Location Search / C2 Utility Stats Searches

Our Network Asset Search platform will highlight where we may have plant or apparatus within the vicinity of the co-ordinates you enter.

It is important to note that the search result information provided is to be used as a guide only. To ensure safety during the activity, your organisation must follow HSG47 guidelines to locate any buried services in the vicinity and follow a safe system of work during the work activity.

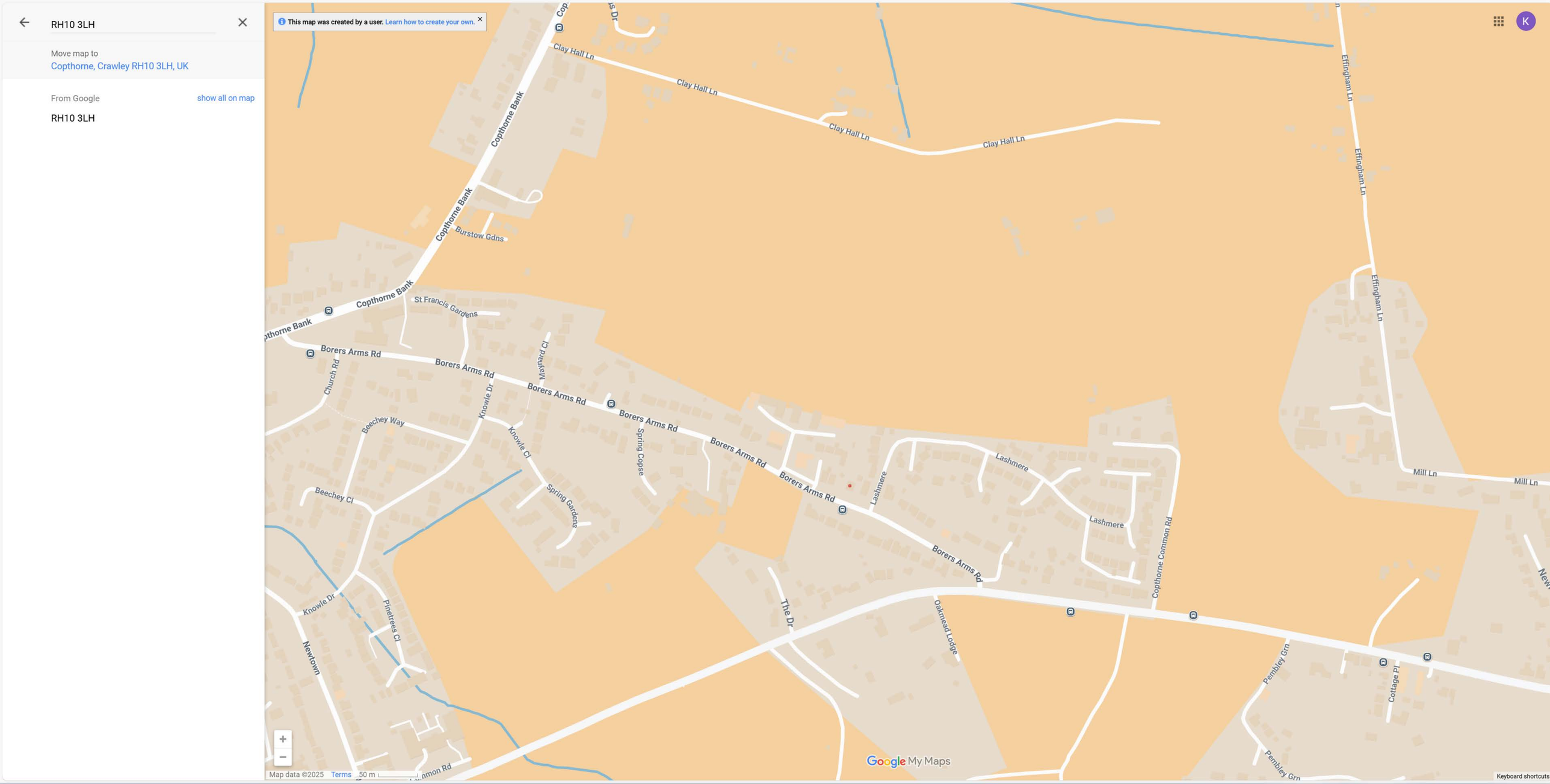
Eastings X	532381
Northings Y	139676
Project Reference	428946

Message/Comment

Submit

Note: Please search with a minimum of 5 digits to get the nearby Power network locations.

We have identified that we do not have any network assets within 500m of your searched location.


RH10 3LH
Move map to
Copthorne, Crawley RH10 3LH, UK
From Google
show all on map
RH10 3LH
This map was created by a user. Learn how to create your own.
Clay Hall Ln
Copthorne Bank
Burstow Gdns
St Francis Gardens
Borers Arms Rd
Church Rd
Beechey Way
Knowle Dr
Knowle Cl
Spring Gardens
Spring Coppice
Beechey Cl
Pinetrees Cl
Newtown
Lashmere
Copthorne Common Rd
The Dr
Oakmead Lodge
Effingham Ln
Mill Ln
Pembley Grn
Cottage Pl
Google My Maps
Map data ©2025
Terms
50 m
Keyboard shortcuts

Outlook

Automatic reply: [External]Bring Energy C2 NA Response

From UK-NRSWA <nrswa@bringenergy.com>
Date Wed 2025-02-12 09:29
To David Haigh <david.haigh@apogeepropertyandutilityconsultants.com>

Bring Energy

Thank you for your enquiry. This mail box is monitored constantly

Bring Energy owns and operates district energy networks in the following areas and have buried pipework either inside or very close to the area codes listed below:

- Birmingham - B1-B9, B15-B19
- Coventry - CV1, CV2 & CV3
- Eastleigh - SO50
- Southampton - SO14, SO15 & SO17
- Hatfield - AL10
- Leicester - LE1-LE5
- Leeds - LS2
- Liverpool - L9 7AL
- London
  - Bloomsbury - W1, WC1, WC2, NW1 & N1C
  - Olympic Site - E3, E7, E9-E11, E13, E15 & E20
  - Whitehall -SW1A, SW1E, SW1H, SW1P, SW1V & SW1Y
  - Embassy Quarter - SW8, SW11
  - ExCel Exhibition Centre - E16
- Newcastle – NE4 5QB

Due to the volume of enquiries, Bring Energy is only able to respond to enquiries which fall within the above Areas of Interest.

If your enquiry falls within these areas, Bring Energy will respond with a further email containing details of buried assets which may or may not affect your work.

Bring Energy Document Control

e: NRSWA@bringenergy.com

w: bringenergy.com

bitmap_layout select_raster

LEGEND

EXISTING PLANT

EXISTING PLANT

bitmap_layout select_raster

Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE

Tel: 0845 293 0774
Web: www.cityfibre.com

Asset Office
CityFibre Holdings Ltd,
Rutherford House,
Birchwood,
Warrington,
WA3 6ZH

Email: asset.team@cityfibre.com

Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 28/03/2025

Drawing No.

