From:Plantenquiries <plantenquiries@catelecomuk.com>Sent:15 December 2020 11:04To:DeskBasedUtilitiesSubject:RE: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED

Please Note: Our search criteria has changed. We previously searched for Colt Network which was within 200 metres, this has now changed to 50 metres. The negative response will be for all enquiries that the network is 50 metres or more away from the place of enquiry.

Dear Sir/Madam,

Thank you for your enquiry for the above reference.

We can confirm that Colt Technology Services do not have apparatus near the above location as presented on your submitted plan, if any development or scheme amendments fall outside the 50 metre perimeter new plans must be submitted for review.

Search is based on Overseeing Organisation Agent data supplied; we do not accept responsibility for O.O. Agent inaccurate data.

If we can be of any further assistance please do not hesitate to contact us.

Kind regards,

Plant Enquiry Team



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From: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk>
Sent: 03 December 2020 17:29
Subject: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED
Importance: High

Good Afternoon,

Our company is currently undertaking an intrusive site investigation of the area detailed below.

Our reference: 52254 Location of works: Ditton Edge, Kiln Barn Rd, Ditton, East Malling O.S. Grid Ref.: 570895, 157837 Address/Nearest Postcode: ME20 6ED Expected Start Date: Expected Completion Date:

A plan of the site has been enclosed, please cover the entire area shown within the boundary on the attached map.

In order that all reasonable precautions may be taken to avoid the risk to health and safety through contacts with any of your existing apparatus during execution of the proposed works, please indicate the position and depth of all main statutory services and wayleaves on site and in the adjoining roads where applicable. In addition, please highlight any likely special problems that could arise in connection with your apparatus as a result of the proposed works.

We therefore request that you supply us with relevant plan information or written confirmation to declare that no apparatus is affected at your earliest convenience.

Should you encounter any problems or require any further information, please contact me on the above address or by telephoning 01442 416626, any costs will be accepted with approval first.

Many Thanks,

Monique Elsom

Utility Report Co-ordinator

RSK

18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT, UK Mobile: 07393 464647 Switchboard: +44 (0)1442 437500 · Fax: +44 (0)1442 437550) · <u>melsom@rsk.co.uk</u>

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From:	Plantenquiries <plantenquiries@instalcom.co.uk></plantenquiries@instalcom.co.uk>		
Sent:	09 December 2020 15:29		
То:	DeskBasedUtilities		
Subject:	RE: E12-20-2898 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED		

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.

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

<u>Please note that this response is only valid for 3 months. If your works do not commence within this time period,</u> please resubmit your plant enquiry for assessment before any works commence.

Regards

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

 Office:
 +44 (0)208 731 4613

 Fax:
 +44 (0)208 731 4601

 Email:
 plantenquiries@instalcom.co.uk

 Web:
 http://www.instalcom.co.uk



From: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk>
Sent: 03 December 2020 17:29
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We therefore request that you supply us with relevant plan information or written confirmation to declare that no apparatus is affected at your earliest convenience.

Should you encounter any problems or require any further information, please contact me on the above address or by telephoning 01442 416626, any costs will be accepted with approval first.

Many Thanks,

Monique Elsom

Utility Report Co-ordinator

RSK

18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT, UK Mobile: 07393 464647 Switchboard: +44 (0)1442 437500 · Fax: +44 (0)1442 437550) · <u>melsom@rsk.co.uk</u>

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Rebecca Dabbs

From:	Plant Enquiries <plantenquiries@lastmile-uk.com></plantenquiries@lastmile-uk.com>
Sent:	04 December 2020 08:01
То:	DeskBasedUtilities
Subject:	RE: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED

Dear Sir/Madam,

Thank you for submitting your recent plant enquiry.

Based on the information provided, I can confirm that Last Mile **does not** have any plant within the area(s) specified in your request.

If you require further assistance with outstanding enquiries, please call 03300 587 443.

