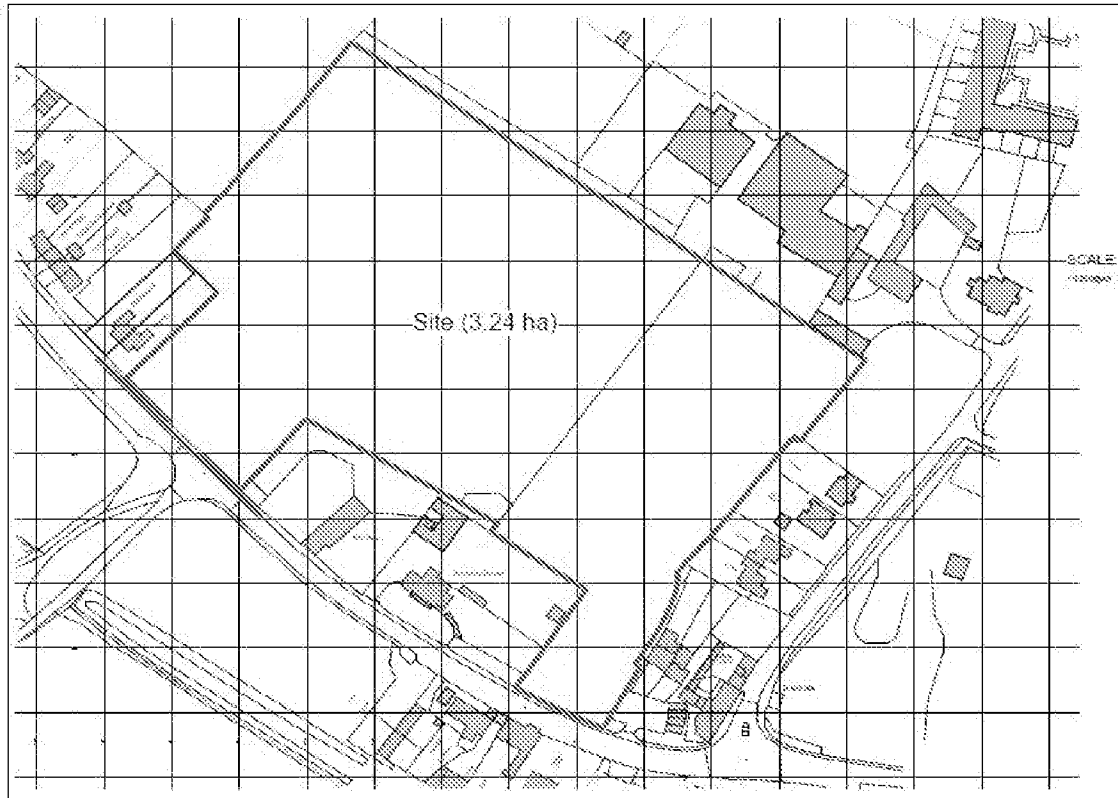




## Bonhams Field

Yapton  
Arundel  
West Sussex  
BN18 0DX

14/09/2020

PROJECT NO.

**604283**

ISSUE NO.

**2**

STATUS

**For Information**



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# 1. Introduction

**This report assesses the potential constraints presented by the existing utility infrastructure both within the boundary and in the vicinity of the search area.**

The report is based on the information provided by the client about the location of the search area and the information provided by the utilities about their existing plant and networks. The information contained in this report is based on desk research only.

## What is a utility constraint?

We use the term constraint to indicate that there may be limitations or prohibitions on designs and planned works due to the presence of utility apparatus. To overcome these can be costly and time-consuming. Depending on the legal rights and statutory powers of the utility the costs may have to be borne by the applicant/developer.

## Report interpretation

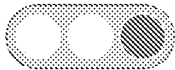
We have developed a simple traffic light mechanism to present site constraints based on a red/amber/green evaluation;



Red – site constraints exist due to the presence of utility apparatus.



Amber – site constraints may exist due to the proximity of utility apparatus.



Green – site constraints do not appear to exist.

## General note on diversions

Qualified contractors can carry out EML (Electromagnetic Location) and GPR (Ground Probing Radar) PAS128 utility surveys to determine depth and location of plant, although their accuracy can be impaired due to congestion of plant or variations in ground conditions/plant material types.