CFH_EP_000001

Revision

001

Scale: 1:2500

A4

0m 20m 40m 60m 80m 100m

N

bitmap_layout select_raster

LEGEND

EXISTING PLANT

EXISTING PLANT

bitmap_layout select_raster

Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE

Tel: 0845 293 0774
Web: www.cityfibre.com

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0m 20m 40m 60m 80m 100m

N

bitmap_layout select_raster

LEGEND

EXISTING PLANT

EXISTING PLANT

bitmap_layout select_raster

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Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 28/03/2025

Drawing No.

CFH_EP_000001

Revision

001

Scale: 1:2500

A4

0m 20m 40m 60m 80m 100m

N

Copthorne, Crawley RH10 3LH, UK

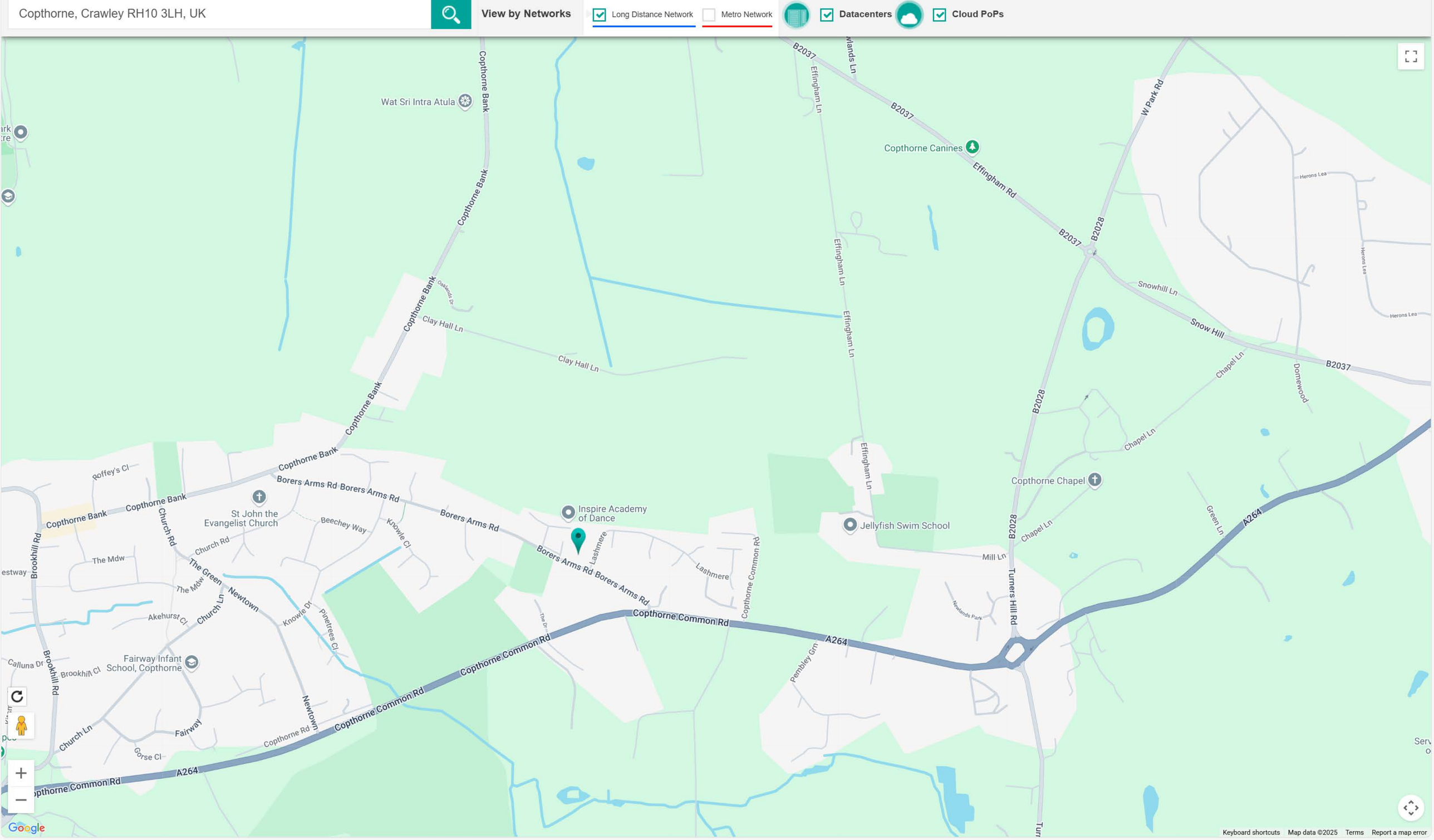
View by Networks

Long Distance Network

Metro Network

Datacenters

Cloud PoPs



From:	Plantenquiries
To:	Keith Smith
Subject:	RE: E03-25-6334 VERY VERY URGENT C2 ENQUIRY REQUEST 428946 Roundabouts Farm
Date:	25 March 2025 09:24:27
Attachments:	image005.png image002.png image006.png image591495.png

Dear Sir or Madam,

Thank you for your plant enquiry below.

We can confirm that Lumen Technologies (formerly CenturyLink Communications UK Limited, Level 3, Global Crossing (UK) Ltd, Global Crossing PEC, Fibernet UK Ltd and Fibrespan Ltd) do not have any apparatus within the indicated works area.

OCU responds to plant enquiries for all of the above and therefore you only need send one plant enquiry to cover all of these companies.

This response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Please note that our email address has changed from **plantenquiries@instalcom.co.uk** to **plantenquiries@ocugroup.com**. Could you please update your records accordingly.

Response times for plant requests are up to 10 working days. Please allow for 10 working days to pass before chasing requests unless they were urgent.

If you require any further information, please do not hesitate to contact us.

Regards

Plant Enquiries Dept
OCU
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: plantenquiries@ocugroup.com
Web: http://www.ocugroup.com

From: Nraswa
To: Keith Smith
Subject: RE: VERY VERY URGENT C2 ENQUIRY REQUEST 428946 Roundabouts Farm
Date: 25 March 2025 08:50:10
Attachments: image002.png

Hello,

Location : 428946 Roundabouts Farm

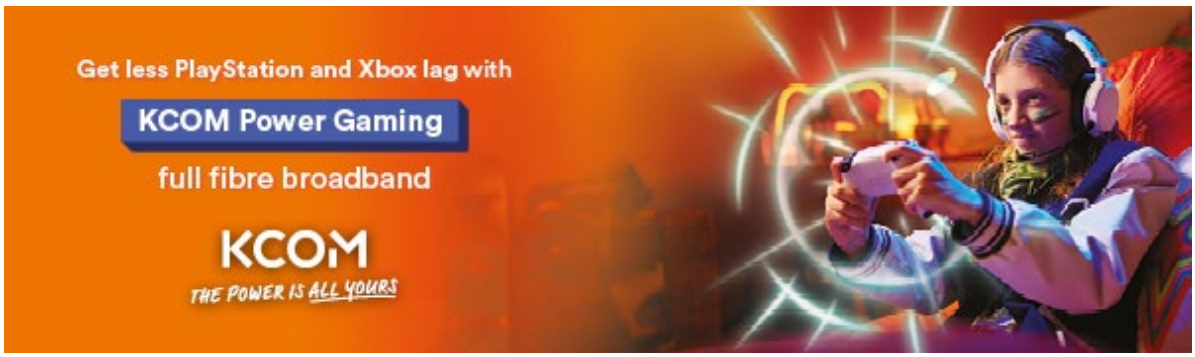
At this time the KCOM Group PLC has no apparatus or proposals for new apparatus in the vicinity of these works and will not be affected by them. Please note this reply is valid for 3 months from the date of this letter.

