

APPENDIX G FULCRUM CORRESPONDENCE

Cheryl Forrester

From: Newman, Gordon [Gordon.Newman@fulcrum.co.uk]
Sent: 19 April 2012 13:57
To: Cheryl Forrester
Cc: Spencer, Sian
Subject: RE: Hemel West development budget estimate

Follow Up Flag: Follow up
Flag Status: Flagged

Afternoon Cheryl,

I have spoken to my colleagues in design and my Business Development Manager Sian Spencer.

For the project below a budget cost of circa £450,000.00.

We could provide a design for this, but this would be for a design fee of £650.00, which covers Asset Value applications and Reinforcement investigation

If you have any further queries, or any further requests in relation to this project please do not hesitate to contact myself or Sian Spencer, who I have Cc'd in to this email

Kind Regards

Gordon Newman
Sales Support



T: 0114 280 4247 (Direct Line)
T: 0845 641 3010 (Customer Service)
E: Gordon.newman@fulcrum.co.uk
I: www.fulcrum.co.uk

FULCRUM NEWS

NEW WEBSITE

Our new website is now live. [Take a look.](#)

NEW SALES FORCE

We've put in place a new network of experienced Business Development Managers. [Find your BDM.](#)

From: Cheryl Forrester [mailto:cheryl.forrester@elementaconsulting.com]
Sent: 17 April 2012 14:12
To: Newman, Gordon
Subject: Hemel West development budget estimate

Hi Gordon,

Please find attached a site plan and the response I have had from national grid with regard to capacity. I'd be grateful if you could provide a budget cost for gas connections.

We have allowed for the following loads:

- Community /commercial
 - allowed 17000m2 of commercial at 60W/m2 = 1020 kW peak
 - Allow 20kWh/m2/annum = 341720 kWh/annum

- School
 - allowed 2700m2 at 80W/m2 = 260kW
 - Allow 55 kWh/m2/annum = 148500kWh/annum

- Domestic
 - 900 dwellings
 - Annual load in the region of 6,289,200

We are aware of a LHP main running across the site. As there are no layouts of the site, I do not know the effect this may have so please assume this will be left as is for now.

If you require any further info, let me know and I'll do my best to sort out.

Regards,
Cheryl Forrester



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APPENDIX H VEOLIA WATER CORRESPONDENCE

Cheryl Forrester

From: Cheryl Forrester
Sent: 28 March 2012 14:24
To: 'developerservices@veoliawater.co.uk'
Subject: application for green field site, HP1
Attachments: HP1 2SE site.pdf; New connections application form.pdf

Please find attached an application and site plan for a new green field housing development site in the feasibility stage. There will be approximately 900 dwellings, a primary school and some commercial units. There are no further details with respect to site layout, roads etc.

Please can you advise on outline budget costs for water infrastructure and confirm whether envisaged loads can be met by the existing local network, if new mains are required and whether there is any existing plant/pipework belonging to Veolia water on the site.

The postcode of the site is approximately HP1 2SE and the grid reference approximately TL 03033 07254

A previous enquiry was submitted last year for this area with a smaller development area (your ref NC35976 – Fields End (HP1)) however the scheme has now expanded to a larger area with a greater number of dwellings and a revised enquiry is required.

If you have any queries, please don't hesitate to contact me on the details below.

Regards,
Cheryl Forrester



elementa

Unit 1, Library Avenue, Harwell Oxford, Didcot, OX11 0SG

dd 01235 441974 | t 01235 820300 | f 01235 441970

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application for a new or replacement water connection
from your property to an existing water main

FOR INTERNAL USE ONLY							
NC							
<input type="checkbox"/>	WIA 1991 SECTION 45						
<input type="checkbox"/>	SECTION 47 C/NOTICE						
<input type="checkbox"/>	TEMPORARY SUPPLY						
<input type="checkbox"/>	REVISED APPLICATION						
<input type="checkbox"/>	ACCEPTED _____						

Complete this application form if you require a new or replacement water connection(s) from your development to an existing water main for supply pipe sizes up to and including 63mm diameter. Please ensure that you complete all sections of this application form in full and where necessary attach additional information to the form. This will allow us to process your application quickly and provide you with a more accurate cost estimate for your new connection(s). For advice on how to complete this application form please refer to our accompanying document, "your guide to completing an application for a new or replacement water connection".

Please note that incomplete or incorrectly complete applications may result in a delay to your application being processed. Upon receipt of this form, we will review your request and write to you within 3 working days of receipt to advise you that your application has been accepted, or we require more information to proceed with your request.

PLEASE COMPLETE THE APPLICATION FORM IN INK AND USE BLOCK CAPITALS

Section A – Applicant Details

Which address should we use for all correspondence relating to this connection?