We recommend, as a minimum, that a PAS128 utility survey is carried out to determine the location of all utility plant in the vicinity of the site to establish the extent and necessity of all diversions. From this survey, further trial holes may be recommended to verify the exact location of services and possible diversions.



## 2. Risk Assessment

This document provides advice using information extracted from utility asset maps. Further guidance is detailed in section 3 entitled 'Important Information'.

The risk assessment is based on a matrix which initially identifies the following:

**(S) Severity**

of the risk should plant be damaged, followed by the

**(Li) Likelihood**

of hitting the plant and then finally the

**(R) Risk**

of it actually happening.

The risks are categorised as being:

**(H) High**

indicating that plant is in the immediate area, e.g. within the site boundary or in an adjacent footpath, proposed access road or similar.

**(M) Medium**

indicating that plant is located just outside the site boundary or works area and could potentially be affected.

**(L) Low**

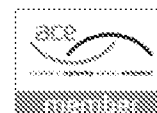
indicating that plant is either not present or not expected to be affected by the works.

Therefore, for utilities identified in columns indicating S = H, Li = H and R = H, extreme caution should be exercised and preventative measures put in place to minimise the associated risks.

For utilities identified in columns that indicate S = H, Li = L and R = L, although the severity of a potential plant strike would be high, the chances of it happening are considered to be low.

Ben Mottram

Nigel Hall



*Premier Energy Services Ltd has taken all reasonable steps, within the timescales, to obtain the most robust information in this report but accepts no liability for the accuracy of such information or report and in addition to any limitation of liability under its Standard Terms and Conditions. These services are provided subject to our standard Scope of Services, the Supplementary Terms and our Standard Terms and Conditions.*

*This report is for the private and confidential use of the client for whom the report is undertaken and should not be reproduced in whole or in part or relied upon by third parties for any use whatsoever without the express authority of Premier Energy Services Ltd.*



## 2.1. Electric

| 2.1.1. Scottish & Southern Electricity Networks                                                                                                                                            | S | LI | R | Action Required                                                                                                                                                                                                                        | Action by                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| There are HV/LV cables in the vicinity of the site running in the opposite carriageway of the B223 Main Road/Yapton Road.                                                                  | H | M  | H | Refer to "Important Information" in this report.                                                                                                                                                                                       | Contractor                              |
| Based on the utility asset maps there are LV cables in the footpath crossing the bellmouth of the proposed new site access off the B2233, MainRoad/Yapton Road.                            | H | H  | H | EML/GPR survey prior to excavating. Carry out trial holes to confirm exact location of plant, in order to determine whether diversion or protection is required. Liaise with DNO as required.                                          | Contractor or client's appointed agents |
| There are no electric cables located directly within the site boundary.                                                                                                                    | H | L  | L | Please liaise with the DNO before commencing any works in the vicinity of the site.                                                                                                                                                    | Contractor or client's appointed agents |
| The exact location and position of apparatus shown on the utility asset maps cannot be relied upon.                                                                                        | H | H  | H | Diversions or protective measures must be put in place when working near electrical apparatus at all times.                                                                                                                            | Contractor                              |
| Based on the utility asset maps there are no overhead cables close to the vicinity of the site.                                                                                            | H | L  | L | Liaise with the DNO before commencing any works in the vicinity of the overhead cables. Refer to HS (GS) 6 guidance.<br><br>Diversions or protective measure must be put in place when working near overhead power lines at all times. | Contractor or client's appointed agents |
| Please note: Not all service connections are shown on utility asset maps. Works should not commence on site until confirmation of all disconnections is received from the electricity DNO. | H | H  | H | Arrange with electricity suppliers and DNO for the removal of electrical apparatus, i.e. meters and disconnection of services to any properties.                                                                                       | Contractor or client's appointed agents |

