# **APPENDIX B – BGS BOREHOLE SCAN SP52SE174**

At Bicester R.A.F. Station -2 Rapith is 5910 Town or Village Bicester Oxon Six-inch quarter sheet County..... Exact site E. side of Roman Way, 1650 yes NE. of the railway SP 59 10 2446 in parish of Level of ground surface above sea-level (O.D.) c240 ft. If well starts below ground surface, state how Bittisft", diameter ft. Bore 140 ft. Biameter of bore: at top 15 ins.; at bottom Shaft\_\_\_\_ Details of permanent lining tubes (internal diameters preferred) <u>30' x 15 m., from surface</u>; 12m bottom, part perforated. (101'-120) see over page Water struck at depths of (feet). Rest-level of water  $\frac{\text{below}}{\text{above}}$  top of well 3-12 feet. hours' ...feet. Yield o test Suction at\_\_\_\_\_ days' 4000 gallons per (with pump of capacity\_\_\_\_\_g.p.h.); depressing water level to\_\_\_\_ 110 feet Amount normally pumped daily......British Geological Survey .....hours. Time of recovery..... below top. Quality (attach copy of analysis if available). Sunk by Richardson - Timming, La. for Mr ... 1939 .....Date of well.... Information from T. Richardson Ut DEPTH THICKNESS (For Survey use only). GEOLOGICAL CLASSIFICATION. NATURE OF STRATA (and any additional remarks). Feet. Feet. Inches Inches. 6 6 1 Jon sore 6 5 H Brash 6 8 3 Combrash . Aard brash 2 6 6 he blue rocks 9 fE alt lilve clay 6 д ٠ Ð 6 sh Jorgof Surve 14 2 cal•Surve Blue rock and layers of clay ŝ 14 Marble Very hard grey rock 3 31 6 10/2 /1. 4sey clay 26 5 limestone Rock Yie hard 6 24 6 1 tohele sandy clay 6 35 7 light limestone rock fimestone 6 6 59 21 383 Gree rock 61 6 . 1 cla 63 2 . Hampen grey rock 6 64 Marly Bets 1 6 It blue rock 2 6 64 LIZ K they rock 81 . 14 Layers 86 Jayaton 5 8 94 - day Stone with 7 101 20 64 Grey rock . H . 105 sandston 6 6 106 1 Sark brown 6 110 H 6 114 н Swerford and Aaro Survey 6 101 Look Norton Beds grey rocke 232 121 6 6 6 124 6 3 6 5 129 clas 2 132 Gurve dark grey rock Upper Jus 8 140 chair 12 town in May 1940, 3 ft. down in Aug. 1939 R.W.L. AWW.

### **APPENDIX C – THAMES WATER SEWER RECORDS**

# Asset location search



Andrew Collins Ridge & Partners LLP The Cowyards The Cowyards, Blenheim Road Oxford Road WOODSTOCK OX20 1QR

| Search address supplied | 459787 223840<br>Land Adjacent To Oxford Vitality<br>Unit 4<br>Longlands Road<br>Launton<br>Bicester<br>OX26 5AH |
|-------------------------|--|
|                         |  |

Your reference

5012836

Our reference

ALS/ALS Standard/2020\_4232200

Search date

14 August 2020

### Knowledge of features below the surface is essential for every development

The benefits of this knowledge not only include ensuring due diligence and avoiding risk, but also being able to ascertain the feasibility of any development.

Did you know that Thames Water Property Searches can also provide a variety of utility searches including a more comprehensive view of utility providers' assets (across up to 35-45 different providers), as well as more focused searches relating to specific major utility companies such as National Grid (gas and electric).

Contact us to find out more.



Thames Water Utilities Ltd Property Searches, PO Box 3189, Slough SL1 4WW DX 151280 Slough 13



searches@thameswater.co.uk www.thameswater-propertysearches.co.uk



0845 070 9148



**Search address supplied:** 459787 223840, Land Adjacent To Oxford Vitality, Unit 4, Longlands Road, Launton, Bicester, OX26 5AH

Dear Sir / Madam

An Asset Location Search is recommended when undertaking a site development. It is essential to obtain information on the size and location of clean water and sewerage assets to safeguard against expensive damage and allow cost-effective service design.

The following records were searched in compiling this report: - the map of public sewers & the map of waterworks. Thames Water Utilities Ltd (TWUL) holds all of these.

This searchprovides maps showing the position, size of Thames Water assets close to the proposed development and also manhole cover and invert levels, where available.

Please note that none of the charges made for this report relate to the provision of Ordnance Survey mapping information. The replies contained in this letter are given following inspection of the public service records available to this company. No responsibility can be accepted for any error or omission in the replies.

You should be aware that the information contained on these plans is current only on the day that the plans are issued. The plans should only be used for the duration of the work that is being carried out at the present time. Under no circumstances should this data be copied or transmitted to parties other than those for whom the current work is being carried out.

Thames Water do update these service plans on a regular basis and failure to observe the above conditions could lead to damage arising to new or diverted services at a later date.

### **Contact Us**

If you have any further queries regarding this enquiry please feel free to contact a member of the team on 0845 070 9148, or use the address below:

Thames Water Utilities Ltd Property Searches PO Box 3189 Slough SL1 4WW

Email: <u>searches@thameswater.co.uk</u> Web: <u>www.thameswater-propertysearches.co.uk</u>



### Waste Water Services

Please provide a copy extract from the public sewer map.

The following quartiles have been printed as they fall within Thames' sewerage area:

SP5924SW SP5923NW SP5923NE

Enclosed is a map showing the approximate lines of our sewers. Our plans do not show sewer connections from individual properties or any sewers not owned by Thames Water unless specifically annotated otherwise. Records such as "private" pipework are in some cases available from the Building Control Department of the relevant Local Authority.

Where the Local Authority does not hold such plans it might be advisable to consult the property deeds for the site or contact neighbouring landowners.

This report relates only to sewerage apparatus of Thames Water Utilities Ltd, it does not disclose details of cables and or communications equipment that may be running through or around such apparatus.

The sewer level information contained in this response represents all of the level data available in our existing records. Should you require any further Information, please refer to the relevant section within the 'Further Contacts' page found later in this document.

The following quartiles have not been printed as they contain no assets:

SP6023NW SP5924SE

For your guidance:

- The Company is not generally responsible for rivers, watercourses, ponds, culverts or highway drains. If any of these are shown on the copy extract they are shown for information only.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended these details be checked with the developer.

### Clean Water Services

### Please provide a copy extract from the public water main map.



The following quartiles have been printed as they fall within Thames' water area:

SP6023NW SP5924SW SP5923NW SP5923NE

Enclosed is a map showing the approximate positions of our water mains and associated apparatus. Please note that records are not kept of the positions of individual domestic supplies.

For your information, there will be a pressure of at least 10m head at the outside stop valve. If you would like to know the static pressure, please contact our Customer Centre on 0800 316 9800. The Customer Centre can also arrange for a full flow and pressure test to be carried out for a fee.

The following quartiles have not been printed as they contain no assets:

### SP5924SE

For your guidance:

- Assets other than vested water mains may be shown on the plan, for information only.
- If an extract of the public water main record is enclosed, this will show known public water mains in the vicinity of the property. It should be possible to estimate the likely length and route of any private water supply pipe connecting the property to the public water network.

### Payment for this Search

Thank you for your payment covering the cost of this enquiry. We have enclosed a VAT Receipt for your records.



### **Further contacts:**

### Waste Water queries

Should you require verification of the invert levels of public sewers, by site measurement, you will need to approach the relevant Thames Water Area Network Office for permission to lift the appropriate covers. This permission will usually involve you completing a TWOSA form. For further information please contact our Customer Centre on Tel: 0845 920 0800. Alternatively, a survey can be arranged, for a fee, through our Customer Centre on the above number.

If you have any questions regarding sewer connections, budget estimates, diversions, building over issues or any other questions regarding operational issues please direct them to our service desk. Which can be contacted by writing to:

Developer Services (Waste Water) Thames Water Clearwater Court Vastern Road Reading RG1 8DB

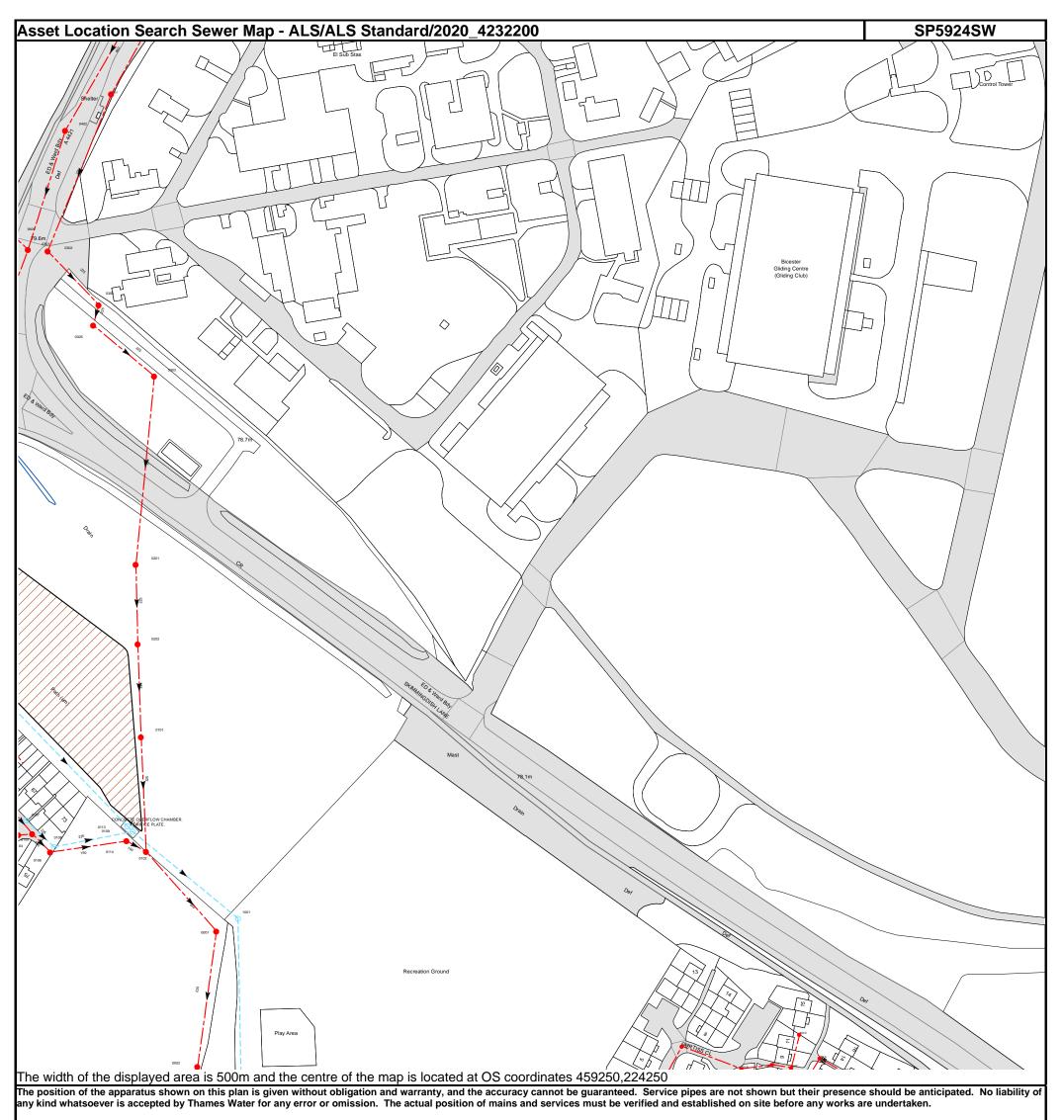
Tel: 0800 009 3921 Email: developer.services@thameswater.co.uk

### Clean Water queries

Should you require any advice concerning clean water operational issues or clean water connections, please contact:

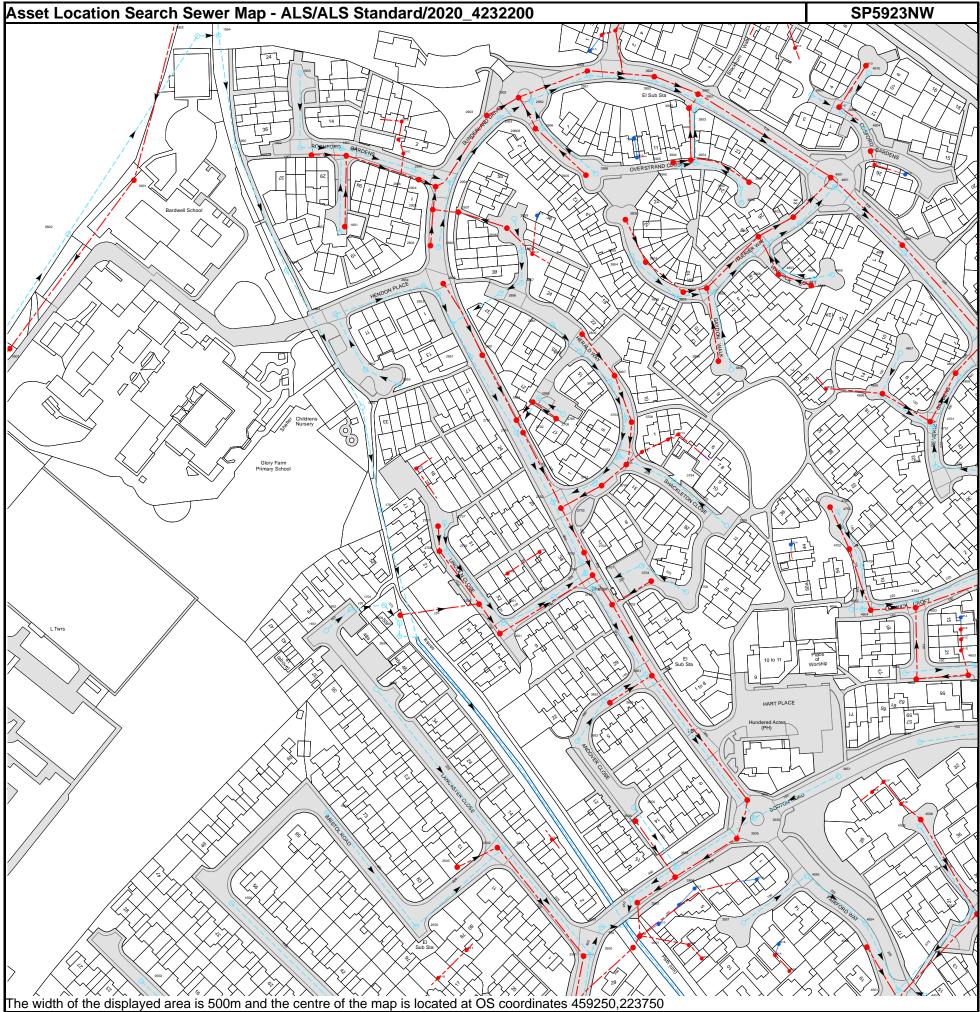
Developer Services (Clean Water) Thames Water Clearwater Court Vastern Road Reading RG1 8DB

Tel: 0800 009 3921 Email: developer.services@thameswater.co.uk



Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved

| Manhole Reference  | Manhole Cover Level | Manhole Invert Level |  |  |
|--|---------------------|----------------------|--|--|
| 301B   | n/a                 | n/a                  |  |  |
| 301H   | n/a                 | n/a                  |  |  |
| 301C   | n/a                 | n/a                  |  |  |
| 301D   | n/a                 | n/a                  |  |  |
| 301A   | n/a                 | n/a                  |  |  |
| 301G   | n/a                 | n/a                  |  |  |
| 0106   | n/a                 | n/a                  |  |  |
| 0102   | 77.87               | 76.65                |  |  |
| 0108   | n/a                 | n/a                  |  |  |
| 0114   | n/a                 | n/a                  |  |  |
| 0104   | n/a                 | n/a                  |  |  |
| 0105   | n/a                 | n/a                  |  |  |
| 0109   | n/a                 | n/a                  |  |  |
| 0113   | n/a                 | n/a                  |  |  |
| 0107   | n/a                 | n/a                  |  |  |
| 0101   | n/a                 | n/a                  |  |  |
| 0202   | n/a                 | n/a                  |  |  |
| 0201   | n/a                 | n/a                  |  |  |
| 0002   | n/a                 | n/a                  |  |  |
| 0001   | 77.72               | 76.44                |  |  |
| 1001   | n/a                 | n/a                  |  |  |
| 0303   | n/a                 | n/a                  |  |  |
| 0305   | n/a                 | n/a                  |  |  |
| 0304   | 79.42               | 78.28                |  |  |
| 0302   | 79.52               | 78.48                |  |  |
| 0301   | 79.67               | 78.03                |  |  |
| 0402   | 80.37               | 78.27                |  |  |
| 0401   | 80.61               | 79.04                |  |  |
| The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken. |                     |                      |  |  |



