

# FOUL DRAINAGE & UTILITY ASSESSMENT Land south of Chiswell Green Lane

Prepared for: Alban Developments Ltd and Alban Peter Pearson, CALA Homes (Chiltern) Ltd and Redington Capital Ltd Ref: 016\_8210856\_AQ\_FoulWater&UtilityAssessment Issue 3: 31 March 2022



# **Document History**

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# Glanville

Glanville Consultants is a multi-disciplinary engineering, design and surveying consultancy with the following expertise:

Structural Engineering | Transport and Highways Civil Engineering | Geomatics | Building Surveying

Cornerstone House<br/>62 Foxhall Road<br/>Didcot<br/>Oxfordshire OX11 7ADOffices also at:3 Grovelands Business Centre<br/>Boundary Way<br/>Hemel Hempstead<br/>Hertfordshire HP2 7TETelephone:01235 515550Telephone:01442 835999

#### postbox@glanvillegroup.com www.glanvillegroup.com

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# 1.0 Introduction

- 1.1 This Foul Drainage & Utility Assessment has been prepared by Glanville Consultants on behalf of Alban Developments Ltd and Alban Peter Pearson, CALA Homes (Chiltern) Ltd and Redington Capital Ltd to accompany an outline planning application associated with development on land to the south of Chiswell Green Lane, near St Albans. The proposals include the provision of up to 391 dwellings and a 2 Form Entry (2FE) primary school with a capacity for 420 pupils.
- 1.2 The site had been identified Draft Local Plan for St Albans City and District as one of the "Broad Locations" for development to contribute towards addressing housing, infrastructure and other development needs over the period 2020 to 2036. Through the plan making process, it was recognised as a suitable Broad Location for release from the Green Belt, with the expectation that it would deliver a minimum of 365 dwellings. Following the withdrawal of the Draft Local Plan from the Examination process, the City and District Council is preparing a new Local Plan and this site is being promoted once again for development.
- 1.3 The purpose of this document is to assess the feasibility of servicing the proposed development with all necessary utility and foul water infrastructure.
- 1.4 This assessment has been prepared in accordance with Policy 84A (Drainage Infrastructure) from the City and District of St Albans District Local Plan Review 1994 – Saved Policies, July 2020.
- 1.5 This assessment examines all existing utility services known to be located within the vicinity of the site. It considers the feasibility of providing new connections to the site and any potential diversionary work. The utility services examined include:
  - Gas;
  - Electricity;
  - Potable water;
  - Telecommunications; and
  - Foul water.
- 1.6 Detailed proposals are yet to be received for the provision of new supplies from service providers. However, initial assessments have been made where possible based on the size and prevalence of existing supplies.
- 1.7 Surface water drainage is covered within a Flood Risk Assessment, which has been prepared as a separate document and is submitted as part of the planning application.



# 2.0 Site Description and Proposed Development

#### Site Location and Description

- 2.1 The site comprises of agricultural land, a farmyard with stables and equine facilities, and a derelict farmhouse and outbuildings. The agricultural land is divided into four distinct fields separated by mature trees. The fields in the northern part are intensively grazed by horses whilst the fields in the south are currently unmanaged grassland.
- 2.2 The site is located adjacent to the village of Chiswell Green and is approximately 1.1km southeast of the cathedral city of St Albans. The northern boundary is formed by Chiswell Green Lane. The eastern and south-eastern boundaries are directly adjacent to the residential area of Chiswell Green with the site bordered by the gardens of the residential properties.
- 2.3 The site is located within the St Albans City and District Council authority area. The approximate centre of the site is located at Ordnance Survey National Grid reference TL 13104 04286 and the postcode is AL2 3EQ. The plan showing the extent of the site is included in Appendix A.
- 2.4 There is a small woodland area to the east of the site which is not included within the site boundary and sits between the site and residential area. Beyond the western boundary of the Site, a car park separates Miriam Lane from the western site boundary. Lying adjacent to Miriam Lane approximately 25m to the east is the site of the former 'Butterfly World' visitor attraction.
- 2.5 St Albans Polo Club is approximately 80m northeast of the site with Chiswell Green Lane lying between the two areas. The M1 is 1.4km to the east and meets the M25 1.5km southeast of the site. The wider surrounding area comprises residential areas to the east and agricultural land to the west.
- 2.6 The site does not benefit from any planning history of relevance to the current proposals.