## 2.2. Water

| 2.2.1. Portsmouth Water                                                                                                                                                                  | S | LI | R | Action Required                                                                                                                                                                                         | Action by                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| There are water mains in the vicinity of the site.                                                                                                                                       | M | H  | M | Refer to "Important Guidance" in this report.                                                                                                                                                           | Contractor                              |
| Based on the utility asset maps there are water mains in the footpath crossing the bellmouth of the proposed new site access off the B2233, Yapton Road.                                 | M | H  | H | EML/GPR survey prior to excavating. Carry out trial holes to confirm exact location of plant, in order to determine whether diversion or protection is required. Liaise with water company as required. | Contractor or client's appointed agents |
| There are no water mains located directly within the site boundary.                                                                                                                      | M | M  | M | Please liaise with the local water company before commencing any works in the vicinity of the site.                                                                                                     | Contractor or client's appointed agents |
| The exact location and position of apparatus shown on the utility asset maps cannot be relied upon.                                                                                      | M | H  | H | Diversions or protective measures must be put in place when working near water mains at all times.                                                                                                      | Contractor                              |
| Please note: Not all service connections are shown on utility asset maps. Works should not commence on site until confirmation of all disconnections is received from the water company. | M | H  | H | Arrange with local water company for the removal of apparatus i.e. fire supplies, meters and disconnection of services to any property.                                                                 | Contractor or client's appointed agents |



## 2.3. Drainage

| 2.3.1. Southern Water                                                                               | S | L | R | Action Required                                                                                      | Action by                               |
|-----------------------------------------------------------------------------------------------------|---|---|---|------------------------------------------------------------------------------------------------------|-----------------------------------------|
| There is drainage plant in the vicinity of the site.                                                | M | H | M | Refer to "Important Guidance" in earlier section of this report.                                     | Contractor                              |
| Based on the utility asset maps there is no drainage plant within the site boundary.                | M | M | M | Drainage survey prior to excavating. Liaise with drainage company as required                        | Contractor or client's appointed agents |
| The exact location and position of apparatus shown on the utility asset maps cannot be relied upon. | M | H | H | Diversions or protective measures must be put in place when working near drainage plant at all times | Contractor                              |

## 2.4. Gas

| 2.4.1. SCN                                                                                                                                                                                      | S | L | R | Action Required                                                                                                                                                                               | Action by                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| There are LP gas mains in the vicinity of the site.                                                                                                                                             | H | M | M | Refer to "Important Guidance" in earlier section of this report.                                                                                                                              | Contractor                              |
| Based on the utility asset maps there are no gas mains in the footpath crossing the bellmouth of the proposed new site access off the B2233, Yapton Road.                                       | H | M | M | EML/GPR survey prior to excavating. Carry out trial holes to confirm exact location of plant, in order to determine whether diversion or protection is required. Liaise with GDN as required. | Contractor or client's appointed agents |
| There are no gas mains located directly within the site boundary.                                                                                                                               | H | M | M | Please liaise with the GDN before commencing any works in the vicinity of the site.                                                                                                           | Contractor or client's appointed agents |
| The exact location and position of apparatus shown on the utility asset maps cannot be relied upon.                                                                                             | H | H | H | Diversions or protective measures must be put in place when working near gas apparatus at all times.                                                                                          | Contractor                              |
| Please note: Not all service connections are shown on utility asset maps. Works should not commence on site until confirmation of all disconnections is received from the gas supplier and GDN. | H | H | H | Arrange with gas energy supplier and GDN for the removal of gas apparatus, i.e. meters and services to any properties.                                                                        | Contractor or client's appointed agents |



## 2.5. Openreach

| 2.5.1. Openreach                                                                                                                                                    | S | LI | R | Action Required                                                                                                                                                                                                                   | Action by                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| There is Openreach apparatus in the vicinity of the site.                                                                                                           | L | H  | L | Refer to "Important Guidance" in earlier section of this report.                                                                                                                                                                  | Contractor                              |
| Based on the utility asset maps are no Openreach ducts in the footpath crossing the bellmouth of the proposed new site access off the B2233, Main Road/Yapton Road. | L | L  | L | EMUGPR survey prior to excavating. Carry out trial holes to confirm exact location of plant, in order to determine whether diversion or protection is required. Liaise with Openreach as required.                                | Contractor or client's appointed agents |
| There is no Openreach apparatus located directly within the site boundary                                                                                           | L | L  | L | Please liaise with Openreach before commencing any works in the vicinity of the site.                                                                                                                                             | Contractor or client's appointed agents |
| Based on the utility asset maps there are overhead cables close to the vicinity of the site on the B2233.                                                           | M | M  | M | Liaise with Openreach before commencing any works in the vicinity of the overhead cables. Refer to HS (GS) 6 guidance.<br><br>Diversion or protective measure must be put in place when working near overhead lines at all times. | Contractor or client's appointed agents |
| Please note: Not all ducts are shown on utility asset maps. Works should not commence on site until confirmation of all disconnections is received from Openreach   | L | H  | L | Arrange with Openreach for the removal of apparatus i.e. fibre lines, copper lines, distribution nodes etc. to any properties.                                                                                                    | Contractor or client's appointed agents |