KCOM now offer this service free on-line, to register for this please contact Tony Ford at Tony.Ford@Kcom.com

Kind Regards

Matthew Franklin
External Network Planner

Email: Matthew.Franklin@kcom.com
Mobile: 07484 530039
www.kcom.com



From: Keith Smith <keith.smith@apogeepropertyandutilityconsultants.com>
Sent: 25 March 2025 08:38
To: Nraswa <nraswa@kcom.com>
Subject: VERY VERY URGENT C2 ENQUIRY REQUEST 428946 Roundabouts Farm

Dear Sir or Madam,

From: MBNL.plant.enquiries
To: Keith Smith
Subject: RE: VERY VERY URGENT C2 ENQUIRY REQUEST 428946 Roundabouts Farm
Date: 27 March 2025 09:19:20
Attachments: image001.png

Dear Sir/Madam

Turner & Townsend Project Management are appointed on behalf of MBNL to conduct Plant (apparatus) Searches in accordance with the relevant NRSWA Act 1991- Diversionary Works legislation. These searches considered plant belonging to EE (T-Mobile and Orange sites) and the HG3 mobile telecommunication networks.

MBNL do not have any plant that would be affected by the proposed work. Should you have any further queries please use the contact details below.

Thank you,

Kind regards,

MBNL SHQE Team

Turner & Townsend Advisory
t: 0121 262 3663 | www.turnerandtownsend.com

Turner & Townsend Europe Limited
Registered office: Low Hall, Calverley Lane, Horsforth, Leeds LS18 4GH, United Kingdom |
Registered in England and Wales | Registration No: 3514794

From: Keith Smith <keith.smith@apogeepropertyandutilityconsultants.com>
Sent: Tuesday, March 25, 2025 8:38 AM
To: MBNL.plant.enquiries <mbnl.plant.enquiries@turntown.com>
Subject: VERY VERY URGENT C2 ENQUIRY REQUEST 428946 Roundabouts Farm

Dear Sir or Madam,

ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works)'
My client is considering a scheme involving major highway works as detailed below:
Scheme Number: 428946
Location of Works : Roundabouts Farm
Postcode: RH10 3LH
O.S. Grid Ref.: 532381 , 139676
Road: Clay Hall Lane
From: Copthorne Bank
To: Lashmere
Description of Works: Utility Work

From: NRSWA
To: Keith Smith
Subject: VERY VERY URGENT C2 ENQUIRY REQUEST 428946 Roundabouts Farm
Date: 25 March 2025 08:52:23
Attachments: image003.png
image001.png

Thank you for your enquiry.

Please be advised that Sky Telecommunications Services Ltd will not be affected by your proposal.

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us by email at nrswa@sky.uk.

Regards

NRSWA Department
Sky UK – Technology - Operations
nrswa@sky.uk +44 2070323234

From: Keith Smith <keith.smith@apogeepropertyandutilityconsultants.com>
Sent: 25 March 2025 08:38
To: NRSWA <nrswa.nrswa@sky.uk>
Subject: [EXTERNAL] VERY VERY URGENT C2 ENQUIRY REQUEST 428946 Roundabouts Farm

Dear Sir or Madam,

ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary

From: SOTA Plant Enquiries
To: Keith Smith
Subject: RE:S03-25-3014 VERY VERY URGENT C2 ENQUIRY REQUEST 428946 Roundabouts Farm
Date: 25 March 2025 13:55:43
Attachments: image003.png
image004.png
image006.png
image232221.png

Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that SOTA do not have any apparatus within the immediate proximity of your proposed works.

This response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Please note that our email address has changed from sota.plantenquiries@instalcom.co.uk to sota.plantenquiries@ocugroup.com. Could you please update your records accordingly.

Response times for plant requests are up to 10 working days. Please allow for 10 working days to pass before chasing requests.

-

If you require any further information, please do not hesitate to contact us.

Regards

Plant Enquiries Dept
OCU
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: sota.plantenquiries@ocugroup.com
Web: http://www.ocugroup.com

Arelion

Public

Date
2024-01-02

Contact
Arelion Infrastructure Team

check-network@arelion.com

Your reference: **428946 Roundabouts Farm, Clay Hall Lane**

Our reference: **LPENQ0000151412**

Dear Sir/Madam,

Responding to your Line Plant Enquiry we would like to inform you that Arelion's network is not in the vicinity of the location which was detailed in your enquiry.

Our team is seeking an opportunity to cooperate with Enquirers whose enquiries are targeting locations far away from our network. Our intention is to reduce the number of out-of-area requests and save time and manpower on both sides. If you can utilize our network KMZ map to see where our network is located and to pre-filter the enquiries which are far from our network, please contact us at check-network@arelion.com and we will provide you a KMZ network map.

Please note that all enquiries relating to the Arelion line plant should forwarded to:

By post – to, **Arelion Uk Ltd**

69-77 Paul Street

3rd Floor

London

EC2A 4NW

By email – to, check-network@arelion.com

By phone – to, 08000287406
003618089955

Yours faithfully

Telent Technology Services CCO (responding on behalf of Arelion)
Basildon

From: UK OSP-Team .
To: Keith Smith; UK OSP-Team
Subject: Re: VERY VERY URGENT C2 ENQUIRY REQUEST 428946 Roundabouts Farm
Date: 25 March 2025 10:25:41
Attachments: image002.png

Dear Sir/Madam

Verizon is a licensed Statutory Undertaker.

We have reviewed your plans and have determined that Verizon (Formally known as MCI WorldCom, MFS) has no apparatus in the areas concerned.

If you have any further queries please do not hesitate to get in touch.