#### **Development Proposals**

- 2.7 The proposal comprises the demolition of existing structures and construction of up to 391 dwellings (Use Class C3), the provision of land for a new 2FE Primary School, open space provision and associated landscaping and new access arrangements.
- 2.8 The key components of the scheme comprise:
  - up to 391 homes (of which 40% will be affordable and 60% private plots);
  - land to construct a 2FE primary school;
  - publicly accessible open space;
  - publicly accessible children's play space;
- 2.9 The development will be split into two residential parcels separated by a Green Core at its centre.



- 2.10 It is currently proposed to provide three vehicular accesses into the site. Two of these will be on Chiswell Green Lane and will serve the northern parcel residential development and the future primary school.
- 2.11 The access to the southern parcel will connect with the northern end of the existing Forge End cul-de-sac which in turn will provide access to Watford Road. A secondary pedestrian / cycle / emergency access will be provided on Long Fallow.
- 2.12 An illustrative masterplan for the proposed development is provided in Appendix B.



# 3.0 Utilities Assessment

- 3.1 This section of the assessment identifies the existing utility supply infrastructure within the vicinity of the site and establishes potential points of connection.
- 3.2 Service records have been obtained from the following utility companies which have apparatus within the vicinity of the site:
  - National Grid (gas);
  - GTC (gas);
  - UK Power Networks (electricity);
  - Affinity Water (potable water);
  - BT Openreach (telecommunications);
  - Virgin Media (telecommunications); and
  - Thames Water (sewerage).
- 3.3 Copies of the relevant service records obtained are included in the appendices stated below.
- 3.4 A LineSearch enquiry was also conducted to ascertain the presence of strategic apparatus, such as apparatus belonging to oil companies or the Government. No apparatus was indicated to be within the zone of interest. The results of the LineSearch enquiry are included in Appendix C for reference.

#### Gas - National Grid

- 3.5 The records obtained from National Grid are included in Appendix D. The records indicate a medium pressure main along Watford Road and the North Orbital Road. A number of low pressure networks are indicated in the vicinity of the site, including low pressure mains serving properties to the north, east and south of the site, along Watford Road, Chiswell Green Lane, Woodleaf, Hammers Gate, Rosedene End, Forge End, Long Fallow and Belvedere Gardens.
- 3.6 Given that there is no National Grid gas apparatus indicated within the site boundary it is expected that diversionary works would not be required to facilitate development of the site.
- 3.7 National Grid has not provided a detailed quotation for provision of new supplies to the development but given the prevalence and size of existing infrastructure in the vicinity of the site, there are no significant issues expected in providing new gas supplies to the development.

## Gas - GTC

- 3.8 The records obtained from GTC are included in Appendix E. The records indicate a low pressure network serving residential properties along Forge End. This network connects to National Grid apparatus outside No. 23 Forge End.
- 3.9 Given that there is no GTC gas apparatus indicated within the site boundary it is expected that diversionary works would not be required to facilitate development of the site.



#### Electricity – UK Power Networks

- 3.10 The records obtained from UK Power Networks are included in Appendix F. The records indicate a number of low voltage underground networks in the vicinity of the site, including low voltage cables serving properties to the north, east and south of the site, along Watford Road, Chiswell Green Lane, Woodleaf, Hammers Gate, Rosedene End, Forge End, Long Fallow and Belvedere Gardens. The records also indicate a high voltage underground cable along Miriam Lane to the west of the site serving Butterfly World.
- 3.11 Given that there is no electricity apparatus indicated within the site boundary it is expected that diversionary works would not be required to facilitate development of the site.
- 3.12 UK Power Networks has not provided a detailed quotation for provision of new supplies to the development but given the prevalence and size of existing infrastructure in the vicinity of the site, there are no significant issues expected in providing new electricity supplies to the development.

