

# M5 Junction 10 Improvements Scheme

**Environmental Statement**

**Appendix 6.1 Noise Chapter figures and data**

**Part 1 of 3**

**TR010063 – APP 6.15**

Regulation 5 (2) (a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Volume 6  
December 2023



**Gloucestershire**  
COUNTY COUNCIL

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# Infrastructure Planning Planning Act 2008

## The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

### M5 Junction 10 Improvements Scheme Development Consent Order 202[x]

#### 6.15 Environmental Statement:

#### Appendix 6.1 Noise Chapter figures and data - Part 1 of 3

|   |   |
|---|---|
| <b>Regulation Number:</b>                     | Regulation 5(2)(a)                              |
| <b>Planning Inspectorate Scheme Reference</b> | TR010063  |
| <b>Application Document Reference</b>         | TR010063/APP/6.15                               |
| <b>Author:</b>                                | M5 Junction 10 Improvements Scheme Project Team |

| <b>Version</b> | <b>Date</b>   | <b>Status of Version</b> |
|----------------|---------------|--------------------------|
| Rev 0          | December 2023 | DCO Application          |
|                |               |                          |
|                |               |                          |
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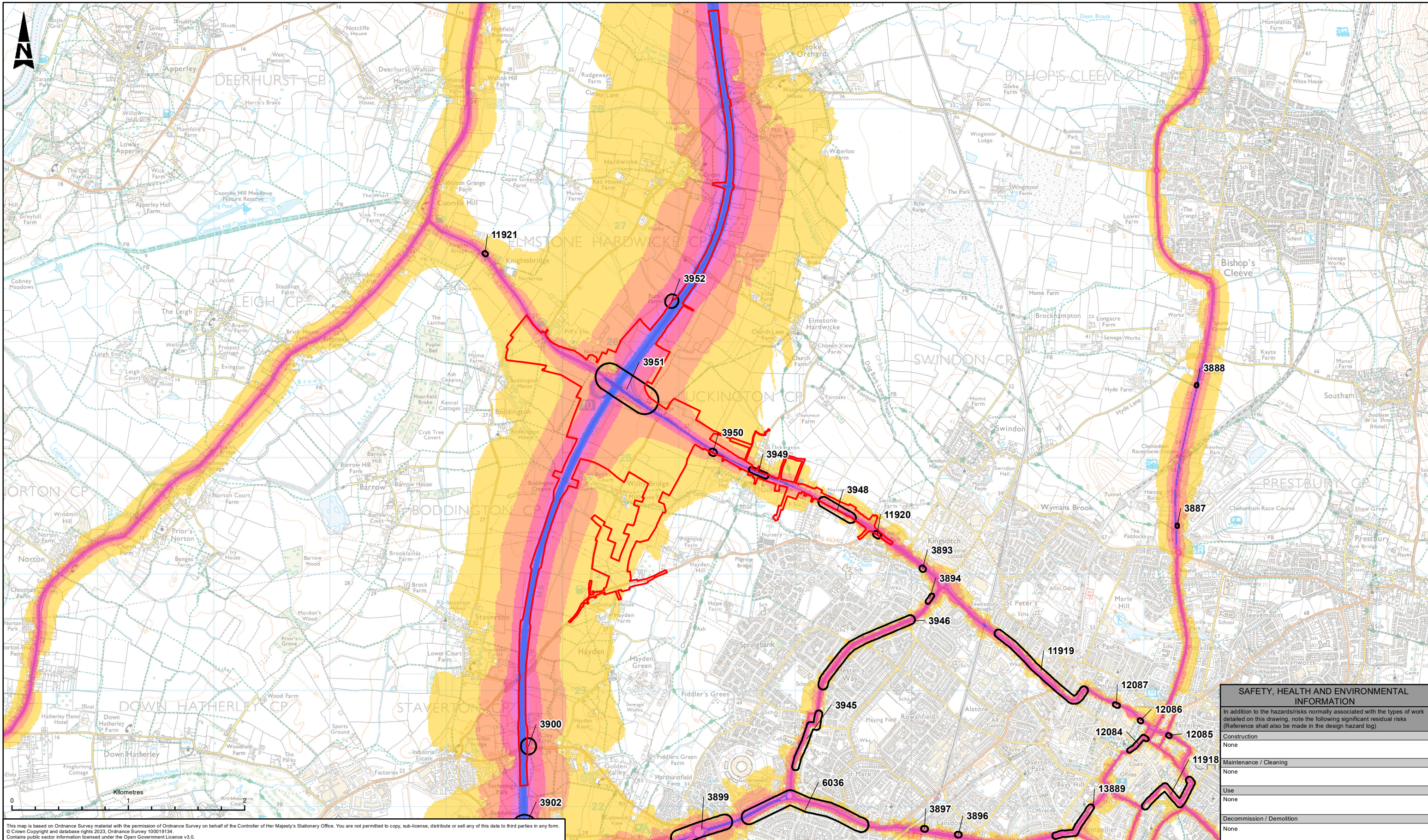
# Contents

| Chapter                       | Page     |
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| 1. <b>Schedule of figures</b> | <b>5</b> |

# 1. Schedule of figures

This appendix is to support the Chapter 6 – Noise and Vibration (application document TR010063 – APP 6.4) of the Environmental Statement for the Scheme, and includes the following figures.

| Figure reference | Document title   | Sheet  | Document number                  | Revision |
|------------------|--|--------|----------------------------------|----------|
| 6-1              | Baseline noise information - daytime (L <sub>aeq</sub> , 16hr)   | 1 of 1 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000016 | 0        |
| 6-2              | Baseline noise information - night-time (L <sub>night</sub> )    | 1 of 1 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000017 | 0        |
| 6-3              | Noise Study Areas and survey locations                           | 1 of 1 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000018 | 0        |
| 6-4              | Construction noise impacts - earthworks                          | 1 of 7 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000019 | 0        |
| 6-4              | Construction noise impacts - earthworks                          | 2 of 7 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000019 | 0        |
| 6-4              | Construction noise impacts - earthworks                          | 3 of 7 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000019 | 0        |
| 6-4              | Construction noise impacts - earthworks                          | 4 of 7 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000019 | 0        |
| 6-4              | Construction noise impacts - earthworks                          | 5 of 7 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000019 | 0        |
| 6-4              | Construction noise impacts - earthworks                          | 6 of 7 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000019 | 0        |
| 6-4              | Construction noise impacts - earthworks                          | 7 of 7 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000019 | 0        |
| 6-5              | Operation phase Do Minimum opening year - daytime noise levels   | 1 of 2 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000002 | 0        |
| 6-5              | Operation phase Do Minimum opening year - daytime noise levels   | 2 of 2 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000002 | 0        |
| 6-6              | Operation phase Do Something opening year - daytime noise levels | 1 of 2 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000004 | 0        |
| 6-6              | Operation phase Do Something opening year - daytime noise levels | 2 of 2 | GCCM5J10-ATK-ENV-ZZ-GS-GI-000004 | 0        |



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**LEGEND**

ORDER LIMITS

NOISE IMPORTANT AREAS

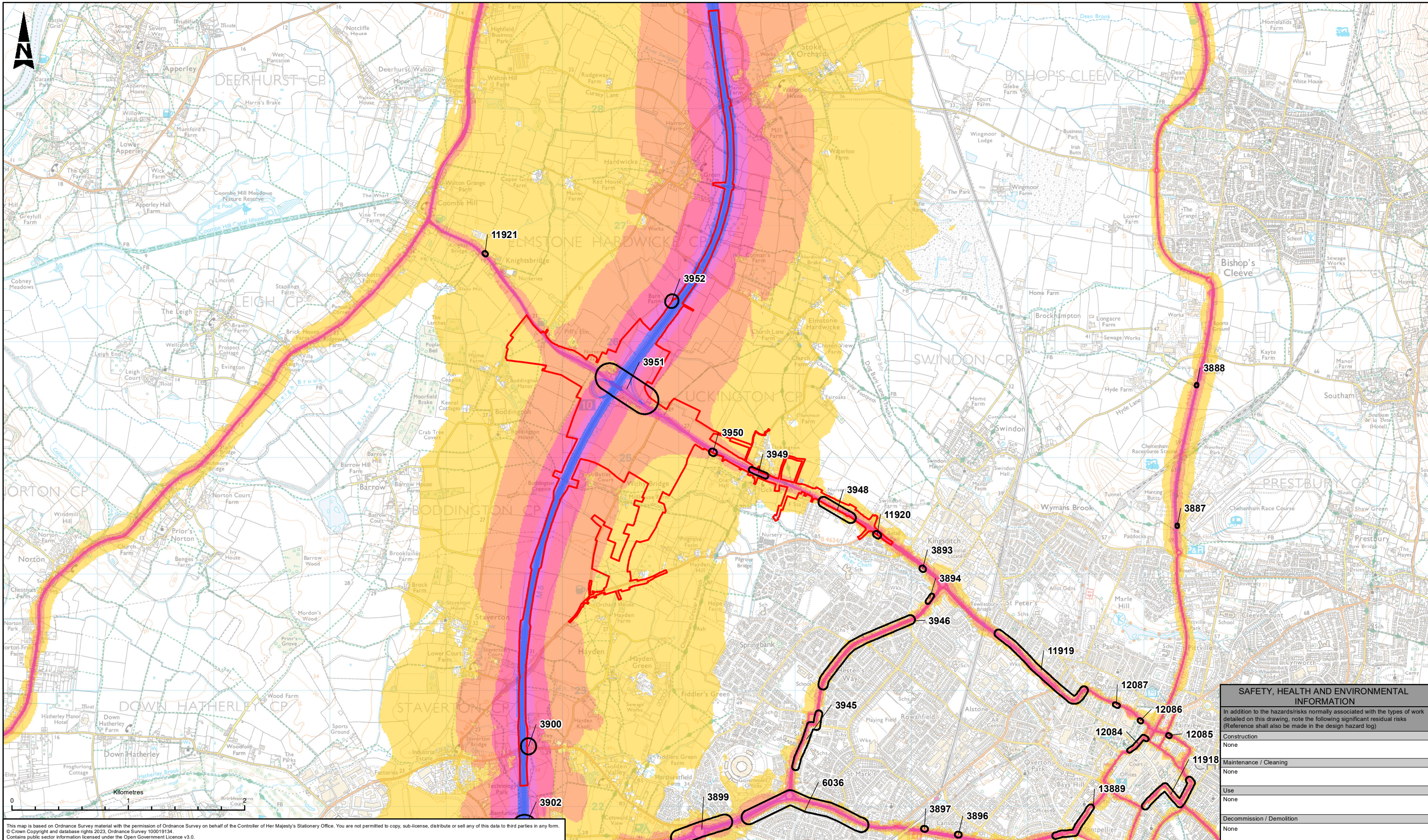
**ROAD NOISE  $L_{Aeq, 16h}$  (07:00-23:00)**