Please ensure all plant enquiries are sent to plantenquiries@lastmile-uk.com

Regards

From: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk>
Sent: 03 December 2020 17:29
Subject: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED
Importance: High

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We therefore request that you supply us with relevant plan information or written confirmation to declare that no apparatus is affected at your earliest convenience.

Should you encounter any problems or require any further information, please contact me on the above address or by telephoning 01442 416626, any costs will be accepted with approval first.

Many Thanks,

Monique Elsom Utility Report Co-ordinator

RSK

18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT, UK Mobile: 07393 464647 Switchboard: +44 (0)1442 437500 · Fax: +44 (0)1442 437550) · melsom@rsk.co.uk

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AWARDS: WINNER

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From:nrswa.uk@engie.comSent:06 January 2021 13:35To:DeskBasedUtilitiesSubject:RE: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED

To whom it may concern

With regard to your request for details of existing services in the specified area;

We can confirm that, based on the details provided to us, we have no buried plant or equipment in the identified area.

Kind regards

Engie Urban Energy UK & Ireland Kings Yard 5 Clarnico Lane Queen Elizabeth Park London E15 2HG

Tel. +44 (0) 208 221 6530 Mob. +44

ENGIE



engie.co.uk

Kings Yard, 1 Waterden Road, Queen Elizabeth Olympic Park London E15 2GP - UK

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From: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk>
Sent: 03 December 2020 17:29
Subject: ▲ 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED
Importance: High

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We therefore request that you supply us with relevant plan information or written confirmation to declare that no apparatus is affected at your earliest convenience.

Should you encounter any problems or require any further information, please contact me on the above address or by telephoning 01442 416626, any costs will be accepted with approval first.

Many Thanks,

Monique Elsom

Utility Report Co-ordinator

RSK

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From:KPN Plant Enquiries <kpn.plantenquiries@instalcom.co.uk>Sent:10 December 2020 13:54To:DeskBasedUtilitiesSubject:RE: K12-20- 1826 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED



Dear Sir or Madam,

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

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

<u>Please note that 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.</u>

Regards

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

 Office:
 +44 (0)208 731 4613

 Fax:
 +44 (0)208 731 4601

 Email:
 kpn.plantenquiries@instalcom.co.uk

 Web:
 http://www.instalcom.co.uk



From: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk>
Sent: 03 December 2020 17:29
Subject: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED
Importance: High

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We therefore request that you supply us with relevant plan information or written confirmation to declare that no apparatus is affected at your earliest convenience.

Should you encounter any problems or require any further information, please contact me on the above address or by telephoning 01442 416626, any costs will be accepted with approval first.

Many Thanks,

Monique Elsom

Utility Report Co-ordinator

RSK

18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT, UK Mobile: 07393 464647 Switchboard: +44 (0)1442 437500 · Fax: +44 (0)1442 437550) · <u>melsom@rsk.co.uk</u>

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Public

Date 2020-06-10 Page 1 (2)

Contact Telia Carrier Infrastructure Team

check-network@teliacompany.com

Your reference: 52254 – Ditton Edge, Kiln Barn Road, Ditton, East Malling, Kent

Our reference: LPENQ0000124620

Dear Sir/Madam,

Telia Carrier Line Plant Enquiry.

Thank you for your correspondence enclosing details of your proposals as per your reference above.

Our client's apparatus, Telia Carrier, is not located within the vicinity of the above reference and we therefore have no further interest in this current location.

We kindly inform you that from the 1st September, 2020 Telia's enquiries handling process has changed. The new contact email is <u>check-network@teliacompany.com</u>. Please note that the contact postal address has changed as well, please find below.

The <u>entire Telia network</u> in the UK is shown on the map below.

Our team is seeking opportunity to co-operate 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 <u>check-network@teliacompany.com</u> and we will provide you a KMZ network map.