#### Potable Water - Affinity Water

- 3.13 The records obtained from Affinity Water are included in Appendix G. The records indicate a number of potable water distribution mains in the vicinity of the site, including distribution mains along Watford Road, Chiswell Green Lane, Woodleaf, Hammers Gate, Rosedene End, Forge End and Long Fallow. No potable water apparatus was found to be within the site boundary.
- 3.14 Given that no Affinity Water apparatus is shown to be located within the boundary of the site it is anticipated that no potable water apparatus will need to be diverted to facilitate the development of the site.
- 3.15 Affinity Water has not provided a detailed quotation for provision of new supplies to the development but given the prevalence and size of existing infrastructure in the vicinity of the site, there are no significant issues expected in providing new water supplies to the development.

#### Telecommunications - BT Openreach (BT)

- 3.16 The records obtained from BT are included in Appendix H. The records indicate overhead lines along Chiswell Green Lane to the north of the site, as well as some small sections of overhead line along Hammers Gate and Watford Road. Underground plant is indicated to the north, east and south of the site, including apparatus serving properties along Watford Road, Chiswell Green Lane, Woodleaf, Hammers Gate, Rosedene End, Forge End and Long Fallow.
- 3.17 Given that no BT apparatus is shown to be located within the boundary of the site it is anticipated that no BT apparatus will need to be diverted to facilitate the development of the site.
- 3.18 BT has not provided a detailed quotation for provision of new supplies to the development but given the prevalence and size of existing infrastructure in the vicinity of the site, no significant issues are expected in providing new supplies to the development.



#### Telecommunications - Virgin Media

- 3.19 The records obtained from Virgin Media are included in Appendix I. The records indicate a number of ducts to the north, east and south of the site, including apparatus serving properties along Watford Road, Chiswell Green Lane, Woodleaf, Hammers Gate, Forge End and Long Fallow.
- 3.20 Given that no Virgin Media apparatus is shown to be located within the boundary of the site it is anticipated that no Virgin Media apparatus will need to be diverted to facilitate the development of the site.
- 3.21 Virgin Media has not provided a detailed quotation for provision of new supplies to the development but given the prevalence and size of existing infrastructure in the vicinity of the site, no significant issues are expected in providing new supplies to the development.

#### Diversions, Easements and Protection

3.22 No utility apparatus is indicated to be located within the site boundary and therefore it is not anticipated that any diversions or easements will need to be provided in order to facilitate the development of the site.

#### Conclusion

- 3.23 Gas, electricity, potable water and telecommunications infrastructure all exist in the vicinity of the site within established residential areas.
- 3.24 Utility providers have not yet provided detailed proposals for service provision. However, given the size and prevalence of existing infrastructure in the vicinity of the site, it is not anticipated that there should be significant problems with supply, although some off-site reinforcement may be required.
- 3.25 Detailed proposals and associated quotations for new supplies will be obtained from each service provider at the detailed design stage.



# 4.0 Foul Water Drainage

#### Existing Foul Water Drainage Infrastructure

- 4.1 Sewer records obtained from Thames Water are included in Appendix J. The records indicate a 150mm diameter public foul water sewer along Chiswell Green Lane. A short section of this sewer is indicated to lie within the site boundary. The records also indicate 150mm diameter public foul water sewers serving properties to the east and south of the site, along Hammers Gate, Watford Road, Forge End and Long Fallow. No other public foul water sewers were indicated within the application site boundary.
- 4.2 The records show only those sewers that are known to be maintained by Thames Water. Foul water sewers not shown on Thames Water Asset plans are also known to exist in Long Fallow and Forge End. These sewers serve residential properties on the aforementioned roads and were constructed under a Combined Drainage Order. It is believed that these sewers may have since been adopted, having been transferred to Thames Water in 2011 under the Private Sewerage Transfer regulations.