## 2.6. Virgin Media

| 2.6.1. Virgin Media                                                                                                                                                   | S | LI | R | Action Required                                                                                                                  | Action by                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| There is no Virgin Media apparatus in the vicinity of the site.                                                                                                       | H | L  | L | Refer to "Important Guidance" in earlier section of this report.                                                                 | Contractor                              |
| The exact location and position of apparatus shown on the utility asset maps cannot be relied upon. Virgin Media duct routes may contain electric cabling.            | H | L  | L | Diversion or protective measures must be put in place when working near Virgin Media apparatus at all times.                     | Contractor                              |
| Please note: Not all ducts are shown on utility asset maps. Works should not commence on site until confirmation of all disconnections is received from Virgin Media. | H | L  | L | Arrange with Virgin Media for the removal of apparatus i.e. fibre lines, copper lines, distribution nodes etc., to any property. | Contractor or client's appointed agents |

## 2.7. Independents

| 2.7.1. GTC                                                 | S | LI | R | Action Required | Action by |
|------------------------------------------------------------|---|----|---|-----------------|-----------|
| GTC has confirmed plant is not affected.                   | L | L  | L | None            |           |
|                                                            |   |    |   |                 |           |
| 2.7.2. Energetics                                          | S | LI | R | Action Required | Action by |
| Energetics has confirmed plant is not affected.            | L | L  | L | None            |           |
|                                                            |   |    |   |                 |           |
| 2.7.3. Other IDNO/IGT                                      | S | LI | R | Action Required | Action by |
| Desk research indicates other IDNOs/IGTs are not affected. | L | L  | L | None            |           |
|                                                            |   |    |   |                 |           |



## 2.8. Linesearch (LSBUD)

| 2.8.1. LinesearchbeforeUdig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | S | LI | R | Action Required | Action by |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|-----------------|-----------|
| <p>AWE Pipeline, Balfour Beatty Investments Ltd, BOC Ltd, BP Exploration Operating Co Ltd, BPA, Carrington Gas Pipeline, CATS Pipeline c/o Wood Group PSN, Cemex, Centrica Storage Ltd, CLH Pipeline System Ltd, Concept Solutions People Ltd, ConocoPhillips (UK) Ltd, DIO (MoD Abandoned Pipelines), Drax Group, E.ON UK CHP Ltd, EirGrid, Electricity North West Ltd, ENI &amp; Hinnor c/o Penspen Ltd, EnQuest NNS Ltd, EP Langage Ltd, ESP Utilities Group, ESSAR, Esso Petroleum Company Ltd, Fulcrum Pipelines Ltd, Gamma, Gateshead Energy Company, Gigaclear Plc, GTT, Hafren Dyfrdwy, Heathrow Airport Ltd, Humbly Grove Energy, IGas Energy, INEOS FPS Pipelines, INEOS Manufacturing (Scotland and TSEP), INOVYN Enterprises Ltd, Interger (Coryton Energy or Spalding Energy), Mainline Pipelines Ltd, Manchester Jetline Ltd, Manx Cable Company, Marchwood Power Ltd (Gas Pipeline), Melbourn Solar Ltd, Murphy Utility Assets, National Grid Gas and Electricity Transmission, Northumbrian Water Group, Npower CHP Pipelines, Oikos Storage Ltd, Orsted, Perenco UK Ltd (Purbeck Southampton Pipeline), Petroineos, Phillips 66, Premier Transmission Ltd (SNIP), Prysmian Cables &amp; Systems Ltd c/o Western Link, Redundant Pipelines (Land Powers Defence Act 1958), RWE Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station), RWEpower (Little Barford and South Haven), SABIC UK Petrochemicals, Scottish Power Generation, Seabank Power Ltd, Severn Trent Water (Chester area only), Shell (St Fergus to Mossmorran), Shell Pipelines, SSE (Peterhead Power Station), TATA Communications c/o JSM Group Ltd, Total (Colnbrook &amp; Colwick Pipelines), Total Finaline Pipelines, Transmission Capital, UK Power Networks, Uniper UK Ltd, Vattenfall, Veolia ES SELCHP Ltd, Wales &amp; West Utilities, Western Power Distribution, Westminster City Council, Wingas Storage UK Ltd, Zayo Group UK Ltd c/o JSM Group Ltd are not affected.</p> <p>For SGN see section 2.4.1.</p> | L | L  | L | None            |           |
| 2.8.2. GTT (inc Vlesse & Interoute)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | S | LI | R | Action Required | Action by |
| GTT has confirmed plant is not affected (via Linesearch).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | L | L  | L | None            |           |