Public

Date 2020-06-10 Page 2 (2)



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

By post – to,	Telia Carrier U.K Ltd 69-77 Paul Street 3rd Floor London EC2A 4NW
By email – to,	check-network@teliacompany.com
By phone – to,	08000287406 003618089955

Yours faithfully

Telent Technology Services CCO (responding on behalf of Telia Carrier) Basildon

From:	MBNLplantenquiries <mbnl.plant.enquiries@turntown.com></mbnl.plant.enquiries@turntown.com>		
Sent:	07 December 2020 17:15		
То:	DeskBasedUtilities		
Subject:	RE: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED		

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.

Further to your plant enquiry please see the response below to the NRSWA request submitted

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.

PS: Please can you send all future Plant enquiries for EE or H3G to this email address mbnlplantenquiries@turntown.com

Thank you,

Kind regards,

MBNL SHQE Team

Turner & Townsend 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: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk>
Sent: 03 December 2020 17:29
Subject: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED
Importance: High

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Good Afternoon,

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We therefore request that you supply us with relevant plan information or written confirmation to declare that no apparatus is affected at your earliest convenience.

Should you encounter any problems or require any further information, please contact me on the above address or by telephoning 01442 416626, any costs will be accepted with approval first.

Many Thanks,

Monique Elsom

Utility Report Co-ordinator

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Rebecca Dabbs

From:	Andy Key (Distribution Administrator) <andy.key2@networkrail.co.uk> on behalf of OP Buried Services Enquiries <opburiedservicesenquiries@networkrail.co.uk></opburiedservicesenquiries@networkrail.co.uk></andy.key2@networkrail.co.uk>
Sent:	03 December 2020 22:44
То:	DeskBasedUtilities
Subject:	RE: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED

Dear Sir/Madam,

With regards to your enquiry, Network Rail does not believe there is any Network Rail owned apparatus or underground services within the area you have defined. As there is always the possibility that new works could be planned and undertaken in this area by Network Rail this information is valid as at today's date and is supplied for general guidance only.

Please be aware that this response is based on Network Rail's records and knowledge and no guarantee can be given regarding accuracy or completeness. CAT scans, safe digging practices (as contained in HSE publications) and other appropriate investigative techniques should always be carried out.

There may be other apparatus or underground services owned or operated by Utility Companies and accordingly you should contact individual utilities for information.

If, in connection with your investigations and/or work, you become aware of Network Rail apparatus or underground services within your area of work, please ensure these are notified to our Asset Protection team via the following link as a matter of urgency so that appropriate measures for avoidance of risk and damage can be put in place.

Contact details can be found in the following link: Network Rail Asset Protection Teams

If you require any further clarification on any of the information please contact <u>opburiedservicesenguiries@networkrail.co.uk</u>.

Regards,

Andy Key

Distribution Administrator



Worksite Survey | Asset Information Services National Records Centre | Audax Road | York YO30 4US E: <u>andy.key2@networkrail.co.uk</u> W: <u>www.networkrail.co.uk</u>

Advanced notice of absence:

From: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk> Sent: 03 December 2020 17:29 Subject: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED Importance: High

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Rebecca Dabbs

From: Sent: To: Subject: NRSWA <nrswa.nrswa@sky.uk> 04 December 2020 11:37 DeskBasedUtilities 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED



Thank you for your enquiry.

Please be advised that Sky Telecommunications Services Ltd will <u>not</u> 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 <u>nrswa@sky.uk</u>.

Regards



From: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk>
Sent: 03 December 2020 17:29
Subject: [EXTERNAL] 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED
Importance: High

Good Afternoon,

Our company is currently undertaking an intrusive site investigation of the area detailed below.

Our reference: 52254 Location of works: Ditton Edge, Kiln Barn Rd, Ditton, East Malling O.S. Grid Ref.: 570895, 157837 Address/Nearest Postcode: ME20 6ED Expected Start Date: Expected Completion Date: A plan of the site has been enclosed, please cover the entire area shown within the boundary on the attached map.