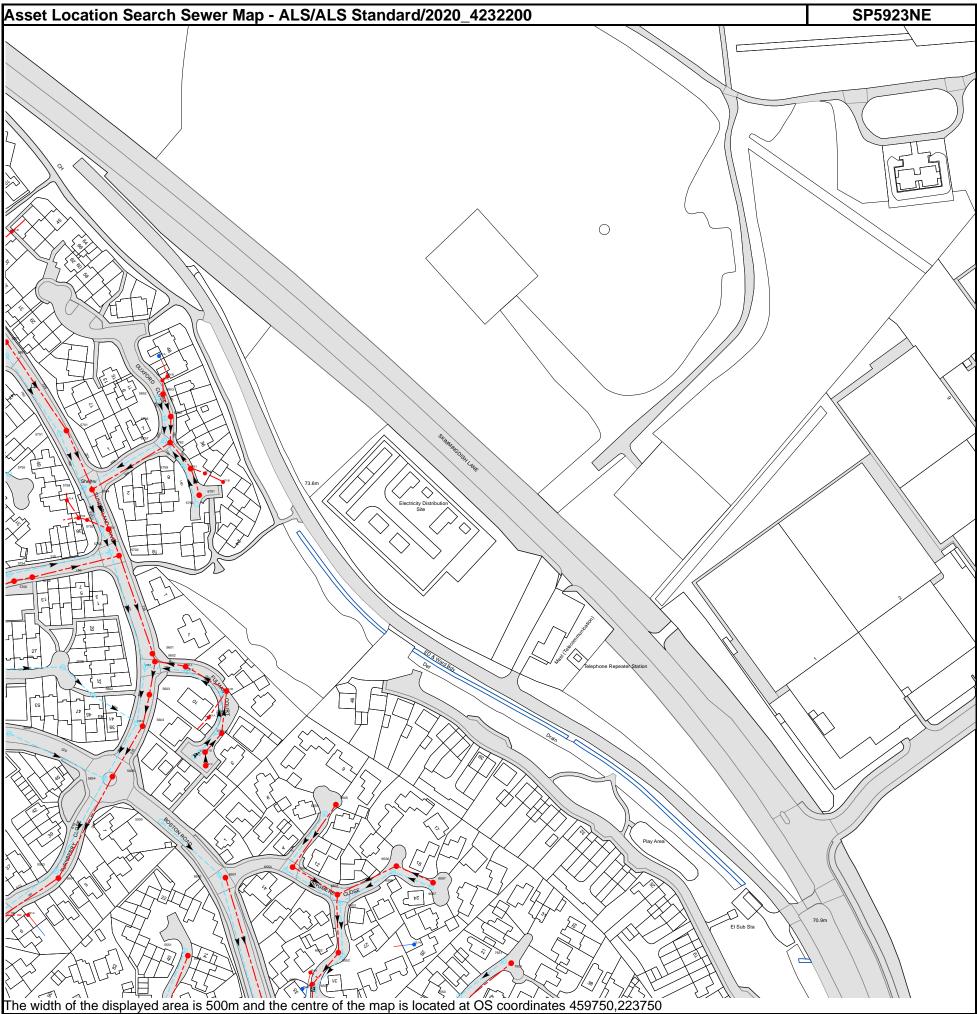
The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.