Yours faithfully

Plant Protection Officer (GGS) Email osp-team@uk.verizon.com

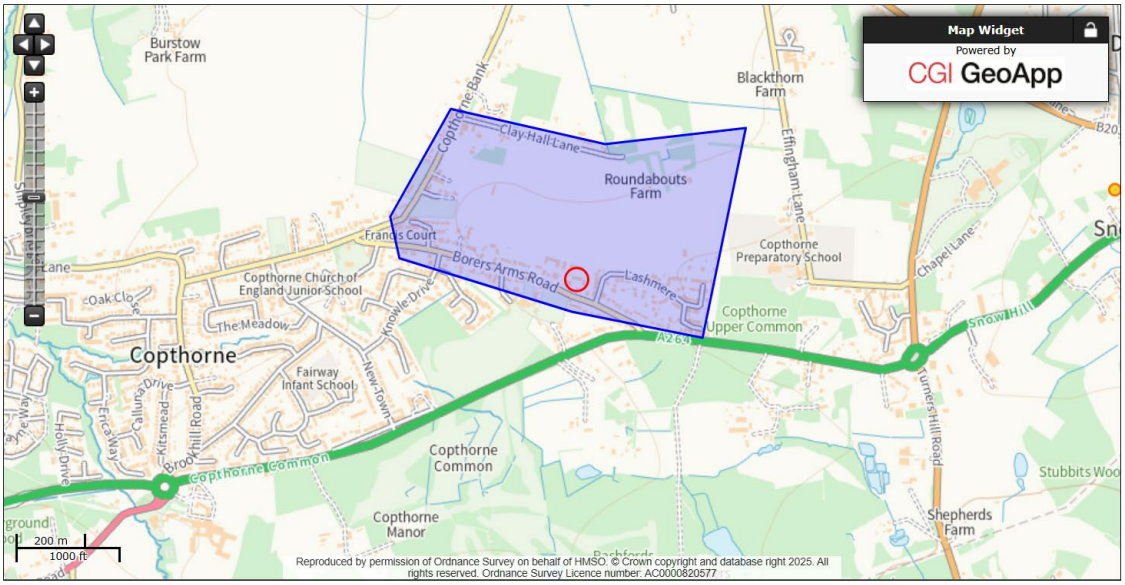
www.verizon.com

On Tue, 25 Mar 2025 at 08:39, Keith Smith <keith.smith@apogeepropertyandutilityconsultants.com> wrote:

> Dear Sir or Madam,

Property address

BORERS YARD COTTAGES 1 , BORERS ARMS ROAD, COPTHORNE, WEST SUSSEX, RH10 3LH



Cancel Previous Next

Screen reference: MRP104

The Coal Authority You have 0 items in your basket Call: 0345 762 6848

Home Products

Recommended actions

We can confirm your boundary is:

- located off the coalfield
- not within the Cheshire Brine Compensation District

Cancel Previous Next

Screen reference: MRP410

The Coal Authority

The Coal Authority, 200 Lichfield Lane, Mansfield, Nottinghamshire NG18 4RG

Definition of Report Terms

Affected Plant – Where plant records indicate that the utility has plant in or near to the site.

Not Affected – Where the utility or we (using our maps and resources) have determined that there is no plant in or near the site.

No Response Received – Despite our chasing we are still to receive a response from the utility, you will get further reiterations of the report until it is complete, with the exception of the Council where in some cases they never respond.

Vodafone & Virgin Media

Virgin Media Option: We find that Virgin are affected by a lot of our searches particularly in urban areas you should only not search Virgin where you are happy with the risk or have certainty they are not in the site area.
Vodafone Option: We find that Vodafone are affected in less than 10% of enquires but this increases in urban area and the South East particularly in London.

NB. Should you change your mind and require us to search any or all of these three after you have received your report or within 90 days of receiving your report we will process any or all of the above with you only paying the disbursement charge levied by the relevant utility. In the event that you have not received your Invoice then the additional costs will be added. In cases where your Invoice has been issued then a new one will be issued at the point at which you instruct us to complete the additional search.

Acronyms Key

Electric			
DNO	Distribution Network Operator	KVA	Kilo Volt Amperes
IDNO	Independent Distribution Network Operator	MVA	Mega Volt Amperes
ICP	Independent Connections Provider	AC	Alternating Current
LV	Low Voltage	S/S	Substation
HV	High Voltage	PMT	Pole Mounted Transformer
EHV	Extra High Voltage		
Water			
SLO	Self Lay Organisation	WRAS	Water Regulation Advisory Scheme
Incumbent	Local Water or Water & Sewerage Company		
Gas			
GT	Gas Transporter	LP	Low Pressure
IGT	Independent Gas Transporter	MP	Medium Pressure
UIP	Utility Infrastructure Provider	IP	Intermediate Pressure
PRS	Pressure Reducing Station (Governor)	HP	High Pressure
Others			
AP	Apogee Property & Utility Consultants	CATV	Cable Television
PE	Polyethylene	FTTP	Fibre to the premise
DI	Ductile Iron	FTTC	Fibre to the cabinet
ST	Steel	l/min	Litres per minute
CI	Cast Iron	H&S	Health & Safety
SI	Spun Iron	HBF	House Builders Federation
HPPE	High Performance Polyethylene	TPO	Tree Preservation Order
MDPE	Medium Density Polyethylene	TBC	To be confirmed
GRP	Glass Reinforced Plastic	N/A	Not Applicable

Important Information

Relevant Documents

The following documents must be referred to before work commences in the vicinity of existing services:

- Health and Safety Booklet HS (GS) 6 Avoidance of Danger from Overhead Electric Lines.
- General Safety Measures to Avoid Injury and Damage to Gas Apparatus.
- HSE Guidance Note HS (G) 47 Avoiding Danger from Underground Services.
- National Joint Utilities Group (NJUG) Publications Vol. 1.
- CDM Regulations 2015.
- PAS 128:2014 Specification for Underground Utility Detection, Verification and Location.

Basic Risk Assumption for all Services

When dealing with existing services the following assumptions must always be accepted:

- All existing buildings have gas, water electric and telecoms supplies to them until proven otherwise.
- Any supply to an existing building, no matter how old the building is or how deteriorated the supply may appear, is taken to be 'live' until proven otherwise.
- All open land, vacant lots and derelict sites are deemed to have services beneath them until proven otherwise.
- The only acceptable proof that a service is 'dead' and can be removed is written confirmation from the owner of the service.
- Council Plans, where we are lucky enough to obtain them, often only include the locations of their plant and sometimes do not show connecting DNO or other plant that one might expect them to show. Comparisons with DNO connecting plant need to be made by the client to properly interpret them.
- The quality and accuracy of information provided by utilities about their existing plant is indicative and no warranty is made as to its accuracy. Therefore, any utility asset maps and/or marked up drawings provided by each utility must only be used as a guide and the actual location of plant should be verified by CAT Scan GPR survey or trial holes before construction works commence.
  Please note not all service connections are shown on the utility asset maps.

Plant Found Within Site Boundaries

Where utility plant is found within the site boundary, it is recommended for the client to check for legal easements or wayleaves a Wayleave search service is available from us please ask for a quotation.

Diversions of plant within site boundaries can be expensive and time consuming to relocate. Further investigation of costs and timescales are recommended. Please ask us for further details.

Appendix C Engineering logs

AQUA TERRA CONSULTING

Trial Pit

TP01

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	532281.00	139669.00		1:15

Project Name	Project No.	Start Date	End Date
Land North of Borers Arms Road	P25002	2025-04-14	2025-04-14

Client	Consultant	Contractor
Fairfax Acquisitions	RLW	ADP Group

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
						(0.30)		Grass covered, brown, slightly gravelly, slightly clayey, fine to medium SAND. Gravel is fine, sub rounded of flint. Abundant rootlets and iron oxide staining noted. (TOPSOIL)
						0.30		Light grey, mottled orangish brown, silty, fine to medium SAND. (UPPER TUNBRIDGE WELLS SAND)
						(0.50)		
						0.80		Light brown, gravelly, fine to medium SAND. Gravel is fine to coarse, sub angular of extremely weak siltstone. (UPPER TUNBRIDGE WELLS SAND)
						(0.70)		
						1.50		*End of Trial Pit at 1.50m*

0.5
1.0
1.5
2.0
2.5
3.0

Remarks

Trial pit cleared using CAT and genny. Trial pit excavated by JCB to 1.5m bgl where bedrock was encountered. Soakaway testing was carried out within trial pit. Position was backfilled with arisings.