Applicant name:	CHERYL FORRESTER		
Full postal address:	UNIT 1, LIBRARY AVENUE, HARWELL OXFORD, PIDCOT, OX11 0SG		
Telephone number:	01235 820 300	Fax number:	
Email address:	CHERYL.FORRESTER@ELEMENTACONSULTING.COM		

Which form of written correspondence would you prefer? letter email Please check this box if you are happy to be contacted by us to provide feedback Yes

Please provide your mobile phone number if you wish to receive text updates about the status of your application Mobile number:

Section B – Invoice and Billing Details

Where should we send invoice information? same as applicant different to applicant (please complete section below if different)

Invoice name:	
Full postal address:	
Email address:	

Section C – Your Existing Supply

Please provide information about your existing supply:

(i) Has the site/ property had a water supply within the last 5 years? Yes No If no, please ignore this section and continue to Section D

(ii) If yes to (i), is the supply still connected to the Veolia Water Central network? Yes No Don't Know

(iii) If yes to (ii), please provide your Veolia Water Central Customer Reference Number:

(iv) Please provide details of the fittings that are or were in each property currently or previously.

Type of Fitting	Property 1	Property 2	Property 3	Property 4	Property 5	Internal Use Only	
	Property Name or Number	Loading Units (LU)	Total LU per property				
w/c flushing						2	
wash basin in house						1.5	
wash basin elsewhere						3	
bath (tap size 20mm)						10	
bath (tap size > 20mm)						22	
shower						3	
sink (tap size 15mm)						3	
sink (tap size >15mm)						5	
spray tap						0.5	
bidet						1.5	
domestic appliance						3	
communal/commercial appliance						10	
any other water fitting (including tap but excluding urinal or water softener)						3	

- (v) If possible, do you want to keep any of the existing supplies? Yes No If no, we will disconnect these at the time of connecting your new supply
- (vi) If you are able to keep any of the existing supplies, what will they be used for?
- (vii) What are the existing supplies currently supplying? (e.g. house, flat, shop, factory)
- (viii) Are you demolishing any of the existing buildings? Yes No If yes, how many will you be demolishing?
- (ix) Are you on a common/ shared supply with neighbouring properties? Yes No Don't know
- (x) Is the existing supply metered? Yes No
- (xi) What material is your existing supply pipe? Lead Copper Galvanised Iron Other

Section D (a) – New Supply Details

(i) Please provide us with the location details of your proposed development?

Full postal address: LONG CHAULDON/CHAULDON LANE, HEMEL HEMPSTEAD

Post Code: HPI 2SE (APPROX, GREEN FIELD SITE)

Please note that we will require full postal addresses for each property before we will be able to proceed with your connection

(ii) Are you the: property owner current occupier acting on behalf of the owner/ occupier

(iii) If you are acting on behalf of the owner/ occupier, please provide their name and address and any other details that might be relevant:

(iv) Please tick the appropriate box(es) below to indicate the type and number of connections you require:

- | | | | |
|---|-------------------------------------|-----------|--|
| a) New build House | <input checked="" type="checkbox"/> | How many? | <u>900</u> |
| b) New build Flats, Maisonettes or Apartments | <input type="checkbox"/> | How many? | <input type="text"/> |
| c) New build Industrial units | <input type="checkbox"/> | How many? | <input type="text"/> Please specify <input type="text"/> |
| d) New build Commercial units | <input checked="" type="checkbox"/> | How many? | <u>12000m² (approx, no site layouts)</u> |
| e) Conversion of existing building | <input type="checkbox"/> | How many? | <input type="text"/> Please specify <input type="text"/> |
| f) Separation of your joint supply | <input type="checkbox"/> | How many? | <input type="text"/> Please specify <input type="text"/> |
| g) Upsize or replace my existing supply | <input type="checkbox"/> | How many? | <input type="text"/> |
| h) Field / Trough supply | <input type="checkbox"/> | How many? | <input type="text"/> |
| i) Fire supply | <input type="checkbox"/> | How many? | <input type="text"/> |
| j) Landlord / Bin store supply | <input type="checkbox"/> | How many? | <input type="text"/> |
| k) Other | <input checked="" type="checkbox"/> | How many? | <u>1</u> Please specify <u>PRIMARY SCHOOL</u> |

(v) Do you want to use any of the above supplies as a temporary supply for building purposes and then change it to a permanent connection? Yes No

(vi) If so which supply do you wish to use? (please specify)

(vii) When do you need your new supply connected? (day / month / year) TBA Please note this date must be at least 8 weeks from the date of application

(viii) Please provide information below about your proposals for the supply arrangements and storage:

- | | | | |
|--|---|--|--|
| a) Are you installing a direct main fed system? i.e. combi boiler, unvented system | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| b) Is your property above 1st floor level? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| c) Will you be installing an internal booster pump? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| d) Are you installing any type of water storage? (if yes, how many litres?) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> <input type="text"/> litres |
| e) Will you be installing a barrier supply pipe? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| <u>If No, please do not lay any pipework until we have confirmed that the pipe material meets our requirements.</u> | | | |
| f) For existing supplies are you increasing the demand by installing additional water fittings? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| g) Are any existing supplies lacking flow or pressure? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| h) What method is/will be used for sewage disposal? Mains Drainage <input checked="" type="checkbox"/> Septic Tank <input type="checkbox"/> Other <input type="checkbox"/> | | | |
| i) Do you plan to install a grey water recycling or rainwater harvesting system? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |

If yes, please provide details, e.g. volume of storage, internal plumbing details

(ix) Please sketch in the space provided the route of your supply pipe to the boundary. The examples below will give you an idea of how your sketch should look.

Please add comments to your sketch to help us understand your requirements, e.g. new supply for new build house, separation of supply from neighbour, field supply for paddock, temporary building supply for development, etc.

Please do not lay your supply pipe until you have sent in your completed application form and spoken to Developer Services.

Please include soil sample locations, where taken for ground condition assessments (soil reports), on this sketch.

PLEASE SEE ATTACHED SITE/ LOCATION PLANS.

SUPPLY TO BE TAKEN FROM LOCAL INFRASTRUCTURE IF POSSIBLE OR NEW MAINS SUPPLY TO BE DEVELOPED IF NECESSARY

(ix) Please fill in the table below with how many fittings per property(s) you will have:

Type of Fitting	Example	Property 1	Property 2	Property 3	Property 4	Property 5	Internal Use Only	
	Property Name or Number	Loading Units (LU)	Total LU per property					
	16	TBA						
w/c flushing	3	"					2	
wash basin in house	3	"					1.5	
wash basin elsewhere		"					3	
bath (tap size 20mm)	1	"					10	
bath (tap size > 20mm)		"					22	
shower	1	"					3	
sink (tap size 15mm)	1	"					3	
sink (tap size >15mm)		"					5	
spray tap		"					0.5	
bidet		"					1.5	
domestic appliance	2	"					3	
communal/commercial appliance		"					10	
any other water fitting (including tap but excluding urinal or water softener)	1 (garden tap)	"					3	

(x) If you are requiring water for non-domestic use i.e. Factory, Golf Course (irrigation) please complete the table below:

Nature of business	Maximum Daily Demand (m ³ per day)	Maximum Instantaneous Demand (litres per second)	Volume of storage on site

Section D (b) – New Supply Site Details

(i) Please provide information regarding the current or most recent site usage, for example "a detached residential property with mature gardens" or "former garage forecourt and shop":

GREEN FIELD SITE

(ii) Please answer the following questions about your site:

- a) Is there any on-site fuel storage? Yes No N/A
- b) Is there any on-site oil heating? Yes No N/A
- c) Is there any evidence to suggest that fuel has previously been stored on site? Yes No N/A
- d) If your proposed route for the new pipe is near car parking (e.g. a driveway), how far away is it? Please include details in your sketch above. Less than 2m Between 2m and 5m Over 5m N/A

(iii) Please indicate if there is any evidence of the following taking place either at present or historically:

- a) Chemical works
- b) Vehicle repair / manufacture / storage
- c) Petrol station
- d) Gas works
- e) Hazardous waste treatment
- f) Tanneries
- g) Electricity sub-station
- h) Landfill site / waste disposal
- i) Paper manufacture
- j) Print works
- k) Railway yards / land
- l) Scrap yards
- m) Timber yards

These activities can present a high risk to the integrity of PE pipe. You may be asked to provide a ground condition assessment (soil report) to support your application if you wish to consider laying PE pipe. Please do not lay your supply pipe until you have received your cost advice, which will specify the material to be used.

(iv) If you have ticked any of the above, please provide further information, for example what you have seen, where, and when:

.....

.....

.....

.....

.....

(v) Are you including a ground condition assessment (soil report) to support your application? Yes No

If yes, please provide an indication of the soil sample locations on the sketch above.

Please note that the selection of the communication pipe material resides entirely with Veolia Water Central. You are strongly advised not to lay any pipe work until you have sent your completed application form to Developer Services, and spoken to a member of the team, to ensure that you are given the correct information about your supply pipe material and diameter.