| 46537.4077.524610NaNa4611NaNa4614NaNa46147.3097.7346047.3127.13746057.3277.3346057.3277.3346057.3277.3346057.3277.3346057.3287.3346057.3287.3346057.3287.3347537.407.3347547.357.403755NaNa47617.357.7447637.357.2247917.357.2347917.357.3147917.357.3147917.347.314895NaNa4895NaNa4895NaNa48977.344897NaNa4898NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897NaNa4897Na <th>Manhole Reference</th> <th>Manhole Cover Level</th> <th>Manhole Invert Level</th>  | Manhole Reference | Manhole Cover Level | Manhole Invert Level |
|--|-------------------|---------------------|----------------------|
| 4110nhnhnh4610nhNA4611nhNA461270NA461473.807.70465673.807.71465773.877.82400073.807.20400173.977.86400273.977.26479273.977.2647937.327.2147937.327.2347937.327.2447937.357.2447937.357.2447937.357.2447947.357.2447957.357.3147957.357.3147947.357.3148951.461.4748961.461.4748971.461.4748981.477.3148971.477.3148981.471.4748991.471.4748991.471.4748911.471.4748921.471.4748931.471.4748941.471.4748951.471.4748951.471.4748941.471.4748951.471.4748951.471.4748941.471.4748951.471.4748951.471.4748961.471.474897 <td< td=""><td></td><td>74.07</td><td>72.52</td></td<>   |                   | 74.07               | 72.52                |
| 461Gnhanhanha461Hanhanha461Hanhanha461Hanhanha461Hanhanha461Ha1.3827.271465C1.3227.231465C7.3027.231465C7.3297.231475A7.3277.231475A7.3277.231475A7.3277.231475A7.3277.231475A7.3277.231475A7.3277.234475A7.3287.234475A7.3287.234475A7.3387.234475A7.3487.234475A7.3487.234475A7.3487.349485Anhanha485Bnha1.434485Bnha1.434485Bnha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha1.434485Anha  |                   |                     |                      |
| 4613nånånå4644nåNa464473.7777.77460573.5772.77460773.5772.77460773.5271.97460773.5271.97460773.0272.38473473.0272.38473473.0970.67755100.1785774.673.6473773.6872.61473873.5872.61473973.5872.61474973.5873.58476173.5873.58486574.6473.58486674.6473.58486774.6473.114868nå80.644869<  |                   |                     |                      |
| 4614NaNaNa464473.897.279465573.877.197465673.827.19747577.3237.23547587.3407.23547517.3407.23647527.3477.23647547.3577.23647547.3677.23647547.377.23647551.407.23747617.3677.23747717.3677.23747827.4617.36847857.4617.36848667.3647.36848677.3667.36848687.4647.36848687.4647.36848697.4647.36848697.4647.36848697.3647.31148617.3687.31148627.3687.31148637.4747.31148647.3647.31148647.3687.31148647.3687.31148657.3687.31148677.3647.31148687.3677.31148697.3687.31148697.3427.31148617.3427.31148627.3687.31648637.3687.31648647.3687.31648657.3727.31648677.3687.31648687.368  |                   |                     |                      |
| 4004.73.8872.79455073.5872.77455173.5372.77455373.5372.77475473.6372.93475473.8772.93475473.8772.93475473.8772.93475473.8772.33475574.40273.23475673.5572.4475773.872.3475873.5572.3475973.673.57476173.5872.3478373.673.58478473.5873.16485874.673.57485874.673.51485974.673.51485974.673.31485974.673.31485974.773.31485974.773.31485974.773.31485974.773.31485974.773.31485974.773.31485974.773.31485974.773.31485974.773.31485974.774.7485174.773.31485274.774.7485374.774.7485474.773.31485574.774.7485474.774.7485574.774.7485774.774.7485874.774.7485974.7  |                   |                     |                      |
| 465673.7271.92460373.827.7.01460373.827.5.6460373.8272.66472473.8372.664734NaNa4735Na72.34473673.8372.34473774.0273.34475874.0272.34476973.5572.34476173.8472.24476173.8472.34476173.8472.31476173.4473.184818Na72.324819Na73.344819Na73.344819Na73.344819NaNa4851NaNa4851NaNa   |                   |                     |                      |
| 46557.3 Sef7.2 % %47337.3 Sef7.3 %47347.3 %7.2 %47357.4 %7.3 %47367.4 %7.3 %47377.4 %7.3 %47387.4 %7.3 %47397.4 %7.3 %47317.3 %7.2 %47347.3 %7.3 %47357.4 %7.3 %47367.3 %7.3 %47377.3 %7.3 %47387.4 %7.3 %47397.3 %7.3 %47317.3 %7.3 %47317.3 %7.3 %47357.4 %7.3 %48557.4 %7.3 %48647.3 %7.3 %485510 %10 %485710 %10 %485810 %10 %485910 %10 %485110 %10 %485210 %10 %485310 %10 %485410 %10 %485510 %10 %485510 %10 %485110 %10 %485210 %10 %485310 %10 %485410 %10 %485510 %10 %485510 %10 %485610 %10 %396710 %10 %396810 %10 %396910 %10 %396910 %10 %396910   |                   |                     |                      |
| 460373.3271.47475374.0572.35475473.3772.33475474.0673.3737557473.32470374.0271.37470374.0272.34470373.5574470373.5572.34470373.5672.34470473.5672.34470574.6273.35470673.5674.57480574.6473.36480574.6473.36480574.6473.31480574.6473.31480573.4473.31480574.6773.67480574.6773.67480574.6774.77480574.7774.77 <td></td> <td></td> <td></td>   |                   |                     |                      |
| 475374.0572.35470373.8772.83470473.8772.86470560.060.0473574.073.23470574.073.23470674.073.23470773.6572.34475673.4572.34475773.4572.34485674.6473.16485774.8473.38485874.6773.38485874.6773.31485874.6773.31485874.6773.31485974.6773.31485074.6773.31485170.070.0485270.070.0485370.070.0485470.070.0485570.070.0485670.070.0485770.070.0485870.070.0485970.070.0485070.070.07170.070.0485170.070.07170.070.07270.0 </td <td></td> <td></td> <td></td>   |                   |                     |                      |
| 47547.3.977.2.3347027.3.877.2.66471.4NaNa47037.3.697.3.2.3147037.4.0.27.3.2.3147037.3.5.57.2.3.447567.3.5.77.2.3.147577.3.87.2.3.147687.3.4.47.3.5.847697.3.4.47.3.5.84869NaNa4818NaNa48247.3.4.47.3.5.84835NaNa4836NaNa48377.3.3.14838NaNa4844NaNa4839NaNa4845NaNa4846NaNa4846NaNa4857NaNa4858NaNa4859NaNa4859NaNa4850NaNa4851NaNa4852NaNa4853NaNa4854NaNa4855NaNa4857NaNa4858NaNa4859NaNa4859NaNa4859NaNa4859NaNa4859NaNa4859NaNa4859NaNa4859NaNa4859NaNa4859NaNa4859  |                   |                     |                      |
| 470273.8972.663735NANA3735NANA373674.0273.77475673.5572.24475773.8672.24475874.5473.16480574.5473.16480574.5473.164805NA73.864805NA73.874805NA74.544805NANA <td< td=""><td></td><td></td><td></td></td<>   |                   |                     |                      |
| 471Anana3756nana47537473.23475473.2473.23475473.2473.24475173.672.24475173.672.24456674.673.16475173.673.59465674.673.594781nana4848nana4849nana4841nana4841nana4842nana4843nana4844nana4855nana4856nana4857nana4858nana4859nana4850nana4851nana4851nana4851nana4851nana3865nana3877nana4850nana4851nana3805nana3805nana3805nana3806nana3807nana3808nana3809nana3801nana3802nana3803nana3804nana3805nana3806nana3807<  |                   |                     |                      |
| 3755na<br>rana<br>rana<br>ra47657473.23470374.3572.41470373.3672.41470473.3672.41470574.5473.16480574.5473.314806na<br>ra74.64480774.6473.224808na<br>ra74.644808na<br>ra74.644809na<br>ra74.673806na<br>ra74.67380774.6773.314808na<br>rana<br>ra4809na<br>rana<br>ra4801na<br>rana<br>ra4802na<br>rana<br>ra4803na<br>rana<br>ra4804na<br>rana<br>ra4805na<br>rana<br>ra4806na<br>rana<br>ra4807na<br>rana<br>ra4808na<br>rana<br>ra4809na<br>rana<br>ra4801na<br>rana<br>ra4802na<br>rana<br>ra4803na<br>rana<br>ra4804na<br>rana<br>ra4805na<br>rana<br>ra4806na<br>rana<br>ra4807na<br>rana<br>ra4808na<br>rana<br>ra4809na<br>rana<br>ra4801na<br>rana<br>ra4802na<br>rana<br>ra4803 <t< td=""><td></td><td></td><td></td></t<>  |                   |                     |                      |
| 470874.0271.7475675.5572.34475173.8672.4475173.8672.4475173.8672.4476173.8672.61480474.6473.58480474.6473.58481376.673.37485470.672.32385670.672.32385670.673.31386774.6773.31485370.673.31386870.673.31387670.673.31388870.670.6485370.670.6485470.670.6485570.670.6485670.670.6485770.670.6485870.670.6485970.670.6485070.670.6485170.670.6485270.670.6485170.670.6393570.670.6393670.670.6393770.670.6393870.670.6393970.670.6393970.670.6393970.670.6393970.670.6393970.670.6394170.670.6395570.670.6395570.670.6395670.670.6395770.670.6<   | 3755              | n/a                 | n/a                  |
| 475673.5572.34475173.8072.24470173.8672.61480473.5673.16480574.6473.58480774.6173.584808NaNa480473.8472.323805NaNa480473.8473.313805NaNa4804NaNa4805NaNa4806NaNa480774.6773.314808NaNa4809NaNa4809NaNa4801NaNa4802NaNa4803NaNa4804NaNa4805NaNa4806NaNa4807NaNa4808NaNa4809NaNa4801NaNa4802NaNa4803NaNa4804NaNa4805NaNa4806NaNa4807NaNa4808NaNa4809NaNa4809NaNa4801NaNa4802NaNa4803NaNa4804NaNa4805NaNa4806NaNa4807NaNa4808NaNa <tr< td=""><td>4755</td><td>74</td><td>73.23</td></tr<>   | 4755              | 74                  | 73.23                |
| 475173.872.2476173.8672.61485674.5473.16485774.5473.58481873.4673.58481973.4473.27385670.874.32385670.874.32485774.6773.31485874.6773.31485774.6773.31485874.6773.31485974.6773.31485074.6773.31485174.6773.31485274.6773.31485374.6773.31485474.6773.31485274.6773.31485374.6773.31485174.6773.31485274.6774.37385174.6774.37385174.6774.37385274.6774.37385374.6774.37385474.6774.37385574.6774.37385474.6774.37385574.6774.37385174.6774.39385174.6774.39385174.6774.39385174.7773.41385174.7774.39385174.7774.39385174.7774.39385174.7774.39385174.7774.39385174.7774.39385174.7774.39 </td <td>4703</td> <td>74.02</td> <td>71.7</td>   | 4703              | 74.02               | 71.7                 |
| 470173.8672.61485675.4473.16486074.6473.58480374.6473.58480474.6473.27480378.4473.27380674.6473.31380674.6773.31480374.6773.31480474.6773.31480574.6773.31480574.6773.31480376.674.67380676.674.67380776.674.67380876.674.67380976.674.67380176.674.67380576.674.67380576.674.67380576.674.67380576.674.67380576.674.67380576.674.67380576.674.67380576.674.67380576.674.67380576.674.67380576.674.77380576.774.97380576.774.97380574.7772.99381674.7773.34381774.7773.34381876.674.77381974.7773.34381074.7773.34381176.7474.77381274.7773.34381476.7474.77381576.7474.77 <td< td=""><td>4756</td><td>73.55</td><td>72.34</td></td<>  | 4756              | 73.55               | 72.34                |
| 466674.5473.16480574.5473.854818n/an/a4834n/a73.244834n/a73.244834n/an/a4835n/an/a483774.6773.314858n/an/a4859n/an/a4851n/an/a4853n/an/a4854n/an/a4855n/an/a4853n/an/a4853n/an/a4854n/an/a4853n/an/a4853n/an/a4854n/an/a4855n/an/a4851n/an/a3861n/an/a4852n/an/a4853n/an/a3851n/an/a3851n/an/a3852n/an/a3853n/an/a3854n/an/a3855n/an/a3856n/an/a3857n/an/a3858n/an/a3859n/an/a3851n/an/a3852n/an/a3853n/an/a3854n/an/a3855n/an/a3856n/an/a3857n/an/a3858n/an/a3859n/an/a <td>4751</td> <td>73.8</td> <td>72.2</td>   | 4751              | 73.8                | 72.2                 |
| 460574.673.584818n/an/a4854n/an/a480473.8423.233838n/an/a3838n/an/a3839n/an/a4803n/an/a4804n/an/a4805n/an/a4807n/an/a4808n/an/a4809n/an/a4809n/an/a4801n/an/a4802n/an/a4803n/an/a4804n/an/a4805n/an/a4806n/an/a4807n/an/a4808n/an/a4809n/an/a4801n/an/a4802n/an/a4803n/an/a4804n/an/a4805n/an/a4806n/an/a4807n/an/a4808n/an/a4809n/an/a4809n/an/a4801n/an/a4802n/an/a4803n/an/a4804n/an/a4805n/an/a4806n/an/a4807n/an/a4808n/an/a4809n/an/a4809n/an/a4801n/an/a <td< td=""><td>4701</td><td>73.86</td><td>72.61</td></td<>   | 4701              | 73.86               | 72.61                |
| 4818n/an/a4835n/a7.3.4448047.3.447.3.224804n/an/a3806n/an/a3806n/an/a4807n/an/a4808n/an/a4809n/an/a4803n/an/a4804n/an/a4805n/an/a4806n/an/a4807n/an/a4808n/an/a4809n/an/a4801n/an/a3851n/an/a3851n/an/a3851n/an/a3851n/an/a3851n/an/a3852n/an/a3853n/an/a3954n/an/a3955n/an/a3955n/an/a3954n/an/a3955n/an/a3954n/an/a3955n/an/a3954n/an/a3955n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a<   | 4856              | 74.54               | 73.16                |
| 4858n/an/a38647.2.3.23856n/an/a3856n/an/a3856n/an/a485774.6773.314853n/an/a4853n/an/a4854n/an/a4855n/an/a4850n/an/a4851n/an/a4852n/an/a4860n/an/a4871n/an/a3871n/an/a3851n/an/a3851n/an/a3852n/an/a3853n/an/a3854n/an/a3855n/an/a3856n/an/a3857n/an/a3858n/an/a3859n/an/a3851n/an/a3853n/an/a3854n/an/a3855n/an/a3851n/an/a3851n/an/a3851n/an/a3851n/an/a3851n/an/a3851n/an/a3851n/an/a3851n/an/a3953n/an/a3954n/an/a3955n/an/a3956n/an/a3957n/an/a3958n/an/a3959  | 4805              | 74.6                | 73.58                |
| 400473,8473,233856n/an/a3866n/an/a3806n/an/a3807n/an/a4803n/an/a3844n/an/a3845n/an/a4853n/an/a4853n/an/a4854n/an/a4853n/an/a4853n/an/a3854n/an/a3851n/an/a3851n/an/a3851n/an/a3852n/an/a3853n/an/a3955n/an/a3964n/an/a3975n/an/a3985n/an/a3975n/an/a3985n/an/a3976n/an/a3977n/an/a3984n/an/a3995n/an/a3995n/an/a3996n/an/a3997n/an/a3998n/an/a3999n/an/a3991n/an/a3992n/an/a3993n/an/a3994n/an/a3994n/an/a3995n/an/a3996n/an/a3997n/an/a3998n/an/a3999n/an/a39   | 481B              | n/a                 | n/a                  |
| 3866n/an/a3806n/aNa485774.6773.314853n/an/a4854n/an/a4855n/an/a4856n/an/a4857n/an/a4858n/an/a4859n/an/a4851n/an/a4852n/an/a4851n/an/a4852n/an/a3861n/an/a3871n/an/a4852n/an/a4852n/an/a3858n/an/a3858n/an/a3859n/an/a3860n/an/a3871n/an/a3882n/an/a3893n/an/a3894n/an/a3953n/an/a3954n/an/a3954n/an/a3955n/an/a3951n/an/a3951n/an/a3952n/an/a3953n/an/a3954n/an/a3955n/an/a3956n/an/a3957n/an/a3958n/an/a3959n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a39  | 4858              | n/a                 | n/a                  |
| 3866n/an/a3806n/aNa485774.6773.314853n/an/a4854n/an/a4855n/an/a4856n/an/a4857n/an/a4858n/an/a4859n/an/a4851n/an/a4852n/an/a4851n/an/a4852n/an/a3861n/an/a3871n/an/a4852n/an/a4852n/an/a3858n/an/a3858n/an/a3859n/an/a3860n/an/a3871n/an/a3882n/an/a3893n/an/a3894n/an/a3953n/an/a3954n/an/a3954n/an/a3955n/an/a3951n/an/a3951n/an/a3952n/an/a3953n/an/a3954n/an/a3955n/an/a3956n/an/a3957n/an/a3958n/an/a3959n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a39  |                   |                     |                      |
| 3806n/an/a48577.3.44854n/a4824n/a3808n/a3808n/a4854n/a3808n/a4854n/a4854n/a4855n/a4860n/a4861n/a4862n/a4863n/a4864n/a4865n/a4865n/a4867n/a4868n/a4869n/a4869n/a4861n/a4862n/a4862n/a4862n/a4863n/a4864n/a4865n/a4865n/a4865n/a4867n/a4868n/a4869n/a4869n/a4861n/a4862n/a4862n/a4863n/a4864n/a4865n/a4865n/a4865n/a4866n/a4867n/a4867n/a3968n/a3969n/a3971n/a3974n/a4971n/a4971n/a4972n/a3974n/a4974n/a4975n/a4976n/a4976n/a4976n/a4976<  |                   |                     |                      |
| 485774,6773,314803NaNa4804NaNa4854NaNa4855NaNa4856NaNa4857NaNa4860NaNa4861NaNa4861NaNa4862NaNa4863NaNa4854NaNa4855NaNa4860NaNa4871NaNa4882NaNa4882NaNa4883NaNa4884NaNa4885NaNa4885NaNa4887NaNa3986NaNa3986NaNa3987NaNa3986NaNa3987NaNa3984NaNa3985NaNa3984NaNa3984NaNa3985NaNa3984NaNa3984NaNa3985NaNa3986NaNa3987NaNa3988NaNa3991NaNa3911NaNa3912NaNa3914NaNa3915NaNa3916NaNa3917NaNa <td< td=""><td></td><td></td><td></td></td<>  |                   |                     |                      |
| 4803NaNaNa4854NaNaNa3808NaNaNa4855NaNaNa4851NaNaNa4860NaNaNa4861NaNaNa4861NaNaNa4861NaNaNa4861NaNaNa4861NaNaNa3802NaNaNa3804NaNaNa3957NaNaNa3958NaNaNa3957NaNaNa3956NaNaNa3957NaNaNa3958NaNaNa3959NaNaNa3951NaNaNa3953NaNaNa3954NaNaNa3955NaNaNa3951NaNaNa3951NaNaNa3951NaNaNa3951NaNaNa4991NaNaNa4991NaNaNa4991NaNaNa4991NaNaNa4992NaNaNa4991NaNaNa4992NaNaNa4993NaNaNa4994NaNaNa <tr< td=""><td></td><td></td><td></td></tr<>  |                   |                     |                      |
| 4854n/an/a4855n/an/a4853n/an/a4853n/an/a4860n/an/a4861n/an/a3851n/an/a3851n/an/a3852n/an/a3853n/an/a3854n/an/a3855n/an/a3966n/an/a3976n/an/a3987n/an/a3996n/an/a3996n/an/a3997n/an/a3996n/an/a3996n/an/a3997n/an/a3998n/an/a3994n/an/a3994n/an/a3995n/an/a3994n/an/a3994n/an/a3995n/an/a3994n/an/a3994n/an/a3994n/an/a3995n/an/a3996n/an/a3997n/an/a3998n/an/a3999n/an/a3999n/an/a3991n/an/a3994n/an/a3995n/an/a3996n/an/a3997n/an/a3998n/an/a3999n/an/a3999 </td <td></td> <td></td> <td></td>  |                   |                     |                      |
| 3808NaNaNa4855NaNaNa4851NaNaNa4860NaNaNa4801NaNaNa4801NaNaNa3801NaNaNa3802NaNaNa4802NaNaNa4802NaNaNa3958NaNaNa3959NaNaNa3950NaNaNa3951NaNaNa3962NaNaNa3963NaNaNa3964NaNaNa3955NaNaNa3964NaNaNa3954NaNaNa3951NaNaNa3951NaNaNa3951NaNaNa3951NaNaNa3951NaNaNa3951NaNaNa4905NaNaNa4905NaNaNa4916NaNaNa4917NaNaNa4918NaNaNa4919NaNaNa4914NaNaNa4915NaNaNa4916NaNaNa4917NaNaNa4918NaNaNa <tr< td=""><td></td><td></td><td></td></tr<>  |                   |                     |                      |
| 4853n/an/a4860n/an/a4860n/an/a4861n/an/a3851n/an/a3851n/an/a4852n/an/a4852n/an/a3958n/an/a3957n/an/a3958n/an/a3957n/an/a3957n/an/a3957n/an/a3957n/an/a3957n/an/a3953n/an/a3954n/an/a3955n/an/a3953n/an/a3954n/an/a3953n/an/a3954n/an/a3951 </td <td></td> <td></td> <td></td>  |                   |                     |                      |
| 4853n/an/a4860n/an/a4860n/an/a4801n/an/a4801n/an/a3801n/an/a3801n/an/a4802n/an/a4802n/an/a3958n/an/a3957n/an/a3958n/an/a3959n/an/a3950n/an/a3951n/an/a3961n/an/a3972n/an/a3983n/an/a3994n/an/a3995n/an/a3995n/an/a3996n/an/a3997n/an/a39984n/an/a39911n/an/a39912n/an/a39914n/an/a39915n/an/a39916n/an/a39917n/an/a39918n/an/a39919n/an/a39919n/an/a39919n/an/a39919n/an/a39919n/an/a39919n/an/a39919n/an/a39919n/an/a39919n/an/a39919n/an/a39919n/an/a39919n/an/a39919n/an/a <td>4855</td> <td></td> <td></td>  | 4855              |                     |                      |
| 4660n'an'a4801n'an'a3851n'an'a3851n'an'a4852n'an'a4852n'an'a3958n'an'a3958n'an'a3957n'an'a3958n'an'a3957n'an'a3957n'an'a3905n'an'a3905n'an'a3905n'an'a3905n'an'a3936n'an'a3937n'an'a3938n'an'a3939n'an'a3944n'an'a3955n'an'a3951 </td <td>4853</td> <td>n/a</td> <td>n/a</td>  | 4853              | n/a                 | n/a                  |
| 4801NaNa3851NaNa3801NaNa3801NaNa3802NaNa4802NaNa3958NaNa3957NaNa3958NaNa3959NaNa3950NaNa3906NaNa3905NaNa3905NaNa3905NaNa3905NaNa3903NaNa3904NaNa3915NaNa3953NaNa3954NaNa3951NaNa3951NaNa3911NaNa3915NaNa3916NaNa3917NaNa3918NaNa4901NaNa4901NaNa490274.2772.994904NaNa4910NaNa4911NaNa4912NaNa4913NaNa4914NaNa4915NaNa4916NaNa4917NaNa4918NaNa4919NaNa4910NaNa4911NaNa4912NaNa4913NaNa   | 4860              |                     | n/a                  |
| 3801nana4852NaNa4852NaNa4802NaNa3958NaNa3957NaNa3957NaNa3906NaNa3906NaNa3905NaNa3905NaNa3905NaNa3905NaNa3905NaNa3904NaNa3905NaNa3904NaNa3905NaNa3904NaNa3905NaNa3906NaNa3907NaNa3908NaNa3909NaNa3919NaNa3951NaNa3911NaNa3911NaNa3911NaNa4901NaNa490274.2772.994904NaNa4905NaNa4910NaNa4911NaNa4912NaNa4913NaNa4914NaNa4915NaNa4916NaNa4917NaNa4918NaNa4919NaNa4910NaNa4911NaNa4912NaNa   | 4801              | n/a                 | n/a                  |
| 4852nanana4802naNaNa3958naNaNa3957naNaNa4951naNaNa3906naNaNa3907naNaNa3908naNaNa3909naNaNa3905naNaNa3905naNaNa3905naNaNa3906naNaNa3907naNaNa3908naNaNa3909naNaNa3911naNaNa3911naNaNa3911naNaNa3911naNaNa3911naNaNa3911naNaNa3911naNaNa3911naNaNa3911naNaNa3911naNaNa3911naNaNa3911naNaNa3911naNaNa3912naNaNa3914naNaNa3915naNaNa3916naNaNa3917naNaNa3918naNaNa3919naNaNa3911naNaNa <tr< td=""><td>3851</td><td>n/a</td><td>n/a</td></tr<>  | 3851              | n/a                 | n/a                  |
| 4802n/an/an/a3958n/an/a3958n/an/a3957n/an/a3906n/an/a3906n/an/a3905n/an/a3905n/an/a3933n/an/a3934n/an/a3933n/an/a3934n/an/a3934n/an/a3955n/an/a3954n/an/a3954n/an/a3951n/an/a <t< td=""><td>3801</td><td>n/a</td><td>n/a</td></t<>   | 3801              | n/a                 | n/a                  |
| 4802n/an/an/a3958n/an/a3958n/an/a3957n/an/a3906n/an/a3906n/an/a3905n/an/a3905n/an/a3933n/an/a3934n/an/a3933n/an/a3934n/an/a3934n/an/a3955n/an/a3954n/an/a3954n/an/a3951n/an/a <t< td=""><td>4852</td><td>n/a</td><td>n/a</td></t<>   | 4852              | n/a                 | n/a                  |
| 3957n/an/a3906n/an/a3906n/an/a3907n/an/a3905n/an/a3905n/an/a3903n/an/a3903n/an/a3934n/an/a3955n/an/a3935n/an/a3954n/an/a3954n/an/a3954n/an/a3954n/an/a3954n/an/a3954n/an/a3954n/an/a3954n/an/a3954n/an/a3954n/an/a3954n/an/a3955n/an/a3961n/an/a3976n/an/a3971n/an/a3971n/an/a3972n/an/a3974n/an/a490274.2772.394904n/an/a491074.2773.34491074.2773.344911n/an/a4912n/an/a2703n/an/a2704n/an/a2705n/an/a2704n/an/a2705n/an/a3711n/an/a3754n/an/a3754n/an/a3754n/an/a <t< td=""><td></td><td></td><td></td></t<>  |                   |                     |                      |
| 4851n/an/a3906n/an/a3902n/an/a3905n/an/a3935n/an/a3933n/an/a3944n/an/a3954n/an/a3953n/an/a3954n/an/a3954n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a4905n/an/a4905n/an/a4905n/an/a4910n/an/a4911n/an/a4912n/an/a4913n/an/a2704n/an/a2705n/an/a2705n/an/a2705n/an/a2704n/an/a2705n/an/a3711n/an/a3752n/an/a3752n/an/a3753 </td <td>3958</td> <td>n/a</td> <td>n/a</td>  | 3958              | n/a                 | n/a                  |
| 3906n/an/a3902n/an/a3905n/an/a3935n/an/a39361n/an/a3904n/an/a3904n/an/a3937n/an/a39381n/an/a3941n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a4905n/an/a4905n/an/a4915n/an/a4904n/an/a4916n/an/a4917n/an/a4918n/an/a4919n/an/a4910n/an/a4911n/an/a4912n/an/a4913n/an/a4914n/an/a4915n/an/a2705n/an/a2708n/an/a2708n/an/a2709n/an/a2704n/an/a2705n/an/a2705n/an/a2705n/an/a2705n/an/a2705n/an/a2706n/an/a2707n/an/a2708n/an/a2709n/an/a2709   | 3957              | n/a                 | n/a                  |
| 3902n/an/a3905n/an/a3905n/an/a3903n/an/a3904n/an/a3903n/an/a3904n/an/a3905n/an/a3916n/an/a3917n/an/a3918n/an/a39191n/an/a3911n/an/a3911n/an/a3911n/an/a4911n/an/a490274.2772.994904n/an/a4910n/an/a4911n/an/a4912n/an/a4913n/an/a4914n/an/a4915n/an/a4916n/an/a2708n/an/a2708n/an/a2708n/an/a2708n/an/a2708n/an/a2709n/an/a2705n/an/a2704n/an/a2705n/an/a2705n/an/a3701n/an/a3701n/an/a3702n/an/a3703n/an/a3704n/an/a3705n/an/a3706n/an/a3707n/an/a3708n/an/a3   | 4951              | n/a                 | n/a                  |
| 3905n/an/a3995n/an/a3903n/an/a3903n/an/a3904n/an/a3953n/an/a3954n/an/a3951n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a4905n/an/a4905n/an/a4901n/an/a490274.2772.994904n/an/a4911n/an/a4912n/an/a4913n/an/a4914n/an/a4915n/an/a4916n/an/a4917n/an/a4918n/an/a4919n/an/a4910n/an/a2703n/an/a2704n/an/a2705n/an/a2705n/an/a2704n/an/a2704n/an/a2704n/an/a2705n/an/a2704n/an/a2705n/an/a2704n/an/a2705n/an/a2704n/an/a2705n/an/a27   | 3906              | n/a                 | n/a                  |
| 3955n/an/an/a3903n/an/a3904n/an/a3953n/an/a3954n/an/a3951n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a4915n/an/a4905n/an/a4901n/an/a4912n/an/a4914n/an/a4915n/an/a4916n/an/a4917n/an/a4918n/an/a4919n/an/a4910n/an/a4911n/an/a4912n/an/a4915n/an/a4916n/an/a4917n/an/a4918n/an/a2755n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a3764n/an/a3764n/an/a3764n/an/a3764n/an/a3764n/an/a3764n/an/a3764n/an/a3764n/an/a3764n/an/a3764n/an/a <t< td=""><td>3902</td><td>n/a</td><td>n/a</td></t<>   | 3902              | n/a                 | n/a                  |
| 3903n/an/a3904n/an/a3953n/an/a3954n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a3951n/an/a4905n/an/a4905n/an/a4906n/an/a4910n/an/a4910n/an/a4910n/an/a4910n/an/a4910n/an/a4911n/an/a4912n/an/a2755n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2766n/an/a2765 </td <td>3905</td> <td>n/a</td> <td>n/a</td>  | 3905              | n/a                 | n/a                  |
| 3904n/an/a3953n/an/a3954n/an/a3954n/an/a3951n/an/a3911n/an/a3911n/an/a3911n/an/a4911n/an/a4905n/an/a4906n/an/a4911n/an/a4912n/an/a4914n/an/a4915n/an/a4916n/an/a4917n/an/a4910n/an/a4911n/an/a4912n/an/a4910n/an/a4911n/an/a4912n/an/a4913n/an/a4914n/an/a4915n/an/a4916n/an/a4917n/an/a4918n/an/a4919n/an/a2705n/an/a2706n/an/a2707n/an/a2708n/an/a2709n/an/a2709n/an/a2701n/an/a2702n/an/a2703n/an/a2704n/an/a2705n/an/a2706n/an/a2707n/an/a2708n/an/a2709 </td <td>3955</td> <td>n/a</td> <td>n/a</td>  | 3955              | n/a                 | n/a                  |
| 9953n/an/an/a3954n/an/a3954n/an/a3951n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a4901n/an/a4905n/an/a4911n/an/a4912n/an/a4912n/an/a4914n/an/a4910n/an/a4911n/an/a4912n/an/a4913n/an/a4914n/an/a4915n/an/a4916n/an/a4917n/an/a4918n/an/a5n/an/a4918n/an/a4919n/an/a4910n/an/a4911n/an/a2702n/an/a2703n/an/a2704n/an/a2705n/an/a2704n/an/a2705n/an/a2704n/an/a3704n/an/a3704n/an/a3704n/an/a<  | 3903              |                     | n/a                  |
| 9954n/an/a3901n/an/a3911n/an/a3911n/an/a3911n/an/a3911n/an/a4911n/an/a4905n/an/a4901n/an/a490274.2772.994904n/an/a491074.7373.34491074.7373.344910n/an/a4911n/an/a4912n/an/a4913n/an/a4914n/an/a4915n/an/a4916n/an/a4917n/an/a4918n/an/a4918n/an/a4919n/an/a2705n/an/a2706n/an/a2707n/an/a2708n/an/a2709n/an/a2705n/an/a2705n/an/a2706n/an/a2707n/an/a2708n/an/a3751n/an/a3751n/an/a3751n/an/a3751n/an/a3751n/an/a3752n/an/a3753n/an/a3754n/an/a3755n/an/a3756n/an/a <t< td=""><td></td><td>n/a</td><td>n/a</td></t<>  |                   | n/a                 | n/a                  |
| 9901n/an/an/a3951n/an/a391En/an/a391Fn/an/a391Fn/an/a391Fn/an/a4905n/an/a4905n/an/a4901n/an/a490274.2772.994904n/an/a491Dn/an/a491Dn/an/a491Cn/an/a491Cn/an/a491Cn/an/a491Cn/an/a491Bn/an/a491Cn/an/a2785n/an/a2785n/an/a2785n/an/a2785n/an/a2785n/an/a2785n/an/a2785n/an/a2785n/an/a2785n/an/a2785n/an/a2785n/an/a2785n/an/a2786n/an/a2787n/an/a2788n/an/a2789n/an/a2784n/an/a3791n/an/a3887n/an/a3887n/an/a3784n/an/a3795n/an/a3794n/an/a3795n/an/a3795n/an/a <td>3953</td> <td>n/a</td> <td>n/a</td>  | 3953              | n/a                 | n/a                  |
| 3951n/an/a391En/an/a391Fn/an/a491Fn/an/a4905n/an/a4901n/an/a490274.2772.994904n/an/a491En/an/a490274.2772.994904n/an/a491074.73n/a4911n/an/a4912n/an/a4913n/an/a4914n/an/a4915n/an/a4916n/an/a4917n/an/a4918n/an/a12755n/an/a2765n/an/a2765n/an/a2765n/an/a2753n/an/a2753n/an/a2754n/an/a3751n/an/a3751n/an/a3752n/an/a3764n/an/a3765n/an/a3766n/an/a3767n/an/a3768n/an/a3769n/an/a3761n/an/a3761n/an/a3762n/an/a3763n/an/a3764n/an/a3765n/an/a3766n/an/a3767n/an/a <tr< td=""><td>3954</td><td>n/a</td><td>n/a</td></tr<>   | 3954              | n/a                 | n/a                  |
| 191En/an/a331Fn/an/a331Fn/an/a331Fn/an/a491Fn/an/a4905n/an/a4916n/an/a4917n/an/a4918n/an/a490274.2773.344910n/an/a4911n/an/a4912n/an/a4913n/an/a4914n/an/a4915n/an/a4916n/an/a4917n/an/a2708n/an/a2709n/an/a2701n/an/a2703n/an/a2705n/an/a2705n/an/a2705n/an/a2705n/an/a2705n/an/a2705n/an/a2704n/an/a2705n/an/a2705n/an/a2706n/an/a2707n/an/a2708n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a27   | 3901              | n/a                 | n/a                  |
| 391Fn/an/a491Fn/an/a491Fn/an/a4905n/an/a4901n/an/a490274.2772.994904n/an/a491Dn/an/a491Dn/an/a491074.7373.344910n/an/a4911n/an/a4912n/an/a4913n/an/a4914n/an/a4915n/an/a2705n/an/a2705n/an/a2708n/an/a2708n/an/a2708n/an/a2709n/an/a2708n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2709n/an/a2701n/an/a3702n/an/a3704n/an/a3705n/an/a3706n/an/a3707n/an/a3708n/an/a3709n/an/a3709n/an/a3709n/an/a3709n/an/a <t< td=""><td>3951</td><td>n/a</td><td>n/a</td></t<>  | 3951              | n/a                 | n/a                  |
| 491Fn/an/a4905n/an/a4905n/an/a4901n/an/a491En/an/a490274.2772.994904n/an/a491074.7373.34491074.7373.344911n/an/a4912n/an/a4913n/an/a4914n/an/a4915n/an/a4916n/an/a4917n/an/a2755n/an/a2768n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2766n/an/a2755n/an/a2766n/an/a2757n/an/a2758n/an/a2759n/an/a2754n/an/a2754n/an/a2755n/an/a2756n/an/a2757n/an/a2758n/an/a2759n/an/a2754n/an/a2755n/an/a2756n/an/a2757n/an/a2758n/an/a2759n/an/a2754n/an/a <t< td=""><td>391E</td><td>n/a</td><td>n/a</td></t<>  | 391E              | n/a                 | n/a                  |
| 4905n/an/a4901n/an/a490274.2772.99490274.2772.994904n/an/a4910n/an/a4910n/an/a49110n/an/a4912n/an/a4913n/an/a4914n/an/a4915n/an/a4916n/an/a4917n/an/a4918n/an/a100n/an/a2703n/an/a2704n/an/a2705n/an/a2705n/an/a2705n/an/a2705n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2766n/an/a2754n/an/a2754n/an/a2755n/an/a2756n/an/a2751n/an/a2752n/an/a2753n/an/a2753n/an/a2754n/an/a2755n/an/a2756n/an/a2757n/an/a <t< td=""><td>391F</td><td>n/a</td><td>n/a</td></t<>  | 391F              | n/a                 | n/a                  |
| 4901n/an/a491En/an/a490274.2772.994904n/an/a491Dn/an/a491Dn/an/a491Cn/an/a491Bn/an/a491Cn/an/a491An/an/a2755n/an/a2703n/an/a2705n/an/a2705n/an/a2705n/an/a2705n/an/a2755n/an/a2765n/an/a2756n/an/a2757n/an/a2758n/an/a2759n/an/a2754n/an/a2754n/an/a3756n/an/a3751n/an/a3752n/an/a3752n/an/a3753n/an/a3754n/an/a3755n/an/a3756n/an/a3757n/an/a3758n/an/a3759n/an/a3754n/an/a3755n/an/a3766n/an/a3757n/an/a3758n/an/a3754n/an/a3755n/an/a3754n/an/a3754n/an/a37   | 491F              | n/a                 | n/a                  |
| 491En/an/a490274.2772.994904n/an/a4910n/an/a491074.7373.344911n/an/a4912n/an/a4913n/an/a4914n/an/a4918n/an/a4918n/an/a2755n/an/a2708n/an/a2708n/an/a2708n/an/a2708n/an/a2709n/an/a2701n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2765n/an/a2766n/an/a2754n/an/a3751n/an/a3764n/an/a3752n/an/a3753n/an/a3764n/an/a3765n/an/a3766n/an/a3766n/an/a3766n/an/a3766n/an/a3766n/an/a <t< td=""><td></td><td></td><td>n/a</td></t<>   |                   |                     | n/a                  |
| 490274.2772.994904n/an/a4910n/an/a491074.7373.344910n/an/a4911n/an/a4912n/an/a4913n/an/a4914n/an/a4915n/an/a4916n/an/a4917n/an/a4918n/an/a4918n/an/a2755n/an/a2708n/an/a2765n/an/a2862n/an/a2862n/an/a2753n/an/a2754n/an/a3756n/an/a3751n/an/a3701n/an/a3752n/an/a3753n/an/a3754n/an/a3755n/an/a3756n/an/a3757n/an/a3756n/an/a3757n/an/a3754n/an/a3754n/an/a3754n/an/a   | 4901              | n/a                 | n/a                  |
| 4904n/an/a491Dn/an/a491D74.7373.34491Cn/an/a491Bn/an/a491Bn/an/a2755n/an/a2703n/an/a2704n/an/a2755n/an/a2705n/an/a2708n/an/a2765n/an/a2755n/an/a2765n/an/a2765n/an/a2753n/an/a2754n/an/a2755n/an/a2755n/an/a2765n/an/a2765n/an/a2754n/an/a2755n/an/a2755n/an/a2765n/an/a2754n/an/a2755n/an/a2754n/an/a2755n/an/a2754n/an/a3754n/an/a3755n/an/a3757n/an/a3758n/an/a3759n/an/a3751n/an/a3755n/an/a3757n/an/a3758n/an/a3759n/an/a3754n/an/a3754n/an/a3754n/an/a </td <td></td> <td></td> <td></td>  |                   |                     |                      |
| 4904n/an/a491Dn/an/a491D74.7373.34491Cn/an/a491Bn/an/a491Bn/an/a2755n/an/a2703n/an/a2704n/an/a2755n/an/a2705n/an/a2708n/an/a2765n/an/a2755n/an/a2765n/an/a2765n/an/a2753n/an/a2754n/an/a2755n/an/a2755n/an/a2765n/an/a2765n/an/a2754n/an/a2755n/an/a2755n/an/a2765n/an/a2754n/an/a2755n/an/a2754n/an/a2755n/an/a2754n/an/a3754n/an/a3755n/an/a3757n/an/a3758n/an/a3759n/an/a3751n/an/a3755n/an/a3757n/an/a3758n/an/a3759n/an/a3754n/an/a3754n/an/a3754n/an/a </td <td></td> <td></td> <td></td>  |                   |                     |                      |
| 4910         74.73         73.34           491C         n/a         n/a           491B         n/a         n/a           491A         n/a         n/a           2755         n/a         n/a           2703         n/a         n/a           2765         n/a         n/a           2766         n/a         n/a           2767         n/a         n/a           2704         n/a         n/a           2754         n/a         n/a           3756         n/a         n/a           3701         n/a         n/a           3704         n/a         n/a           3705         n/a         n/a           3706         n/a         n/a           3752         n/a         n/a           3753         n/a </td <td></td> <td>n/a</td> <td></td> |                   | n/a                 |                      |
| 491C       n/a       n/a         491B       n/a       n/a         491B       n/a       n/a         2755       n/a       n/a         2708       n/a       n/a         2708       n/a       n/a         2708       n/a       n/a         2708       n/a       n/a         2709       n/a       n/a         2765       n/a       n/a         2862       n/a       n/a         2753       n/a       n/a         2805       n/a       n/a         2704       n/a       n/a         2754       n/a       n/a         3751       n/a       n/a         3751       n/a       n/a         3701       n/a       n/a         3702       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3705   |                   |                     |                      |
| 491B       n/a       n/a         491A       n/a       n/a         2755       n/a       n/a         2703       n/a       n/a         2703       n/a       n/a         2765       n/a       n/a         2766       n/a       n/a         2755       n/a       n/a         2766       n/a       n/a         2862       n/a       n/a         2753       n/a       n/a         2865       n/a       n/a         2754       n/a       n/a         2755       n/a       n/a         2754       n/a       n/a         3756       n/a       n/a         3751       n/a       n/a         3751       n/a       n/a         3751       n/a       n/a         3857       n/a       n/a         3807       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3754       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3718   |                   |                     |                      |
| 491A         n/a         n/a           2755         n/a         n/a           2708         n/a         n/a           2709         n/a         n/a           2703         n/a         n/a           2765         n/a         n/a           2862         n/a         n/a           2805         n/a         n/a           2805         n/a         n/a           2754         n/a         n/a           3756         n/a         n/a           3756         n/a         n/a           3756         n/a         n/a           3701         n/a         n/a           3702         n/a         n/a           3702         n/a         n/a           3752         n/a         n/a           3753         n/a         n/a           3754         n/a         n/a           3755         n/a         n/a           3756         n/a         n/a           3702         n/a         n/a           3755         n/a         n/a           3756         n/a         n/a           3705         n/a   |                   |                     |                      |
| 2755       n/a       n/a         2708       n/a       n/a         2703       n/a       n/a         2765       n/a       n/a         2862       n/a       n/a         2862       n/a       n/a         2805       n/a       n/a         2754       n/a       n/a         2755       n/a       n/a         2754       n/a       n/a         3756       n/a       n/a         3751       n/a       n/a         3754       n/a       n/a         3704       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3755       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3754       n/a       n/a         3705       n/a       n/a         3718       n/a       n/a         3718       n/a       n/a         3754       n/a       n/a  |                   |                     |                      |
| 2708     n/a     n/a       2703     n/a     n/a       2765     n/a     n/a       2862     n/a     n/a       2753     n/a     n/a       2704     n/a     n/a       2755     n/a     n/a       2704     n/a     n/a       2755     n/a     n/a       2704     n/a     n/a       2755     n/a     n/a       2756     n/a     n/a       3756     n/a     n/a       3751     n/a     n/a       3751     n/a     n/a       3701     n/a     n/a       3751     n/a     n/a       3702     n/a     n/a       3807     n/a     n/a       3752     n/a     n/a       3753     n/a     n/a       3753     n/a     n/a       3705     n/a     n/a       3757     n/a     n/a       371B     n/a     n/a       374     n/a     n/a   |                   |                     |                      |
| 2703       n/a       n/a         2765       n/a       n/a         2862       n/a       n/a         2753       n/a       n/a         2805       n/a       n/a         2704       n/a       n/a         2754       n/a       n/a         3756       n/a       n/a         3701       n/a       n/a         3704       n/a       n/a         3704       n/a       n/a         3702       n/a       n/a         3752       n/a       n/a         3752       n/a       n/a         3755       n/a       n/a         3757       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3752       n/a       n/a         3754       n/a       n/a         3755       n/a       n/a         3756       n/a       n/a         3757       n/a       n/a         3757       n/a       n/a         3718   |                   |                     |                      |
| 2765       n/a       n/a         2862       n/a       n/a         2753       n/a       n/a         2805       n/a       n/a         2704       n/a       n/a         2754       n/a       n/a         3756       n/a       n/a         3701       n/a       n/a         3757       n/a       n/a         3701       n/a       n/a         3751       n/a       n/a         3702       n/a       n/a         3857       n/a       n/a         3702       n/a       n/a         3807       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3757       n/a       n/a         3757       n/a       n/a         3703       n/a       n/a         3703       n/a       n/a         3754       n/a       n/a   |                   |                     |                      |
| 2862         n/a         n/a           2753         n/a         n/a           2805         n/a         n/a           2704         n/a         n/a           2753         n/a         n/a           2704         n/a         n/a           2754         n/a         n/a           3756         n/a         n/a           3701         n/a         n/a           3751         n/a         n/a           3704         n/a         n/a           3705         n/a         n/a           3702         n/a         n/a           3857         n/a         n/a           3702         n/a         n/a           3807         n/a         n/a           3753         n/a         n/a           3705         n/a         n/a           3705         n/a         n/a           3706         n/a         n/a           3757         n/a         n/a           3703         n/a         n/a           3703         n/a         n/a           3754         n/a         n/a  |                   |                     |                      |
| 2753       n/a       n/a         2805       n/a       n/a         2704       n/a       n/a         2754       n/a       n/a         3756       n/a       n/a         3701       n/a       n/a         3701       n/a       n/a         3701       n/a       n/a         3702       n/a       n/a         3702       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3718       n/a       n/a         3703       n/a       n/a         3704       n/a       n/a         3752       n/a       n/a         3754       n/a       n/a   |                   |                     |                      |
| 2805         n/a         n/a           2704         n/a         n/a           2754         n/a         n/a           3756         n/a         n/a           3701         n/a         n/a           3751         n/a         n/a           3704         n/a         n/a           3705         n/a         n/a           3702         n/a         n/a           3752         n/a         n/a           3753         n/a         n/a           3706         n/a         n/a           3707         n/a         n/a           3705         n/a         n/a           3706         n/a         n/a           3718         n/a         n/a           3703         n/a         n/a           3716         n/a         n/a           3718         n/a         n/a           3754         n/a         n/a  |                   |                     |                      |
| 2704       n/a       n/a         2754       n/a       n/a         3756       n/a       n/a         3757       n/a       n/a         3701       n/a       n/a         3751       n/a       n/a         3704       n/a       n/a         3705       n/a       n/a         3857       n/a       n/a         3702       n/a       n/a         3807       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3706       n/a       n/a         3718       n/a       n/a         3703       n/a       n/a         3718       n/a       n/a         3754       n/a       n/a  |                   |                     |                      |
| 2754       n/a       n/a         3756       n/a       n/a         3701       n/a       n/a         3701       n/a       n/a         3751       n/a       n/a         3704       n/a       n/a         3857       n/a       n/a         3857       n/a       n/a         3807       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3777       n/a       n/a         3718       n/a       n/a         3703       n/a       n/a         3718       n/a       n/a         3703       n/a       n/a         3714       n/a       n/a   |                   |                     |                      |
| 3756       n/a       n/a         3701       n/a       n/a         3751       n/a       n/a         3704       n/a       n/a         3857       n/a       n/a         3857       n/a       n/a         3807       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3706       n/a       n/a         3777       n/a       n/a         3718       n/a       n/a         3703       n/a       n/a         3718       n/a       n/a         3703       n/a       n/a         3710       n/a       n/a         3711       n/a       n/a         3703       n/a       n/a         3714       n/a       n/a   |                   |                     |                      |
| 3701       n/a       n/a         3751       n/a       n/a         3704       n/a       n/a         3857       n/a       n/a         3857       n/a       n/a         3702       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3757       n/a       n/a         371B       n/a       n/a         3703       n/a       n/a         371C       n/a       n/a         3754       n/a       n/a   |                   |                     |                      |
| 3751       n/a       n/a         3704       n/a       n/a         3857       n/a       n/a         3857       n/a       n/a         3702       n/a       n/a         3703       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3757       n/a       n/a         371B       n/a       n/a         3703       n/a       n/a         371C       n/a       n/a         3754       n/a       n/a  |                   |                     |                      |
| 3704       n/a       n/a         3857       n/a       n/a         3702       n/a       n/a         3707       n/a       n/a         3807       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3757       n/a       n/a         371B       n/a       n/a         3703       n/a       n/a         371C       n/a       n/a         3754       n/a       n/a  |                   |                     |                      |
| 3857       n/a       n/a         3702       n/a       n/a         3807       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3757       n/a       n/a         371B       n/a       n/a         3703       n/a       n/a         371C       n/a       n/a         3754       n/a       n/a  |                   |                     |                      |
| 3702       n/a       n/a         3807       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3757       n/a       n/a         371B       n/a       n/a         3703       n/a       n/a         371C       n/a       n/a         3754       n/a       n/a   |                   |                     |                      |
| 3807       n/a       n/a         3752       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3757       n/a       n/a         371B       n/a       n/a         3703       n/a       n/a         371C       n/a       n/a         3754       n/a       n/a  |                   |                     |                      |
| 3752       n/a       n/a         3753       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3757       n/a       n/a         371B       n/a       n/a         3703       n/a       n/a         371C       n/a       n/a         3754       n/a       n/a   |                   |                     |                      |
| 3753       n/a       n/a         3705       n/a       n/a         3706       n/a       n/a         3757       n/a       n/a         371B       n/a       n/a         3703       n/a       n/a         371C       n/a       n/a         3754       n/a       n/a  |                   |                     |                      |
| 3705       n/a       n/a         3706       n/a       n/a         3757       n/a       n/a         371B       n/a       n/a         3703       n/a       n/a         371C       n/a       n/a         3754       n/a       n/a   |                   |                     |                      |
| 3706       n/a       n/a         3757       n/a       n/a         371B       n/a       n/a         3703       n/a       n/a         371C       n/a       n/a         3754       n/a       n/a  |                   |                     |                      |
| 3757       n/a       n/a         371B       n/a       n/a         3703       n/a       n/a         371C       n/a       n/a         3754       n/a       n/a   |                   |                     |                      |
| 371B       n/a       n/a         3703       n/a       n/a         371C       n/a       n/a         3754       n/a       n/a  |                   |                     |                      |
| 3703     n/a     n/a       371C     n/a     n/a       3754     n/a     n/a   |                   |                     |                      |
| 371C         n/a         n/a           3754         n/a         n/a  |                   |                     |                      |
| 3754 n/a n/a   |                   |                     |                      |
|  |                   |                     |                      |
| 371A n/a n/a   |                   |                     |                      |
|  | 371A              | n/a                 | n/a                  |