#### Diversions, Easements and Protection

4.3 A short section of public foul water sewer is indicated to be located within the site boundary in the north of the site. It is anticipated that an easement will need to be provided in order to facilitate the development of the site.

#### Proposed Foul Water Drainage Strategy

- 4.4 It is proposed to provide a new foul water drainage system to serve the proposed residential development and to connect this to the existing public foul water sewer network.
- 4.5 The on-site foul water sewer network will discharge all flows via two separate outfalls to the foul water sewers located in Forge End (Outfall A) and Long Fallow (Outfall B). These sewers are anticipated to discharge all flows to the Thames Water foul water sewer network. The Proposed Foul Drainage Strategy included in Appendix K indicates the approximate locations of these sewers, and of their connections to the Thames Water foul water foul water sewer network, according to information provided by Alban Developments.
- 4.6 The peak flow from the circa 391 proposed residential dwellings has been calculated at 18.6 l/s in accordance with the methodology provided within Sewers for Adoption (SfA), using a peak flow per dwelling of 0.047 l/s. A number of 324 residential units will be allocated to the existing foul water sewers in Long Fallow (Outfall B) and 67 residential units will be allocated to Forge End (Outfall A).
- 4.7 As such it is anticipated that there will be a peak flow of 3.1 l/s at Outfall A and 15.2 l/s at Outfall B. Foul water from the proposed development will be collected via lateral drains to a new foul water sewer of 150mm internal diameter that will discharge under gravity to the existing foul water sewers in Long Fallow and Forge End. MicroDrainage software has been used to confirm the feasibility for the collection and removal of foul water from the development site through the proposed drainage network. The hydraulic calculations are included in Appendix L.



- 4.8 Due to local topography and the shallow nature of the local sewers in Long Fallow (Outfall B), foul effluent from those properties located to the south-western corner of the site (i.e. approximately 33 properties) will need to be pumped and discharged into the proposed foul water manhole located in the vicinity of the internal road junction to the north-east. Therefore, it will be necessary to construct a pumping station, located in the south-western corner of the development site. The proposed pumping station would be designed in accordance with Thames Water and WRc 'Sewers for Adoption' specifications and be offered for adoption under a Section 104 Agreement. The indicative location of the proposed pumping station and foul rising main is presented in Appendix K.
- 4.9 Thames Water, as local sewerage undertaker, is obliged to accept foul water flows generated by development and fund any network improvements that may be required to provide the necessary capacity via infrastructure charges payable by the developer. As such, foul capacity will not be a constraint to development, although the timing of any network improvements may ultimately influence the development programme.

#### **Future Maintenance**

4.10 All new foul water infrastructure constructed to serve the site will be designed in accordance with Sewers for Adoption with the intention that it would be offered for adoption by Thames Water. The Building Regulations Part H and current best practice would also be followed where appropriate.



# 5.0 Summary & Conclusion

- 5.1 The purpose of this report is to assess the feasibility of providing the proposed residential development with all necessary utilities and foul water infrastructure.
- 5.2 This assessment has been prepared in accordance with Policy 84A (Drainage Infrastructure) from the City and District of St Albans District Local Plan Review 1994 – Saved Policies, July 2020.
- 5.3 Existing gas, electricity, potable water, telecommunications and foul water infrastructure all exist in the vicinity of the development site.
- 5.4 Given the size and prevalence of existing infrastructure in the vicinity of the site, it is not anticipated that there should be significant problems with provision of new supplies to the site.
- 5.5 Once planning approval is granted, detailed plans and service loadings will be submitted to each supplier so that detailed proposals can be obtained for the provision of new supplies.
- 5.6 According to Thames Water records a public foul water sewer is located within the site boundary in the north of the site. This sewer may be required to be diverted or an easement provided in order to develop the site.
- 5.7 No other utilities apparatus was indicated to be located within the site boundary.
- 5.8 It is proposed to provide a new foul water drainage system to serve the proposed residential development and connect to the existing public foul water sewer network via two outfalls.
- 5.9 Thames Water, as local sewerage undertaker, is obliged to accept foul water flows generated by development and fund any network improvements that may be required to provide the necessary capacity via infrastructure charges payable by the developer
- 5.10 In conclusion, it is considered that there should be no particular difficulty in providing new foul drainage and utilities infrastructure to serve the proposed development.