## 2.9. Communications

|                                                      |          |           |          |                        |                  |
|------------------------------------------------------|----------|-----------|----------|------------------------|------------------|
| <b>2.9.1. Vodafone</b>                               | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Atkins has confirmed Vodafone plant is not affected. | L        | L         | L        | None                   |                  |
| <b>2.9.2. Colt</b>                                   | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| CA Telecom has confirmed plant is not affected.      | L        | L         | L        | None                   |                  |
| <b>2.9.3. KPN</b>                                    | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| KPN has confirmed plant is not affected.             | L        | L         | L        | None                   |                  |
| <b>2.9.4. SKY Telecommunications</b>                 | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| SKY has confirmed plant is not affected.             | L        | L         | L        | None                   |                  |
| <b>2.9.5. Instalcom</b>                              | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Instalcom has confirmed plant is not affected.       | L        | L         | L        | None                   |                  |
| <b>2.9.6. Verizon</b>                                | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Verizon has confirmed plant is not affected.         | L        | L         | L        | None                   |                  |
| <b>2.9.7. SOTA</b>                                   | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.             | L        | L         | L        | None                   |                  |
| <b>2.9.8. KCOM</b>                                   | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity              | L        | L         | L        | None                   |                  |
| <b>2.9.9. TeliaSonera (Telent)</b>                   | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.             | L        | L         | L        | None                   |                  |
| <b>2.9.10. euNetworks</b>                            | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.             | L        | L         | L        | None                   |                  |
| <b>2.9.11. SSE Telecoms</b>                          | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity              | L        | L         | L        | None                   |                  |
| <b>2.9.12. CityFibre</b>                             | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.             | L        | L         | L        | None                   |                  |
| <b>2.9.13. Mast Data</b>                             | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.             | L        | L         | L        | None                   |                  |

## 2.10. Tunnels & Pipelines

|                                          |          |           |          |                        |                  |
|------------------------------------------|----------|-----------|----------|------------------------|------------------|
| <b>2.10.1. Thames Water Ring Main</b>    | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity. | H        | L         | L        | None                   |                  |
| <b>2.10.2. Thames Tunnel</b>             | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity  | H        | L         | L        | None                   |                  |
| <b>2.10.3. Post Office Tunnels</b>       | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity. | H        | L         | L        | None                   |                  |
| <b>2.10.4. Onshore Cables</b>            | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity. | H        | L         | L        | None                   |                  |
| <b>2.10.5. ENGIE</b>                     | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity  | H        | L         | L        | None                   |                  |
| <b>2.10.6. ElecLink Interconnector</b>   | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity. | H        | L         | L        | None                   |                  |



## 2.11. Transport

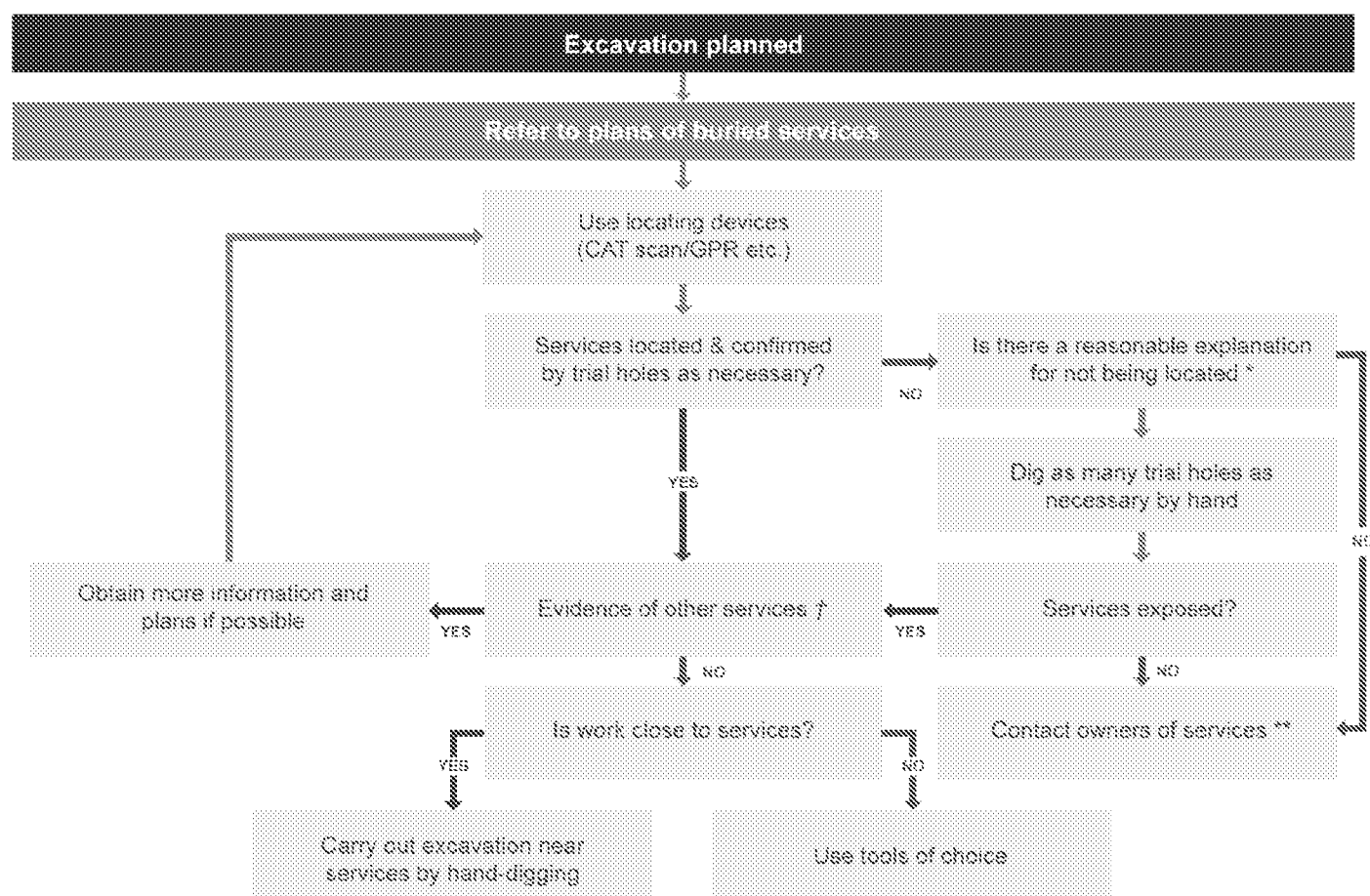
|                                            |          |           |          |                        |                  |
|--------------------------------------------|----------|-----------|----------|------------------------|------------------|
| <b>2.11.1. Network Rail</b>                | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.   | H        | L         | L        | None                   |                  |
| <b>2.11.2. HS 1 (High Speed Rail)</b>      | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.   | H        | L         | L        | None                   |                  |
| <b>2.11.3. HS 2 (High Speed Rail)</b>      | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.   | H        | L         | L        | None                   |                  |
| <b>2.11.4. Crossrail</b>                   | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.   | H        | L         | L        | None                   |                  |
| <b>2.11.5. London Underground</b>          | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.   | H        | L         | L        | None                   |                  |
| <b>2.11.6. LUL Northern Line Extension</b> | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.   | H        | L         | L        | None                   |                  |
| <b>2.11.7. LUL HV Power Assets</b>         | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.   | H        | L         | L        | None                   |                  |
| <b>2.11.8. Docklands Light Rail</b>        | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.   | H        | L         | L        | None                   |                  |
| <b>2.11.9. Croydon Tramlink</b>            | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.   | H        | L         | L        | None                   |                  |
| <b>2.11.10. Transport for London</b>       | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.   | H        | L         | L        | None                   |                  |
| <b>2.11.11. Genesys</b>                    | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.   | H        | L         | L        | None                   |                  |
| <b>2.11.12. Trafficmaster</b>              | <b>S</b> | <b>LI</b> | <b>R</b> | <b>Action Required</b> | <b>Action by</b> |
| Desk research indicates not in vicinity.   | H        | L         | L        | None                   |                  |



### 3. Important Information

This flow diagram is intended to help give an understanding of the process from referring to plans on-site through to the start of excavation, for example when excavating in a road or footway. However it:

- Describes only part of the process; it does not, for example, describe planning the work, including reference to plans at the design stage;
- Is a simplified picture and not a substitute for reading the text;
- Is not a substitute for a suitable and sufficient risk assessment;
- Does not take account of a number of other situations, e.g. cable embedded in concrete or those situations where resiting services is proposed.