| Manhole Reference | Manhole Cover Level | Manhole Invert Level |
|-------------------|---------------------|----------------------|
| 3758              | n/a                 | n/a                  |
| 1652              | 75.9                | 74.51                |
| 1855              | n/a                 | n/a                  |
| 1852              | n/a                 | n/a                  |
| 1702<br>1701      | n/a<br>76.08        | n/a<br>74.43         |
| 2654              | 76.08<br>75.7       | 74.43                |
| 2855              | n/a                 | n/a                  |
| 2653              | 75.82               | 74.39                |
| 2656              | 75.7                | 74.62                |
| 271C              | n/a                 | n/a                  |
| 2707              | n/a                 | n/a                  |
| 2706              | n/a                 | n/a                  |
| 2757              | n/a                 | n/a                  |
| 2756              | n/a                 | n/a                  |
| 2851              | n/a<br>75.01        | n/a                  |
| 2705<br>2801      | 75.21<br>n/a        | 73.49<br>n/a         |
| 2601              | n/a                 | n/a                  |
| 2651              | n/a                 | n/a                  |
| 271B              | n/a                 | n/a                  |
| 2701              | n/a                 | n/a                  |
| 2751              | n/a                 | n/a                  |
| 2702              | n/a                 | n/a                  |
| 2804              | n/a                 | n/a                  |
| 2863              | n/a                 | n/a                  |
| 271A              | n/a                 | n/a                  |
| 2752              | n/a<br>n/a          | n/a                  |
| 1951<br>1901      | n/a<br>n/a          | n/a<br>n/a           |
| 291C              | n/a                 | n/a                  |
| 291B              | n/a                 | n/a                  |
| 291D              | n/a                 | n/a                  |
| 2955              | n/a                 | n/a                  |
| 2903              | n/a                 | n/a                  |
| 2953              | n/a                 | n/a                  |
| 2902              | n/a                 | n/a                  |
| 2952              | n/a                 | n/a                  |
| 29608<br>2956     | n/a<br>n/a          | n/a<br>n/a           |
| 2909              | n/a                 | n/a                  |
| 2901              | n/a                 | n/a                  |
| 2951              | n/a                 | n/a                  |
| 291A              | n/a                 | n/a                  |
| 3956              | n/a                 | n/a                  |
| 391A              | n/a                 | n/a                  |
| 391B              | n/a                 | n/a                  |
| 391C              | n/a                 | n/a                  |
| 391D<br>3952      | n/a<br>n/a          | n/a<br>n/a           |
| 1853              | n/a                 | n/a                  |
| 1801              | n/a                 | n/a                  |
| 2906              | n/a                 | n/a                  |
| 2854              | n/a                 | n/a                  |
| 2803              | n/a                 | n/a                  |
| 2905              | n/a                 | n/a                  |
| 2904              | n/a                 | n/a                  |
| 2860              | n/a                 | n/a                  |
| 2853<br>2802      | n/a<br>n/a          | n/a<br>n/a           |
| 2954              | n/a                 | n/a<br>n/a           |
| 2852              | n/a                 | n/a                  |
| 2907              | n/a                 | n/a                  |
| 2856              | n/a                 | n/a                  |
| 2806              | n/a                 | n/a                  |
| 2859              | n/a                 | n/a                  |
| 2857              | n/a                 | n/a                  |
| 2858<br>281A      | n/a<br>n/a          | n/a<br>n/a           |
| 201A<br>291E      | n/a                 | n/a                  |
| 2861              | n/a                 | n/a                  |
| 3805              | n/a                 | n/a                  |
| 3855              | n/a                 | n/a                  |
| 3854              | n/a                 | n/a                  |
| 3804              | n/a                 | n/a                  |
| 3858              | n/a                 | n/a                  |
| 3803              | n/a                 | n/a                  |
| 3802<br>3852      | n/a<br>n/a          | n/a<br>n/a           |
| 0801              | n/a                 | n/a                  |
| 1651              | 75.93               | 74.58                |
| 1551              | 75.64               | 74.66                |
| 1851              | n/a                 | n/a                  |
| 0802              | n/a                 | n/a                  |
| 0901              | n/a                 | n/a                  |
| 0902              | n/a                 | n/a                  |
| 1954              | n/a                 | n/a                  |
| 1955              | n/a                 | n/a                  |
| 1854<br>1953      | n/a<br>n/a          | n/a<br>n/a           |
| 1953              | n/a<br>n/a          | n/a<br>n/a           |
| 1952              | n/a                 | n/a                  |
|                   | 72.26               | 70.8                 |
| 4501              |                     |                      |