- 55.0 - 59.9 dB
- 60.0 - 64.9 dB
- 65.0 - 69.9 dB
- 70.0 - 74.9 dB
- 75 dB OR GREATER

NOISE LEVEL SOURCE DATA ORIGINATES FROM DEFRA ROUND 3 STRATEGIC NOISE MAPPING

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

|  |  |   |                  |  |
|--|--|---|------------------|--|
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| <p>Client<br/><b>Gloucestershire COUNTY COUNCIL</b></p>  |  | <p>Drawing Title<br/><b>FIGURE 6-1<br/>BASELINE NOISE INFORMATION - DAYTIME<br/>(<math>L_{Aeq, 16h}</math>)</b></p> |                  | <p>Drawing Number</p>  |
| <p>Project<br/><b>GCCM5J10 - ATK - ENV</b></p>   |  | <p>Original<br/><b>ZZ - GS - GI - 000016</b></p>  |                  | <p>Volume<br/><b>1 of 1</b></p>                                    |
| <p>Location<br/><b>A3</b></p>  |  | <p>Scale<br/><b>1:30,000</b></p>  |                  | <p>Project Ref.<br/><b>5214106</b></p>                             |
| <p>Status<br/><b>A1</b></p>  |  | <p>Revision<br/><b>P01</b></p>  |                  | <p>Issue Date<br/><b>21/08/23</b></p>                              |



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**LEGEND**

ORDER LIMITS

NOISE IMPORTANT AREAS

**ROAD NOISE L<sub>night</sub> (23:00-07:00)**

- 50.0 - 54.9 dB
- 55.0 - 59.9 dB
- 60.0 - 64.9 dB
- 65.0 - 69.9 dB
- 70.0 dB OR GREATER

NOISE LEVEL SOURCE DATA ORIGINATES FROM DEFRA ROUND 3 STRATEGIC NOISE MAPPING

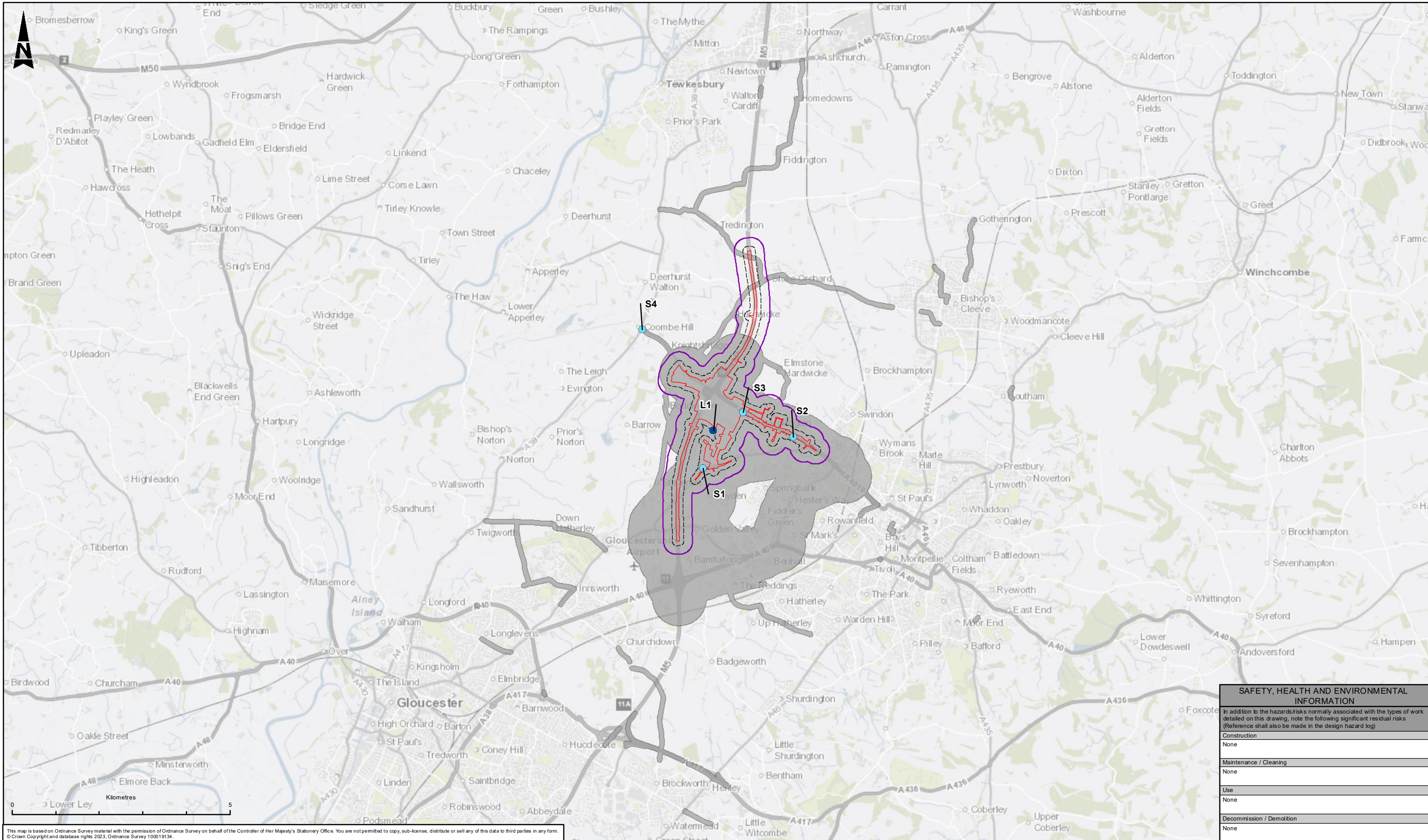
| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     | P01      | JM    | VW      | CC       | LJ         | 21/08/23   |

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|--|--|
| <b>Project Title</b><br>M5 Junction 10 Improvements Scheme   |  |
| <b>Drawing Title</b><br>FIGURE 6-2<br>BASELINE NOISE INFORMATION - NIGHT-TIME<br>(L <sub>night</sub> ) |  |
| <b>Drawing Number</b>  | Project: GCCM5J10 - ATK - ENV<br>ZZ - GS - GI - 000017 |
| <b>Original Size</b> : A3  | <b>Scale</b> : 1:30,000                                |
| <b>Project Ref</b> : 5214106   | <b>Sheet</b> : 1 of 1                                  |
| <b>Rev</b> : P01   |  |



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|---|------|
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| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

**LEGEND**

- ORDER LIMITS
- CONSTRUCTION VIBRATION STUDY AREA
- CONSTRUCTION NOISE STUDY AREA
- OPERATIONAL NOISE STUDY AREA

**MONITORING SURVEY LOCATIONS**

- SHORT TERM
- LONG TERM

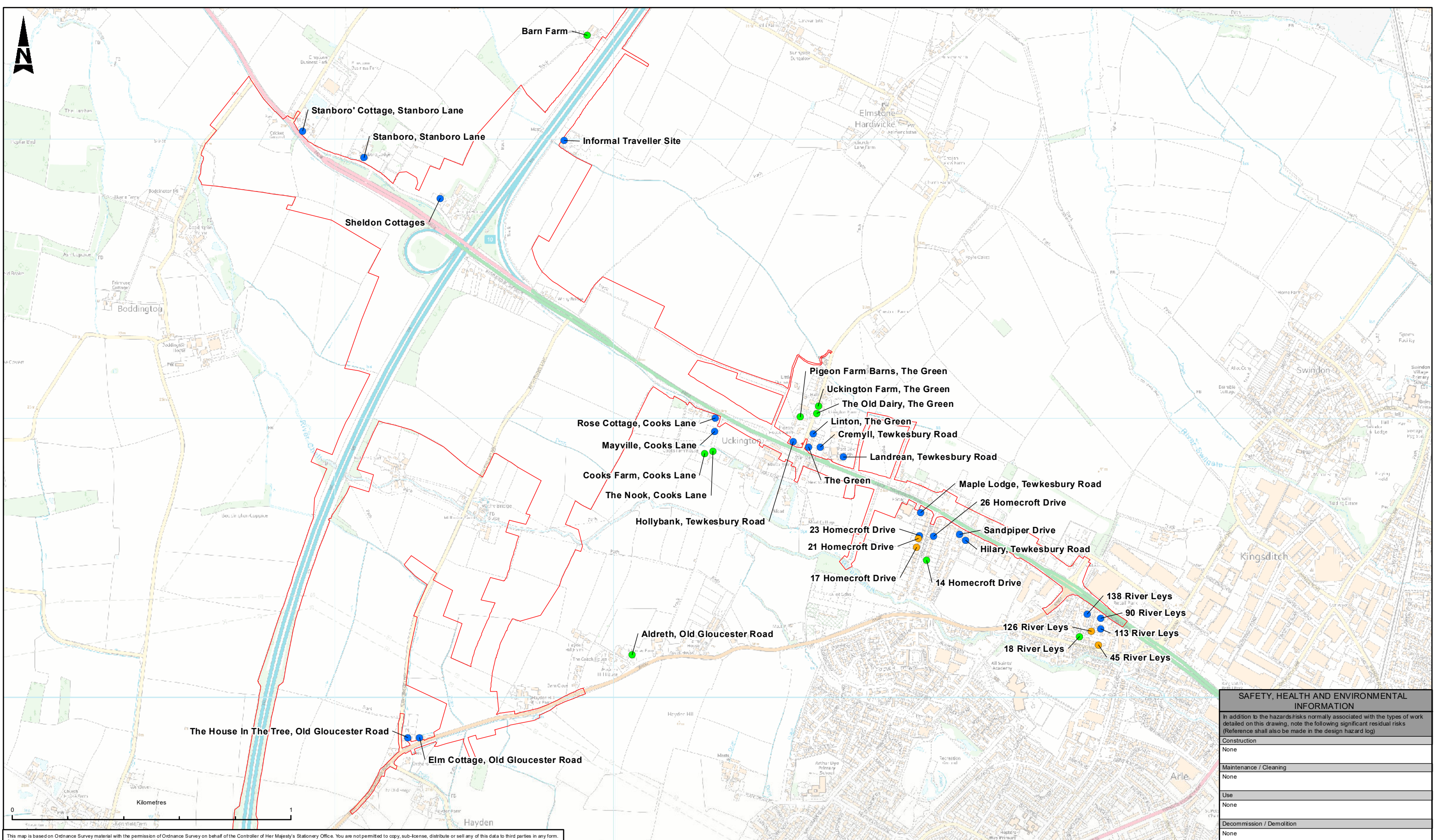
| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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| PUBLISHED   | A1     |          | JM    | VW      | CC       | LJ         | 22/09/23   |