Section E – Fire Supplies

Information about any dedicated fire or sprinkler systems you propose to have in your property (or properties):

- (i) Are you installing a sprinkler system or dedicated fire fighting supply? Yes No If no, please ignore this section and continue to Section F
- (ii) Are you installing a fire supply for a domestic or commercial property? Domestic Commercial
- (iii) If yes to (ii), how many supplies and for what type of property? (e.g. 2 x Factory)
- (iv) What size fire supply connection do you require for each property? 25mm 32mm 50mm 63mm

(If you require a fire supply greater than a 63mm service please complete a new mains application form for either domestic or commercial use which can be found on our website at www.veoliawater.co.uk)

Section F – Additional Information, Checklist and Declaration

Information you must provide before we can continue with your connection:

1. Letter/fax/email showing owner/occupier permission (if acting on behalf of owner/occupier)
2. Location Plan (Scale 1:1250)

(tick as appropriate)
 If Applicable
 Required

Information you must provide if you are building a new property or development, or converting an existing building:

3. Site Plan (Scale 1:200 or 1:500)
4. Water regulation drawing showing pipework layouts and proposed water fittings to be used

Required
 Required

Information you may wish to provide to assist us with designing your connection:

5. Ground Condition Assessment (soil report) (if available)

Optional

Please confirm that you have read and understand the conditions below by ticking each adjacent box and inserting your signature as required below:

- I have completed all relevant sections on the application form and confirm that Veolia Water Central will only undertake work outside private ownership and that in making this application I will be liable for any charges payable in respect of the connection(s) to which this application relates, including any infrastructure charges.
- I confirm that I wish to apply for a new water connection(s) for the properties listed in Section D of this application and acknowledge my duty to comply with the Water Supply (Water Fittings) Regulations 1999 and Veolia Water Central terms and conditions.
- I confirm that I have included with this application all the required documentation as detailed above and that the completion and return of this application form will, in the absence of information to the contrary, be deemed to constitute notice made under Section 45(1) of the Water Industry Act 1991.

Signature:

C Forrester

Print Name:

C FORRESTER

Company:

ELEMENTA CONSULTING

Job Title:

ENGINEER

Date:

28.03.2012

Please note that we cannot accept postal application forms without a signature from the applicant.

If you are submitting your application form electronically, please check this box to confirm that you are applying for a new or replacement connection (in the absence of your signature).

Please do not send original copies of any supplementary information - Veolia Water Central cannot guarantee the return of information sent with an application.

Please return all documentation to:

Developer Services
 Veolia Water Central
 Tamblin Way
 Hatfield
 Hertfordshire
 AL10 9EZ

Tel: 08451 552 088

Fax: 01707 679 206

If submitting electronically, please send to:

developerservices@veoliawater.co.uk

Application forms and further information can also be obtained from our website: www.veoliawater.co.uk

Parent Main details at PoC													FOR INTERNAL USE ONLY	
CI/SI	CI	DI	GI	Steel	AC	PVC	Thermopipe	Epoxy Lined	MDPE	HPPE	PE	Other	Diameter	
Other comments														
APM Initials: Soil report: N / A / Clean / Contaminated Material: BP / PE Applicant provides additional info e.g. soil report; material selection: BP / PE														

Developer Services
3rd Floor
Tamblin Way
Hatfield, Herts.
AL10 9EZ

Ms Cheryl Forrester
Elementa Consulting
Unit 1
Library Avenue
Harwell Oxford
Didcot
OX11 0SG

Date of this notice:
23 May 2012

Your Scheme Reference: NC 35976
Please quote this on all correspondence

Dear Ms Forrester

Re: Request for a Budget Price for Water Infrastructure Field End Hemel Hempstead

We are pleased to enclose this information in response to your request for a budget estimate to supply your development.

Your Budget

Item	Excavation	Approx. Unit Cost	Approx. Scope	Budget Price	Estimated Contribution
Onsite (development) water mains	Not included	£130/m	1500m	£195,000	30%
Onsite (development) service connections	Not included	£400 ea	900no.	£360,000	100%
Onsite large diameter (>63mm) services	Not included	£3,000 ea	3no.	£9,000	100%
Off Site (in public Highway) (>63mm) services	Included	£4000	0no.	£0	100%
Offsite water mains laying (e.g. reinforcement)	Included	£270/m	740m	£199,800	100%
Offsite (in public highway) Service connections	Not included	£2000 ea	0no.	£0	100%

Please note the cost information provided in this letter is for budgetary purposes only and is subject to change.

The developer's contribution for onsite water mains is usually much less than the cost of installation. This is in accordance with the legislation set out by the Water Industry Act 1991 for the recovery of water company costs. The contribution varies significantly from scheme to scheme but **typically ranges from 10 – 30%**. It is not possible to give a more accurate figure without a full water mains requisition, so we would advise using a contribution figure of 30%.

In addition to the above, the following items may be required and **have not been included in the above budget estimate**:

- Infrastructure charges (refer to Veolia Water Central's current Charges Scheme);
- Traffic management costs (charges vary considerably between Local Authorities);
- Service connections to the existing network, e.g. show home supplies to water mains in the public highway (where Veolia Water is to excavate and reinstate);
- Disconnections of existing water mains and / or service pipes;
- Building water charges and Value Added Tax.

Please note that the cost information provided is an estimate and the actual costs may differ significantly. Detailed design (including full hydraulic analysis to size the water pipes, consultation with statutory bodies, e.g. fire brigades, and local authorities to establish traffic management requirements) and costs are supplied to the developer on correct completion of the appropriate application form(s), available on our website.