| Manhole Reference                            | Manhole Cover Level                                    | Manhole Invert Level   |
|--|--|--|
| 451B   | n/a  | n/a  |
| 4654   | 74.27  | 72.8   |
| 4602   | 74.2   | 72.05  |
| 4553   | 73.2   | 71.65  |
| 4652   | 74.11  | 72.36  |
| 4508   | n/a  | n/a  |
| 4452   | n/a  | 70.89  |
| 4601   | 74.05  | 72.33  |
| 4552   | 72.4   | 70.88  |
| 4502   | n/a  | n/a  |
| 451A   | n/a  | n/a  |
| 351D   | n/a  | n/a  |
| 351A<br>4506                                 | n/a<br>73.07   | n/a<br>71  |
| 4506<br>351B                                 |  | n/a  |
| 4554   | n/a<br>72.75   | 71.38  |
| 3557   | 73.37  | 71.30  |
| 3557<br>351H                                 | n/a  | n/a  |
| 4555   | 73.15  | 71.55  |
| 3505   | n/a  | n/a  |
| 3555   | n/a  | n/a  |
| 3602   | n/a  | n/a  |
| 461E   | n/a  | n/a  |
| 461F   | n/a  | n/a  |
| 4651   | n/a  | n/a  |
| 2501   | 74.36  | 72.4   |
| 3550   | 74.35  | 72.69  |
| 3501   | 74.39  | 72.46  |
| 351C   | n/a  | n/a  |
| 3502   | n/a  | n/a  |
| 3551   | 74.36  | 72.52  |
| 351G   | n/a  | n/a  |
| 351F   | n/a  | n/a  |
| 3503   | n/a  | n/a  |
| 3553   | n/a  | n/a  |
| 351E   | n/a  | n/a  |
| 3504   | n/a  | n/a  |
| 3554   | n/a  | n/a  |
| 3506   | n/a  | n/a  |
| 3556   | n/a  | n/a  |
| 2652   | n/a  | n/a  |
| 3603   | n/a  | n/a  |
| 3652   | n/a  | n/a  |
| 3601   | n/a  | n/a  |
| 3651   | n/a  | n/a  |
| 1650   | 75.49  | 74.53  |
| 2550   | 75.19  | 73.67  |
| 251B   | n/a  | n/a  |
| 2503   | 75.06  | 73.66  |
| 251A   | n/a  | n/a  |
| 2502   | 74.79  | 73.48  |
| 2551   | 74.76  | 73.13  |
| 251C   | n/a  | n/a  |
| 0550   | 76.63  | 75.2   |
| 1550   | 75.62  | 74.47  |
|  |  |  |
|  |  | nd the accuracy cannot be guaranteed. Service pipes are not    |
| shown but their presence should be anticipa  | ted. No liability of any kind whatsoever is accepted I | by Thames Water for any error or omission. The actual position |
| or mains and services must be verified and e | stablished on site before any works are undertaken.    |  |

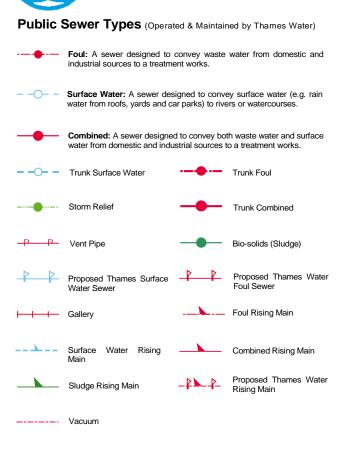


The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.

| Manhole Reference                         | Manhole Cover Level                                    | Manhole Invert Level                                       |
|---|--|--|
| 6503                                      | n/a  | n/a  |
| 6557                                      | n/a  | n/a  |
| 6507                                      | n/a  | n/a  |
| 6501                                      | n/a  | n/a  |
| 6550<br>6556                              | n/a<br>n/a   | n/a<br>n/a   |
| 6554                                      | n/a  | n/a  |
| 6504                                      | n/a  | n/a  |
| 6506                                      | n/a  | n/a  |
| 5550                                      | n/a  | n/a  |
| 6555                                      | n/a  | n/a  |
| 6505                                      | n/a  | n/a  |
| 5654                                      | 73.28  | 71.07  |
| 5605                                      | 73.18  | 69.18  |
| 661C                                      | n/a  | n/a  |
| 561C                                      | n/a  | n/a  |
| 661H                                      | n/a  | n/a  |
| 661D                                      | n/a  | n/a  |
| 661E                                      | n/a  | n/a  |
| 661G                                      | n/a<br>73.08   | n/a  |
| 5604                                      |  | 70.11  |
| 5653<br>661A                              | 73.07<br>n/a   | 71.09<br>n/a   |
| 5652                                      | 73.72  | 71.92  |
| 5603                                      | 73.2   | 71.92  |
| 661F                                      | n/a  | n/a  |
| 661B                                      | n/a  | n/a  |
| 5758                                      | n/a  | n/a  |
| 571C                                      | n/a  | n/a  |
| 5764                                      | n/a  | n/a  |
| 5752                                      | 73.67  | 71.27  |
| 5702                                      | 73.65  | 70.6   |
| 5753                                      | 73.7   | 71.25  |
| 5703                                      | 73.7   | 70.55  |
| 5651                                      | 73.37  | 71.17  |
| 5601                                      | 73.47  | 70.32  |
| 5602                                      | 73.32  | 70.32  |
| 5852                                      | n/a  | n/a  |
| 581A                                      | n/a  | n/a  |
| 581C                                      | n/a  | n/a  |
| 5853                                      | n/a  | n/a  |
| 5757                                      | n/a  | n/a  |
| 5756<br>581B                              | n/a  | n/a  |
| 581B                                      | n/a  | n/a  |
| 5762<br>5763                              | n/a  | n/a  |
| 5759                                      | n/a<br>n/a   | n/a<br>n/a   |
| 561A                                      | n/a  | n/a  |
| 561B                                      | n/a  | n/a  |
| 5761                                      | n/a  | n/a  |
| 5760                                      | n/a  | n/a  |
| 6701                                      | n/a  | n/a  |
| 671A                                      | n/a  | n/a  |
| 671B                                      | n/a  | n/a  |
| 5656                                      | 73.71  | 72.13  |
| 5705                                      | 74.12  | 71.32  |
| 5704                                      | 74.05  | 71.15  |
| 5754                                      | 74.13  | 71.98  |
| 571B                                      | n/a  | n/a  |
| 571A                                      | n/a  | n/a  |
| 5755<br>5751                              | 73.38  | 72.58  |
| 5751<br>5701                              | 73.41<br>73.38   | 71.45<br>70.88   |
| 5701                                      | 73.38  | 70.88<br>71.57   |
| 5801                                      | 73.66  | 71.57<br>71.09   |
| 581D                                      | n/a  | n/a  |
| 7550                                      | n/a  | n/a  |
| 7551                                      | n/a  | n/a  |
| 7501                                      | n/a  | n/a  |
| 5551                                      | n/a  | n/a  |
| 5554                                      | n/a  | n/a  |
| 651B                                      | n/a  | n/a  |
| 651A                                      | n/a  | n/a  |
| 6557                                      | n/a  | n/a  |
| 6551                                      | n/a  | n/a  |
| 6502                                      | n/a  | n/a  |
| 6553                                      | n/a  | n/a  |
| 6552                                      | n/a  | n/a  |
| 751A                                      | n/a  | n/a  |
| 5655                                      | 73.77  | 71.9   |
| 551A                                      | n/a  | n/a  |
| 5553                                      | 72.54  | 70.01  |
| 5501                                      | 72.36  | 69.84  |
|   |  |  |
|   | this plan is given without obligation and warrants and | d the accuracy cannot be guaranteed. Service pipes are n   |
|   | the diversion without obligation and warranty an       | o me accuracy cannot be guaranteed. Service bibes are n    |
| shown but their presence should be antici | a stablished on site before any works are undertaken.  | y Thames Water for any error or omission. The actual posit |

ALS Sewer Map Key



### **Sewer Fittings**

A feature in a sewer that does not affect the flow in the pipe. Example: a vent is a fitting as the function of a vent is to release excess gas.