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|-------------------|-----------------|--|---------------------------|
| Project Title     |                 | M5 Junction 10 Improvements Scheme                   |                           |
| Drawing Title     |                 | FIGURE 6-3<br>NOISE STUDY AREAS AND SURVEY LOCATIONS |                           |
| Drawing Number    |                 | GCCM5J10 - ATK - ENV<br>ZZ - GS - GI - 000018        |                           |
| Original Size: A3 | Scale: 1:80,000 | Project Ref: 5214106                                 | Sheet: 1 of 1<br>Rev: P01 |





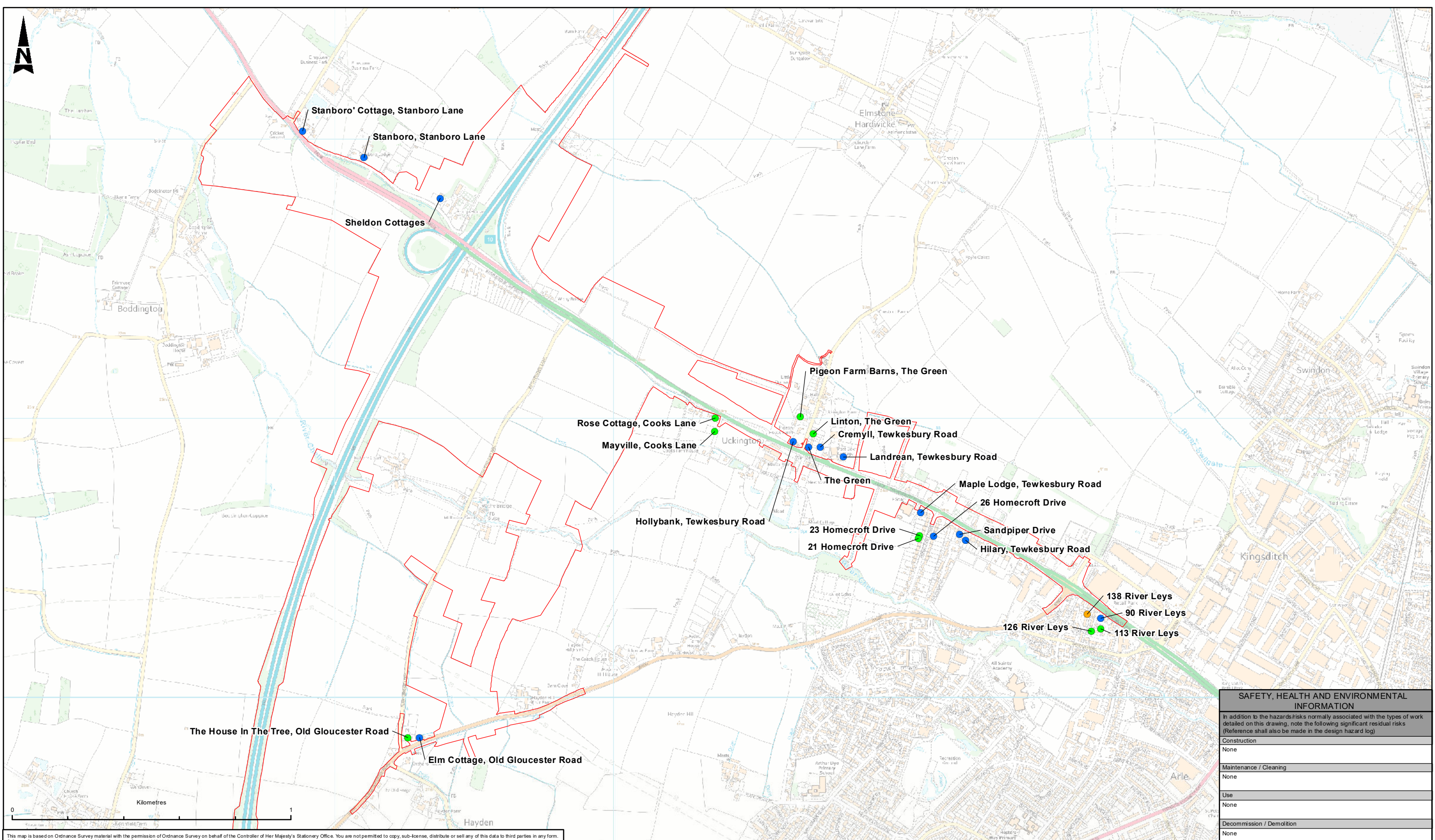
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|---|------|
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| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| LEGEND  |                                 |
|---|---------------------------------|
|   | ORDER LIMITS                    |
| <b>CONSTRUCTION NOISE IMPACT - EARTHWORKS</b> |                                 |
|   | DAY, EVENING & NIGHT EXCEEDANCE |
|   | EVENING AND NIGHT EXCEEDANCE    |
|   | NIGHT EXCEEDANCE                |

Showing the representative receptors for which there is an exceedance of the SOAEL threshold (a moderate or major impact) in any time period during scheme earthworks

|             |          |                                   |         |   |            |  |                  |
|-------------|----------|-----------------------------------|---------|---|------------|--|------------------|
| Description |          | Drawing Suitability               |         | Status  |            | Project Title  |                  |
| Status      | Revision | Drawn                             | Checked | Reviewed  | Authorised | Issue Date   | <b>PUBLISHED</b> |
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| Description |          | Copyright © Atkins Limited (2023) |         | Tel: 08000 514 514<br>www.atkinsglobal.com                            |            | FIGURE 6-4<br>CONSTRUCTION NOISE IMPACTS -<br>EARTHWORKS |                  |
| Description |          | Client                            |         |   |            | Drawing Number   |                  |
| Description |          | Project                           |         | Original  |            | Volume   |                  |
| Description |          | GCCM5J10 - ATK - ENV              |         | ZZ - GS - GI - 000019   |            |  |                  |
| Description |          | Location                          |         | Type  |            | Rate   |                  |
| Description |          | Scale                             |         | Project Ref   |            | Sheet  |                  |
| Description |          | A3                                |         | 1:12,500  |            | 5214106  |                  |
| Description |          | Issue Date                        |         | Rev   |            | Number   |                  |
| Description |          | A1                                |         | R01   |            | 220823   |                  |
| Description |          | Drawn                             |         | Checked   |            | Reviewed   |                  |
| Description |          | JM                                |         | VW  |            | CC   |                  |
| Description |          | Authorised                        |         | Issue Date  |            | 220823   |                  |
| Description |          | LJ                                |         | 220823  |            |  |                  |



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|---|------|
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| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

**LEGEND**

- ORDER LIMITS
- CONSTRUCTION NOISE IMPACT - DRAINAGE
  - DAY, EVENING & NIGHT EXCEEDANCE
  - EVENING AND NIGHT EXCEEDANCE
  - NIGHT EXCEEDANCE