Appendices



Appendix A

**Site Location Plan** 





Appendix B

Illustrative Framework Plan







Appendix C

LineSearch Enquiry



# **Enquiry Confirmation** LSBUD Ref: 7865094

225 metres diameter

25 metres

Enquirer							
Name	Ms De	ebbie Wigston	Phone				
Company	Glanv	ille Consultants	Mobile	Not Supp	blied		
			Fax				
Address	Corne	rstone House 62 Foxhall Road					
	Didcot Oxfordshire						
	OX11 7AD						
Email							
Notes	Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.						
Enquiry De	Enquiry Details						
Scheme/Reference		TR8151408					
Enquiry type		Initial Enquiry	Work cat	egory	Development Projects		
Start date		06/01/2016	Work typ	e	Housing		

Site size

Work type buffer\*

**Confirmed** location

XY= 513091, 204437 Easting/Northing



End date

Searched location

31/08/2016

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### Asset Owners

**Terms and Conditions.** Please note that this enquiry is subject always to our standard terms and conditions available at www.linesearchbeforeudig.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

**Validity and search criteria.** The results of this enquiry are based on the confirmed information you entered and are valid only as at the date of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LinesearchbeforeUdig accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

Asset Owners & Responses. Please note the enquiry results include the following:

- 1. "LSBUD Members" who are asset owners who have registered their assets on the LSBUD service.
- 2. "Non LSBUD Members" are asset owners who have not registered their assets on the LSBUD service but LSBUD is aware of their existence. Please note that there could be other asset owners within your search area.

Below are three lists of asset owners:

- 1. LSBUD Members who have assets registered within your search area. ("Affected")
  - a. These LSBUD Members will either:
    - i. Ask for further information ("Email Additional Info" noted in status). The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.
    - ii. Respond directly to you ("Await Response"). In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.
- 2. LSBUD Members who do not have assets registered within your search area. ("Not Affected")
- 3. Non LSBUD Members who may have assets within your search area. Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

**National Grid.** Please note that the LSBUD service only contains information on National Grid's Gas above 2 bar asset and all National Grid Electricity Transmission asset. For National Grid Gas below 2 bar asset information please go to www.beforeyoudig.nationalgrid.com



#### LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.

List of affected LSBUD members

No LinesearchbeforeUdig Asset Owners within the Zone of Interest

LSBUD members who do not have assets registered on the LSBUD service within the vicinity of your search area. Please be aware that LSBUD members make regular changes to their assets.

	List of not affected LSBUD members	3		
	FibroSpood Limited	Perenco UK Limited (Purbeck Southampton		
	Fibrespeed Limited	Pipeline)		
BOC Limited (A Member of the Linde Group)	Gamma	Petrolneos		
BP Midstream Pipelines	Humbly Grove Energy	Phillips 66		
BPA	HV Cables	Premier Transmission Ltd (SNIP)		
Carrington Gas Pipeline	IGas Energy	Redundant Pipelines - LPDA		
Centrica Energy	Ineos Enterprises Limited	RWEnpower (Little Barford and South Haven)		
Centrica Storage Ltd	INEOS Manufacturing (Scotland and TSEP)	SABIC UK Petrochemicals		
CLH Pipeline System Ltd	Lark Energy	Scottish Power Generation		
ConocoPhillips (UK) Ltd	Lightsource SPV Limited	Seabank Power Ltd		
Coryton Energy Co Ltd (Gas Pipeline)	Mainline Pipelines Limited	Shell Pipelines		
CSP Fibre c/o Centara	Manchester Jetline Limited	Total (Finaline, Colnbrook & Colwick Pipelines)		
EirGrid	Manx Cable Company	Transmission Capital		
Electricity North West Limited	Marchwood Power Ltd (Gas Pipeline)	Vattenfall		
E on LIK Pla (Cas Pinalinas Only)	National Grid Gas (above2 bar) and National	Western Dower Distribution		
E-on OK Fic (Gas Fipelines Only)	Grid Electricity Transmission	Western Fower Distribution		
ESP Utilities Group	Northumbrian Water Group	Wingas Storage UK Ltd		
ESSAR	NPower CHP Pipelines	Zayo Group UK Ltd c/o JSM Group Ltd		
Esso Petroleum Company Limited	Oikos Storage Limited			