- Air Valve Dam Chase Fitting
- ≥ Meter

Π

0 Vent Column

### **Operational Controls**

A feature in a sewer that changes or diverts the flow in the sewer. Example: A hydrobrake limits the flow passing downstream.

X Control Valve Ф Drop Pipe Ξ Ancillary Weir

Outfall

Inlet

Undefined End

### End Items

いし

End symbols appear at the start or end of a sewer pipe. Examples: an Undefined End at the start of a sewer indicates that Thames Water has no knowledge of the position of the sewer upstream of that symbol, Outfall on a surface water sewer indicates that the pipe discharges into a stream or river.

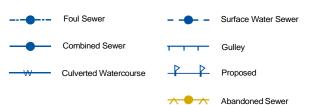
- **Other Symbols** Symbols used on maps which do not fall under other general categories
- **\**/ Public/Private Pumping Station
- \* Change of characteristic indicator (C.O.C.I.)
- Ø Invert Level
- < Summit

#### Areas

Lines denoting areas of underground surveys, etc.

Agreement **Operational Site** :::::: Chamber Tunnel Conduit Bridge

### Other Sewer Types (Not Operated or Maintained by Thames Water)



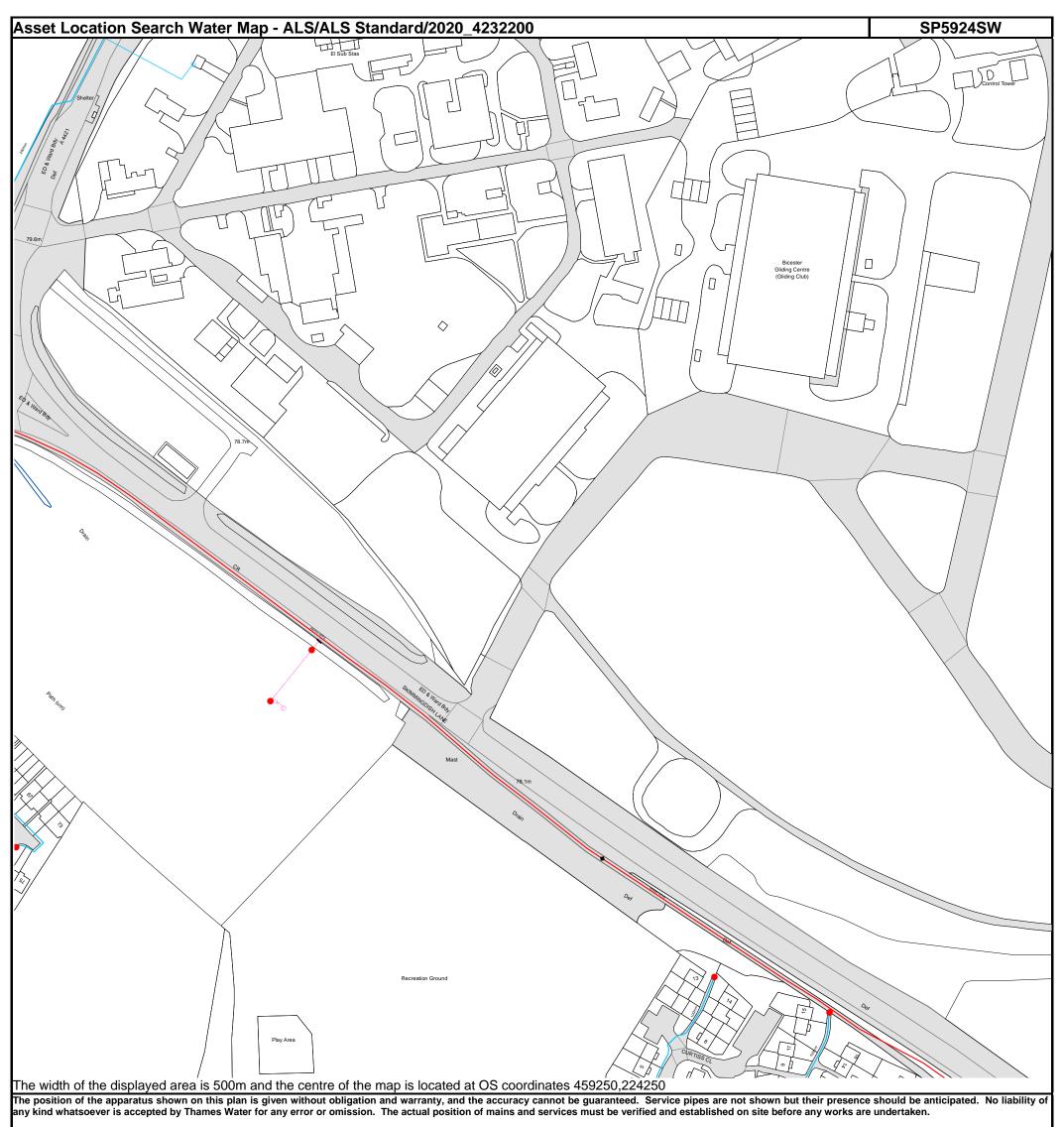
#### Notes:

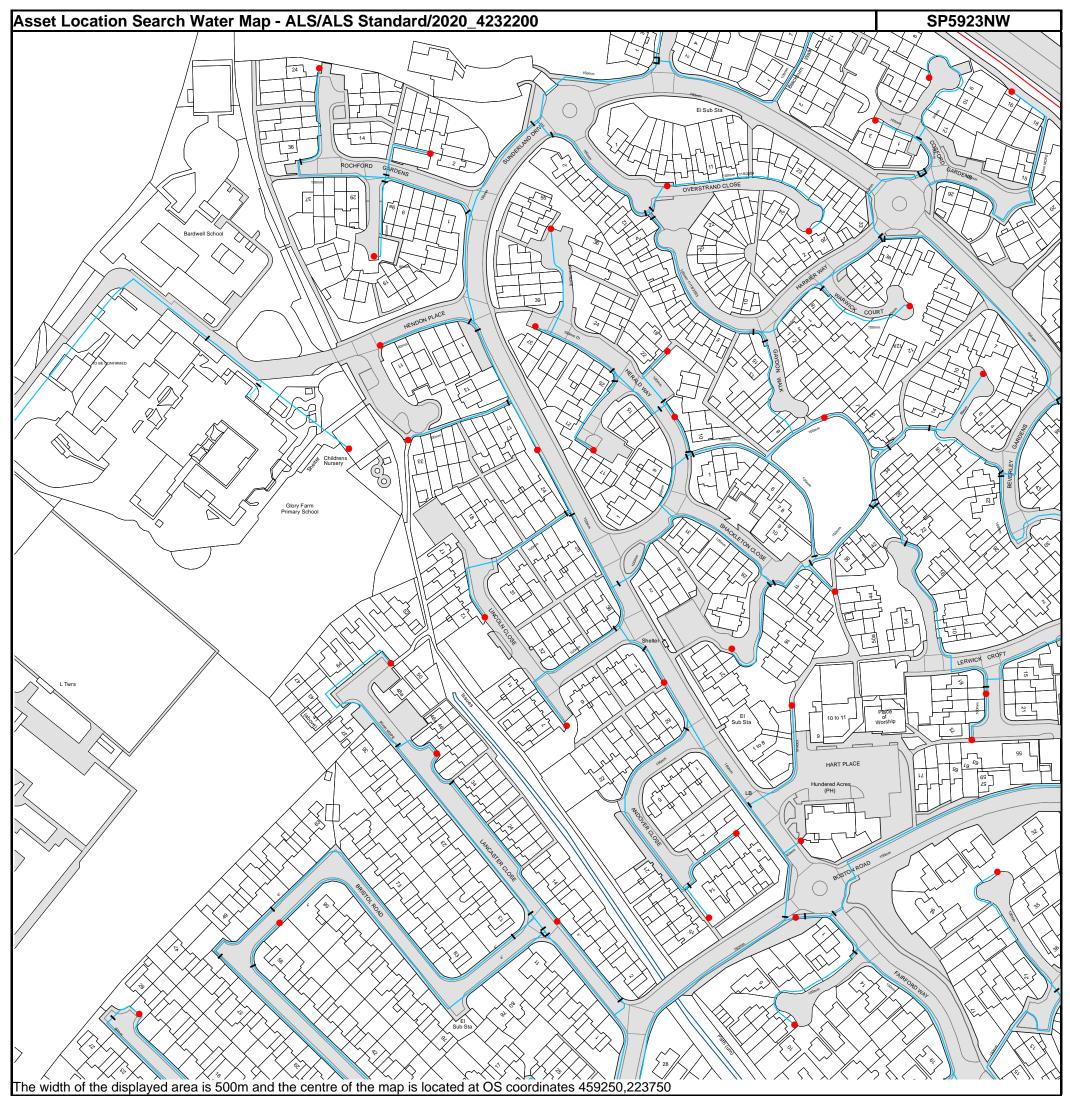
hames

Water

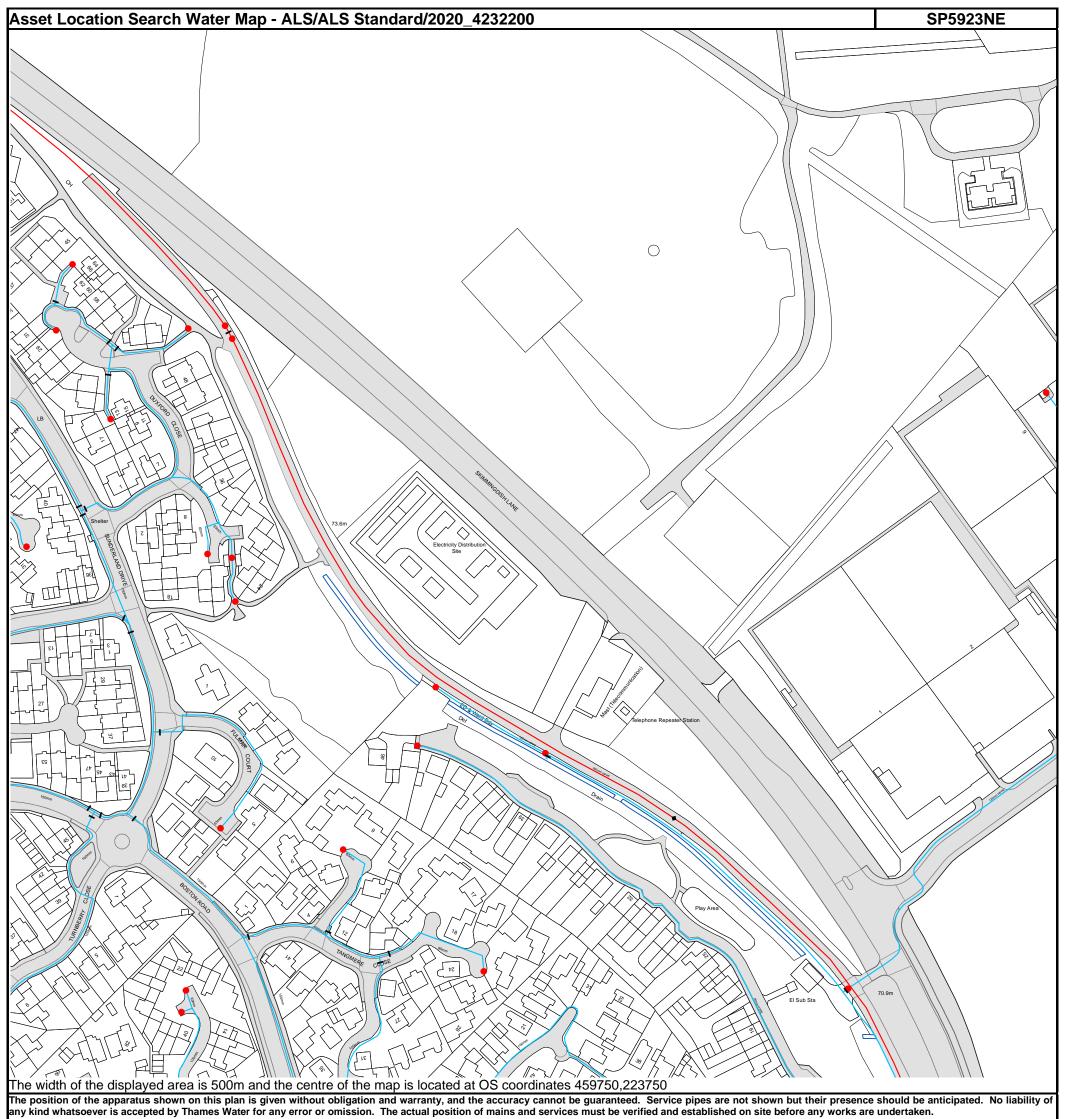
- 1) All levels associated with the plans are to Ordnance Datum Newlyn.
- 2) All measurements on the plans are metric.
- 3) Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of flow.
- 4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.
- 5) 'na' or '0' on a manhole level indicates that data is unavailable.
- 6) The text appearing alongside a sewer line indicates the internal diameter of the pipe in milimetres. Text next to a manhole indicates the manhole reference number and should not be taken as a measurement. If you are unsure about any text or symbology present on the plan, please contact a member of Property Insight on 0845 070 9148.

| Asset Location Search Water Map - ALS/ALS Standard/2020_4232200  | SP6023NW   |
|--|--|
| Spring   |  |
|  |  |
|  |  |
|  |  |
| El Sub Sta   |  |
|  |  |
| The width of the displayed area is 500m and the centre of the map is located at OS coordinates 460250,223750<br>The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence | Chinana Pathon<br>Should be anticipated. No liability of |





The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.



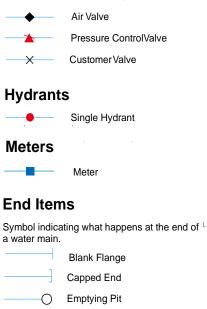
ALS Water Map Key

Water Pipes (Operated & Maintained by Thames Water)

- Distribution Main: The most common pipe shown on water maps.
   With few exceptions, domestic connections are only made to distribution mains.
- Trunk Main: A main carrying water from a source of supply to a treatment plant or reservoir, or from one treatment plant or reservoir to another. Also a main transferring water in bulk to smaller water mains used for supplying individual customers.
- **Supply Main:** A supply main indicates that the water main is used as a supply for a single property or group of properties.
- STERE
   Fire Main: Where a pipe is used as a fire supply, the word FIRE will be displayed along the pipe.
- **Metered Pipe:** A metered main indicates that the pipe in question supplies water for a single property or group of properties and that quantity of water passing through the pipe is metered even though there may be no meter symbol shown.
- Transmission Tunnel: A very large diameter water pipe. Most tunnels are buried very deep underground. These pipes are not expected to affect the structural integrity of buildings shown on the map provided.
- **Proposed Main:** A main that is still in the planning stages or in the process of being laid. More details of the proposed main and its reference number are generally included near the main.

| PIPE DIAMETER               | DEPTH BELOW GROUND |
|-----------------------------|--------------------|
| Up to 300mm (12")           | 900mm (3')         |
| 300mm - 600mm (12" - 24")   | 1100mm (3' 8")     |
| 600mm and bigger (24" plus) | 1200mm (4')        |

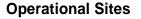
Thames Water Utilities Ltd, Property Searches, PO Box 3189, Slough SL1 4W, DX 151280 Slough 13 T 0845 070 9148 E searches@thameswater.co.uk I www.thameswater-propertysearches.co.uk

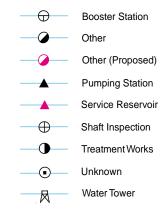


General PurposeValve

Valves

- Manifold
- Customer Supply
- Fire Supply





### **Other Symbols**

Data Logger

Other Water Pipes (Not Operated or Maintained by Thames Water)

Other Water Company Main: Occasionally other water company water pipes may overlap the border of our clean water coverage area. These mains are denoted in purple and in most cases have the owner of the pipe displayed along them.

