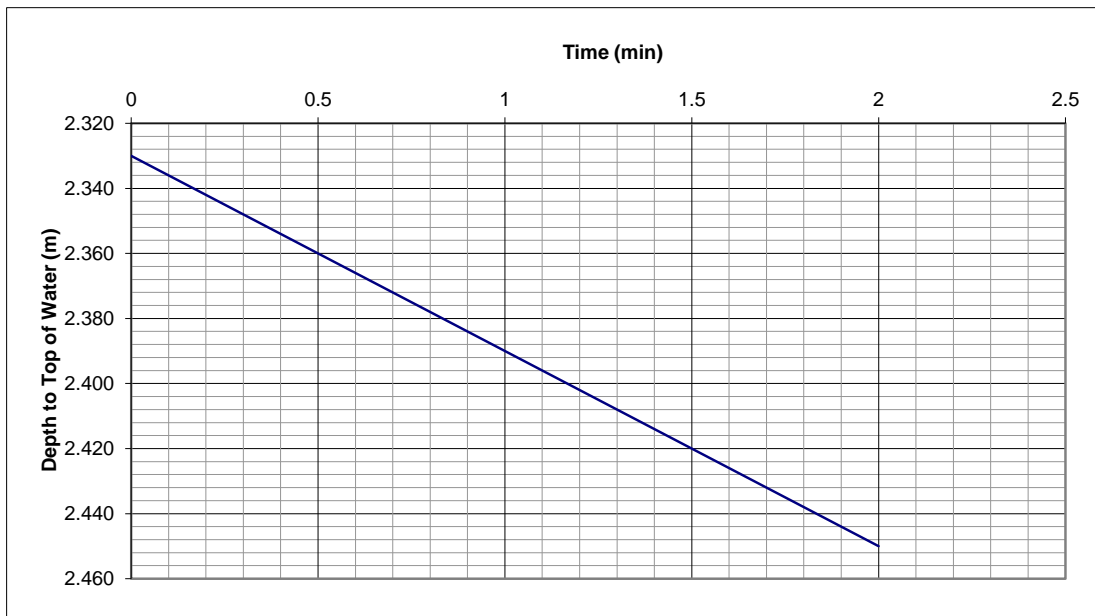
Project No: **4613** Sheet No. **1**
Made By: **JEM** Revision: **P01**
Date: **20/09/2022** Project: **BARHAM**