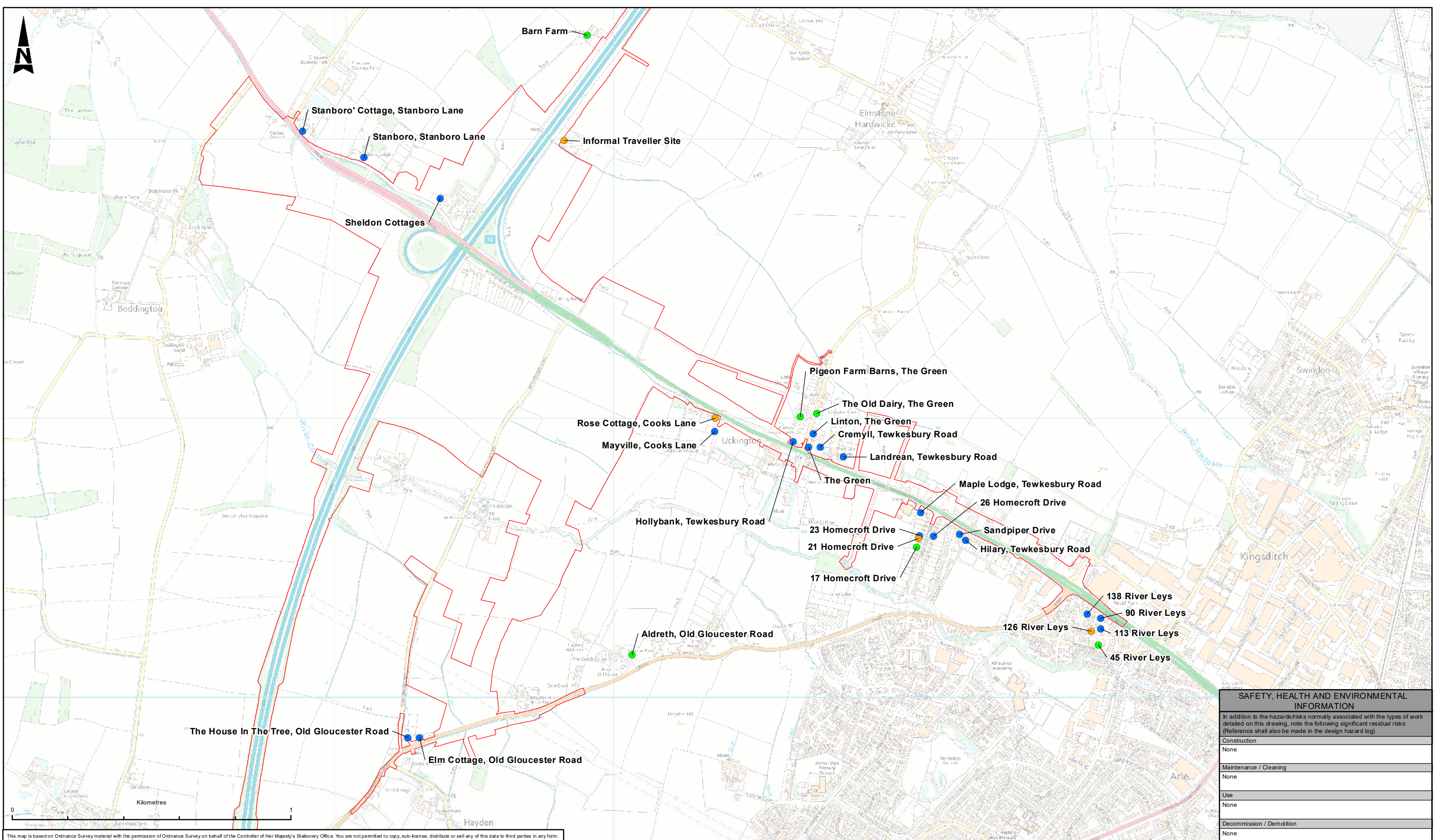
Showing the representative receptors for which there is an exceedance of the SOAEL threshold (a moderate or major impact) in any time period during scheme drainage works

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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|-------------------|-----------------|--|---------------|
| Project Title     |                 | M5 Junction 10 Improvements Scheme                     |               |
| Drawing Title     |                 | FIGURE 6-4<br>CONSTRUCTION NOISE IMPACTS -<br>DRAINAGE |               |
| Drawing Number    |                 | GCCM5J10 - ATK - ENV<br>ZZ - GS - GI - 000019          |               |
| Original Size: A3 | Scale: 1:12,500 | Project Ref: 5214106                                   | Sheet: 2 of 7 |
| Rev: P01          |                 |  |               |

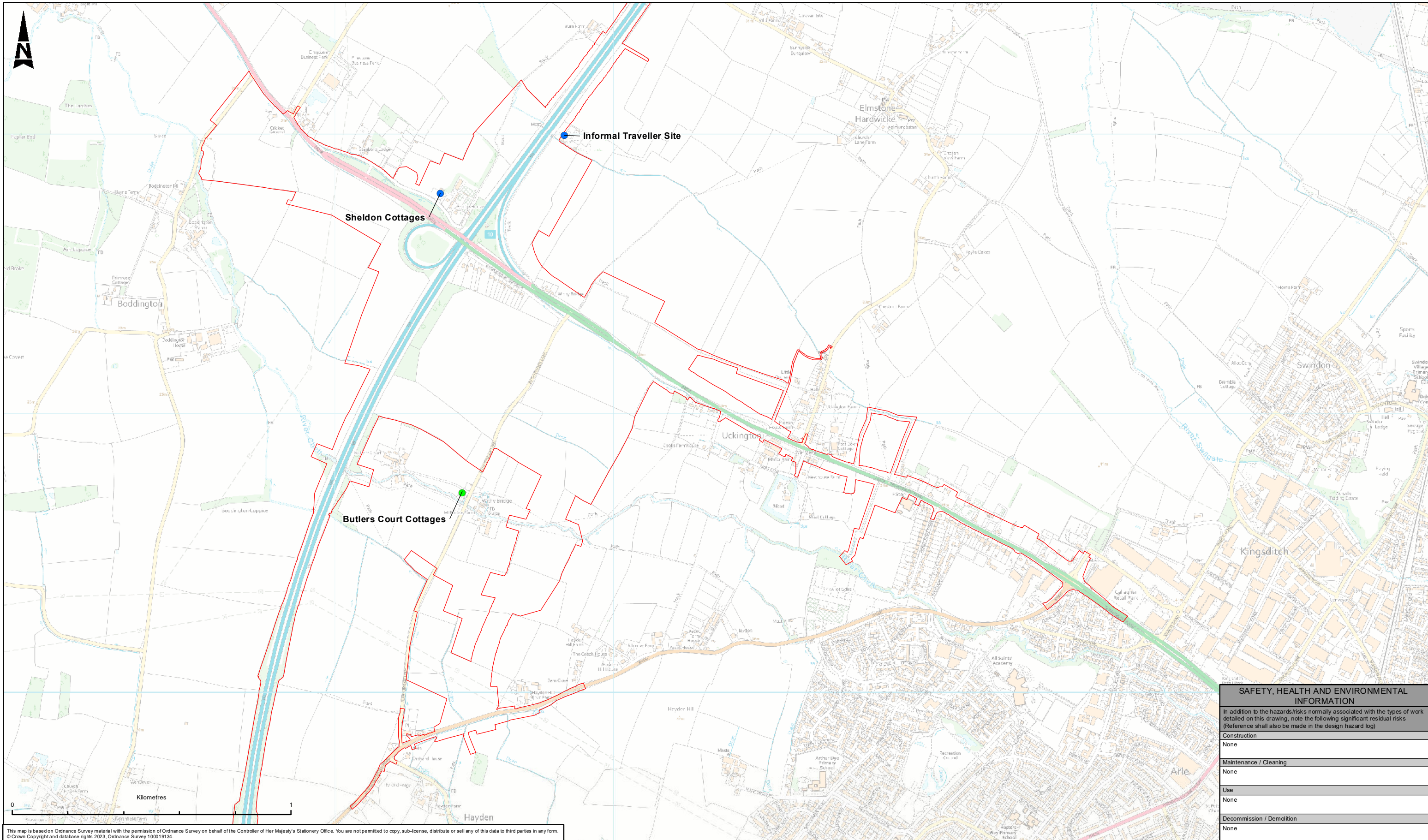


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| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| LEGEND  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| <div style="border: 1px solid red; width: 20px; height: 10px; display: inline-block; margin-right: 5px;"></div> ORDER LIMITS  |  |  |  |  |  |  |  |
| <b>CONSTRUCTION NOISE IMPACT - PAVEMENT AND PLANING</b>   |  |  |  |  |  |  |  |
| <div style="color: blue; font-size: 12px;">●</div> DAY, EVENING & NIGHT EXCEEDANCE  |  |  |  |  |  |  |  |
| <div style="color: orange; font-size: 12px;">●</div> EVENING AND NIGHT EXCEEDANCE   |  |  |  |  |  |  |  |
| <div style="color: green; font-size: 12px;">●</div> NIGHT EXCEEDANCE  |  |  |  |  |  |  |  |
| Showing the representative receptors for which there is an exceedance of the SOAEL threshold (a moderate or major impact) in any time period during scheme pavement and planing works |  |  |  |  |  |  |  |

|             |          |                     |         |          |            |               |  |
|-------------|----------|---------------------|---------|----------|------------|---------------|--|
| Description |          | Drawing Suitability |         | Status   |            | Project Title |  |
| Status      | Revision | Drawn               | Checked | Reviewed | Authorised | Issue Date    | <b>PUBLISHED</b><br><b>A1</b><br><b>M5 Junction 10 Improvements Scheme</b>   |
| Description |          |                     |         |          |            |               |  |
| Description |          | Drawing Suitability |         | Status   |            | Project Title |  |
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| Description |          |                     |         |          |            |               |  |
| Description |          | Drawing Suitability |         | Status   |            | Project Title |  |
| Status      | Revision | Drawn               | Checked | Reviewed | Authorised | Issue Date    | <b>Gloucestershire</b><br>COUNTY COUNCIL   |
| Description |          |                     |         |          |            |               |  |
| Description |          | Drawing Suitability |         | Status   |            | Project Title |  |
| Status      | Revision | Drawn               | Checked | Reviewed | Authorised | Issue Date    | Project: GCCM5J10 - ATK - ENV<br>Originator: ZZ - GS - GI - 000019<br>Volume: 3 of 7   |
| Description |          |                     |         |          |            |               |  |
| Description |          | Drawing Suitability |         | Status   |            | Project Title |  |
| Status      | Revision | Drawn               | Checked | Reviewed | Authorised | Issue Date    | Location: A3<br>Scale: 1:12,500<br>Project Ref: 5214106<br>Sheet: 3 of 7<br>Rev: P01   |
| Description |          |                     |         |          |            |               |  |



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|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| LEGEND   |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| [Red Outline] ORDER LIMITS   |  |  |  |  |  |  |  |
| CONSTRUCTION NOISE IMPACT - STOCKPILING  |  |  |  |  |  |  |  |
| [Blue Dot] DAY, EVENING & NIGHT EXCEEDANCE   |  |  |  |  |  |  |  |
| [Green Dot] NIGHT EXCEEDANCE   |  |  |  |  |  |  |  |
| Showing the representative receptors for which there is an exceedance of the SOAEL threshold (a moderate or major impact) in any time period during scheme stockpiling works |  |  |  |  |  |  |  |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |

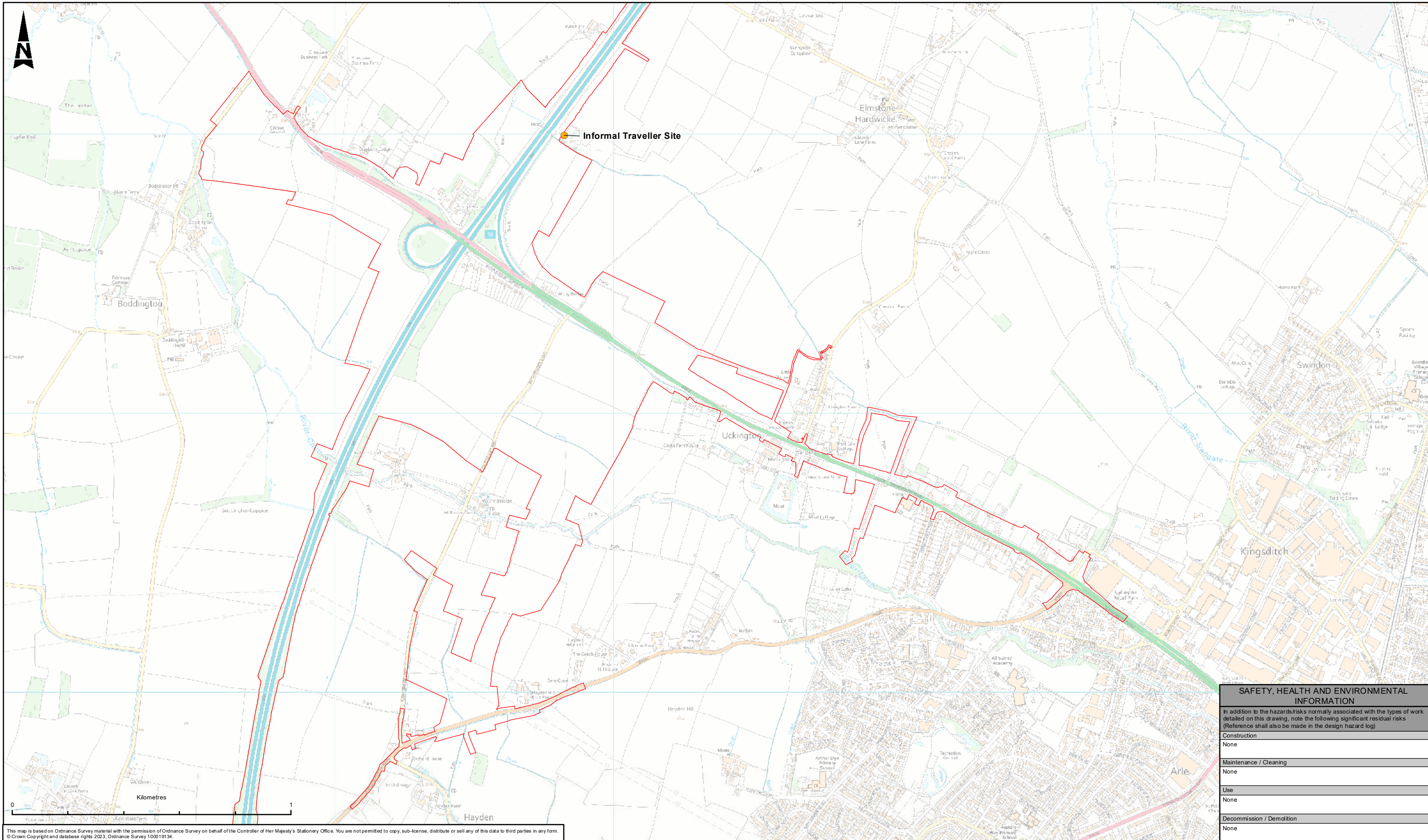
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|-------------------|-----------------|---|---------------------------|
| Project Title     |                 | M5 Junction 10 Improvements Scheme                        |                           |
| Drawing Title     |                 | FIGURE 6-4<br>CONSTRUCTION NOISE IMPACTS -<br>STOCKPILING |                           |
| Drawing Number    |                 | GCCM5J10 - ATK - ENV<br>ZZ - GS - GI - 000019             |                           |
| Original Size: A3 | Scale: 1:12,500 | Project Ref: 5214106                                      | Sheet: 4 of 7<br>Rev: P01 |



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| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

**LEGEND**

ORDER LIMITS

**CONSTRUCTION NOISE IMPACT - CULVERTS**

● EVENING AND NIGHT EXCEEDANCE

Showing the representative receptors for which there is an exceedance of the SOAEL threshold (a moderate or major impact) in any time period during scheme culvert works

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |

Drawing Suitability: **PUBLISHED**

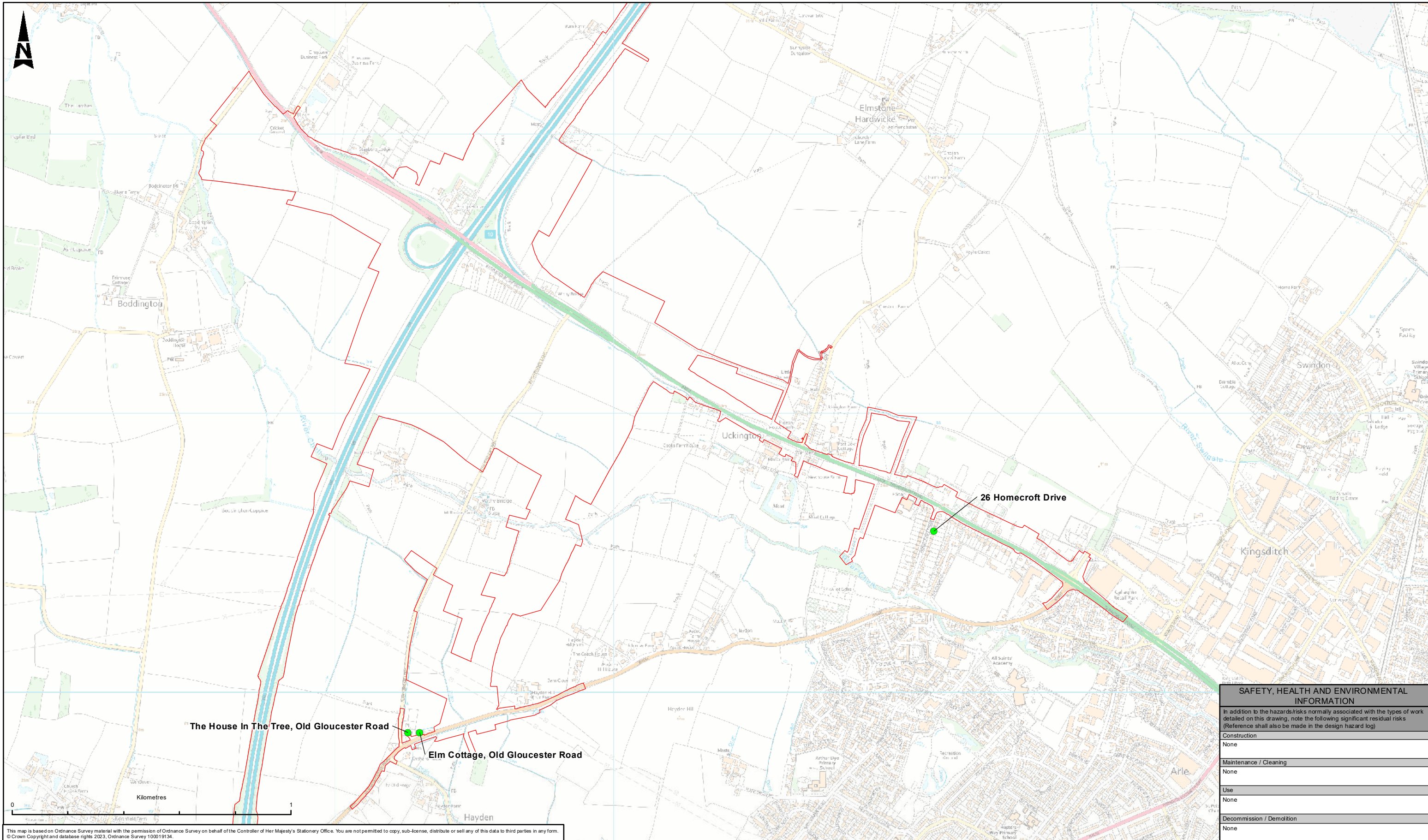
Status: **A1**

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|  |  |
|--|--|
| Project Title: <b>M5 Junction 10 Improvements Scheme</b>               |  |
| Drawing Title: <b>FIGURE 6-4 CONSTRUCTION NOISE IMPACTS - CULVERTS</b> |  |
| Project: <b>GCCM5J10 - ATK - ENV</b>                                   | Original: <b>ZZ - GS - GI - 000019</b> |
| Location: <b>GL1 2TH</b>   | Volume: <b>5 of 7</b>                  |
| Scale: <b>1:12,500</b>   | Project Ref: <b>5214106</b>            |
| Sheet: <b>5 of 7</b>   | Rev: <b>P01</b>                        |



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| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