**Private Main:** Indiates that the water main in question is not owned by Thames Water. These mains normally have text associated with them indicating the diameter and owner of the pipe.

### **Terms and Conditions**

All sales are made in accordance with Thames Water Utilities Limited (TWUL) standard terms and conditions unless previously agreed in writing.

- 1. All goods remain in the property of Thames Water Utilities Ltd until full payment is received.
- 2. Provision of service will be in accordance with all legal requirements and published TWUL policies.
- 3. All invoices are strictly due for payment 14 days from due date of the invoice. Any other terms must be accepted/agreed in writing prior to provision of goods or service, or will be held to be invalid.
- 4. Thames Water does not accept post-dated cheques-any cheques received will be processed for payment on date of receipt.
- 5. In case of dispute TWUL's terms and conditions shall apply.
- 6. Penalty interest may be invoked by TWUL in the event of unjustifiable payment delay. Interest charges will be in line with UK Statute Law 'The Late Payment of Commercial Debts (Interest) Act 1998'.
- 7. Interest will be charged in line with current Court Interest Charges, if legal action is taken.
- 8. A charge may be made at the discretion of the company for increased administration costs.

A copy of Thames Water's standard terms and conditions are available from the Commercial Billing Team (cashoperations@thameswater.co.uk).

We publish several Codes of Practice including a guaranteed standards scheme. You can obtain copies of these leaflets by calling us on 0800 316 9800

If you are unhappy with our service you can speak to your original goods or customer service provider. If you are not satisfied with the response, your complaint will be reviewed by the Customer Services Director. You can write to her at: Thames Water Utilities Ltd. PO Box 492, Swindon, SN38 8TU.

If the Goods or Services covered by this invoice falls under the regulation of the 1991 Water Industry Act, and you remain dissatisfied you can refer your complaint to Consumer Council for Water on 0121 345 1000 or write to them at Consumer Council for Water, 1st Floor, Victoria Square House, Victoria Square, Birmingham, B2 4AJ.

| Credit Card  | BACS Payment   | Telephone Banking   | Cheque   |
|--|--|---|--|
| Call <b>0845 070 9148</b><br>quoting your invoice<br>number starting CBA or<br>ADS / OSS | Account number<br>90478703<br>Sort code 60-00-01<br>A remittance advice must<br>be sent to:<br>Thames Water Utilities<br>Ltd., PO Box 3189,<br>Slough SL1 4WW.<br>or email<br>ps.billing@thameswater.<br>co.uk | By calling your bank and<br>quoting:<br>Account number<br><b>90478703</b><br>Sort code <b>60-00-01</b><br>and your invoice number | Made payable to ' <b>Thames</b><br>Water Utilities Ltd'<br>Write your Thames Water<br>account number on the<br>back.<br>Send to:<br><b>Thames Water Utilities</b><br>Ltd., PO Box 3189,<br>Slough SL1 4WW<br>or by DX to 151280<br>Slough 13 |

### Ways to pay your bill

Thames Water Utilities Ltd Registered in England & Wales No. 2366661 Registered Office Clearwater Court, Vastern Rd, Reading, Berks, RG1 8DB.

Thames

Andrew Collins Ridge & Partners LLP

Oxford Road Woodstock OX20 1QR Thames Water Utilities Ltd. PO Box 3189 Slough SL1 4WW

| Customer Reference:                    | 5012836   | Invoice No:<br>Our Ref:    | ADS20405852<br>ALS/ALS<br>Standard/2020_4232200 |
|--|-----------|----------------------------|---|
| Customer Number:<br>Purchase Order No: | ADS119185 | Posting Date:<br>Due Date: |   |

Search Address Supplied: 459787 223840, Land Adjacent To Oxford Vitality, Unit 4, Longlands Road, Launton, Bicester, OX26 5AH

| Description of Charges                      | Qty | Unit Price | VAT (20%) | Amount (Inc VAT) |
|---|-----|------------|-----------|------------------|
| Asset Location Search                       | 1   | £49.80     | £9.96     | £59.76           |
| Thank you for your payment of 000000,111111 |     |            |           | £59.76           |

### OUTSTANDING AMOUNT (Inc. VAT)

£0.00

Please send any outstanding amount to Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW.

For queries please contact the Property Searches Customer Support Team on Tel: 0845 070 9148.

# VAT Reg. No GB 537456915

## **APPENDIX D – OUTLINE DRAINAGE STRATEGY**



| DISCLAIMER NOTES:   | DRAWING NOTES:  | CLIENT:  | 20 0 20 40 60 80 100<br>SCALE 1:2500 m ORIGINATOR:  |
|---|---|--|---|
| THIS DOCUMENT IS COPYRIGHT OF THE ORIGINATOR AND MUST BE TREATED AS COT<br>THIS DOCUMENT MUST NOT BE ALTERED, REPRODUCED OR DISTRIBUTED WITHOUT<br>OF THE ORIGINATOR<br>THIS DOCUMENT IS AVAILABLE IN BOTH CONTROLLED (eg. pdf) AND UNCONTROLLED I<br>UNCONTROLLED FORMATS MUST NOT BE ALTERED - THE ORIGINATOR ACCEPTS NO<br>DISCREPANCIES ARISING AS A RESULT OF THE ORIGINATORS INFORMATION BEING A<br>ANY DISCREPANCY MUST BE REPORTED TO THE ORIGINATOR<br>DO NOT SCALE THIS DOCUMENT - USE FIGURED DIMENSIONS ONLY<br>ALL DIMENSIONS MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY RE<br>THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH ALL SUPPORTING DOCUMEN<br>ORIGINATOR AND OTHER PROJECT DISCIPLINES<br>THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROU<br>PRODUCED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY | ONFIDENTIAL       CDM REGULATIONS 2015         SIGNIFICANT OR NON-OBVIOUS RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE         D(eg. dwg) FORMATS -         D RESPONSIBILITY FOR ANY         ALTERED BY OTHERS         RELATED WORKS         ENTS PRODUCED BY THE         DUND INFORMATION |  | Surface water drainage         Strategy         ENG:       CSE:       ICSE:       SCALE:       1:2500       @ A0         BN       SW       INTIAL ISSUE:       27/11/2020         Status:       Status:       Status:       Status:       Status: |
| SERS OF THIS DOCUMENT ARE RESPONSIBLE FOR CHECKING WHICH REVISION IS C<br>HE DOCUMENT STATUS "INFORMATION" OR "PRELIMINARY", INDICATES THAT THIS D<br>EFERENCE PURPOSES ONLY - THE ORGINATOR WILL ACCEPT NO RESPONSIBILITY<br>F INFORMATION UNDER THIS STATUS<br>HE DOCUMENT STATUS "RECORD" OR "AS BUILT" HAS BEEN PREPARED, IN PART, BA<br>JRNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, TH<br>O RESPONSIBILITY FOR THE ACCURACY OF THIS "RECORD" OR "AS BUILT" DOCUME<br>R OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCO<br>ROVIDED TO THE ORIGINATOR. THOSE RELYING ON THE "RECORD" OR "AS BUILT" D<br>O OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY   | DRAWING IS FOR<br>Y FOR THE COMPLETENESS<br>BASED UPON INFORMATION<br>HE ORIGINATOR ASSUMES<br>IENT OR FOR ANY ERRORS<br>CORRECT INFORMATION  | -     FIRST ISSUE     27/11/2020     BN       REV     DESCRIPTION     DATE     DRAWN |   |

# **APPENDIX E – ARCHITECTS SITE LAYOUT**



# Experience Quarter - Indicative Layout Plan

PLANNING DRAWN BY: JY CHECKED BY: A

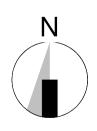
DRAWN BY: JY CHECKED BY: AH PROJECT: ORG: ZONE: LEVEL: TYPE: 5002854-RDG-Z01-ST-PL-A-0030 REV: H 15/04/2019

SCALE 1:5000 @ A1



# <u>KEY:</u>

- Application Boundary
  Ownership Boundary
  ----- SAM
  - Indicative Massing







RIDGE

TEL NO: 01993815000 WWW.RIDGE.CO.UK

## **APPENDIX F – SUPPLEMENTARY GROUNDWATER MONITORING INVESTIGATION, AUGUST 2019**





4 Church Street Maids Moreton MK18 1QE

Our Ref: DL/19-07-05

Bicester Heritage Buckingham Road Bicester Oxon OX27 8AL 01280 816409 07858 367 125 Info@geo-integrity.co.uk www.geo-integrity.co.uk

12 August 2019

For the attention of Mr Jonty Ashworth

Dear Jonty,

# SUPPLEMENTARY GROUNDWATER MONITORING INVESTIGATION – New Technical Site, Bicester Heritage, Launton, Bicester, OX26 5HA.

### INTRODUCTION

Following comments and further discussions on the Condition 8 of the Planning Application 18/01333/F, from Mr Samuel Pocock, Planning Advisor of the Environment Agency, which requested "that before condition 8 is discharged that groundwater quality is determined for the site by taking some water samples from the Cornbrash aquifer. We are concerned that the previous uses of the site have potentially impacted upon groundwater quality".

In order to obtain groundwater samples, three supplementary boreholes were drilled down into the rock-head Cornbrash Formation across the site, until refusal on rock-quality strata was met. Siteworks were undertaken during the week commencing the on the 29<sup>th</sup> July 2019.

The objectives of this investigation and report were to purge groundwater samples from each of the supplementary boreholes at the site, in order to conduct chemical laboratory data on the composition of the underlying groundwater.

Testing was undertaking in line with the recommendations from Mr Samuel Pocock of the Environment Agency:- "We would recommend you consider a suite of dissolved metals (iron, Zinc, Copper, etc)In addition, given the industrial history and use as an airfield, we would recommend some hydrocarbon analysis, TPH, BTEX, PAHs".

### Previous Investigation:-

Previously as part of Bicester Heritage's Due diligence work, Geo-Integrity conducted a Phase 1 Desk Study & Phase 2 Site Investigation Report at the site, Report No 18-08-08 issue 3 Final, dated November 2018. Therefore this supplementary letter report should be read in conjuncture with the Ground Investigation Report, and is intended to supplement the previously gathered dataset and analysis.

At the time of the previous investigation no groundwater was encountered within the underlying Cornbrash Limestone. The siteworks were however undertaken at the end of the summer of 2018, after an extended period of unseasonal low rainfall.





### SUPPLEMENTARY SITEWORK INFORMATION

The three supplementary boreholes were located across the site:-

| Borehole Number | Location     | Groundwater level | Easting/Northing |
|-----------------|--------------|-------------------|------------------|
| WS 1B           | Western Area | 1.40m bgl         | 459037/ 224353   |
| WS 2B           | Central Area | 1.70m bgl         | 459098/ 224314   |
| WS 5B           | Eastern Area | 2.02m bgl         | 459224/ 224224   |

### LABORATORY TESTING

Groundwater samples were obtained from each of the boreholes, on the 5<sup>th</sup> of August 2019, and were tested for a suite which included Metals, TPHs, BTEX, PAHs and water hardness.

Of each of the samples tested, none of the contaminants tested for recorded values in excess of the relevant UKDWS or EQS values. The full results are enclosed.

### UPDATED ASSESSMENT OF THE RISK TO CONTROLLED WATERS

Based on the results of the initial investigation (2018), the supplementary testing, and the information provided by the Environment Agency the following updated assessment has been compiled:-

The assessment of risks to controlled waters follows guidance provided by the Environment Agency and DEFRA in association with the Contaminated Land (England) Regulations 2000 (SI 2000/227). This guidance is Environment Agency's Remedial Targets Methodology Hydrogeological risk assessment for contaminated land (2006), as such these procedures have been followed.

Whilst some background levels of metals, TPHs and PAHs have been identified at the site within the variable Made Ground, It is considered that there is no elevated risk of Controlled Waters pollution from development at this site, due to the following mitigating factors:-

- Supplementary Groundwater testing has demonstrated that there are no elevated levels of contamination within the underlying groundwater at the site, and that levels are consistent with "clean" uncontaminated groundwater.
- Encountered levels in the near-surface soil are below that of concern from a Human Health perspective
- Fhere are no identified, current, significant sources of pollution at the site (i.e leaking tanks),
- The proposed development is to include many impermeable structures and hardstanding areas (effectively reducing the infiltration and migration of the determinants).
- The site is recorded to be located outside of any Source Protection Zones.





There have been no recorded pollution incidents to controlled waters within the surrounding area of the site.

### **Comments**

The supplementary information and analysis undertaken as part of this investigation, demonstrates that controlled waters are not at any significant risk from development at the site, and that the previous uses of the site have not impacted upon groundwater quality.

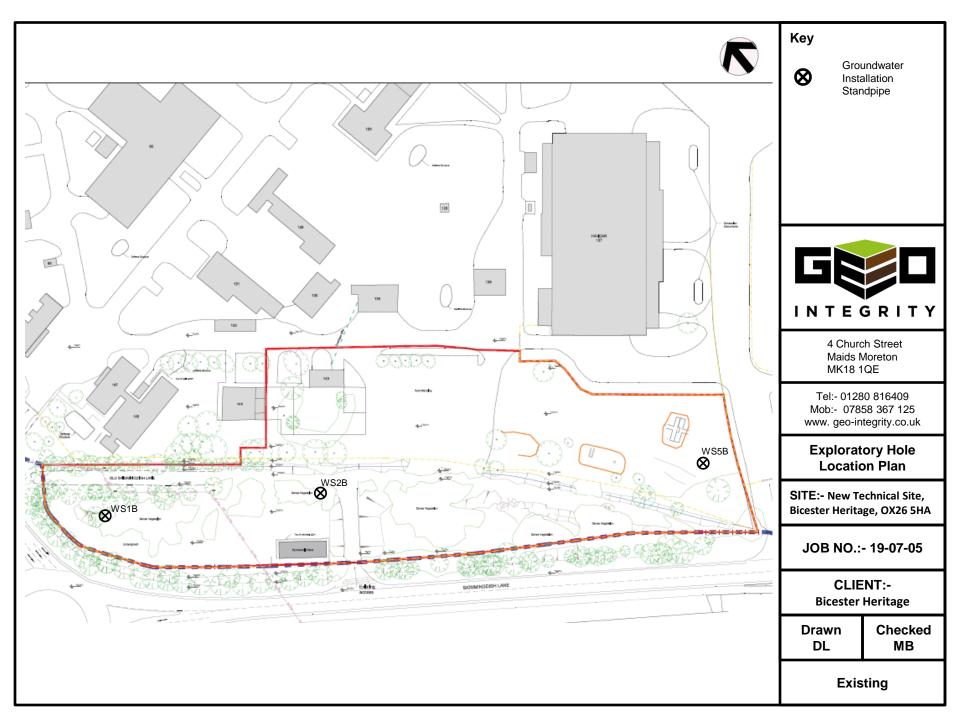
The Environment Agency is the regulatory body charged with protection of controlled waters and is a consultee in the planning process. Therefore we recommend that the conclusions of this report are agreed with the Environment Agency at the earliest stage, to reduce any further delays to the development.

We trust this information is satisfactory to you. In the event of any queries please contact us.

Yours sincerely

~ ] ||*||||*||

Danny Lusardi Senior Engineering Geologist, Geo-Integrity Ltd.