PIT 2 - TEST 3

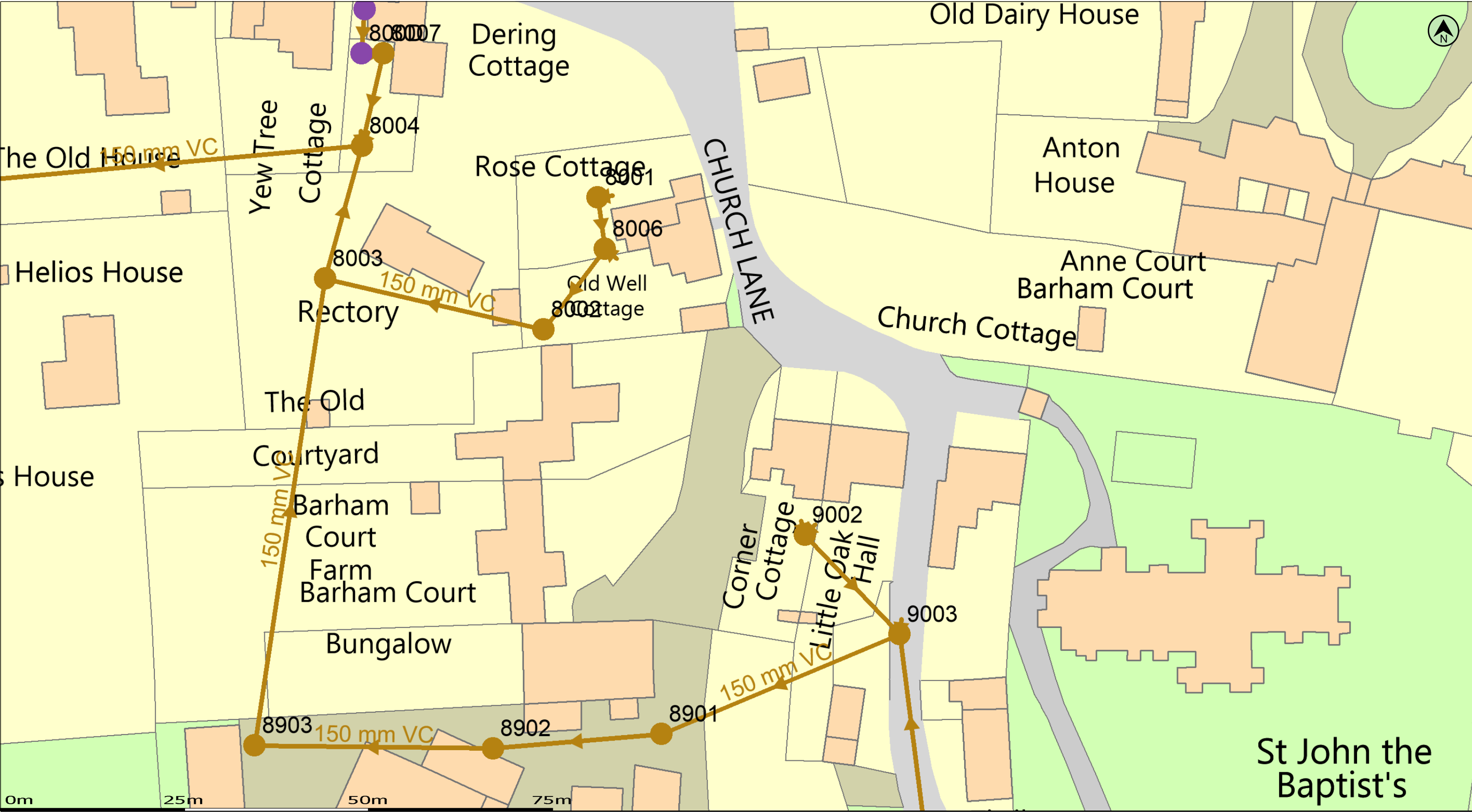
Length (m):	2.00	Depth at 75% Full (m):	2.36
Width (m):	0.45	Time at 75% Full (mins.):	0.50
Depth (m):	2.45		
Void Ratio:	1.00	Depth at 25% Full (m):	2.42
		Time at 25% Full (mins.):	1.50

V_{p75-25} :	0.05
a_{p50} :	1.19
t_{p75-25} :	1.00

f: 7.54E-04 m/s



Appendix 10 – Public Sewer Records



(c) Crown copyright and database rights 2020 Ordnance Survey 100031673 Date: 06/10/20 Scale: 1:500 Map Centre: 620909,150037 Data updated: 21/09/20 Our Ref: 444896 - 1 Wastewater Plan A3