Summary

We enclose a record plan which shows the approximate positions of our existing water main distribution network in the vicinity of your development. This plan will help give you an indication of the likely connection points to serve your proposed development.

Our budgetary analysis considers whether your development requires any of the following:

- Onsite works: **new water mains**
- Onsite works: **new service connections**
- Onsite works: **large diameter service connections** (greater than 63mm diameter)
- Offsite works: **diversion** of existing assets
- Offsite works: **reinforcement** (upgrade) of the existing network
- Offsite works: **new service connections**

Onsite works

New onsite water mains laid in High Density Polyethylene (HPDE) up to 180mm outside diameter are typically **£130 per linear metre** where the following conditions are met:

- The trenches for the new water mains are fully excavated by the developer in accordance with the Veolia trench specification (enclosed);
- Other onsite utilities are laid in accordance with NJUG regulations, maintaining the necessary access to the new water mains and safe distances from other utilities.

The approximate scope of works is based on the information you supplied with your budget request. We have indicated our proposal for onsite mains on the record plan enclosed.

For developments with complex proposals, we strongly suggest you complete a full mains requisition to allow us to review in detail and schedule a meeting to discuss your needs.

New onsite service connections with an inline meter in Medium Density Polyethylene (MDPE) up to 32mm outside diameter are approximately **£400 each** where the following conditions are met:

- The supply pipe is laid to the correct depth in the material specified by us;
- The trench for the communication pipe is fully excavated by the developer;
- The distance between the property boundary and water main is less than 10 metres;
- The connection point to the onsite water main is exposed by the developer.

Infrastructure charges are due on new service connections. Please check our website for the current infrastructure charge (search for Veolia Water Central's Charges Scheme).

Onsite works: Large diameter service connections

Some types of developments require larger supplies, for example blocks of flats or offices, hospitals, industrial units or a new hotel. The approximate cost of a **single large diameter connection is £3,000**.

Infrastructure charges due on large diameter service connections for commercial premises are calculated using the Relevant Multiplier method, set out in our Charges Scheme. Please note that infrastructure charges are not included in the budget costs in this letter.

Offsite works

Where our assessment indicates that **diversion and / or reinforcement of the existing water mains network** is required to support your development, mains laid in High Density Polyethylene (HDPE) up to 180mm outside diameter are typically **£270 per linear metre** (including all excavation and reinstatement) where the following conditions are met:

- All works in the public highway (not A roads or motorways);
- Other utilities do not prevent access to the existing network (laid in accordance with NJUG).

The decision to undertake offsite works to support development activity is not taken lightly. The costs for the works are directly proportional to the extra demand required, i.e. we do not charge the developer for anything not related to his development. A basic hydraulic study is undertaken to assess the existing capacity of the network and is considered in our budget cost provided on Page 1 of this letter.

Where offsite reinforcement or diversions are required, it is because at least one of the following criteria applies:

- The existing network as currently sized is not capable of supporting any additional properties.
- The proposed development has a detrimental effect on the water supply to our existing customers.
- The development site proposed is on top of an existing asset and needs to be moved.
- New fittings (valves, washouts etc) are required to enable the connection to the new development to be made.

We would ask you to appreciate that the closest water main to your development may not be the most appropriate main to connect into, and at budget stage we cannot guarantee which main will be used. On receipt of a full mains requisition, we will undertake detailed analysis to identify the most cost effective option for your development; taking into account the above points as well as traffic management requirements.

New offsite service connections with an inline meter in Medium Density Polyethylene (MDPE) up to 32mm outside diameter are approximately **£2000 each** where the following conditions are met:

- The supply pipe is laid to the correct depth in the material specified by us to the boundary of the private land;
- The distance between the property boundary and water main is less than 10 metres;

Infrastructure charges are due on new service connections. Please check our website for the current infrastructure charge (search for Veolia Water Central's Charges Scheme).

Offsite works: Large diameter service connections

Some types of developments require larger supplies, for example blocks of flats or offices, hospitals, industrial units or a new hotel. The approximate cost of a **single large diameter connection is £4,000 (for bulk supplies with internal meters for flats of 12 or more please allow an extra charge for installing the meter of £82.33 for each property)**.

Infrastructure charges due on large diameter service connections for commercial premises are calculated using the Relevant Multiplier method, set out in our Charges Scheme. Please note that infrastructure charges are not included in the budget costs in this letter.

Other useful information

We have provided the cost information in good faith for your budgetary purposes.

Costs will increase when:

- Working in contaminated ground as a barrier pipe is required to protect water quality. Installations in barrier pipe are typically 30 – 50% more expensive than HDPE pipe.
- Larger diameter pipes (>180mm) are required (whether on and / or offsite), as the excavation is greater and the cost of the materials/fittings increases.
- Veolia Water is required to excavate and reinstate onsite works.
- Above ground asset reinforcement is required (e.g. a booster or new reservoir).