### **CONTINUOUS TUBE** WS 1-B

### INTEGRITY PROJECT NUMBER 19-07-05

PROJECT NUMBER 19-07-05 PROJECT NAME BICESTER HERITAGE CLIENT BICESTER HERITAGE DRILLING DATE 29/7/19 TOTAL DEPTH 2.9m DIAMETER 100mm-60mm GROUNDWATER 1.30m bgl EASTINGS 459037 NORTHINGS 224353

SURFACE LEVEL 79.01m AOD

| COMMENTS L | OMMENTS Logged to BS14688:2013 LOGGED BY DL<br>CHECKED BY MB |                                     |             |   |                  |                 |                             |  |  |
|------------|--|-------------------------------------|-------------|---|------------------|-----------------|-----------------------------|--|--|
| Samples    | Groundwater  | Depth (m)                           | Graphic Log | Material Description  | SPT/KN/m2 (HV)   | Well<br>Diagram | Depth (m)                   |  |  |
|            |  | -<br>-<br>0.2<br>-                  |             | TOPSOIL<br>Soft brown sandy CLAY. With wood fragments and roots.<br>CORNBRASH FORMATION - WEATHERED<br>Firm brown silty slightly sandy gravelly CLAY. Gravel is fine to<br>coarse angular of limestone. | _                |                 | -<br>-<br>0.2<br>           |  |  |
| D          |  | -<br>-<br>-<br>-<br>- 0.6           |             | CORNBRASH FORMATION<br>Brownish grey slightly silty slightly sandy gravelly cobbles of<br>fossiliferous LIMESTONE.  |                  |                 | 0.4<br><br><br>0.6          |  |  |
|            |  | -<br>-<br>- 0.8<br>-<br>-<br>-<br>- |             |   |                  |                 | -<br>0.8<br><br><br>1       |  |  |
| В          |  | -<br>-<br>- 1.2<br>-                |             | CORNBRASH FORMATION<br>Recovered as: Brownish grey silty gravel of LIMESTONE.   |                  |                 | -<br>-<br>- 1.2<br>-        |  |  |
|            |  | - 1.4<br>-<br>-<br>- 1.6<br>-       |             |   |                  |                 | 1.4<br><br><br>1.6<br>      |  |  |
|            |  | -<br>-<br>- 1.8<br>-<br>-           |             |   | <u>/</u> N=<50 ∖ | Screen          | -<br>1.8<br><br>-           |  |  |
|            |  | - 2<br>-<br>-<br>- 2.2<br>-         |             |   |                  |                 | - 2<br>-<br>-<br>- 2.2<br>- |  |  |
|            |  | -<br>-<br>- 2.4<br>-<br>-           |             | FOREST MARBLE FORMATION - MUDSTONE<br>Stiff grey silty CLAY.  |                  |                 | -<br>2.4<br>                |  |  |
|            |  | - 2.6<br>-<br>-<br>- 2.8            |             | FOREST MARBLE FORMATION - LIMESTONE<br>Recovered as light brownish grey silty gravel of limestone.  |                  |                 | - 2.6<br>-<br>-<br>- 2.8    |  |  |
|            |  | _                                   |             | Termination Depth at:2.9 m In rock quality strata, after 45m of no penetration >/=3mm.  | /N=<50 \         |                 | Page 1 of 1                 |  |  |



### **CONTINUOUS TUBE WS 2-B**

### INTEGRITY PROJECT NUMBER 19-07-05

PROJECT NAME BICESTER HERITAGE CLIENT BICESTER HERITAGE DRILLING DATE 29/7/19 TOTAL DEPTH 2.40m DIAMETER 100mm-60mm GROUNDWATER 1.40m bgl EASTINGS 459098 NORTHINGS 224314

| COMMENTS L | ogged to E  | 3S1468                   | 8:2013      | LOGGED BY<br>CHECKED BY   |                    |                 |                        |
|------------|-------------|--------------------------|-------------|---|--------------------|-----------------|------------------------|
| Samples    | Groundwater | Depth (m)                | Graphic Log | Material Description  | SPT/KN/m2 (HV)     | Well<br>Diagram | Depth (m)              |
| D          |             | -<br>-<br>- 0.2          |             | TOPSOIL<br>Soft brown sandy CLAY. With wood fragments and roots.<br>CORNBRASH FORMATION - WEATHERED<br>Firm brown silty slightly sandy gravelly CLAY. Gravel is fine to<br>coarse angular of limestone. | /                  |                 |                        |
| D          |             | -<br>0.4<br>             |             | CORNBRASH FORMATION   |                    | Seal            | -<br>0.4<br>           |
|            |             | - 0.6<br>-<br>-<br>- 0.8 |             | Brownish grey slightly silty slightly sandy gravelly cobbles of<br>fossiliferous LIMESTONE.   | <u>/N=&lt;50</u>   |                 | 0.6<br><br><br>0.8     |
| В          |             | -<br>-<br>-<br>- 1       |             | CORNBRASH FORMATION   |                    |                 | - 0.0<br>              |
|            |             | -<br>-<br>- 1.2<br>-     |             | Recovered as: Brownish grey silty gravel of LIMESTONE.  |                    |                 | -<br><br>1.2           |
|            |             | -<br>1.4<br>-            |             |   |                    |                 | -<br>1.4<br>-          |
|            |             | - 1.6                    |             |   |                    | Screen          | - 1.6                  |
|            |             | - 1.8<br>-<br>-<br>- 2   |             |   | <u>√N=&lt;50</u> ∖ |                 | 1.8<br><br><br>2       |
|            |             | -<br>-<br>- 2.2<br>-     |             |   |                    |                 | -<br>-<br>2.2<br>      |
|            |             | -<br>-<br>- <u>2.4</u>   |             | Termination Depth at:2.4 m In rock quality strata, after 45m of no  | /N=>50             |                 | -<br>-<br>- <u>2.4</u> |
|            |             | -<br>-<br>2.6<br>-       |             | penetration >/=3mm.   |                    |                 | 2.6                    |
|            |             | -<br>2.8<br>             |             |   |                    |                 | -<br>                  |
|            |             | _                        |             |   |                    |                 | _                      |



### **CONTINUOUS TUBE** WS 5-B

INTEGRITY PROJECT NUMBER 19-07-05

PROJECT NOMBER 19-07-05 PROJECT NAME BICESTER HERITAGE CLIENT BICESTER HERITAGE DRILLING DATE 29/7/19 TOTAL DEPTH 2.30m DIAMETER 100mm-60mm GROUNDWATER dry EASTINGS 459224 NORTHINGS 224224

| DMMENTS Log | gged to B   | S1468                         | 8:2013      | LOGGED BY<br>CHECKED BY   |                  |                 |                               |
|-------------|-------------|-------------------------------|-------------|---|------------------|-----------------|-------------------------------|
| Samples     | Groundwater | Depth (m)                     | Graphic Log | Material Description  | SPT/KN/m2 (HV)   | Well<br>Diagram | Depth (m)                     |
|             |             | -<br>-<br>- 0.2<br>-          |             | TOPSOIL<br>Soft brown sandy CLAY. With wood fragments and roots.  |                  |                 | -<br>-<br>0.2<br>-            |
|             |             | -<br>0.4<br>-<br>-            |             | CORNBRASH FORMATION - WEATHERED<br>Firm brown silty slightly sandy gravelly CLAY. Gravel is fine to<br>coarse angular of limestone.   |                  | — Seal —        | 0.4<br>                       |
|             |             | - 0.6<br>-<br>-<br>-<br>- 0.8 |             |   | <u>√N=38</u> ∖   |                 | - 0.6<br>-<br>-<br>-<br>- 0.8 |
|             |             | -<br>-<br>1<br>-              |             | CORNBRASH FORMATION<br>Recovered as: Brownish grey silty gravel of LIMESTONE.   | _                |                 | -<br>-<br>1<br>-              |
|             |             | -<br>1.2<br>-<br>-            |             |   |                  |                 | -<br>1.2<br><br>-             |
|             |             | - 1.4<br>-<br>-<br>- 1.6      |             |   |                  | Screen          | - 1.4<br>-<br>-<br>- 1.6      |
|             |             | _<br>_<br>1.8<br>_            |             |   | <u>√N=&lt;50</u> |                 | _<br>_ 1.8<br>_               |
|             |             | -<br>2<br>                    |             | FOREST MARBLE FORMATION - MUDSTONE  | L.               |                 | -<br>- 2<br>-                 |
|             |             | - 2.2<br>-<br>- 2.4           |             | FOREST MARBLE FORMATION - LIMESTONE<br>Recovered as light brownish grey silty gravel of limestone.<br>Termination Depth at:2.3 m In rock quality strata, after 45m of no<br>penetration >/=3mm. | /N=>50 \         |                 | - 2.2<br>-<br>- 2.4           |
|             |             | _<br>_<br>2.6                 |             |   |                  |                 | 2.6                           |
|             |             | -<br>2.8<br>                  |             |   |                  |                 | -<br>2.8<br>-                 |



Chemistry to deliver results Chemtest Ltd. Depot Road Newmarket CB8 0AL Tel: 01638 606070 Email: info@chemtest.com

| Report No.:            | 19-26422-1  |                  |             |
|------------------------|---|------------------|-------------|
| Initial Date of Issue: | 09-Aug-2019   |                  |             |
| Client                 | Geo Integrity   |                  |             |
| Client Address:        | 4 Church Street<br>Maids Moreton<br>Bucks<br>MK18 1QE |                  |             |
| Contact(s):            | Danny Lusardi   |                  |             |
| Project                | Bicester Heritage, New Technical Site                 |                  |             |
| Quotation No.:         | Q18-13722   | Date Received:   | 07-Aug-2019 |
| Order No.:             |   | Date Instructed: | 07-Aug-2019 |
| No. of Samples:        | 3   |                  |             |
| Turnaround (Wkdays):   | 3   | Results Due:     | 09-Aug-2019 |
| Date Approved:         | 09-Aug-2019   |                  |             |
| Approved By:           |   |                  |             |
| M.S.                   |   |                  |             |
| Details:               | Martin Dyer, Laboratory Manager                       |                  |             |

# The right chemistry to deliver results Project: Bicester Heritage, New Technical Site

Results - Water

| Client: Geo Integrity    |              | Ch               | emtest Jo | ob No.:  | 19-26422    | 19-26422    | 19-26422    |
|--------------------------|--------------|------------------|-----------|----------|-------------|-------------|-------------|
| Quotation No.: Q18-13722 |              | Chem             | test Sam  | ple ID.: | 869357      | 869358      | 869359      |
|                          |              | Sample Location: |           |          | WS1B        | WS2B        | WS5B        |
|                          | Sample Type: |                  |           | WATER    | WATER       | WATER       |             |
|                          |              | Top Depth (m):   |           | 1.4      | 2.02        | 1.7         |             |
|                          |              |                  | Date Sa   | ampled:  | 05-Aug-2019 | 05-Aug-2019 | 05-Aug-2019 |
| Determinand              | Accred.      | SOP              | Units     | LOD      |             |             |             |
| Chemical Oxygen Demand   | U            | 1100             | mg O2/I   | 10       | 22          | 110         | 25          |
| Calcium                  | U            | 1415             | mg/l      | 5.0      | 120         | 110         | 77          |
| Potassium                | U            | 1415             | mg/l      | 0.50     | 3.2         | 14          | 4.6         |
| Magnesium                | U            | 1415             | mg/l      | 0.50     | 4.8         | 8.5         | 2.5         |
| Sodium                   | U            | 1415             | mg/l      | 0.50     | 32          | 50          | 54          |
| Total Hardness as CaCO3  | U            | 1270             | mg/l      | 15       | 320         | 300         | 200         |
| Arsenic (Dissolved)      | U            | 1450             | µg/l      | 1.0      | 3.3         | 2.5         | 1.3         |
| Boron (Dissolved)        | U            | 1450             | µg/l      | 20       | 230         | 360         | 180         |
| Barium (Dissolved)       | U            | 1450             | µg/l      | 5.0      | 36          | 41          | 26          |
| Cadmium (Dissolved)      | U            | 1450             | µg/l      | 0.080    | < 0.080     | < 0.080     | < 0.080     |
| Chromium (Dissolved)     | U            | 1450             | µg/l      | 1.0      | 1.6         | 3.2         | 2.3         |
| Copper (Dissolved)       | U            | 1450             | µg/l      | 1.0      | < 1.0       | 2.7         | 1.4         |
| Iron (Dissolved)         | Ν            | 1450             | µg/l      | 20       | 270         | 230         | 180         |
| Mercury (Dissolved)      | U            | 1450             | µg/l      | 0.50     | < 0.50      | < 0.50      | < 0.50      |
| Nickel (Dissolved)       | U            | 1450             | µg/l      | 1.0      | 2.3         | 2.9         | 1.6         |
| Lead (Dissolved)         | U            | 1450             | µg/l      | 1.0      | < 1.0       | < 1.0       | < 1.0       |
| Selenium (Dissolved)     | U            | 1450             | µg/l      | 1.0      | < 1.0       | 2.4         | 5.1         |
| Zinc (Dissolved)         | U            | 1450             | µg/l      | 1.0      | 2.1         | < 1.0       | 2.1         |
| TPH >C6-C10              | Ν            | 1670             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| TPH >C10-C21             | Ν            | 1670             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| TPH >C21-C40             | N            | 1670             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Total TPH >C6-C40        | U            | 1670             | µg/l      | 10       | < 10        | < 10        | < 10        |
| Naphthalene              | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Acenaphthylene           | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Acenaphthene             | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Fluorene                 | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Phenanthrene             | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Anthracene               | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Fluoranthene             | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Pyrene                   | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Benzo[a]anthracene       | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Chrysene                 | Ν            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Benzo[b]fluoranthene     | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Benzo[k]fluoranthene     | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Benzo[a]pyrene           | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Indeno(1,2,3-c,d)Pyrene  | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Dibenz(a,h)Anthracene    | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Benzo[g,h,i]perylene     | U            | 1700             | µg/l      | 0.10     | < 0.10      | < 0.10      | < 0.10      |
| Total Of 16 PAH's        | Ν            | 1700             | µg/l      | 2.0      | < 2.0       | < 2.0       | < 2.0       |
| Benzene                  | U            | 1760             | µg/l      | 1.0      | < 1.0       | < 1.0       | < 1.0       |



Results - Water

| Client: Geo Integrity    | Chemtest Job No.: |            |                  | 19-26422 | 19-26422    | 19-26422    |             |
|--------------------------|-------------------|------------|------------------|----------|-------------|-------------|-------------|
| Quotation No.: Q18-13722 |                   | Chemtest S |                  | ple ID.: | 869357      | 869358      | 869359      |
|                          |                   | 5          | Sample Location: |          | WS1B        | WS2B        | WS5B        |
|                          |                   |            | Sampl            | e Type:  | WATER       | WATER       | WATER       |
|                          |                   | Top Depth  |                  | oth (m): | 1.4         | 2.02        | 1.7         |
|                          |                   |            | Date Sa          | ampled:  | 05-Aug-2019 | 05-Aug-2019 | 05-Aug-2019 |
| Determinand              | Accred.           | SOP        | Units            | LOD      |             |             |             |
| Toluene                  | U                 | 1760       | µg/l             | 1.0      | < 1.0       | < 1.0       | < 1.0       |
| Ethylbenzene             | U                 | 1760       | µg/l             | 1.0      | < 1.0       | < 1.0       | < 1.0       |
| m & p-Xylene             | U                 | 1760       | µg/l             | 1.0      | < 1.0       | < 1.0       | < 1.0       |
| o-Xylene                 | U                 | 1760       | µg/l             | 1.0      | < 1.0       | < 1.0       | < 1.0       |



### **Test Methods**

| SOP  | Title   | Parameters included  | Method summary  |
|------|---|--|---|
| 1100 | Chemical Oxygen Demand  | Chemical Oxygen demand (COD)   | Dichromate oxidation of organic matter in<br>sample followed by colorimetric determination<br>of residual Cr[VI].                                     |
| 1270 | Total Hardness of Waters  | Total hardness   | Calculation applied to calcium and magnesium results, expressed as mg I-1 CaCO3 equivalent.   |
| 1415 | Cations in Waters by ICP-MS   | Sodium; Potassium; Calcium; Magnesium  | Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).  |
| 1450 | Metals in Waters by ICP-MS  | Metals, including: Antimony; Arsenic; Barium;<br>Beryllium; Boron; Cadmium; Chromium; Cobalt;<br>Copper; Lead; Manganese; Mercury;<br>Molybdenum; Nickel; Selenium; Tin; Vanadium;<br>Zinc   | determination by inductively coupled plasma   |
| 1670 | Total Petroleum Hydrocarbons<br>(TPH) in Waters by GC-FID                   | TPH (C6–C40); optional carbon banding, e.g. 3-<br>band – GRO, DRO & LRO  | Pentane extraction / GC FID detection   |
| 1700 | Speciated Polynuclear<br>Aromatic Hydrocarbons (PAH)<br>in Waters by GC-FID | Acenaphthene; Acenaphthylene; Anthracene;<br>Benzo[a]Anthracene; Benzo[a]Pyrene;<br>Benzo[b]Fluoranthene; Benzo[ghi]Perylene;<br>Benzo[k]Fluoranthene; Chrysene;<br>Dibenz[ah]Anthracene; Fluoranthene; Fluorene;<br>Indeno[123cd]Pyrene; Naphthalene;<br>Phenanthrene; Pyrene | Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)                  |
| 1760 | Volatile Organic Compounds<br>(VOCs) in Waters by<br>Headspace GC-MS        | Volatile organic compounds, including BTEX<br>and halogenated Aliphatic/Aromatics. (cf.<br>USEPA Method 8260)  | Automated headspace gas chromatographic<br>(GC) analysis of water samples with mass<br>spectrometric (MS) detection of volatile organic<br>compounds. |

The right chemistry to deliver results

### **Report Information**

### Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation The results relate only to the items tested Uncertainty of measurement for the determinands tested are available upon request None of the results in this report have been recovery corrected All results are expressed on a dry weight basis The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols For all other tests the samples were dried at < 37°C prior to analysis All Asbestos testing is performed at the indicated laboratory Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### Sample Deviation Codes

- A Date of sampling not supplied
- B Sample age exceeds stability time (sampling to extraction)
- C Sample not received in appropriate containers
- D Broken Container
- E Insufficient Sample (Applies to LOI in Trommel Fines Only)

### Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt All water samples will be retained for 14 days from the date of receipt Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



# RIDGE



www.ridge.co.uk