In order that all reasonable precautions may be taken to avoid the risk to health and safety through contacts with any of your existing apparatus during execution of the proposed works, please indicate the position and depth of all main statutory services and wayleaves on site and in the adjoining roads where applicable. In addition, please highlight any likely special problems that could arise in connection with your apparatus as a result of the proposed works.

We therefore request that you supply us with relevant plan information or written confirmation to declare that no apparatus is affected at your earliest convenience.

Should you encounter any problems or require any further information, please contact me on the above address or by telephoning 01442 416626, any costs will be accepted with approval first.

Many Thanks,

Monique Elsom

Utility Report Co-ordinator

RSK

18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT, UK Mobile: 07393 464647 Switchboard: +44 (0)1442 437500 · Fax: +44 (0)1442 437550) · melsom@rsk.co.uk

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From:SOTA Plant Enquiries <SOTA.PlantEnquiries@instalcom.co.uk>Sent:10 December 2020 11:57To:DeskBasedUtilitiesSubject:RE: S12-20- 0986 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED



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.

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

<u>Please note that this response is only valid for 3 months.</u> If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

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

 Office:
 +44 (0)208 731 4613

 Fax:
 +44 (0)208 731 4601

 Email:
 sota.plantenquiries@instalcom.co.uk

 Web:
 http://www.instalcom.co.uk



From: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk> Sent: 03 December 2020 17:29 Subject: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED Importance: High

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Many Thanks,

Monique Elsom

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Rebecca Dabbs

From:	assetrecords@utilityassets.co.uk
Sent:	03 December 2020 17:29
То:	DeskBasedUtilities
Subject:	HIGH POTENTIAL OF SPAM - USE CAUTION Re: 52254 - Ditton Edge, Kiln Barn Rd,
-	Ditton, East Malling ME20 6ED

Thank you for recently contacting Utility Assets plant record department. We will check whether we have any plant present at your site and contact you within 5 - 7 working days ONLY if we own any plant in the vicinity.

If we do not reply, we do not have any apparatus in the area of your works. However, PLEASE TAKE CARE when excavating around electricity cables in the event that not all cables present may be accurately shown. We recommend you use detecting equipment to map the site before excavating and fully comply with HSG47. DO NOT assume that a cable is dead if you don't have a record of its presence. The cable must be treated as live unless PROVEN DEAD by the cable owner. In case of emergency please contact your local electricity distribution company.

This is an automated reply from our dedicated asset records email address. If you receive further correspondence from us it will be from asset.manager@utilityassets.co.uk quoting a site reference number.

Asset Manager - Utility Assets Ltd

Rebecca Dabbs

From:	UK OSP-Team <osp-team@uk.verizon.com></osp-team@uk.verizon.com>
Sent:	04 December 2020 14:07
То:	DeskBasedUtilities
Cc:	UK OSP-Team
Subject:	RE: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED

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 E.mail osp-team@uk.verizon.com

From: DeskBasedUtilities [mailto:DeskBasedUtilities@rsk.co.uk] Sent: 3 December, 2020 5:29 PM Subject: [E] 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED Importance: High

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Many Thanks,

Utility Report Co-ordinator

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Date: 04/12/20 Scale: 1:3696

Map Centre: 570968,157720

57720 Data updated: 01/10/20

Telecoms Plan A4

Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2020 Ordnance Survey 100019209.



From:Gopalakrishnan, Roshni <Roshni.Gopalakrishnan@atkinsglobal.com>Sent:09 December 2020 10:56To:DeskBasedUtilitiesSubject:RE: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED

Please accept this email as confirmation that Vodafone: Fixed **<u>does not</u>** have apparatus within the vicinity of your proposed works detailed below.

Many thanks.

Plant Enquiries Team T: +44 (0)1454 662881 E: <u>osm.enquiries@atkinsglobal.com</u>

This response is made only in respect to electronic communications apparatus forming part of the Vodafone Limited electronic communications network formerly being part of the electronic communications networks of Cable & Wireless UK (now re-named Vodafone Enterprise UK), Energis Communications Limited, Thus Group Holdings Limited and Your Communications Limited.