\* For example, could services be non-metallic pipes? Please refer to HS (G) 47 text for further information.

† In particular, visual evidence. Ensure that the presence of services, which may be unmarked on plans or for which no plans are available, has been considered, for example service connections.

\*\* If there is visual evidence of services, but owners cannot be traced, despite all reasonable attempts to do so, any excavation could proceed but using hand-dug trial holes and proceeding with great care.



## 3. 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.
- 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 EML/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.

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



## 4. Enclosures

| Type               | Company                                  | In Ministry | Desk Research | Awaiting Response |
|--------------------|------------------------------------------|-------------|---------------|-------------------|
| Electricity        | Scottish & Southern Electricity Networks |             |               |                   |
| Water              | Portsmouth Water                         |             |               |                   |
| Drainage           | Southern Water                           |             |               |                   |
| Gas                | SGN                                      |             |               |                   |
| Openreach          | Openreach (formerly BT)                  |             |               |                   |
| Virgin Media       | Virgin Media                             |             |               |                   |
| Independents       | GTC                                      |             |               |                   |
|                    | Energetics                               |             |               |                   |
|                    | Energy Assets                            |             |               |                   |
| Linesearch (LSBUD) | LinesearchbeforeUdig                     |             |               |                   |
|                    | GTT (inc Viesse & Interoute)             |             |               |                   |
| Comms.             | Vodafone                                 |             |               |                   |
|                    | Coit                                     |             |               |                   |
|                    | KPN                                      |             |               |                   |
|                    | SKY Telecommunications                   |             |               |                   |
|                    | Instalcom                                |             |               |                   |
|                    | Verizon                                  |             |               |                   |
|                    | SOTA                                     |             |               |                   |



| Type                | Company                     | In Vicinity | Desk Research | Awaiting Response |
|---------------------|-----------------------------|-------------|---------------|-------------------|
|                     | KCOM                        |             |               |                   |
|                     | TeliaSonera (Telent)        |             |               |                   |
|                     | euNetworks                  |             |               |                   |
|                     | SSE Telecoms                |             |               |                   |
|                     | CityFibre                   |             |               |                   |
|                     | Mast Data                   |             |               |                   |
| Tunnels & Pipelines | Thames Water Ring Main      |             |               |                   |
|                     | Thames Tunnel               |             |               |                   |
|                     | Post Office Tunnels         |             |               |                   |
|                     | Onshore Cables              |             |               |                   |
|                     | ENGIE                       |             |               |                   |
|                     | ElecLink Interconnector     |             |               |                   |
| Transport           | Network Rail                |             |               |                   |
|                     | HS 1 (High Speed Rail)      |             |               |                   |
|                     | HS 2 (High Speed Rail)      |             |               |                   |
|                     | Crossrail                   |             |               |                   |
|                     | London Underground          |             |               |                   |
|                     | LUL Northern Line Extension |             |               |                   |
|                     | LUL HV Power Assets         |             |               |                   |
|                     | Docklands Light Rail        |             |               |                   |
|                     | Croydon Tramlink            |             |               |                   |
|                     | Transport for London        |             |               |                   |
|                     | Genesys                     |             |               |                   |



| Type | Company       | In-Videity                                   | Desk Research          | Awaiting Response |
|------|---------------|----------------------------------------------|------------------------|-------------------|
|      | Trafficmaster | <div><div></div><div></div><div></div></div> | <div><div></div></div> |                   |



## 5. Acronyms Key

| Apparatus |                                             |       |                                  |
|-----------|---------------------------------------------|-------|----------------------------------|
| 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       |                                             |       |                                  |
| GDN       | Gas Distribution Network                    | 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    |                                             |       |                                  |
| PES       | Premier Energy Services                     | 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                                   | HSF   | 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                   |
| PADHI     | Planning Advice for Hazardous Installations |       |                                  |