# Enquiry Confirmation LSBUD Ref: 7865094

The following non-LSBUD members may have assets in your search area. It is YOUR RESPONSIBILITY to contact them before proceeding. Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.

Non-LSBUD members (Asset owners not registered on LSBUD)							
Asset Owner	Preferred contact method	Phone	Status				
Affinity Water			Not Notified				
BskyB Telecommunications			Not Notified				
BT			Not Notified				
CityFibre			Not Notified				
Cofely District Energy			Not Notified				
Colt			Not Notified				
Energetics Electricity			Not Notified				
Fulcrum			Not Notified				
GTC			Not Notified				
Hertfordshire County Council			Not Notified				
Hibernia Networks			Not Notified				
Instalcom			Not Notified				
Interoute			Not Notified				
Mobile Broadband Network Limited			Not Notified				
National Grid Gas Distribution (below 2 bar)			Not Notified				
Redcentric plc			Not Notified				
Tata, KPN (c/- McNicholas)			Not Notified				
Thames Water			Not Notified				
UK Power Networks			Not Notified				
Utility assets Ltd			Not Notified				
Verizon Business			Not Notified				
Virgin Media			Not Notified				
Vodafone			Not Notified				
Vtesse Networks			Not Notified				

#### Disclaimer

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Appendix D

National Grid Records

# nationalgrid

Debbie Wigston Glanville Group Cornerstone House 62 Foxhall Road Didcot Oxfordshire OX11 7AD Plant Protection National Grid Block 1; Floor 1 Brick Kiln Street Hinckley LE10 0NA E-mail: plantprotection@nationalgrid.com Telephone: +44 (0)800 688588

National Grid Electricity Emergency Number: 0800 40 40 90\*

National Gas Emergency Number: 0800 111 999\* \* Available 24 hours, 7 days/week.

Calls may be recorded and monitored.

www.nationalgrid.com

## Date: 06/01/2016 Our Ref: EA\_TE\_Z5\_3SWP\_208006 Your Ref: (WS) TR8151408 RE: Proposed Works, AL2 3AL, LAND AT CHISWELL GREEN, ST ALBANS, HERTFORDSHIRE

Thank you for your enquiry which was received on 05/01/2016. Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to National Grid Electricity Transmission plc's and National Grid Gas plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus. For details of National Grid's network areas please see the National Grid website (<u>http://www.nationalgrid.com/uk/Gas/Safety/work/</u>) or the enclosed documentation.

As your works are at a "proposed" stage, any maps and guidance provided are for information purposes only. This is not approval to commence work. You must submit a "Scheduled Works" enquiry at the earliest opportunity and failure to do this may lead to disruption to your plans and works. National Grid will endeavour to provide an <u>initial</u> assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.

In any event, for safety and legal reasons, works must not be carried out until a Scheduled Works enquiry has been completed and final response received.

## Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

This assessment solely relates to National Grid Electricity Transmission plc (NGET) and National Grid Gas plc (NGG) apparatus. This assessment does **NOT** include:

- National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact National Grid.
- Gas service pipes and related apparatus
- Recently installed apparatus
- Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities. Further "Essential Guidance" in respect of these items can be found on the National Grid Website (<u>http://www.nationalgrid.com/NR/rdonlyres/6D6525F9-59EB-4825-BA89-DBD7E68882C7/51319/EssentialGuidance.pdf</u>).

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid's easements or wayleaves nor any planning or building regulations applications.

NGG and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements.

If you require further assistance please contact the National Grid Plant Protection team via e-mail (<u>click here</u>) or via the contact details at the top of this response.

Yours faithfully

National Grid Plant Protection Team

# ASSESSMENT

## Affected Apparatus

The National Grid apparatus that has been identified as being in the vicinity of your proposed works is:

• Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)

# Requirements

## **BEFORE carrying out any work you must:**

- Carefully read these requirements including the attached guidance documents and maps showing the location of National Grid apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at <u>http://www.hse.gov.uk</u>
- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

# GUIDANCE

**Excavating Safely - Avoiding injury when working near gas pipes:** <u>http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe\_leaflet3e2finalamends061207.pdf</u>

# **Standard Guidance**

## **Essential Guidance document:**

http://www.nationalgrid.com/NR/rdonlyres/6D6525F9-59EB-4825-BA89-DBD7E68882C7/51319/EssentialGuidance.pdf

#### **General Guidance document:** http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=35103

# Excavating Safely in the vicinity of gas pipes guidance (Credit card):

http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf

# Excavating Safely in the vicinity of electricity cables guidance (Credit card):

http://www.nationalgrid.com/NR/rdonlyres/35DDEC6D-D754-4BA5-AF3C-D607D05A25C2/44858/ExcavatingSafelyCreditCardelectricitycables.pdf

Copies of all the Guidance Documents can also be downloaded from the National Grid Website: <u>http://www.nationalgrid.com/uk/Gas/Safety/work/downloads/</u>

Not to be used. Not to be Not to be used. Not to Not to be used Not to be used Not to be used Map 1 of 2 (GAS) ID: EA\_TE\_Z5\_3SWP\_208006 View extent: 1445m, 1835m Ap not to be used for construction This plan shows those pipes owned by National Grid Gas plc in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc., are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas pic or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. LP MAINS MAPS Plot Server Version 1.8.0 USER: Waheed.Sheikh MP MAINS DATE: 06/01/2016 P MAINS nationalgrid DATA DATE: 05/01/2016 LHP MAINS NHP MAINS REF: (WS) TR8151408 MAP REF: TL1304 100m

Requested by: Glanville Group This plan is reproduced from or based on the OS map by National Grid Gas plc, with the sanctio of the controller of HM Stationery Office. Crown Copyright Reserved, Ordnance Survey Licence number 100024886

4 Diameter Change Valve 🖂 Depth of Cover

CENTRE: 513044, 204302

Approximate scale 1:5000 on A3 Colour Portrait



# **ENQUIRY SUMMARY**

Received Date 05/01/2016

Your Reference (WS) TR8151408

Location Centre Point: 513044, 204302 X Extent: 645 Y Extent: 715 Postcode: AL2 3AL Location Description: AL2 3AL, LAND AT CHISWELL GREEN, ST ALBANS, HERTFORDSHIRE

Map Options Paper Size: A3 Orientation: PORTRAIT Requested Scale: 2500 Actual Scale: 1:5000 (GAS), 1:5000 (ELECTRIC) Real World Extents: 1445m x 1835m (GAS), 1445m x 1835m (ELECTRIC)

<u>Recipients</u> pprsteam@nationalgrid.com

Enquirer Details Organisation Name: Glanville Group Contact Name: Debbie Wigston Email Address: The second second