**LEGEND**

- ORDER LIMITS
- CONSTRUCTION NOISE IMPACT - PONDS
- NIGHT EXCEEDANCE

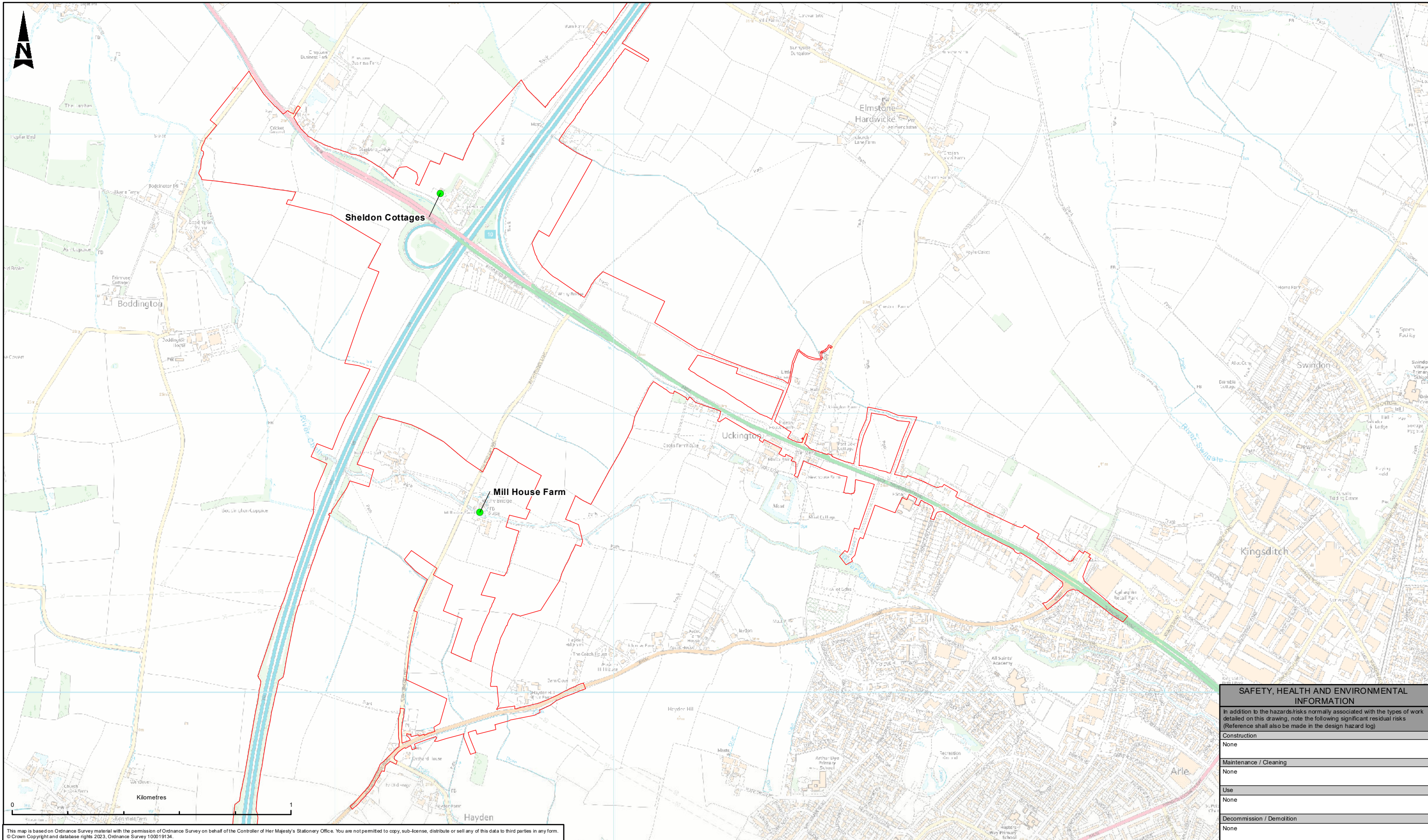
Showing the representative receptors for which there is an exceedance of the SOAEL threshold (a moderate or major impact) in any time period during scheme pond works

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
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COUNTY COUNCIL

|                   |                 |  |                        |
|-------------------|-----------------|--|------------------------|
| Project Title     |                 | M5 Junction 10 Improvements Scheme   |                        |
| Drawing Title     |                 | FIGURE 6-4<br>CONSTRUCTION NOISE IMPACTS -<br>PONDS                            |                        |
| Drawing Number    |                 | Project   Originator   Volume<br>GCCM5J10 - ATK - ENV<br>ZZ - GS - GI - 000019 |                        |
| Original Size: A3 | Scale: 1:12,500 | Project Ref: 5214106   | Sheet: 6 of 7 Rev: P01 |



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| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

**LEGEND**

- ORDER LIMITS
- CONSTRUCTION NOISE IMPACT - BRIDGEWORKS
- NIGHT EXCEEDANCE

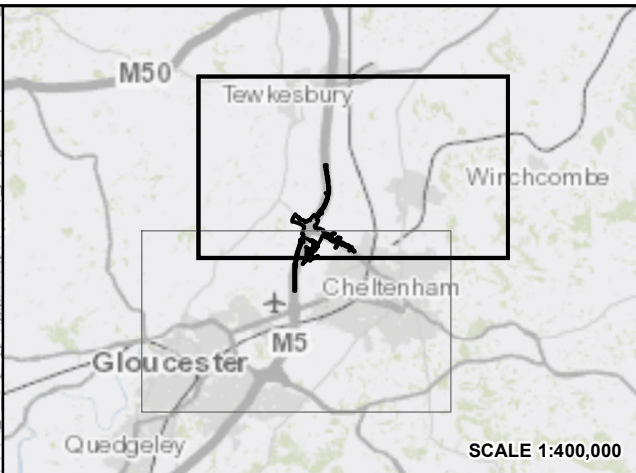
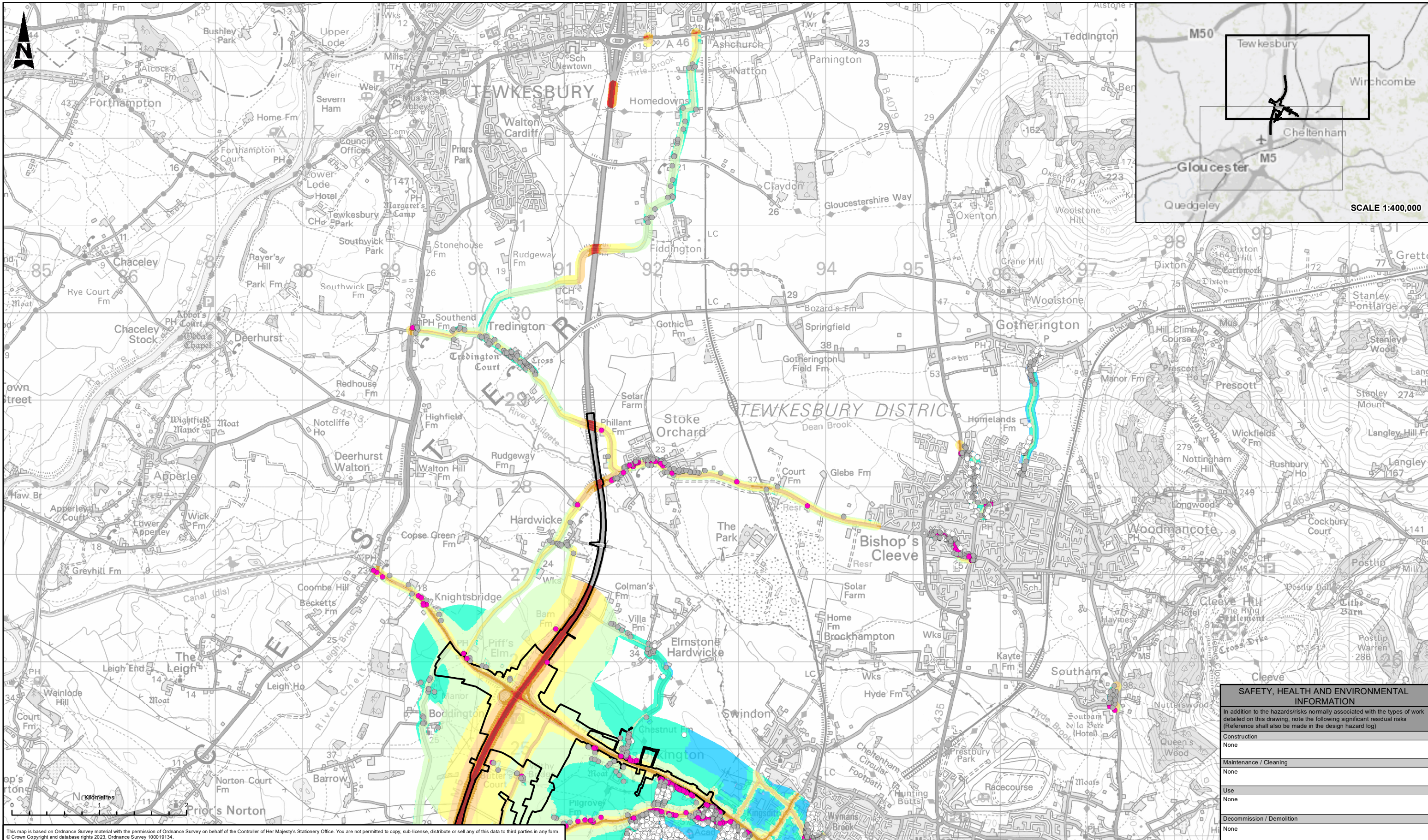
Showing the representative receptors for which there is an exceedance of the SOAEL threshold (a moderate or major impact) in any time period during scheme bridgeworks

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     | P01      | JM    | VW      | CC       | LJ         | 22/08/23   |

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|-------------------|-----------------|---|---------------|
| Project Title     |                 | M5 Junction 10 Improvements Scheme                        |               |
| Drawing Title     |                 | FIGURE 6-4<br>CONSTRUCTION NOISE IMPACTS -<br>BRIDGEWORKS |               |
| Drawing Number    |                 | GCCM5J10 - ATK - ENV<br>ZZ - GS - GI - 000019             |               |
| Original Size: A3 | Scale: 1:12,500 | Project Ref: 5214106                                      | Sheet: 7 of 7 |
| Rev: P01          |                 |   |               |