PLEASE NOTE:

The information given is indicative only. No warranty is made as to its accuracy. This information must not be solely relied upon in the event of excavation or other works carried out in the vicinity of Vodafone plant. No liability of any kind whatsoever is accepted by Vodafone, its servants, or agents, for any error or omission in respect of information contained on this information. The actual position of underground services must be verified and established on site before any mechanical plant is used. Authorities and contractors will be held liable for the full cost of repairs to Vodafone's apparatus and all claims made against them by Third parties as a result of any interference or damage.

IMPORTANT - PLEASE READ:-

Diversionary works may be necessary if the existing line of the highway/railway or its levels are altered, where apparatus is affected and requires diversion, you must submit draft details of the proposed scheme with a request for a <u>'C3 Budget Estimate'</u> to <u>c3requests@vodafone.com</u> These estimates should be provided by Vodafone normally within 20 working days from receipt of your request. Please include proof of this C2 response when requesting a C3 (using the 'forward' option).



Please consider the environment before printing this e-mail

From: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk>
Sent: 03 December 2020 22:59
Subject: 52254 - Ditton Edge, Kiln Barn Rd, Ditton, East Malling ME20 6ED
Importance: High

Good Afternoon,

Our company is currently undertaking an intrusive site investigation of the area detailed below.

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Many Thanks,

Monique Elsom

Utility Report Co-ordinator

RSK

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APPENDIX F SITE RECONNAISSANCE PHOTOGRAPHS







Photo No.	
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APPENDIX G TECHNICAL BACKGROUND

H1 Desk Study

Aquifer designation and Source protection zones

Principal aquifer: layers of rock or drift deposit that have high intergranular and/or fracture permeability (usually providing a high level of water storage). They may support water supply and/or river base flow on a strategic scale.

Secondary A aquifer: permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

Secondary B aquifer: predominantly lower permeability layers that may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.

Secondary undifferentiated aquifer: it has not been possible to attribute either a category A or B to a rock type. In most cases this means that it was previously designated as both a minor and non-aquifer in different locations owing to the variable characteristics.

Unproductive' strata: low permeability with negligible significance for water supply or river base flow.

The EA generally adopts a three-fold classification of source protection zones (SPZ) surround abstractions for public water supply. The Site is situated in an area defined as follows:

- Zone 1 or the 'inner protection zone' is located immediately adjacent to the groundwater source and is based on a 50-day travel time from any point below the water table to the source. It is designed to protect against the effects of human activity and biological/chemical contaminants that may have an immediate effect on the source
- Zone 2 or the 'outer protection zone' is defined by a 400-day travel time from a point below the water table to the source. The travel time is designed to provide delay and attenuation of slowly degrading pollutants
- Zone 3 or the 'total catchment' is the area around the source within which all groundwater recharge is presumed to be discharged at the source.

Preliminary risk assessment methodology

LCRM outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. An outline conceptual model should be formed at the preliminary risk assessment stage that collates all the existing information pertaining to a site in text, tabular or diagrammatic form. The outline conceptual model identifies potentially complete (termed possible) contaminant linkages (contaminant–pathway–receptor) and is used as the basis for the design of the site investigation. The outline conceptual model is updated as further information becomes available, for example as a result of the site investigation.

Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the



likelihood and the consequences of an event must be taken into account when assessing risk. RSK has adopted guidance provided in CIRIA C552 for use in the production of conceptual models.

The likelihood of an event can be classified on a four-point system using the following terms and definitions based on CIRIA C552:

- highly likely: the event appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution
- likely: it is probable that an event will occur or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term
- low likelihood: circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term
- unlikely: circumstances are such that it is improbable the event would occur even in the long term.

The severity can be classified using a similar system also based on CIRIA C552. The terms and definitions relating to severity are:

- severe: short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short-term risk to an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000)
- medium: chronic damage to human health ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000), pollution of sensitive water resources, significant change in an ecosystem or organism forming part of that ecosystem
- mild: pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures or the environment
- minor: harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.

Once the probability of an event occurring and its consequences have been classified, a risk category can be assigned according to the table below.

		Consequences			
		Severe	Medium	Mild	Minor
IJ	Highly likely	Very high	High	Moderate	Moderate/low
Probability	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low



	Unlikely	Moderate/low	Low	Very low	Very low
--	----------	--------------	-----	----------	----------

Definitions of these risk categories are as follows together with an assessment of the further work that may be required:

- very high: there is a high probability that severe harm could occur or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability; urgent investigation and remediation are likely to be required
- high: harm is likely to occur. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required. Remedial works may be necessary in the short term and are likely over the long term
- moderate: it is possible that harm could arise, but it is unlikely that the harm would be severe and it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term
- low: it is possible that harm could occur, but it is likely that if realised this harm would at worst normally be mild
- very low: there is a low possibility that harm could occur and if realised the harm is unlikely to be severe.

H2 Site Investigation Methodology

Ground gas monitoring

An infrared gas meter was used to measure gas flow, concentrations of carbon dioxide (CO_2) , methane (CH_4) and oxygen (O_2) in percentage by volume, while hydrogen sulphide (H_2S) and carbon monoxide (CO) were recorded in parts per million. Initial and steady state concentrations were recorded. In addition, during the first monitoring round, all wells were screened with a PID to establish if there are any interferences and cross-sensitivity of other hydrocarbons with the infrared gas meter.

Low flow groundwater sampling

Groundwater samples were retrieved using a United States Environment Protection Agency (USEPA) approved low-flow purging and sampling methodology.

The low-flow method relies on moving groundwater through the well screen at approximately the same rate as it flows through the geological formation. This results in a significant reduction in the volume of water extracted before sampling and significantly reduces the amount of disturbance of the water in the monitoring well during purging and sampling. Drawdown levels in the monitoring well and water quality indicator parameters (pH, temperature, electrical conductivity, redox potential and dissolved oxygen) are monitored during low-flow purging and sampling, with stabilisation indicating that purging is complete and sampling can begin. As the flow rate used for purging, in most cases, is the same or only slightly higher than the flow rate used for sampling, and because purging and sampling are conducted as one continuous operation in the field, the process is referred to as low-flow purging and sampling.



Reuse of suitable materials

The Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) (CoP) was developed in consultation with the Environment Agency and development industry to enable the re-use of materials under certain scenarios and subject to demonstrating that specific criteria are met. The current reuse scenarios covered by the CoP comprise

- reuse on the site of origin (with or without treatment)
- direct transfer of clean and natural soils between sites
- use in the development of land other than the site of origin following treatment at an authorised Hub site (including a fixed soil treatment facility).

The importation of made ground soils (irrespective of contamination status) or crushed demolition materials is not permitted currently under the CoP and requires either a standard rules environmental permit or a U1 waste exemption (see below).

In the context of excavated materials used on-sites undergoing development, four factors are considered to be of particular relevance in determining if the material is a waste or when it ceases to be waste:

- the aim of the Waste Framework Directive is not undermined, i.e. if the use of the material will create an unacceptable risk of pollution of the environment or harm to human health it is likely to be waste
- the material is certain to be used
- the material is suitable for use both chemically and geotechnically
- only the required quantity of material will be used.

The CoP requires the preparation of a materials management plan (MMP) that confirms the above factors will be met. This plan needs to be reviewed by a 'Qualified Person' (QP) who will then issue a declaration form to the EA. As the project progresses, data must be collated and on completion a verification report produced that shows the MMP was followed and describes any changes.

The MMP establishes whether specific materials are classified as waste and how excavated materials will be treated and/or reused in line with the CoP. The MMP is likely to form part of the site waste management plan.