Method, Plant, Stability, Dimensions

0.00 - 1.50m JCB

L = 1.90m

W = 0.50m

Logger

RLW

Checked By: JEM **Approved By:** JEM

AQUA TERRA CONSULTING

Trial Pit

TP02

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	532410.00	139820.00		1:15

Project Name	Project No.	Start Date	End Date
Land North of Borers Arms Road	P25002	2025-04-14	2025-04-14

Client	Consultant	Contractor
Fairfax Acquisitions	RLW	ADP Group

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
						(0.25) 0.25		Grass covered, brown, slightly gravelly, slightly clayey, fine to coarse SAND. Gravel is fine to coarse, sub rounded of siltstone and sandstone. Abundant rootlets and occasional patches of dark organic material. (TOPSOIL)
						(1.15) 1.40		Stiff, light grey, mottled reddish brown, slightly sandy CLAY. Sand is fine. (UPPER TUNBRIDGE WELLS SAND)
	▽					(0.45) 1.85		Light yellowish brown, gravelly, silty, fine to coarse SAND. Gravel is fine to coarse, sub angular of extremely weak siltstone. (UPPER TUNBRIDGE WELLS SAND)
								End of Trial Pit at 1.85m

0.5 1.0 1.5 2.0 2.5 3.0

Remarks

Trial pit cleared using CAT and genny. Trial pit excavated by JCB to 1.85m bgl where bedrock was encountered. Soakaway testing was carried out within trial pit. Position was backfilled with arisings.

Method, Plant, Stability, Dimensions

0.00 - 1.85m JCB

L = 2.10m

W = 0.50m

Logger RLW

Checked By: JEM **Approved By:** JEM

AQUA TERRA CONSULTING

Trial Pit

TP03

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	532590.00	139769.00		1:15

Project Name	Project No.	Start Date	End Date
Land North of Borers Arms Road	P25002	2025-04-15	2025-04-15

Client Fairfax Acquisitions

Consultant RLW

Contractor ADP Group

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
						(0.30)		Grass covered, soft, brown, slightly sandy, silty CLAY. Sand is fine. Abundant rootlets and iron oxide staining noted. (TOPSOIL)
						0.30		Soft, light grey, mottled orangish brown, sandy, silty CLAY. Sand is fine to medium. Occasional rootlets and patches of dark organic material noted. (UPPER TUNBRIDGE WELLS SAND)
						(1.00)		
						1.30		Stiff, light grey, mottled orangish brown, silty CLAY. (UPPER TUNBRIDGE WELLS SAND)
						(1.10)		
	▽					2.40		Light yellowish brown, gravelly, fine to coarse SAND. Gravel is fine to coarse, sub angular of extremely weak siltstone. (UPPER TUNBRIDGE WELLS SAND)
						(0.10)		
						2.50		*End of Trial Pit at 2.50m*

0.5 1.0 1.5 2.0 2.5 3.0

Remarks

Trial pit cleared using CAT and genny. Trial pit excavated by JCB to 2.5m bgl where bedrock was encountered. Soakaway testing was carried out within trial pit. Position was backfilled with arisings.

Method, Plant, Stability, Dimensions

0.00 - 2.50m JCB

L = 2.20m

W = 0.50m

Logger RLW

Checked By: JEM **Approved By:** JEM

AQUA TERRA CONSULTING

Trial Pit

TP04

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	532617.00	139591.00		1:15

Project Name	Project No.	Start Date	End Date
Land North of Borers Arms Road	P25002	2025-04-15	2025-04-15

Client
Fairfax Acquisitions

Consultant
RLW

Contractor
ADP Group

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
						(0.40)		Grass covered, brown, silty, slightly clayey, fine to medium SAND. Abundant rootlets noted. (TOPSOIL)
						0.40		Soft, light grey, mottled orangish brown, sandy, silty CLAY. Sand is fine to medium. Occasional rootlets and patches of dark organic material noted. (UPPER TUNBRIDGE WELLS SAND)
						(0.50)		
						0.90		Stiff, light grey, mottled orangish brown, silty CLAY. (UPPER TUNBRIDGE WELLS SAND)
						(0.70)		
						1.60		Light yellowish brown, gravelly, slightly silty, fine to coarse SAND. Gravel is fine to coarse, sub angular of extremely weak siltstone and sandstone. (UPPER TUNBRIDGE WELLS SAND)
						(0.80)		
						2.40		*End of Trial Pit at 2.40m*

0.5 1.0 1.5 2.0 2.5 3.0

Remarks
Trial pit cleared using CAT and genny. Trial pit excavated by JCB to 2.4m bgl where bedrock was encountered. Soakaway testing was carried out within trial pit. Position was backfilled with arisings.

Method, Plant, Stability, Dimensions
0.00 - 2.40m JCB
L = 2.00m
W = 0.50m

Logger
RLW

Checked By: JEM **Approved By:** JEM

Appendix D Infiltration test results

AQUA TERRA CONSULTING

BRE SOAKAWAY INFILTRATION RATE CALCULATION

9-B

APPENDIX TO CHAPTER 9	Sheet	1	of	1

The following spreadsheet calculations are based on the method given in BRE Digest 365

Note: enter values only in the yellow-highlighted cells - do not alter any other cell, even if it appears to be blank.

Project title:	Land North of Borers Arms Road			Project number:	P25002
Trial pit number:	TP01	Test number:	1	Date of test:	14/04/2025
Test carried out by:	RLW	Calculations by:	RLW	Verified by:	JEM

Details of pit

Actual depth of pit, D'	(m)	1.5
Effective depth of Pit, D (1)	(m)	0.94
Length of Pit, L	(m)	1.9
Width of Pit, W	(m)	0.5
Proportion of pit volume occupied by gravel solids, P_g (2)		0

Volume, V, of pit between 75% and 25% depths (m^3) = L x W x ½D =	0.45
Effective volume between 75% and 25% depths, V_{p75-25}, = V x P_g =	0.45
Internal surface area of pit up to 50% level, a_{p50}, (m^2) = area of 2 sides + 2 ends + base = (2 x L x ½D) + (2 x W x ½D) + (L x W)	3.21