**LEGEND**

**ORDER LIMITS**

**POLICY SIGNIFICANCE**

- above SOAEL
- between LOAEL and SOAEL
- below LOAEL

**ROAD TRAFFIC NOISE LEVEL dB L<sub>A10,18hr</sub>**

|                              |                |
|------------------------------|----------------|
| <math><35.0\text{ dB}</math> | 55.0 - 59.9 dB |
| 35.0 - 39.9 dB               | 60.0 - 64.9 dB |
| 40.0 - 44.9 dB               | 65.0 - 69.9 dB |
| 45.0 - 49.9 dB               | 70.0 - 74.9 dB |
| 50.0 - 54.9 dB               | 75.0 - 79.9 dB |
|                              | >=80.0 dB      |

| Description | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|----------|-------|---------|----------|------------|------------|
|             |          |       |         |          |            |            |
|             |          |       |         |          |            |            |
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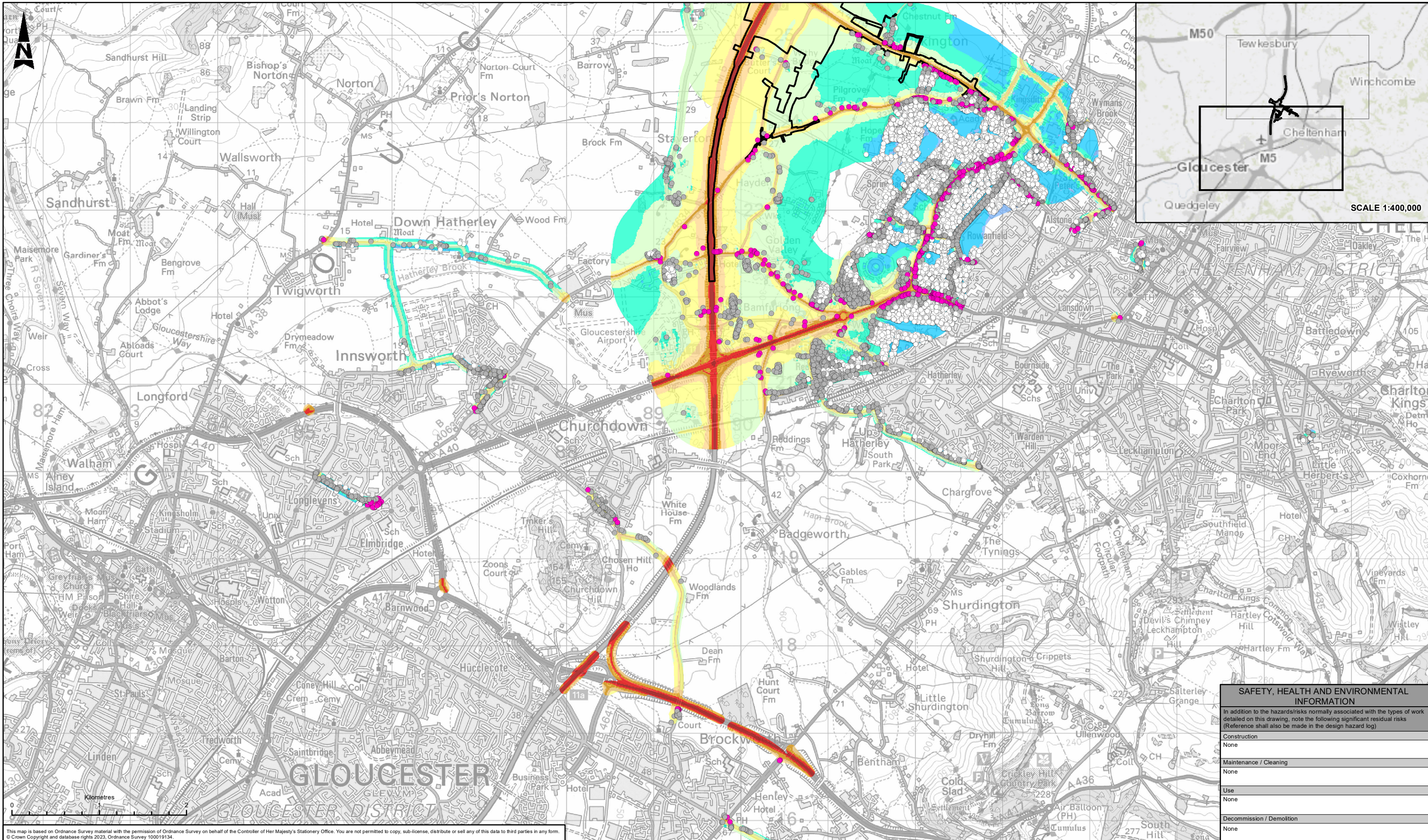
**gloucestershire**  
COUNTY COUNCIL

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

|   |                      |  |
|---|----------------------|--|
| <b>PROJECT</b>  | <b>STATUS</b>        | <b>PROJECT TITLE</b>                         |
| M5 Junction 10 Improvements Scheme  | <b>PUBLISHED</b>     | M5 Junction 10 Improvements Scheme           |
| <b>DRAWING TITLE</b>  | <b>STATUS</b>        | <b>DRAWING NUMBER</b>                        |
| FIGURE 6-5<br>OPERATION PHASE DO MINIMUM<br>OPENING YEAR - DAYTIME NOISE LEVELS | <b>A1</b>            | GC05J10 - ATK - ENV<br>ZZ - GS - GI - 000002 |
| <b>CLIENT</b>   | <b>PROJECT</b>       | <b>ORIGINATOR</b>                            |
| Gloucestershire County Council  | GCCM5J10 - ATK - ENV | ZZ - GS - GI - 000002                        |
| <b>LOCATION</b>   | <b>TYPE</b>          | <b>ROLE</b>                                  |
|   |                      |  |
| <b>ORIGINAL SIZE</b>  | <b>SCALE</b>         | <b>PROJECT REF.</b>                          |
| A3  | 1:400,000            | 5214106                                      |
| <b>SHEET</b>  | <b>NUMBER</b>        | <b>REV.</b>                                  |
| 1 of 2  |                      | P02  |

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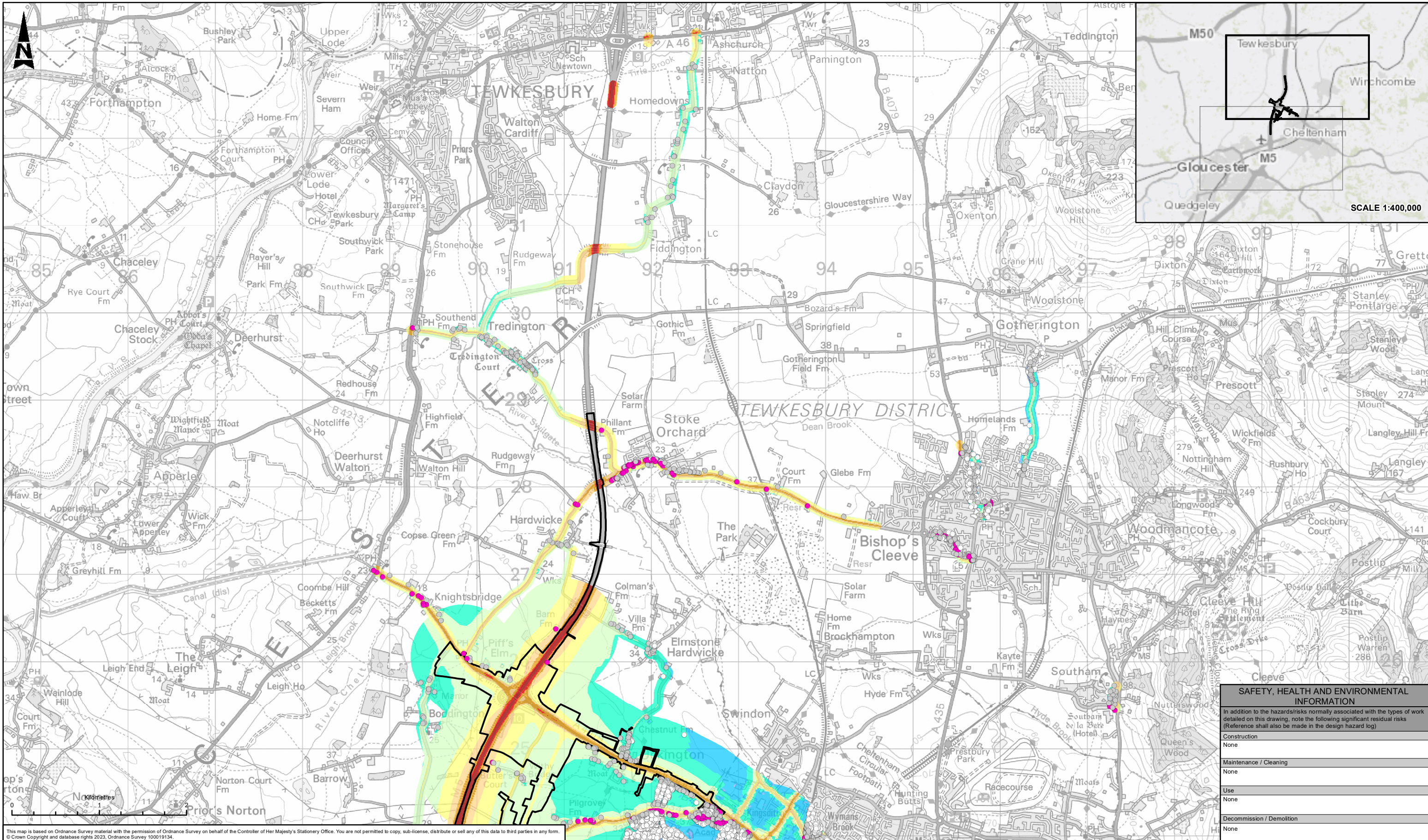
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| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| LEGEND  |                |
|---|----------------|
| ORDER LIMITS  |                |
| <b>POLICY SIGNIFICANCE</b>                              |                |
| above SOAEL   |                |
| between LOAEL and SOAEL                                 |                |
| below LOAEL   |                |
| <b>ROAD TRAFFIC NOISE LEVEL dB L<sub>A10,18hr</sub></b> |                |
| <math><35.0\text{ dB}</math>                            | 55.0 - 59.9 dB |
| 35.0 - 39.9 dB  | 60.0 - 64.9 dB |
| 40.0 - 44.9 dB  | 65.0 - 69.9 dB |
| 45.0 - 49.9 dB  | 70.0 - 74.9 dB |
| 50.0 - 54.9 dB  | 75.0 - 79.9 dB |
|   | >=80.0 dB      |