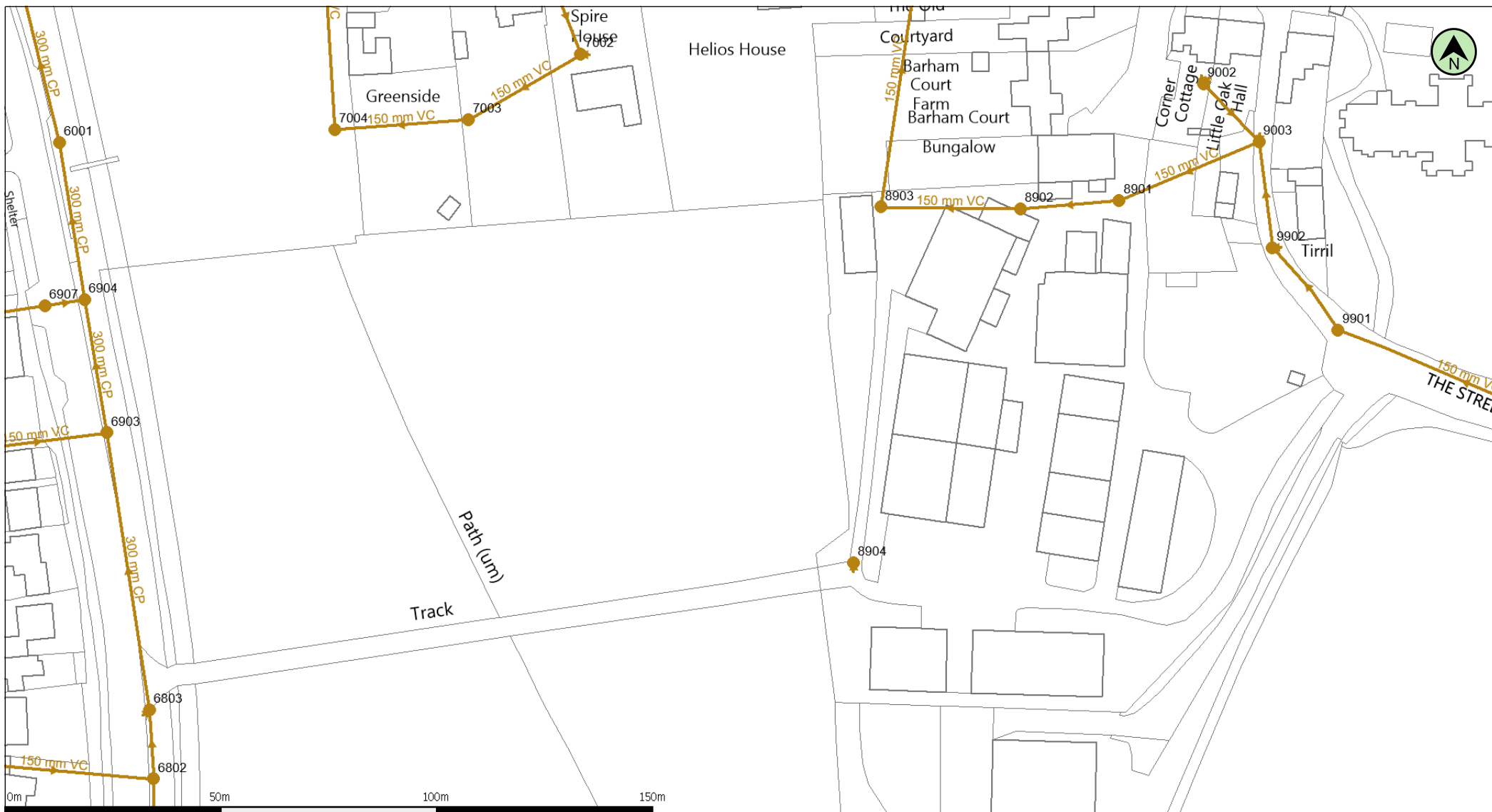
The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2020 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.

tim@romahomes.co.uk
Barham Court Farm





(c) Crown copyright and database rights 2020 Ordnance Survey 100031673

Date: 20/10/20

Scale: 1:1250

Map Centre: 620814,149944

Data updated: 21/09/20

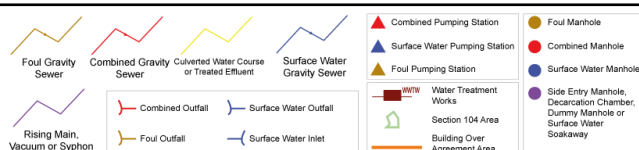
Our Ref: 449413 - 1

Wastewater Plan A4

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2020 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.



payments.utilitiesolutions@atkingglob

89356



CHECKED