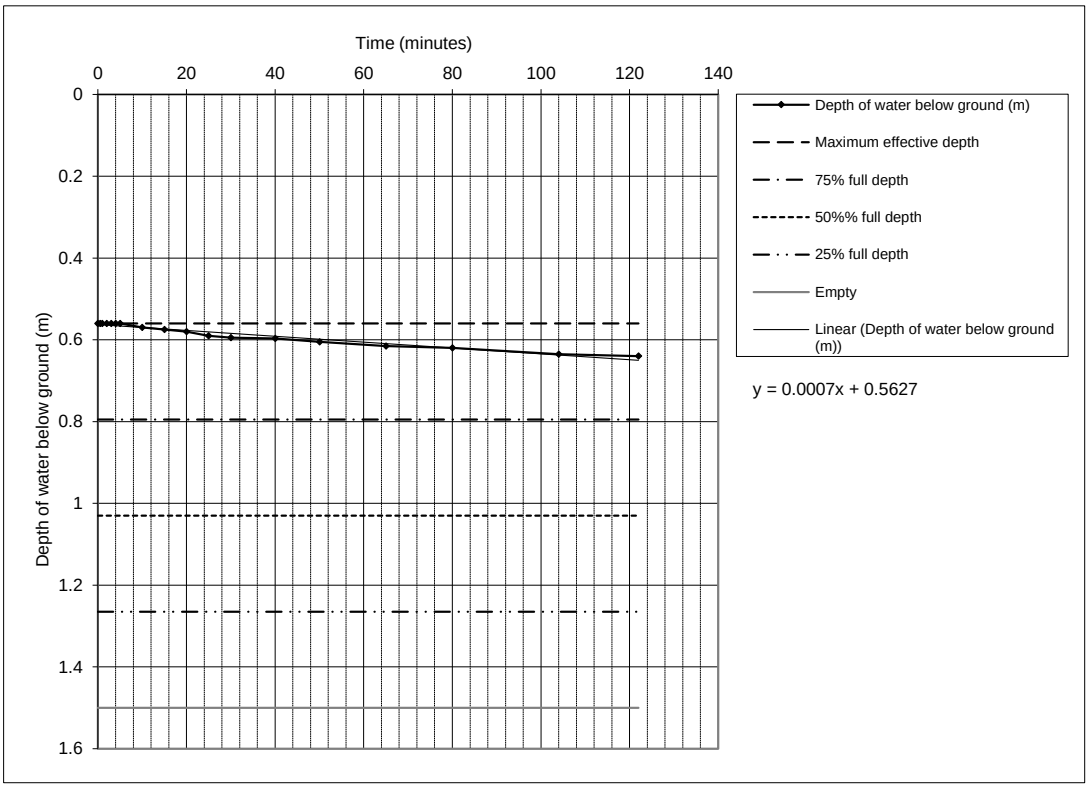
Notes:

(1) For a standard test in which the pit is filled with water, the effective depth will be equal to the actual depth. If the pit is not completely filled, it will be equal to the depth at the start of each test.

(2) Typically, for a gravel of dry density 18kN/m^3, specific gravity of rock solids 2.65, the proportion of volume occupied by rock is 0.69 (i.e. 69%). For dry density 16kN/m^3, the rock volume is 0.61 (61%), and for dry density 20kN/m^3, it is 0.77 (77%). If the pit is left open (gravel is not used) then put P_g = 0.

Water level readings

Time elapsed (min)	Depth of water below ground (m)
0	0.56
0.5	0.56
1	0.56
2	0.56
3	0.56
4	0.56
5	0.56
10	0.57
15	0.575
20	0.58
25	0.59
30	0.595
40	0.597
50	0.605
65	0.615
80	0.62
104	0.635
122	0.64



Time t_{p25} at which water is at 75% of effective depth, from graph (minutes)	331.857143
Time t_{p75} at which water is at 25% of effective depth, from graph (minutes)	1003.28571
Hence time t_{p75-25} for water to fall from 75% depth to 25% depth (minutes)	671.428571
Time t_{p75-25} (seconds)	40285.7143

Soil infiltration rate, f = $\frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$ = $\frac{0.45}{3.21 \times 40285.7143}$

Hence,	Soil infiltration rate, f =	Failed	m/s

AQUA TERRA CONSULTING

BRE SOAKAWAY INFILTRATION RATE CALCULATION

9-B

APPENDIX TO CHAPTER 9	Sheet	1	of	1

The following spreadsheet calculations are based on the method given in BRE Digest 365

Note: enter values only in the yellow-highlighted cells - do not alter any other cell, even if it appears to be blank.

Project title:	Land North of Borers Arms Road			Project number:	P25002
Trial pit number:	TP02	Test number:	1	Date of test:	14/04/2025
Test carried out by:	RLW	Calculations by:	RLW	Verified by:	JEM

Details of pit

Actual depth of pit, D'	(m)	1.85
Effective depth of Pit, D (1)	(m)	0.54
Length of Pit, L	(m)	2.1
Width of Pit, W	(m)	0.5
Proportion of pit volume occupied by gravel solids, P_g (2)		0

Volume, V, of pit between 75% and 25% depths (m^3) = L x W x ½D =	0.28
Effective volume between 75% and 25% depths, V_{p75-25}, = V x P_g =	0.28
Internal surface area of pit up to 50% level, a_{p50}, (m^2) = area of 2 sides + 2 ends + base = (2 x L x ½D) + (2 x W x ½D) + (L x W)	2.45

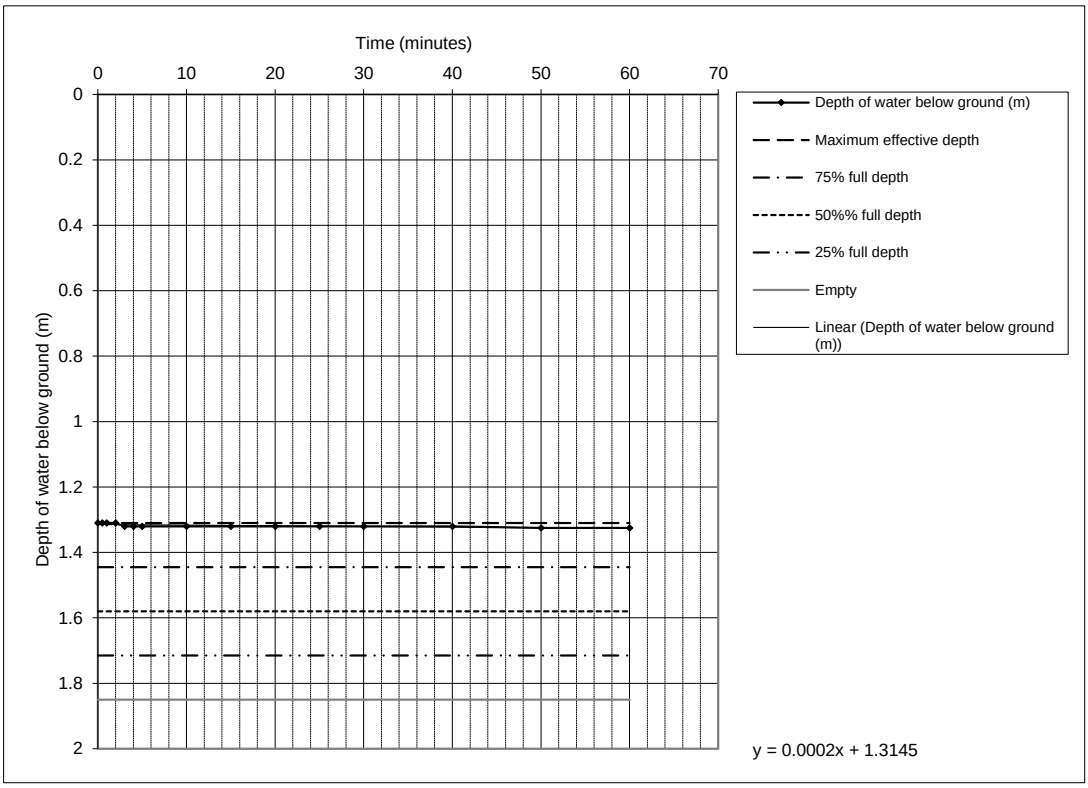
Notes:

(1) For a standard test in which the pit is filled with water, the effective depth will be equal to the actual depth. If the pit is not completely filled, it will be equal to the depth at the start of each test.