| Description   |          | Drawing Suitability |              | Status   |            | Project Title |                                    |          |      |      |        |      |    |       |           |              |         |       |        |      |     |
|---|----------|---------------------|--------------|----------|------------|---------------|------------------------------------|----------|------|------|--------|------|----|-------|-----------|--------------|---------|-------|--------|------|-----|
| Status  | Revision | Drawn               | Checked      | Reviewed | Authorised | Issue Date    | M5 Junction 10 Improvements Scheme |          |      |      |        |      |    |       |           |              |         |       |        |      |     |
|   |          |                     |              |          |            |               |                                    |          |      |      |        |      |    |       |           |              |         |       |        |      |     |
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| <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>Gloucestershire COUNTY COUNCIL</p> </div> <div style="text-align: center;"> <p><b>FIGURE 6-5</b></p> <p><b>OPERATION PHASE DO MINIMUM</b></p> <p><b>OPENING YEAR - DAYTIME NOISE LEVELS</b></p> </div> </div>                                       |          |                     |              |          |            |               |                                    |          |      |      |        |      |    |       |           |              |         |       |        |      |     |
| <table border="1" style="width: 100%; font-size: small;"> <thead> <tr> <th>Location</th> <th>Type</th> <th>Role</th> <th>Number</th> <th>Rev.</th> </tr> </thead> <tbody> <tr> <td>A3</td> <td>Scale</td> <td>1:400,000</td> <td>Project Ref.</td> <td>5214106</td> <td>Sheet</td> <td>2 of 2</td> <td>Rev.</td> <td>P02</td> </tr> </tbody> </table> |          |                     |              |          |            |               |                                    | Location | Type | Role | Number | Rev. | A3 | Scale | 1:400,000 | Project Ref. | 5214106 | Sheet | 2 of 2 | Rev. | P02 |
| Location  | Type     | Role                | Number       | Rev.     |            |               |                                    |          |      |      |        |      |    |       |           |              |         |       |        |      |     |
| A3  | Scale    | 1:400,000           | Project Ref. | 5214106  | Sheet      | 2 of 2        | Rev.                               | P02      |      |      |        |      |    |       |           |              |         |       |        |      |     |

| Description   |          | Drawing Suitability |              | Status   |            | Project Title |                                    |          |      |      |        |      |    |       |           |              |         |       |        |      |     |
|---|----------|---------------------|--------------|----------|------------|---------------|------------------------------------|----------|------|------|--------|------|----|-------|-----------|--------------|---------|-------|--------|------|-----|
| Status  | Revision | Drawn               | Checked      | Reviewed | Authorised | Issue Date    | M5 Junction 10 Improvements Scheme |          |      |      |        |      |    |       |           |              |         |       |        |      |     |
|   |          |                     |              |          |            |               |                                    |          |      |      |        |      |    |       |           |              |         |       |        |      |     |
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| <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>Gloucestershire COUNTY COUNCIL</p> </div> <div style="text-align: center;"> <p><b>FIGURE 6-5</b></p> <p><b>OPERATION PHASE DO MINIMUM</b></p> <p><b>OPENING YEAR - DAYTIME NOISE LEVELS</b></p> </div> </div>                                       |          |                     |              |          |            |               |                                    |          |      |      |        |      |    |       |           |              |         |       |        |      |     |
| <table border="1" style="width: 100%; font-size: small;"> <thead> <tr> <th>Location</th> <th>Type</th> <th>Role</th> <th>Number</th> <th>Rev.</th> </tr> </thead> <tbody> <tr> <td>A3</td> <td>Scale</td> <td>1:400,000</td> <td>Project Ref.</td> <td>5214106</td> <td>Sheet</td> <td>2 of 2</td> <td>Rev.</td> <td>P02</td> </tr> </tbody> </table> |          |                     |              |          |            |               |                                    | Location | Type | Role | Number | Rev. | A3 | Scale | 1:400,000 | Project Ref. | 5214106 | Sheet | 2 of 2 | Rev. | P02 |
| Location  | Type     | Role                | Number       | Rev.     |            |               |                                    |          |      |      |        |      |    |       |           |              |         |       |        |      |     |
| A3  | Scale    | 1:400,000           | Project Ref. | 5214106  | Sheet      | 2 of 2        | Rev.                               | P02      |      |      |        |      |    |       |           |              |         |       |        |      |     |



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**LEGEND**

ORDER LIMITS

POLICY SIGNIFICANCE

- above SOAEL
- between LOAEL and SOAEL
- below LOAEL

**ROAD TRAFFIC NOISE LEVEL dB L<sub>A10,18hr</sub>**

- <35.0 dB
- 35.0 - 39.9 dB
- 40.0 - 44.9 dB
- 45.0 - 49.9 dB
- 50.0 - 54.9 dB
- 55.0 - 59.9 dB
- 60.0 - 64.9 dB
- 65.0 - 69.9 dB
- 70.0 - 74.9 dB
- 75.0 - 79.9 dB
- >=80.0 dB

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)

|                           |      |
|---------------------------|------|
| Construction              | None |
| Maintenance / Cleaning    | None |
| Use                       | None |
| Decommission / Demolition | None |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |

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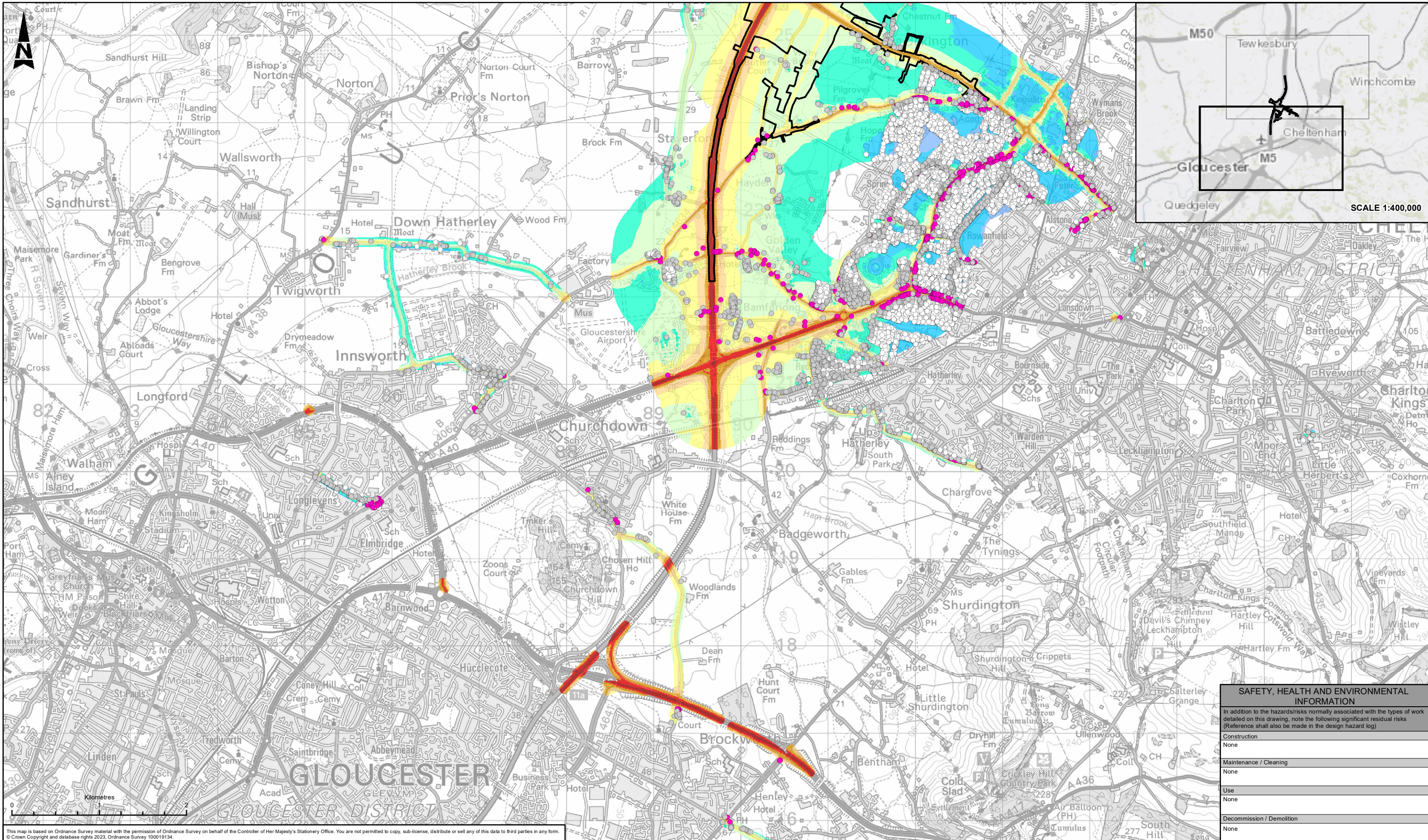
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COUNTY COUNCIL

**Project Title**  
M5 Junction 10 Improvements Scheme

**Drawing Title**  
FIGURE 6-6  
OPERATION PHASE DO SOMETHING  
OPENING YEAR -  
DAYTIME NOISE LEVELS

**Client**  
GCCM5J10 - ATK - ENV  
ZZ - GS - GI - 000004

**Project**  
Original Size: A3  
Scale: 1:400,000  
Project Ref: 5214106  
Sheet: 1 of 2  
Rev: P02



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|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| LEGEND  |                |
|---|----------------|
| ORDER LIMITS  |                |
| <b>POLICY SIGNIFICANCE</b>                              |                |
| above SOAEL   |                |
| between LOAEL and SOAEL                                 |                |
| below LOAEL   |                |
| <b>ROAD TRAFFIC NOISE LEVEL dB L<sub>A10,18hr</sub></b> |                |
| <35.0 dB  | 55.0 - 59.9 dB |
| 35.0 - 39.9 dB  | 60.0 - 64.9 dB |
| 40.0 - 44.9 dB  | 65.0 - 69.9 dB |
| 45.0 - 49.9 dB  | 70.0 - 74.9 dB |
| 50.0 - 54.9 dB  | 75.0 - 79.9 dB |
|   | >=80.0 dB      |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |

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|                   |  |
|-------------------|--|
| Project Title     | M5 Junction 10 Improvements Scheme   |
| Drawing Title     | FIGURE 6-6<br>OPERATION PHASE DO SOMETHING<br>OPENING YEAR -<br>DAYTIME NOISE LEVELS |
| Drawing Number    | Project: GCCM5J10 - ATK - ENV<br>ZZ - GS - GI - 000004                               |
| Original Size: A3 | Scale: 1:400,000<br>Project Ref: 5214106<br>Sheet: 2 of 2<br>Rev: P02                |

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