We require completion of the appropriate application form(s) and submission of supporting documentation to provide more accurate costs. Please note we cannot proceed if the application form is incomplete and you should estimate items such as loading units and build rates if the actual figures are currently unknown to you.

The start of mains and service connections works on your site is dependent upon our current programme of works, although every effort will be made to accommodate your timetable. It should be noted that construction in the public highway is governed by statutory regulation and under certain circumstances commencement of offsite works may be delayed by up to three months from the receipt of your payment to gain permission from the Local Authority.

If you need any further advice please do not hesitate to contact us.

Yours sincerely

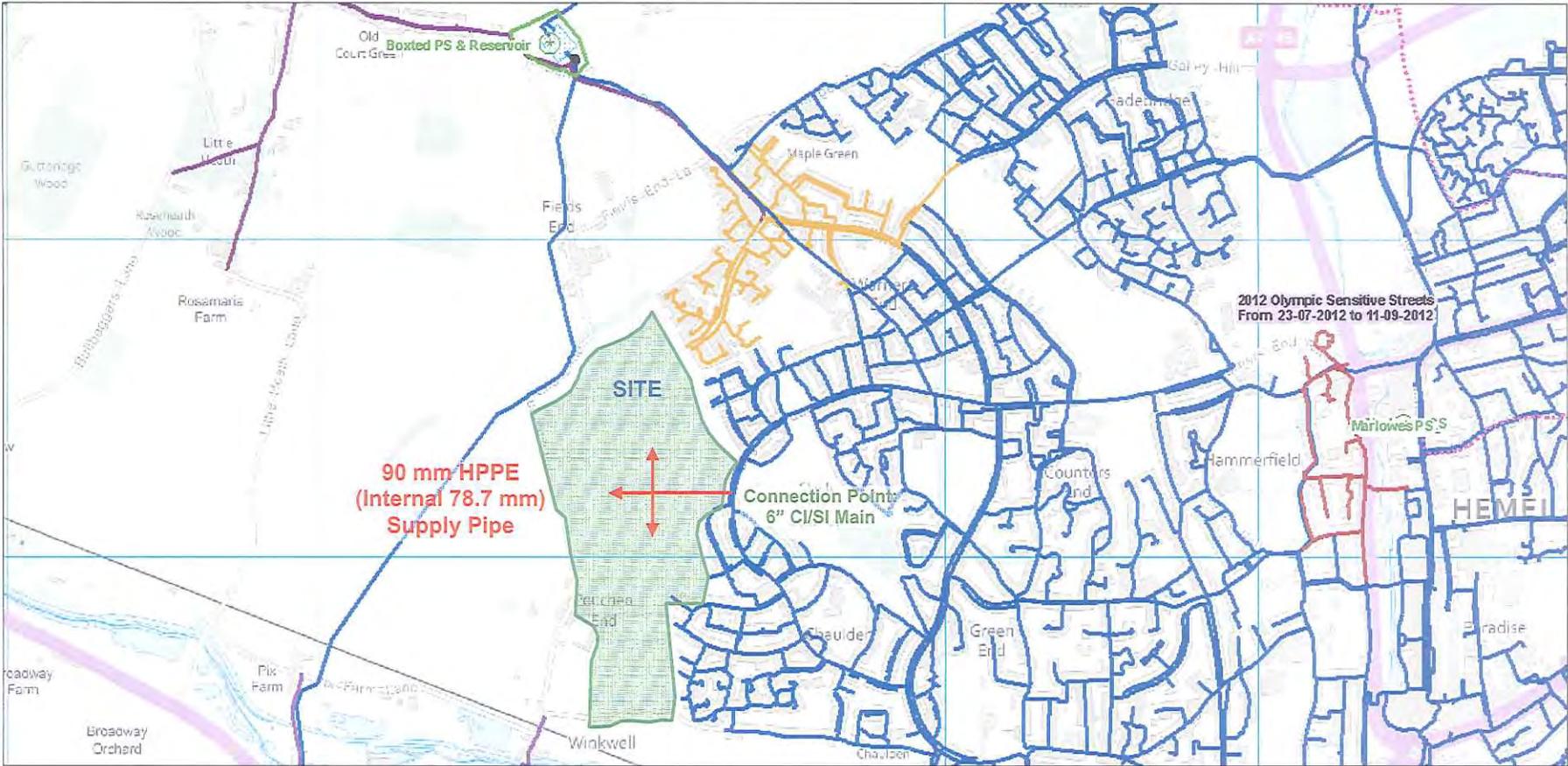
For and on behalf of Developer Services
Veolia Water Central

www.veoliawater.co.uk/central

APPENDIX I VEOLIA WATER RECORDS

Project Reference: NC35796	Hydraulic Demand Zone: Hemel Hempstead	
Location: Long Chauldon, Hemel Hempstead, Hertfordshire, HP1 2SE		
DMA: 8207 Long Chaulden	Coordinates (X,Y): 503320,207220	