(2) Typically, for a gravel of dry density 18kN/m^3, specific gravity of rock solids 2.65, the proportion of volume occupied by rock is 0.69 (i.e. 69%). For dry density 16kN/m^3, the rock volume is 0.61 (61%), and for dry density 20kN/m^3, it is 0.77 (77%). If the pit is left open (gravel is not used) then put P_g = 0.

Water level readings

Time elapsed (min)	Depth of water below ground (m)
0	1.31
0.5	1.31
1	1.31
2	1.31
3	1.32
4	1.32
5	1.32
10	1.32
15	1.32
20	1.32
25	1.32
30	1.32
40	1.32
50	1.325
60	1.325



Time t_{p25} at which water is at 75% of effective depth, from graph (minutes)	652.5
Time t_{p75} at which water is at 25% of effective depth, from graph (minutes)	2002.5
Hence time t_{p75-25} for water to fall from 75% depth to 25% depth (minutes)	1350
Time t_{p75-25} (seconds)	81000

Soil infiltration rate, f = $\frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$ = $\frac{0.28}{2.45 \times 81000}$

Hence,	**Soil infiltration rate, f =**	**Failed** m/s

AQUA TERRA CONSULTING

BRE SOAKAWAY INFILTRATION RATE CALCULATION

9-B

APPENDIX TO CHAPTER 9	Sheet	1	of	1

The following spreadsheet calculations are based on the method given in BRE Digest 365

Note: enter values only in the yellow-highlighted cells - do not alter any other cell, even if it appears to be blank.

Project title:	Land North of Borers Arms Road			Project number:	P25002
Trial pit number:	TP3	Test number:	1	Date of test:	15/04/2025
Test carried out by:	RLW	Calculations by:	RLW	Verified by:	JEM

Details of pit

Actual depth of pit, D'	(m)	2.5
Effective depth of Pit, D (1)	(m)	1.25
Length of Pit, L	(m)	2.2
Width of Pit, W	(m)	0.5
Proportion of pit volume occupied by gravel solids, P_g (2)		0

Volume, V, of pit between 75% and 25% depths (m^3) = L x W x ½D =	0.69
Effective volume between 75% and 25% depths, V_{p75-25}, = V x P_g =	0.69
Internal surface area of pit up to 50% level, a_{p50}, (m^2) = area of 2 sides + 2 ends + base = (2 x L x ½D) + (2 x W x ½D) + (L x W)	4.48

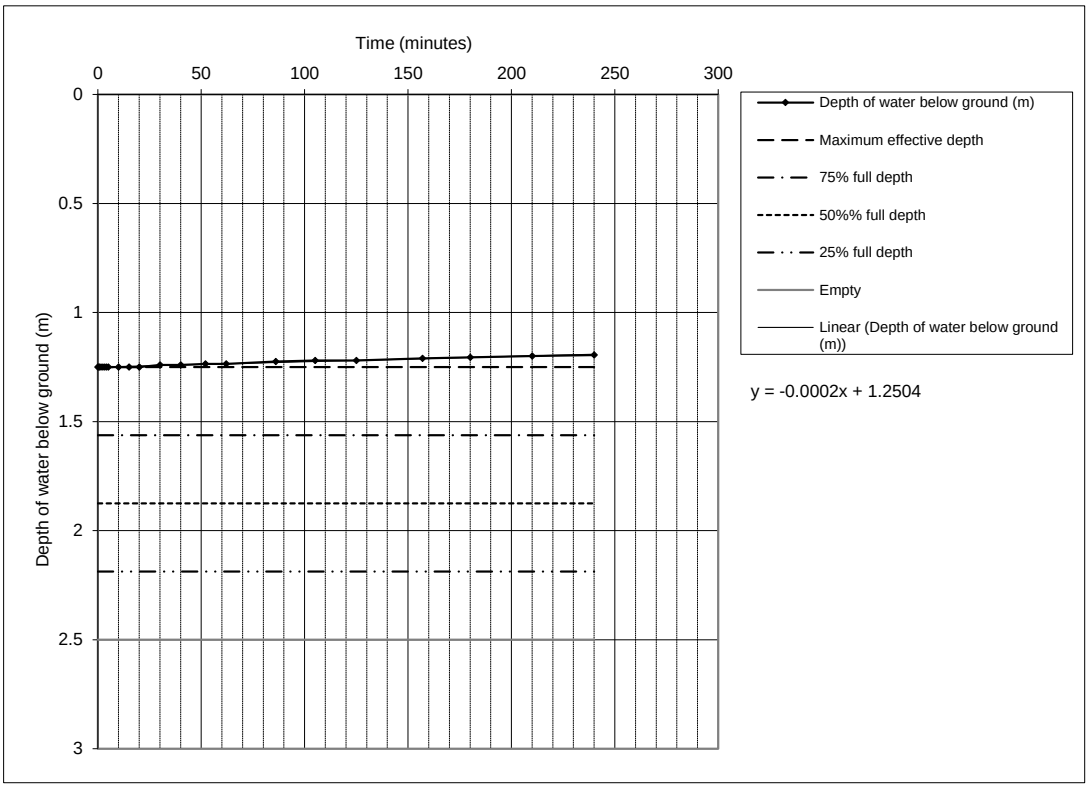
Notes:

(1) For a standard test in which the pit is filled with water, the effective depth will be equal to the actual depth. If the pit is not completely filled, it will be equal to the depth at the start of each test.

(2) Typically, for a gravel of dry density 18kN/m^3, specific gravity of rock solids 2.65, the proportion of volume occupied by rock is 0.69 (i.e. 69%). For dry density 16kN/m^3, the rock volume is 0.61 (61%), and for dry density 20kN/m^3, it is 0.77 (77%). If the pit is left open (gravel is not used) then put P_g = 0.

Water level readings

Time elapsed (min)	Depth of water below ground (m)
0	1.25
0.5	1.25
1	1.25
2	1.25
3	1.25
4	1.25
5	1.25
10	1.25
15	1.25
20	1.25
30	1.24
40	1.24
52	1.235
62	1.235
86	1.225
105	1.22
125	1.22
157	1.21
180	1.205
210	1.2
240	1.195



Time t_{p25} at which water is at 75% of effective depth, from graph (minutes)	-1560.5
Time t_{p75} at which water is at 25% of effective depth, from graph (minutes)	-4685.5
Hence time t_{p75-25} for water to fall from 75% depth to 25% depth (minutes)	-3125
Time t_{p75-25} (seconds)	-187500

Soil infiltration rate, $f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}} = \frac{0.69}{4.48 \times -187500}$

Hence,	**Soil infiltration rate, f**	**=**	**Failed** m/s

AQUA TERRA CONSULTING

BRE SOAKAWAY INFILTRATION RATE CALCULATION

9-B

APPENDIX TO CHAPTER 9	Sheet	1	of	1

The following spreadsheet calculations are based on the method given in BRE Digest 365

Note: enter values only in the yellow-highlighted cells - do not alter any other cell, even if it appears to be blank.