Description of Works Service Records Request

Enquiry Type Proposed Works

<u>Activity Type</u> General Excavation

Work Types Work Type: Plans Only



Appendix E

**GTC Records** 





Appendix F

**UK Power Network Records** 



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130m 140m	EXTRA HIG Depth normally 750mi	PRIMARY CABLE GH VOLTAGE CABLES (EHV) 2 m cover in carriageway & 6	ES 22,000 TO 132,000 Volts 600mm cover in footway.		<ol> <li>UK Power Networks Ltd does to you is correct. You rely upor your own risk.</li> <li>UK Power Networks Ltd does the death of a person or cause</li> </ol>	s not warrant that the ir h it at s not exclude or limit its es	formation provided liability if it causes	ADVICE TO FRO
S,	Before digging within Telephone 0800 056 5 on site and any neces N.B. THRUST BORERS	one metre of these cable r 5866 in order that the Co ssary protection works agre OR MOLES MUST NOT BE U	routes mpany's apparatus may be loca ed. SED WITHIN THE VICINITY OF ANY	ated Y	personal injury to a person caused by its negligence. 3. Subject to paragraph 2, UK in contract, in tort (including ne for breach of statutory duty	where such death or per Power Networks Ltd has egligence), or otherwise howsoever	rsonal injury is no liability to you for any loss,	<ol> <li>Do have cable drawing start the excavation.</li> <li>Do have a cable loc</li> <li>Mark out the location.</li> </ol>
1.	CABLES BELONGING TO COMPANY.	paratus shown on this drawing	g is believed to be correct but the		damage, costs, claims, demand you or any third party may s information provided whether for damage to property or for a limitation loss of profit, loss of	ds or expenses that suffer or incur as a response or physical any economic loss (inclu opportunity, loss of as of business loss of u	ult of using the ding without	5) Use spades and sho 6) Never disturb electri IF IN DOU
2. pr 3. pi 4.	The exact position of the exact position of the exact position using the excavation using the trial focts until the exact location. It must be assumed the exact location of the exact location of the exact location.	the apparatus should be verifice the up suitable hand tools. I holes are carefully made avoint tion of all cables have been contained there is a service cable in	ed — use approved cable avoidance biding the use of mechanical tools letermined. to each property, lamp column and	e tools or d street	Reproduced by permission of O Crown copyright and database	rdnance Survey on beha right 2016. All rights res	If of HMSO. (c) served. Ordnance	EMERGENC Phone 08 These basic safety prec HS(G)47 – Avoiding Dar
sid   5.   6.   &   pu   7.	yn, etc. . All cables must be trea . The information provide equipment. Do not use urposes. . Please be aware that e	ated as being live unless prov ed must be given to all people plans more than 3 months a electric cables/lines belonging	ed otherwise by UK Power Networks e working near UK Power Networks fter the issue date for excavation to other owners of licensed electr	ricity	Survey Licence number 100019 Survey base map; all proprietar shall remain the exclusive prop London Power Networks plc eac section 6(1)(c) of the Electricit	626. Data has been add y rights in such addition erty of (c) Eastern Powe ch being a distribution line y Act 1989 for the relev lefined in such lineanage?	aed to the Ordnance nal data are and er Networks plc or censee under vant distribution	Please be aware that el
di	stribution systems may	be present and it is your resp	ponsibility to identify their location.		licence. All rights in such data	reserved.		to identify their location

ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

ave cable drawings with you on site and check them before you e excavation. ave a cable locator tool on site and use it to help you. out the location of electricity cables. ot use a mechanical excavator within 0.5m of electricity cables. spades and shovels in preference to other tools. r disturb electricity cables and joints or their protective covers.

IF IN DOUBT — ASK! PHONE 0800 056 5866 EMERGENCY — If you damage a cable or line Phone 0800 780 0780 (24hrs) URGENTLY

sic safety precautions are explained in detail in the HSE booklet. — Avoiding Danger from Underground Services, a copy of which obtained from your supervisor or HMSO.

e aware that electric lines belonging to other owners of licensed y distribution systems may be present and it is your responsibility y their location.



Plotted By: Mark Ellis

2016/2209461

Plotted On 05/01/2016

TL1204SEA