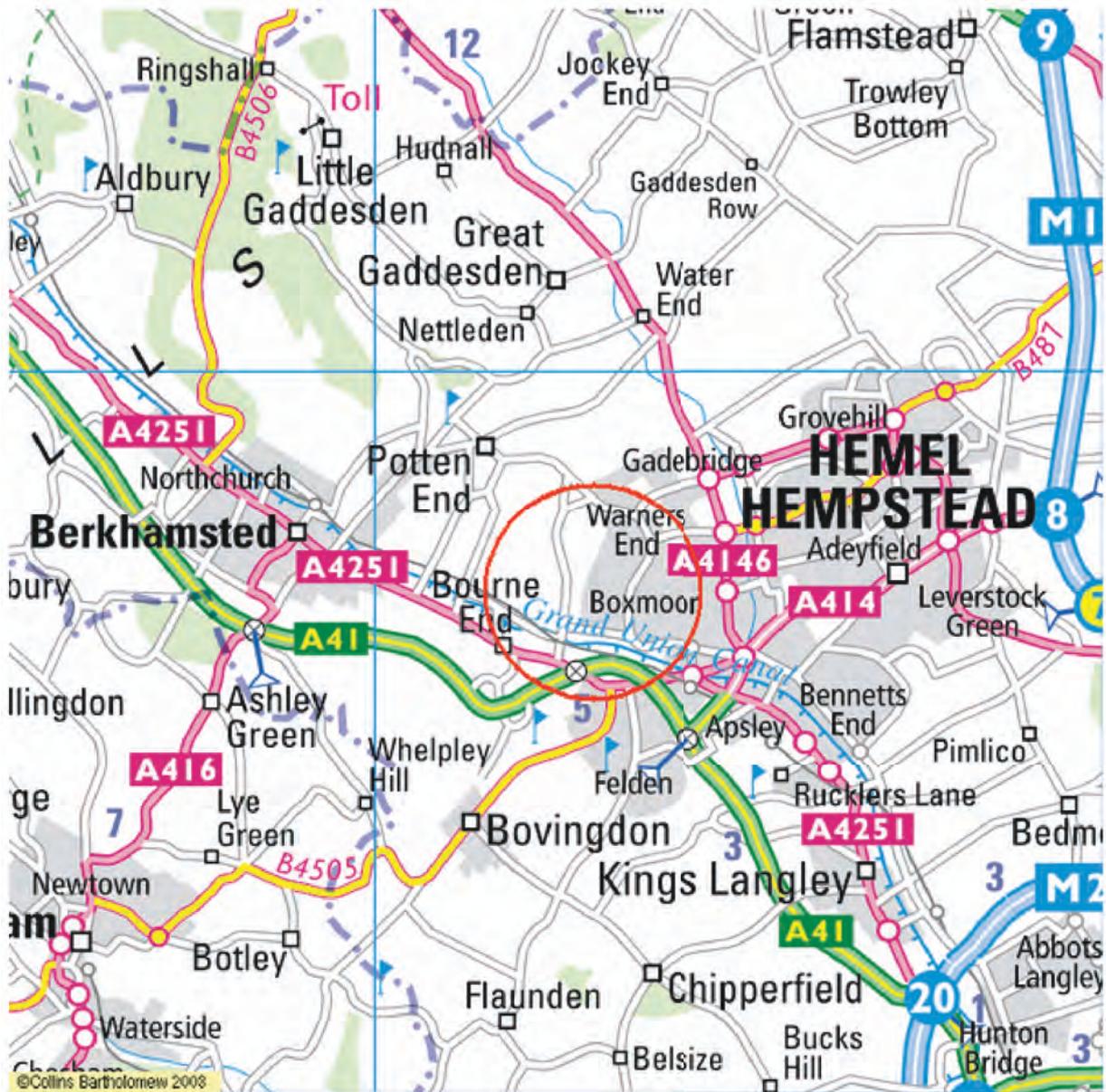
SITE AND PROPOSAL



Development of 900 Residential Properties, a Primary School and Commercial Units
 Each residential property is assumed to have a demand of 450 lpd and a leakage rate of 150 lpd
 90 mm HPPE (int. 78.7 mm) Supply Pipe
 Assumed demand of the Primary School is 2 ls⁻¹ and the combined demand of the Commercial Units are 3 ls⁻¹

Author: Jaymin Chauhan	Date: 14/05/2012
Department: Asset Performance, Asset Management	Page 4 of 15

APPENDIX J LINESEARCH RESULTS



Cheryl Forrester

From: no-reply@linesearch.org
Sent: 08 May 2012 17:29
To: Cheryl Forrester
Subject: LINESEARCH enquiry confirmation: LS-120508-JN-861-SXN

Enquiry received at: 17:29 on 08/05/2012

Please DO NOT respond directly to this email. If you have any queries please contact Linesearch on 0870 403 6484, quoting your Linesearch reference number.