Project title:	Land North of Borers Arms Road			Project number:	P25002
Trial pit number:	TP04	Test number:	1	Date of test:	15/04/2025
Test carried out by:	RLW	Calculations by:	RLW	Verified by:	JEM

Details of pit

Actual depth of pit, D'	(m)	2.4
Effective depth of Pit, D [(1)]	(m)	1.41
Length of Pit, L	(m)	2
Width of Pit, W	(m)	0.5
Proportion of pit volume occupied by gravel solids, P_g [(2)]		0

Volume, V, of pit between 75% and 25% depths (m^3) = L x W x ½D =	0.71
Effective volume between 75% and 25% depths, V_{p75-25}, = V x P_g =	0.71
Internal surface area of pit up to 50% level, a_{p50}, (m^2) = area of 2 sides + 2 ends + base = (2 x L x ½D) + (2 x W x ½D) + (L x W)	4.53

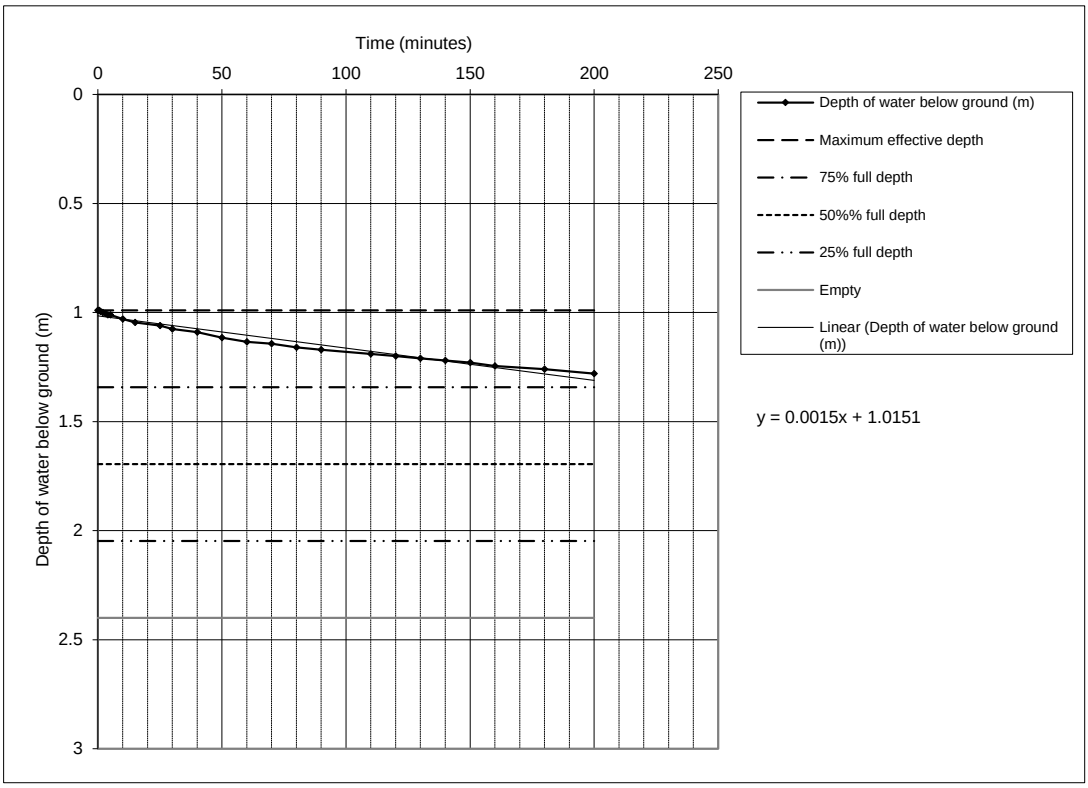
Notes:

(1) For a standard test in which the pit is filled with water, the effective depth will be equal to the actual depth. If the pit is not completely filled, it will be equal to the depth at the start of each test.

(2) Typically, for a gravel of dry density 18kN/m^3, specific gravity of rock solids 2.65, the proportion of volume occupied by rock is 0.69 (i.e. 69%). For dry density 16kN/m^3, the rock volume is 0.61 (61%), and for dry density 20kN/m^3, it is 0.77 (77%). If the pit is left open (gravel is not used) then put P_g = 0.

Water level readings

Time elapsed (min)	Depth of water below ground (m)
0	0.99
0.5	0.99
1	0.995
2	1
3	1.005
4	1.01
5	1.01
10	1.03
15	1.045
25	1.06
30	1.075
40	1.09
50	1.115
60	1.135
70	1.143
80	1.16
90	1.17
110	1.19
120	1.2
130	1.21
140	1.22
150	1.23
160	1.245
180	1.26
200	1.28
220	1.295



Time t_{p25} at which water is at 75% of effective depth, from graph (minutes)	218.266667
Time t_{p75} at which water is at 25% of effective depth, from graph (minutes)	688.266667
Hence time t_{p75-25} for water to fall from 75% depth to 25% depth (minutes)	470
Time t_{p75-25} (seconds)	28200

Soil infiltration rate, $f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}} = \frac{0.71}{4.53 \times 28200}$

Hence,	**Soil infiltration rate, f**	**=**	**Failed** m/s

Appendix E Photos

	TP01 Arisings 0-1.5m bgl		TP01 trial pit
Project	Land North of Borers Arms Road	Date	14-15/4/25
Project No.	P25002	Engineer	RLW
Client	Fairfax Acquisitions Ltd	Comments	

TP01 trial pit 0-1.5m bgl		TP01 reinstated	
Project	Land North of Borers Arms Road	Date	14-15/4/25
Project No.	P25002	Engineer	RLW
Client	Fairfax Acquisitions Ltd	Comments	

TP02 trial pit		TP02 trial pit	
Project	Land North of Borers Arms Road	Date	14-15/4/25
Project No.	P25002	Engineer	RLW
Client	Fairfax Acquisitions Ltd	Comments	

TP02 0-1.85m bgl arisings		TP02 reinstated	
Project	Land North of Borers Arms Road	Date	14-15/4/25
Project No.	P25002	Engineer	RLW
Client	Fairfax Acquisitions Ltd	Comments	

TP03 0-2.5m bgl arisings		TP03 0-2.5m bgl arisings	
Project	Land North of Borers Arms Road	Date	14-15/4/25
Project No.	P25002	Engineer	RLW
Client	Fairfax Acquisitions Ltd	Comments	

TP03 trial pit		TP03 arisings	
Project	Land North of Borers Arms Road	Date	14-15/4/25
Project No.	P25002	Engineer	RLW
Client	Fairfax Acquisitions Ltd	Comments	

	TP04 0-2.4m bgl		TP04
Project	Land North of Borers Arms Road	Date	14-15/4/25
Project No.	P25002	Engineer	RLW
Client	Fairfax Acquisitions Ltd	Comments	

	TP04 0-2.4m bgl		
Project	Land North of Borers Arms Road	Date	14-15/4/25
Project No.	P25002	Engineer	RLW
Client	Fairfax Acquisitions Ltd	Comments	