Dear Miss Cheryl Forrester

Thank you for your enquiry: LS-120508-JN-861-SXN

Subject always to our standard terms and conditions, this enquiry result is valid for 28 days only from the date of enquiry and is based on the confirmed information you entered. If the location of the work changes then a further enquiry must be made. Should the work not be undertaken within 28 days of the enquiry then a further enquiry must be made.

Enquirer details

Name: Miss Cheryl Forrester
Company: Elementa Consulting
Email: cheryl.forrester@elementaconsulting.com
Tel: 01235 820300

Enquiry details

Your reference: 6489
Your location: 503013 206943
Confirmed location: OS grid reference (503013 206943) Estimated start date: 06-11-2013
Type of work: Development Projects - Housing Area covered: Distance covered: 1500 metres
Planned works: No
Emergency: No

Not in the Zone of Interest

BOC Limited (A Member of the Linde Group)
BPA
Centrica Energy
ConocoPhillips (UK) Ltd
ConocoPhillips Ltd Humber Refinery
Coryton Energy Co Ltd (Gas Pipeline)
E-on UK Plc (Gas Pipelines Only)
ESSAR
Esso Petroleum Company Limited
FibreSpeed Limited
Geo Networks Limited
Government Pipelines & Storage System
HV Cables
INEOS Manufacturing (Scotland and TSEP)
Ineos Enterprises Limited

Mainline Pipelines Limited
Manchester Jetline Limited
Marchwood Power Ltd (Gas Pipeline)
NPower CHP Pipelines
National Grid Gas and Electricity Transmission
Oikos Storage Limited
Perenco UK Limited (Purbeck Southampton Pipeline)
Premier Transmission Ltd (SNIP)
RWEpower (Little Barford and South Haven)
SABIC UK Petrochemicals
Scottish Power Generation
Star Energy
Total UK (Finaline, Colnbrook & Colwick Pipelines)
Wingas Storage UK Ltd

Thank you for your enquiry, there is no further action necessary.

Please note that Linesearch.org system only contains information on National Grid's Transmission assets. All other National Grid or other local high pressure (above 7 bar) gas pipelines and lower pressure gas mains are not included.
For all other energy network operators' information and contact details see <http://www.energynetworks.org/>

Please quote the Linesearch enquiry reference number in **all** correspondence

To view your enquiry history, just log in to <http://www.linesearch.org>

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>

APPENDIX K

BT RECORDS



1

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.

DIAL BEFORE YOU DIG

FOR PROFESSIONAL ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS

ADVANCE NOTICE REQUIRED
(Office hours: Monday-Friday 08.00 to 17.00)

Tel: 0800 9173993
E-mail: dbyd@openreach.co.uk
Website: www.dialbeforeyoudig.com

Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office
(C) Crown Copyright British Telecommunications plc 100028040

KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

openreach

a BT Group business



BT Ref : KJS112131

Map Reference : (centre) TL0305107664

Eastings/Northing : (centre) 503051,207664

Issued : 01/06/2012 11:21:50

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

2

Maps by email Plant Information Reply



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Website: www.dialbeforeyoudig.com

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KEY TO BT SYMBOLS

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	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

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openreach

a BT Group business



BT Ref : ZEQ10436W

Map Reference : (centre) TL0289807506

Easting/Northing : (centre) 502898,207506

Issued : 01/06/2012 10:44:13

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

Maps by email Plant Information Reply



IMPORTANT WARNING

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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

openreach
a BT Group business



BT Ref : YNW10478D
Map Reference : (centre) TL0311107349
Easting/Northing : (centre) 503111,207349
Issued : 01/06/2012 10:47:51

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

4

Maps by email Plant Information Reply



IMPORTANT WARNING

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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

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a BT Group business



BT Ref : MOB10472G
Map Reference : (centre) TL0289407176
EastIng/NorthIng : (centre) 502894,207176
Issued : 01/06/2012 10:48:06

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

5

Maps by email Plant Information Reply



IMPORTANT WARNING

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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

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a BT Group business

BT Ref : PNT10487E

Map Reference : (centre) TL0303306896

Easting/Northing : (centre) 503033,206896

Issued : 01/06/2012 10:48:26

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

6

Maps by email Plant Information Reply



IMPORTANT WARNING

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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

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a BT Group business



BT Ref : VOF10491R

Map Reference : (centre) TL0296006670

Easting/Northing : (centre) 502960,206670

Issued : 01/06/2012 10:49:59

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA